

Infront Investment Manager

User manual version 62

Extensive market data on our cloud-based platform

Exported from the Help Center on 05.12.2025

Please note that the software and hardware names mentioned in the user manual, as well as the brand names of the respective companies, are generally subject to trademark, brand or patent law provisions.

The information in this user manual is published without regard to any patent protection.

Product information is used without guarantee of free usability.

The texts and illustrations have been compiled with the utmost care. Nevertheless, errors cannot be completely ruled out.

The publishers and authors cannot accept any legal responsibility or liability for incorrect information and its consequences.

The publishers would be grateful for any suggestions for improvement and information about errors.

All rights reserved, including those of photomechanical reproduction and storage in electronic media.

Contents

1	Infront Investment Manager - At a glance.....	16
2	Introduction	17
3	Navigation and standard elements	18
3.1	Main menu.....	18
3.1.1	Quick links in the main menu	19
3.2	Elements in the title bar	20
3.3	Dashboards	22
3.3.1	Elements in the upper dashboard bar	22
3.3.2	Quick access to Dashboard favourites	24
3.3.3	Open dashboards.....	26
3.3.4	Edit dashboards	26
3.3.5	Copy dashboards	27
3.3.6	Discard changes in dashboard.....	28
3.3.7	Save dashboards.....	28
3.3.8	Dashboard templates	28
3.3.9	Dashboard versions	33
3.3.10	Delete dashboards	34
3.3.11	Share dashboards	36
3.3.12	Short portrait templates (Overlay templates).....	37
3.3.13	Dashboard Explorer.....	41
3.3.14	Dashboard properties	43
3.3.15	Create dashboards.....	44
3.4	Favourites	45
3.4.1	Add dashboards to favourites	45
3.4.2	Open favourites	45
3.4.3	Sort list of favourites	46
3.4.4	Remove dashboards from favourites.....	47
3.5	Context menus	48
3.6	Instrument portraits and PDF instrument profiles	48
3.6.1	Instrument portrait.....	48
3.6.2	Instrument profile.....	52
3.7	Note for new versions	56
3.8	Help Center and Infront Investment Manager	57
3.8.1	Open Help Center	58
3.9	Settings menu	61

3.10	Widget Gallery	62
3.10.1	Open Widget Gallery.....	64
3.10.2	Keyboard shortcuts in the Widget Gallery	65
3.10.3	Search widgets in the Widget Gallery	65
3.10.4	Close Widget Gallery	65
4	Working with widgets.....	67
4.1	Open widgets.....	67
4.2	Arrange widgets on the dashboard.....	67
4.3	Drag securities to widget.....	67
4.4	Group widgets	68
4.4.1	Multi-instrument linking	69
4.5	Export widget data to CSV file.....	70
4.6	Print widgets	73
4.6.1	Print chart widgets.....	75
4.7	Export widget data as "INFRONTXL" file	76
4.8	Widget collections.....	77
4.8.1	Adding a widget to a widget collection.....	77
4.8.2	Rename tabs of a widget collection.....	78
4.8.3	Remove widget from a widget collection.....	79
4.9	Export data of the widgets to Excel Add-In	79
4.10	Remove widgets from dashboard	79
4.10.1	User feedback on widgets	79
4.11	Copy widgets	80
4.12	Widget structure.....	80
4.12.1	Sort tables in widgets	84
4.12.2	Change and save column width	85
4.12.3	Commands in the widget menu	85
5	Widget overview	97
5.1	Alerts.....	98
5.1.1	Configure price alerts.....	99
5.1.2	"Prices" view in the "Alerts" widget	105
5.1.3	"News" view in the "Alerts" widget	107
5.1.4	"Log" view in the "Alerts" widget	109
5.1.5	"Rating" view in the "Alerts" widget.....	111
5.1.6	Edit price alerts.....	111
5.1.7	Copy price alerts	112
5.1.8	Delete price alerts	112

5.1.9	Show news alert as news search	113
5.1.10	Edit news alerts	113
5.1.11	Delete news alerts	113
5.1.12	Rating alerts	113
5.1.13	Signal alerts	114
5.1.14	Configure e-mail notifications for price alerts	116
5.1.15	Configure system notification for price alerts	116
5.1.16	Settings in the "Alerts" widget	117
5.1.17	Configure in-app notifications for price alerts	119
5.1.18	Configure sound notifications for price alerts	120
5.1.19	Export alerts	120
5.2	Arbitrage	120
5.2.1	Settings in the "Arbitrage" widget	123
5.3	Assetmax Portfolio	129
5.3.1	Assetmax login	130
5.3.2	Views in the "Assetmax-Portfolio" widget	130
5.3.3	Open portfolios in Assetmax	137
5.3.4	Settings in the "Assetmax-Portfolio" widget	137
5.4	Bond Data	138
5.4.1	Basic information	139
5.4.2	Issue information	140
5.4.3	Key figures	141
5.4.4	Prices	142
5.4.5	Coupon	143
5.4.6	Call option	143
5.4.7	Ratings	143
5.4.8	Infront key figures	146
5.4.9	Settings widget "Bond Data"	147
5.5	ESG Sector Scores	147
5.6	Focus Tile	147
5.6.1	Settings in the "Focus Tile" widget	148
5.7	Macroeconomic Calendar	149
5.7.1	Charts in the "Macroeconomic Calendar" widget	149
5.8	Corporate Actions	150
5.9	Chart Analysis	151
5.9.1	Settings on the "View" tab	157
5.9.2	Settings on the "Axis" tab	161
5.9.3	Select chart type and colour of the time series	164

5.9.4	Save "Chart Analysis" widget data as file	165
5.9.5	Export "Chart Analysis" widget data to CSV file	166
5.9.6	Indicators in the "Chart Analysis" widget	168
5.9.7	Show drawing elements	263
5.9.8	Show and manage securities	289
5.9.9	Zoom function in the "Chart Analysis" widget	297
5.9.10	Start news search from the chart	298
5.9.11	Settings in the "Chart analysis" widget	299
5.10	Certificate Data	305
5.10.1	"Settlement" area in the "Certificate Data" widget	306
5.10.2	"Investment idea" area in the "Certificate Data" widget	306
5.10.3	"Underlying" area in the "Certificate Data" widget	307
5.10.4	"Issue dates" area in the "Certificate Data" widget	308
5.10.5	"Refund scenario" area in the "Certificate Data" widget	309
5.10.6	"Key figures" area in the "Certificate Data" widget	310
5.10.7	"Cost" area in the "Certificate Data" widget	311
5.10.8	"Prices" area in the "Certificate Data" widget	312
5.10.9	"Risk" area in the "Certificate Data" widget	312
5.10.10	"Basic information" area in the "Certificate Data" widget	313
5.10.11	"Other basic information" area in the "Certificate Data" widget	314
5.10.12	"Dates" area in the "Certificate Data" widget	314
5.11	Full Quote	315
5.11.1	Full Quote - share	317
5.11.2	Full Quote - bond	319
5.11.3	Full Quote - currency	322
5.11.4	Full Quote - ETC/ETN	323
5.11.5	Full Quote ETF	325
5.11.6	Full Quote - fund	327
5.11.7	Full Quote - future	329
5.11.8	Full Quote - index	331
5.11.9	Full Quote - certificate	333
5.11.10	Settings in the "Full Quote" widget	342
5.11.11	Full Quote - warrant/option	342
5.12	MiFID	345
5.12.1	General MiFID II data	346
5.12.2	Sustainability	347
5.12.3	Sustainable investments	348
5.12.4	Negative target market	348

5.12.5	Costs (MiFID).....	348
5.12.6	Target market	350
5.13	Key Figures	351
5.14	Chart	352
5.14.1	Chart type	358
5.14.2	Drag security to chart	370
5.14.3	Convert "Chart" widget to "Chart Analysis" widget	371
5.14.4	Export charts	372
5.14.5	Settings in the "Chart" widget	373
5.15	Commodity Spread Calculator	382
5.15.1	"Chart" view in the Commodity Spread Calculator	384
5.16	Bond Spread Calculator	385
5.17	Knock-Out Map	387
5.17.1	Settings in the "Knock-Out Map" widget	389
5.18	Time and Sales	389
5.18.1	"Trade" view in Time and Sales	390
5.18.2	"Bid and Ask" view in Time and Sales	396
5.18.3	Settings in the "Time and Sales" widget	398
5.19	Derivative Matrix	398
5.20	Performance Tile	401
5.20.1	Settings in the "Performance Tile" widget	402
5.21	Screener results	407
5.21.1	Settings in the "Screener Results" widget	407
5.22	FX Calculator	409
5.23	theScreener Company Analysis	409
5.24	Financials (balance sheet data)	413
5.24.1	Financials - Cash flow	414
5.24.2	Financials - Securities data	414
5.24.3	Financials - Balance sheet	415
5.24.4	Company Data - Fundamental data	416
5.24.5	Company Data - Profitability	417
5.24.6	Company Data - Capital structure	418
5.24.7	Company Data - Other key figures	419
5.24.8	Display charts for selected key figures	420
5.24.9	Financials - Profit and Loss	421
5.25	Interest Rate Calculator	422
5.25.1	Settings in the "Interest Rate Calculator" widget	425
5.26	Fund Comparison	426

5.26.1	Fund Comparison - Fund company	428
5.26.2	Fund Comparison - Investment focus	428
5.26.3	Fund Comparison - Chart	429
5.26.4	Funds Comparison - Risk	431
5.26.5	Settings in the "Fund Comparison" widget	432
5.26.6	Fund Comparison - Master data	437
5.27	Portfolio	438
5.27.1	Create new portfolio	438
5.27.2	Open portfolio	439
5.27.3	"Select portfolio" menu	439
5.27.4	Positions in the "Portfolio" widget	440
5.27.5	Record account posting	449
5.27.6	Standard elements in the "Portfolio" widget	450
5.27.7	Edit portfolio	452
5.27.8	Import portfolio	453
5.27.9	Delete portfolio	456
5.27.10	Settings in the "Portfolio" widget	456
5.27.11	Views in the "Portfolio" widget	467
5.28	Risk-Return Matrix	491
5.28.1	Zooming in the Risk-Return Matrix	494
5.28.2	"Chart" view in the "Risk-Return Matrix" widget	495
5.28.3	"Table" view in the "Risk-Return Matrix" widget	497
5.28.4	Copy the Risk-Return Matrix to the clipboard	499
5.28.5	Settings in the "Risk-Return Matrix" widget	499
5.29	Swap Calculator	500
5.29.1	"Contract data" view in the Swap Calculator	502
5.29.2	"Cash flows" view in the Swap Calculator	505
5.29.3	"Fixed/floating cash flow" view in the Swap Calculator	507
5.29.4	"Net cash flow" view in the Swap Calculator	507
5.30	Benchmark Bond Spread Calculator	508
5.30.1	Show spreads in chart	509
5.31	FX Matrix	509
5.31.1	Add currencies to FX Matrix	511
5.31.2	Replace currencies in the FX Matrix	512
5.31.3	Settings in the "FX Matrix" widget	513
5.32	Certificate Comparison	514
5.32.1	Certificate Comparison – Master data	516
5.32.2	Certificate Comparison – Chart	517

5.32.3	Certificate Comparison - Risk	518
5.32.4	Settings in the "Compare Certificates" widget	519
5.33	Free Text	523
5.33.1	Settings in the "Free Text" widget	524
5.34	Trading Quote	526
5.34.1	Settings in the "Trading Quote" widget	527
5.35	Cap Floor Calculator	527
5.35.1	"General Contract Data" area	528
5.35.2	"Fixed" area	529
5.35.3	"Floating" area	529
5.35.4	"Valuation" area	530
5.36	Analyst Recommendations	530
5.36.1	Single recommendations	533
5.37	Broken Date Calculator	535
5.37.1	Settings in the "Broken Date Calculator" widget	538
5.38	All Fields	538
5.38.1	Add fields from the "All Fields" widgets to tables	540
5.38.2	Settings in the "All Fields" widget	542
5.39	News	542
5.39.1	Printing news	543
5.39.2	"Company News" widget	543
5.39.3	"News Search" widget	548
5.40	Fair Value Calculator (Option)	851
5.40.1	"Underlying" category in the "Fair Value Calculator (Option)"	852
5.40.2	"Option" area in the "Fair Value Calculator (Option)"	852
5.40.3	"Calculated fair value" area in the "Fair Value Calculator (Option)"	853
5.40.4	"Product value scenarios" area in the "Fair Value Calculator (Option)"	853
5.41	Exchange Calendar	854
5.41.1	Underlying details	855
5.42	Investment Calculator	857
5.42.1	Initial amount	858
5.42.2	Savings plan	859
5.42.3	Withdrawal with capital consumption	859
5.42.4	Fund initial amount	860
5.43	Fund Data	862
5.43.1	Basic information	863
5.43.2	Other master data	863
5.43.3	Investment strategy	864

5.43.4	Prices	865
5.43.5	Dates	865
5.43.6	Ratings	866
5.43.7	Risk assessment	867
5.43.8	Risk performance chart	868
5.43.9	Costs	870
5.43.10	Fund Structure	871
5.43.11	Performance	872
5.43.12	Annualised returns	873
5.43.13	Classifications	874
5.44	Top Derivatives and New Issues	876
5.44.1	Settings in the "Top Derivatives and New Issues" widget	878
5.45	Trading Signals	878
5.46	Bond Calculator	881
5.46.1	"Select security" area in the Bond Calculator	882
5.46.2	"Master data" area in the Bond Calculator	883
5.46.3	"Price/yield simulation" area in the Bond Calculator	885
5.46.4	"Results" area in the Bond Calculator	885
5.47	VWAP Calculator	887
5.48	vwd Pages	888
5.48.1	Navigation in the "vwd Pages" widget	890
5.48.2	Add vwd pages to favourites	892
5.48.3	Selection of favourite vwd pages	892
5.48.4	Context menu of securities on vwd pages	893
5.48.5	Export vwd pages to Excel (DAXL)	893
5.48.6	Add instruments from vwd page to existing watchlist	893
5.48.7	Copy of Create instruments from Screener as new watchlist	894
5.48.8	Add securities from vwd page to existing portfolio	895
5.48.9	Create securities from vwd page as a new portfolio	896
5.48.10	Compact view of vwd pages	898
5.49	Gainers & Losers	899
5.49.1	Settings in the "Gainers & Losers" widget	900
5.50	Performance Calculator	901
5.50.1	Historical value development since the value date	902
5.51	Related Documents	903
5.52	Bond Comparison	904
5.52.1	Bond Comparison - Basic information	904
5.52.2	Bond comparison - Coupon	905

5.52.3	Bond comparison - issue information.....	905
5.52.4	Bond comparison - Key figures.....	905
5.52.5	Bond Comparison - Chart.....	906
5.52.6	Settings widget "Bond Comparison".....	907
5.53	Correlation Matrix	910
5.53.1	Add securities to correlation matrix.....	911
5.53.2	Select trading venue for correlation matrix	911
5.53.3	Select the calculation period for the correlation matrix	912
5.53.4	Settings in the "Correlation Matrix" widget	912
5.54	FX Option Calculator	913
5.54.1	FX Option Calculator - "Table" section	916
5.54.2	FX Option Calculator - "Chart" area	916
5.54.3	Settings in the "FX Option Calculator" widget.....	917
5.55	Watchlist.....	917
5.55.1	Create new watchlist.....	918
5.55.2	Open watchlist.....	919
5.55.3	"Select watchlist" menu.....	919
5.55.4	Add security to a watchlist.....	920
5.55.5	Edit position of a watchlist.....	921
5.55.6	Copy or move position to another watchlist.....	922
5.55.7	Delete position from a watchlist	923
5.55.8	Standard elements of the "Watchlist" widget.....	923
5.55.9	View in the "Watchlist" widget.....	924
5.55.10	Edit watchlist.....	937
5.55.11	Copy watchlist.....	938
5.55.12	Import watchlist	938
5.55.13	Delete watchlist.....	942
5.55.14	Settings in the "Watchlist" widget.....	943
5.56	Wealth Portal	949
5.56.1	Views in the "Wealth Portal" widget.....	950
5.56.2	Settings in the "Wealth Portal" widget	950
5.57	Warrants Calculator	950
5.57.1	Elements in the Warrants Calculator	951
5.58	Fair Value Calculator (Share).....	955
5.59	Index Members.....	956
5.59.1	Tile view	958
5.59.2	"Chart Gallery" view.....	958
5.59.3	Settings in the "Index Members" widget.....	959

5.60	ESG Risk.....	963
5.60.1	"Overview" view	964
5.60.2	"Chart" view	966
5.60.3	"Summary" view	966
5.61	Related Instruments.....	967
5.61.1	Settings in the "Related Instruments" widget.....	971
5.62	Historical Prices	972
5.62.1	"Historical Prices" widget for funds	974
5.62.2	Settings in the "Historical Prices" widget	974
5.63	Option Matrix.....	975
5.63.1	Elements of the Option Matrix.....	976
5.63.2	Settings in the "Option Matrix" widget.....	980
5.64	Volatility Chart.....	982
5.64.1	Settings in the "Volatility Chart" widget.....	984
5.65	Warrant Matrix.....	987
5.65.1	Elements of the Warrant Matrix.....	988
5.65.2	Settings in the "Warrant Matrix" widget.....	990
5.66	Market Depth	992
5.66.1	General daily information about the security	993
5.66.2	Price performance as candle chart.....	994
5.66.3	The last paid prices (trades) including the volume.....	994
5.66.4	Best Bid and Best Ask Prices	994
5.66.5	Settings in the "Market Depth" widget.....	994
5.67	Company Profile.....	996
5.67.1	"Top Holders" view	996
5.67.2	"Peers" view	997
5.68	Earnings Estimates	997
5.68.1	"Per share" view	997
5.68.2	"Financials" view	999
5.68.3	"Analyst Recommendations" view	1001
5.69	Global Indices.....	1003
5.70	Swaption Calculator.....	1005
5.70.1	"General Contract Data" area.....	1006
5.70.2	"Floating" area.....	1007
5.70.3	"Valuation" area.....	1008
5.71	Economic Data	1008
5.71.1	Economic Data - "Comparison chart" view: Line chart.....	1009
5.71.2	Economic Data - "Comparison chart" view: Bar chart	1014

5.71.3	Economic Data - "Germany" view	1014
5.71.4	Economic Data - "G7/CH/Euroland" view	1015
5.71.5	Economic Data - "Emerging markets" view	1016
5.72	Yield Curves	1017
5.72.1	Yield Curves view	1017
5.72.2	Spread analysis	1018
5.72.3	Show individual securities	1019
5.73	Index Membership	1020
5.73.1	Settings in the "Index Membership" widget	1021
5.74	Ticker tape	1022
5.74.1	Add ticker tape	1023
5.74.2	Ticker tape elements	1023
5.74.3	Ticker tape settings	1023
5.74.4	Pin picker tape to top dashboard bar	1025
5.74.5	Hide ticker tape	1025
5.75	Time and Sales Vertical	1026
6	Search	1027
6.1	Quick search	1028
6.1.1	Quick search via the input field in the title bar	1028
6.1.2	Quick search in menus and widgets	1029
6.1.3	Open results of the quick search via drag	1030
6.1.4	Quick search - History	1032
6.1.5	Quick search - Trending	1033
6.2	General search	1034
6.2.1	Select several hits from the search results	1037
7	Screener	1039
7.1	Screener start page	1040
7.2	Open screens	1040
7.2.1	Open screen from the Screener Explorer	1041
7.2.2	Open screen from the screen search	1041
7.2.3	Open screen using the tiles on the Screener homepage	1042
7.2.4	Create and open a new empty screen	1042
7.3	Standard elements in screens	1044
7.4	Filter screens	1046
7.4.1	Filter criteria with slider	1048
7.5	Save screens	1049
7.6	Save screens as copy with another name	1050

7.7	Screen settings	1051
7.8	Mark screens as favourites	1052
7.9	Show results in Screener	1052
7.9.1	Settings of the results list in the Screener.....	1057
7.9.2	Display results in the "Screener results" widget	1058
7.10	Open short portraits from results list	1058
7.11	Export instruments from Screener to Excel	1059
7.12	Add instruments from Screener to existing watchlist	1060
7.13	Create instruments from Screener as new watchlist.....	1061
7.14	Add instruments from Screener to existing portfolio	1062
7.15	Create instruments from Screener as new portfolio.....	1063
7.16	Fund Screener	1065
7.16.1	Filters in fund screens	1066
7.17	Certificate Screener	1069
7.17.1	Filters in certificate screens (security group "All")	1070
7.17.2	Filters in certificate screens (security group "Reverse convertible bonds").....	1071
7.17.3	Filters in certificate screens (security group "Bonus")	1072
7.17.4	Filters in certificate screens (security group "Discount")	1073
7.17.5	Filters in certificate screens (security group "Express")	1073
7.17.6	Filters in certificate screens (security group "Outperformance").....	1074
7.18	Bond Screener	1075
7.18.1	Filters in bond screens.....	1076
7.19	Share Screener	1078
7.19.1	Filters in share screens.....	1079
7.20	Leverage Screener	1082
7.20.1	Filters in leverage screens (leverage groups "All")	1083
7.20.2	Filter in leverage screens (leverage groups "Factor certificate").....	1084
7.20.3	Filter in leverage screens (leverage groups "Knock-out")	1085
7.20.4	Filter in leverage screens (leverage group "Warrant").....	1086
7.21	CDS Screener.....	1086
7.21.1	Filters in CDS screens.....	1087
7.22	Issuer Screener	1088
7.22.1	Filters in issuer screens.....	1089
7.23	Delete screens.....	1090
8	Communication Center	1092
8.1	Settings.....	1092
8.2	Admin area	1093

9	Administration	1095
9.1	First login.....	1095
9.2	Log in	1097
9.3	Password rules.....	1098
9.4	Language selection.....	1098
9.4.1	Language selection in the login screen	1098
9.4.2	Language selection in the settings menu.....	1100
9.5	Log out.....	1101
9.6	Contact	1102
9.7	Settings and profile.....	1103
9.7.1	"Print frame" area	1104
9.7.2	"Sources" area	1104
9.7.3	"Legal" area	1105
9.7.4	"Activation" area	1106
9.7.5	"Assetmax" area	1106
9.7.6	Select theme.....	1107
9.7.7	Select branding	1109
9.7.8	Intro.....	1109
9.7.9	Configure print layout	1110
9.7.10	Enable Colour Assist.....	1111
9.8	Privacy Policy	1111
9.9	Disclaimer.....	1111
9.10	Log	1111
9.11	System requirements.....	1112
9.12	Imprint	1113
9.13	Send feedback.....	1113

1 Infront Investment Manager - At a glance

- Browser-based terminal with access to global market data, reference data, news, equity analysis, portfolio information and regulatory documents
- Add-in for Excel to easily make your own analysis
- Multi-asset in-depth screening possibilities
- Platform-independent and available on mobile devices
- Dashboards can be centrally pre-configured or customized
- Multiple handy calculators for bonds, swaps, investments and other
- Modular content packages to suit your needs
- Integration with other Infront regulatory and portfolio products
- Customizable PDF instrument factsheets
- Widget-based state-of-the-art technology
- Scalable, secure microservice-based, multi-tenant capable design for cloud-native deployment
- White labelling possible together with client specific customizations and data integration

2 Introduction

On these help pages, you will learn about the various possibilities that Infront Investment Manager offers.

Infront Investment Manager is a web-based responsive tool supporting the most important current browsers and runs on tablets and smart phones. The workspace consists of configurable dashboards where you can freely add widgets with particular functions and analyses.

The [general user interface and navigation of the dashboards](#) is explained first. The [Widget Gallery](#) is then used to outline the general structure of the widgets, before the individual functions are presented in the [Widget overview](#) chapter.

A separate chapter is dedicated to [Screener](#).

See chapter [Administration](#) to learn more about login, system requirements or general profile settings.

3 Navigation and standard elements

In this chapter, the navigation and structure of the graphical user interface is presented in more detail.

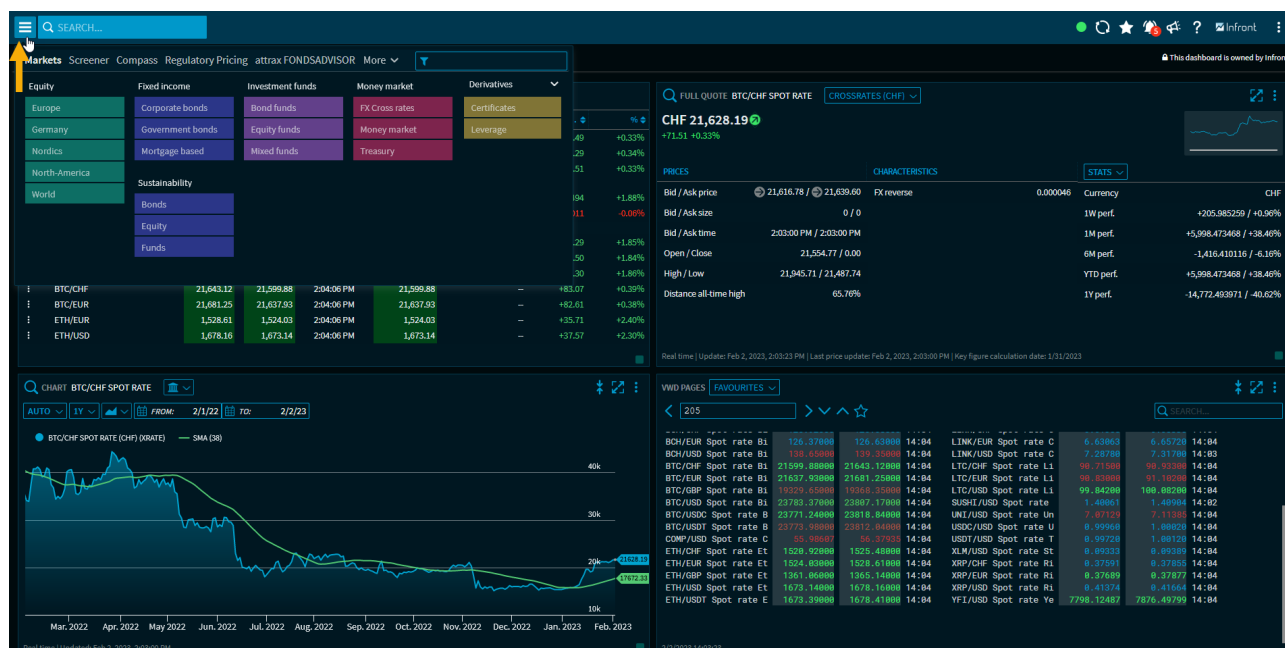
See also:

- [Main menu](#)
- [Elements in the title bar](#)
- [Dashboards](#)
- [Favourites](#)
- [Context menus](#)
- [Widget Gallery](#)
- [Instrument portraits and PDF instrument profiles](#)
- [Note for new versions](#)
- [Help Center and Infront Investment Manager](#)
- [\(50-en\) App Switcher](#)
- [Settings menu](#)

3.1 Main menu




Use the main menu icon on the far left of the Infront Investment Manager title bar to open a menu with standard commands.

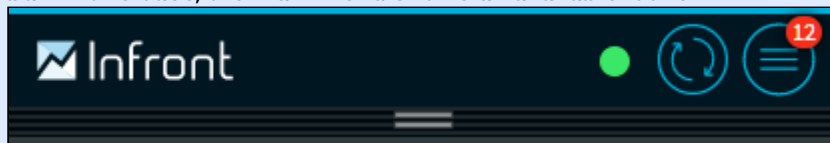


In detail, you can open the following functions by using the commands at the top of the main menu:

Command	Description
Compass	If the "Compass" function is available to you, select this command to open the page.

Command	Description
Data Manager Compact	Select this command to open the product "Data Manager Compact" (with appropriate permission).
ESG module	Open the ESG module.
Markets	Closes the menu and returns to the current dashboard in Infront Investment Manager.
Regulatory pricing	Select this command to open the "Regulatory Pricing" module (if you have the appropriate permission).
Screener	Select this command to open the screener in Infront Investment Manager. For more information, see Screener .

 The commands available from the main menu support opening pages in a new browser tab. Press and hold the <CTRL> (Windows) or <CMD> (Mac) key while clicking the command. This function is also supported when selecting [Favourites](#) or links from context menus. On smaller output devices such as smartphones, you will also find the main menu icon on the title bar. In this case, the main menu shows all available icons.



Using the (coloured) quicklinks described below, you can also directly open dashboards optimised for the individual asset classes.

See also:

- [Quick links in the main menu](#)

3.1.1 Quick links in the main menu

If you have opened the main menu via the icon at the top left (as described in the previous section), you will find quick links for all asset classes, which you can use to directly open optimised dashboards for these asset classes.



By default, the colour-grouped quick links are divided into the following asset classes:

- Equity
- Fixed income
- Funds
- Money market
- Sustainability
- Derivatives
- More




You can search for quick links by using the filter field at the top right of the expanded main menu. The quick links are only displayed if the screen size is large enough. When the display is smaller, the previous compact main menu appears.









The grouping of the asset classes is configurable; when overflowing into columns, it is possible to navigate within the column using the arrows that are then visible at the bottom.


3.2 Elements in the title bar



Between the main menu icon on the left and the settings menu icon on the right you will find (in the browser version of Infront Investment Manager) further elements in the title bar.

Element	Description
App Switcher 	At the top left of the Infront Investment Manager, this icon provides you an (50-en) App Switcher that allows you to access all unlocked browser-enabled Infront products directly from the Infront Investment Manager.

Element	Description
Main menu icon 	<p>Use the next icon on the left side of the title bar to open the main menu.</p> <p>For more information about the individual functions in the menu, see Elements in the title bar.</p>
Quick search	<p>A quick search for securities is available via the "Search..." input field.</p> <p>See also the section Search.</p>
"Favourites" icon 	<p>Use the "Favourites" icon to open the list of favourites.</p> <p>For more information, see Favourites.</p>
Online status indicator 	<p>This symbol indicates the status of the connection.</p>
"Reload" icon 	<p>Refreshes the display of your Infront Investment Manager.</p>
"Alerts" icon 	<p>This icon opens the notifications of the triggered alerts in the "Log" view of the "Alert" widget. If there are current alerts, the number of alerts is indicated by the icon.</p> <p>See also the section Alerts.</p>
"Communication Center" icon 	<p>In future, you can use this icon to open the "Communication Center", which is not yet available.</p>
"Help" icon 	<p>Click the "Help" icon to open the Help Center with the online help of your Infront Investment Manager in a new browser tab.</p> <p>In the online help, you find information on how to work efficiently with Infront Investment Manager and details on each widget and the modules.</p> <p>The Help Center also provides comprehensive information about other products such as Infront Investment Manager.</p>
Infront logo	<p>On the top right side of the title bar, you see the Infront logo.</p> <div>  <p>Point to the logo to display the exact version number of the Infront Investment Manager.</p> </div>

Element	Description
Settings menu icon 	Use the icon on the right side of the title bar to open the settings menu. For more information about the various commands, see Settings menu .

3.3 Dashboards

The dashboards in Infront Investment Manager allow you to freely arrange up to 50 widgets. You can configure and save your own dashboards. You can share these private dashboards with other users.

You can save changes to your private dashboards and then also compare or revert to older [Dashboard versions](#).



Directly in the main menu, [many optimised dashboards](#) are also available to you for quick access by using the so-called quicklinks.
In addition, the [Dashboard Explorer](#) also offers some pre-defined standard dashboards.
By default, you can use up to 100 dashboards.
Depending on the size of the browser window, some quick access favourites are displayed in the upper dashboard bar.

This chapter covers most of what you need to know about dashboards.

See also:

- [Elements in the upper dashboard bar](#)
- [Quick access to Dashboard favourites](#)
- [Open dashboards](#)
- [Edit dashboards](#)
- [Copy dashboards](#)
- [Discard changes in dashboard](#)
- [Save dashboards](#)
- [Dashboard templates](#)
- [Dashboard versions](#)
- [Delete dashboards](#)
- [Share dashboards](#)
- [Short portrait templates \(Overlay templates\)](#)
- [Dashboard Explorer](#)
- [Dashboard properties](#)
- [Create dashboards](#)




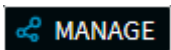

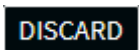
3.3.1 Elements in the upper dashboard bar




In the upper part of the dashboard (below the title bar with the central menu icon), you find the [Dashboard Explorer](#) and other basic functions.



Depending on the size of the browser window, [some quick access favourites](#) are displayed in the upper dashboard bar.

By default, the following functions are also available in the dashboard bar:

Element	Description
 Dashboard Explorer	<p>Use the drop-down list at the top left of the dashboard (next to the title "Markets") to open Dashboard Explorer to select and configure the dashboards.</p> <p>In addition, you see the name of the currently selected dashboard. You can edit this name directly here. To do this, click in the field, enter the desired name and confirm the entry with <RETURN>.</p> <p>For more information, see Create dashboards, Open dashboards and Edit dashboards.</p>
 "Add to favourites" button	<p>Click this button to mark the current dashboard as favourites.</p> <p>You can then see from the "shining star" whether a currently open dashboard is marked as a favourite. To remove it from your favourites, click the button again.</p> <p>See also Add dashboards to favourites.</p>
 "Share dashboard" button	<p>Click this button to open the "Manage dashboard access" dialogue box and share it with other users of Infront Investment Manager.</p> <p>If the dashboard is currently shared with at least one other user, you will see the "Manage" button described in the next line here.</p> <p>See also Share dashboards.</p>
 "Manage" button	<p>Click this button to open the "Manage dashboard access" dialogue box and manage dashboard access by other users.</p> <p>This button is visible if the dashboard is currently shared with at least one other user, otherwise you will see the "Share dashboard" button described in the line above.</p> <p>See also Share dashboards.</p>
 "Properties" button	<p>Click this button to open the "Dashboard properties" dialogue window.</p> <p>For more information about the settings, see Dashboard properties.</p>
This dashboard was created by user XY text	<p>This information appears if the currently open dashboard was created by another user. "Superordinate" dashboards such as standard Infront or standard company dashboards cannot be edited (lock symbol).</p>
 "Discard" button	<p>If you have made changes to private dashboards but have not yet saved them, you can reset the changes to the last saved status of the dashboard using this button, which is only visible if you have done so.</p>

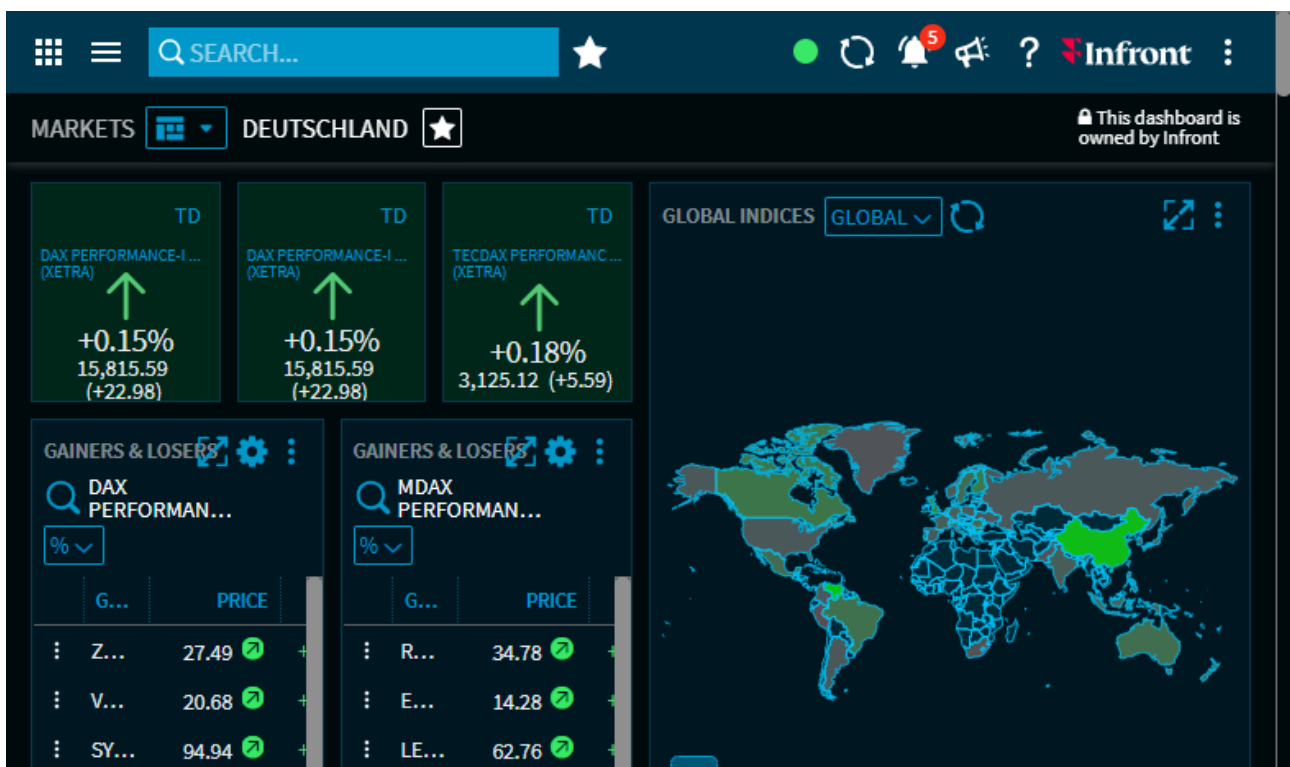
Element	Description
 "Versions" drop-down list	Click this button to open the history of the saved Dashboard versions .
 "Save dashboard" button	This button allows you to save the current dashboards configuration. If there are currently no changes to be saved, the button is disabled ("greyed out").
 "Open widget gallery" icon	At the height of the header of the private dashboard, you will also find the icon for opening the Widget Gallery on the right-hand side.

3.3.2 Quick access to Dashboard favourites

Dashboard favourites can be accessed in the top dashboard bar with one click. Decisive for the display is on the one hand the order of the favourites and on the other hand the available space in the corresponding browser window.



Width 1910 px: 10 dashboards available for direct access



Hold down the <CTRL> key when clicking on a favourite to open the desired dashboard in a new browser window ("browser tab").

3.3.3 Open dashboards

To open (another) dashboard:

1. Open the Dashboard Explorer in the upper left corner of the dashboard bar.
2. Select the corresponding dashboard from the Explorer (or in the folders of the Explorer).

This opens the dashboard.




Directly in the main menu, [many optimised dashboards](#) are also available to you for quick access by using the so-called quicklinks.

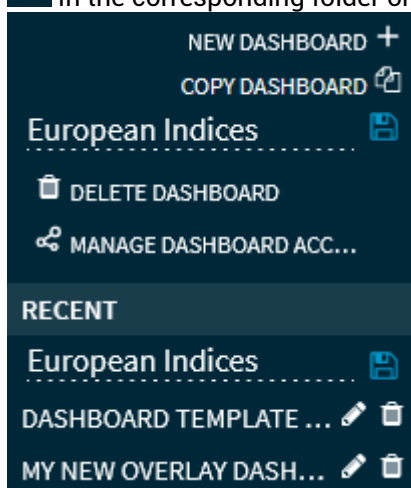
For more information about working with dashboards, see [Dashboard Explorer](#).

3.3.4 Edit dashboards

You can edit or rename the dashboards that you created yourself. If the current dashboard is not your private dashboard and thus not editable, then a corresponding note appears in the upper dashboard bar.

To edit an open private dashboard:

1. Open the [Dashboard Explorer](#).
2.  In the corresponding folder or subfolder, click the "Edit" icon in the Dashboard Explorer.



To rename the dashboard, edit the current dashboard name and click the (now visible) "Save" icon in the Dashboard Explorer.




If you want to rename a currently open dashboard, you can do this directly by using the Dashboard Explorer:
Click in the field with the name to the right of the Dashboard Explorer, enter the desired name and confirm the entry with <RETURN>.

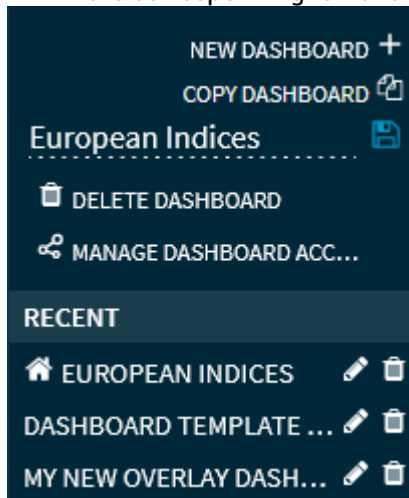
To manage the dashboard access of other users, see [Share dashboards](#).

To delete the dashboard, enable the edit mode, click the corresponding "Delete dashboard" icon, and when prompted confirm with "Yes".

To edit private dashboards that are not open:

1. Open the [Dashboard Explorer](#).

2.  In the corresponding folder or subfolder, click the "Edit" icon in the Dashboard Explorer.



Now you see "Edit" and "Delete" icons next to each private dashboard.

To rename one of the private dashboards, click the "Edit" icon for this dashboard, and then edit the current name of the dashboard in the text field. Click the "Save" icon now visible next to the name.

To delete one of the dashboards, click the corresponding "Delete" icon of the dashboard from the menu, and then confirm the security prompt with "Yes".



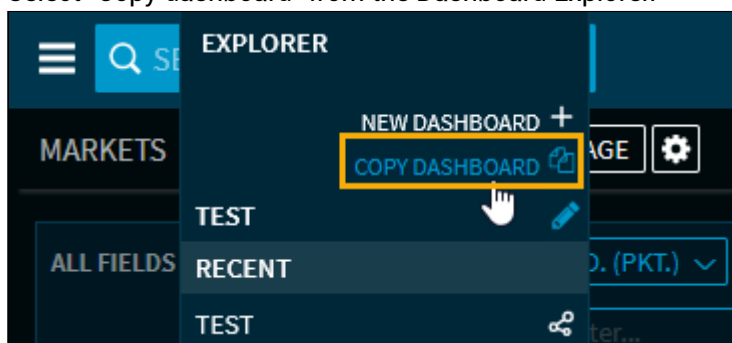
By default, your private dashboards are in the "My dashboards" folder in the Dashboard Explorer. For more information about how to create a new dashboard based on an existing dashboard, see [Copy dashboards](#). For more information about widgets in dashboards, see [Working with widgets](#) and [Widget overview](#).

3.3.5 Copy dashboards

You can copy dashboards. For example, you can copy predefined standard dashboards to quickly create and modify your own private dashboards.

To copy dashboards:

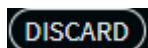
1. Open the dashboard from Dashboard Explorer .
2. Select "Copy dashboard" from the Dashboard Explorer.



3. In the "Create dashboard" dialogue window that appears, enter the name for the new dashboard in the "Name" field.
4. To use the dashboard as a template, select the "As template" checkbox.
5. Then click the "Create" button.

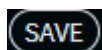
The new (private) dashboard opens. You can configure it as usual.

3.3.6 Discard changes in dashboard



If you made any changes in your **private dashboards** but have not saved them yet, you can undo the changes with the "Discard changes" button (appears only if there are changes in private dashboards).

3.3.7 Save dashboards



To save the widget configuration in your **private dashboards**, click the "Save" button.

Saved dashboards open in the last saved state when you open them the next time. Note the explanations on the history of the saved versions in [Dashboard versions](#).

3.3.8 Dashboard templates

Use the dashboard templates for example to assign an optimised dashboard to each security type. In Infront Investment Manager, you provide various dashboard templates. In addition, administrators can create their own templates.

For example, if you have a dashboard template for shares, then you open shares in this dashboard template by clicking the "Open as dashboard" command

You can find the dashboard templates in the Dashboard Explorer (select "vwd Dashboards" in the "Templates" folder).

In the [Dashboard properties](#), the "Dashboard template" checkbox allows you to convert a dashboard to a dashboard template and vice versa.

See also:

- [List of dashboard templates](#)
- [Create new dashboard as template](#)
- [Example: Create new dashboard template for funds](#)

List of dashboard templates

By default, Infront Investment Manager provides the following bundled dashboard templates:

- Equity
- Bonds
- Foreign exchange
- Funds
- Indices
- Commodities
- Certificates
- Standard (as fallback for all other asset classes)
- Overlay default (as List of dashboard templates)

In the "Standard" template, the "Fallback" checkbox is selected. Thus, it is used as dashboard template for all instruments that are not assigned to any other available template. For more information about creating custom dashboard templates, see [Create new dashboard as template](#).

Create new dashboard as template

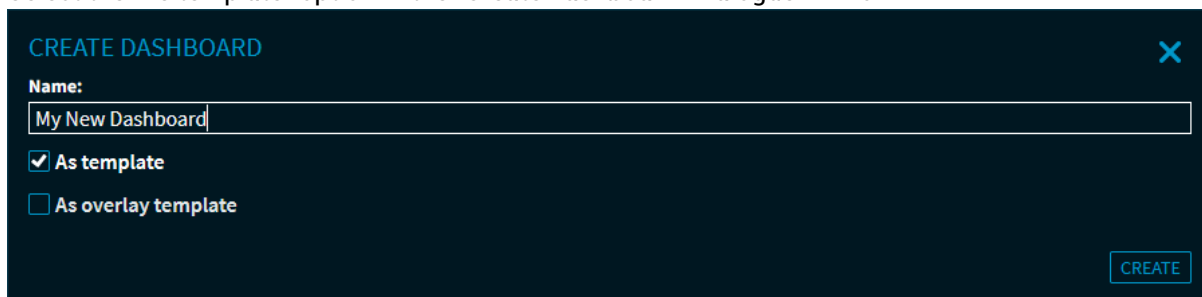


Only administrators of Infront Investment Manager can create, edit and delete dashboard templates.


Use the [Copy dashboards](#) function to create an individual dashboard based on a dashboard template.

When you [Create dashboards](#), you can specify if the dashboard is to be used as a dashboard template. To do this, follow these steps:

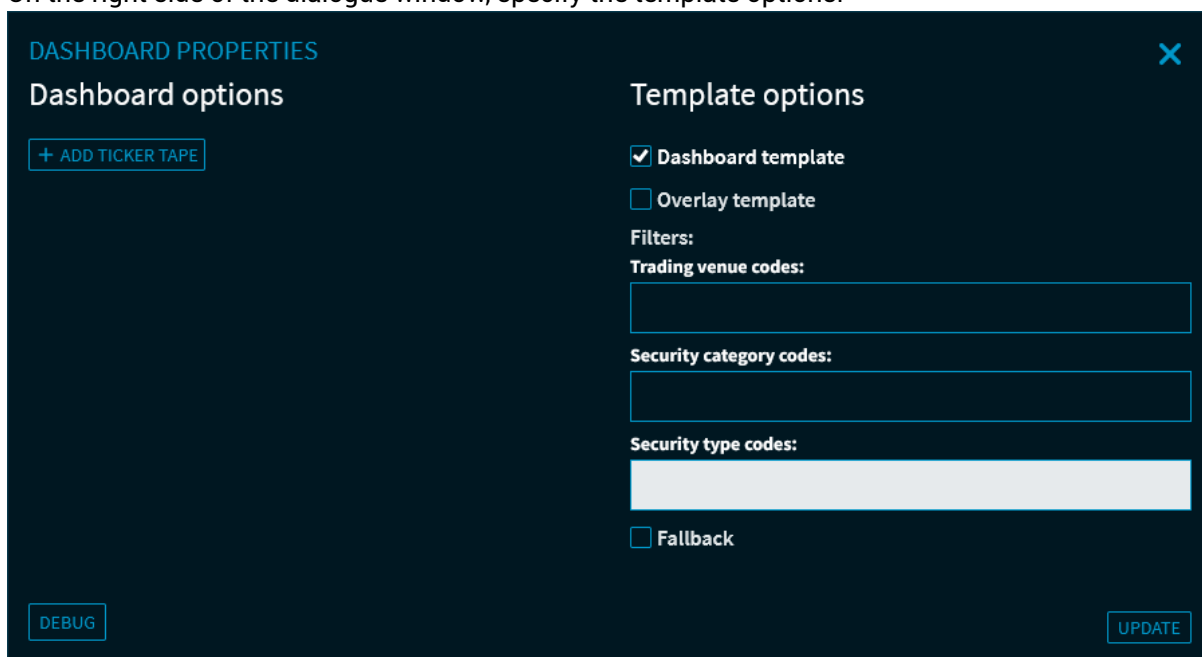
1. Select the "As template" option in the "Create dashboard" dialogue window.



2. Then click the "Create" button.
The new dashboard template opens.

3.  Click the "Properties" icon to open the "[Dashboard properties](#)" dialogue window.

4. On the right side of the dialogue window, specify the template options.



You can specify the following filter settings:

Filters	Description
Dashboard template	In dashboard properties, you can use this option to change dashboard templates back to "normal" dashboards and vice versa.

Filters	Description
Short portrait template	Check this setting to (also) use the dashboard as a short portrait template (overlay template) for search results. For more information, see Create new dashboard as template .
Trading venue codes	Enter the trading venue ID for the dashboard template, for example "ETR" for Xetra or "STX" for "DJ STOXX".
Security category codes	Enter the security category codes for the dashboard template, for example "Share", "Fund" or "Certificate".
Security type codes	Enter the security type codes to specify the security category for the dashboard template.
Fallback	Select this checkbox to assign the fallback function to this dashboard template. By default, the "Fallback" checkbox is selected in the "Standard" template. Thus, it is used as dashboard template for all instruments that are not assigned to any other available template.
Add ticker tape	With this button, you can embed a Ticker tape at the top of the dashboard.

- Click "Update" button to confirm the settings and closes the dialogue window.
- Next, open the Widget Gallery to add the corresponding widgets and arrange them accordingly. For more information, see [Working with widgets](#).
- Assign all widgets to groups. See also [Group widgets](#).
- Adjust the [Dashboard properties](#) to the dashboard template. These settings are used to determine the corresponding dashboard template when you open a security.

Example: Create new dashboard template for funds

To create a new dashboard template for funds:

- Open the Dashboard Explorer in the upper left corner of the dashboard bar.
- Select "New dashboard" from the menu.
- In the "Create dashboard" dialogue window that appears, enter a descriptive name in the "Name" input field.
- Select the "As template" option in the "Create dashboard" dialogue window.

CREATE DASHBOARD

×

Name:

Dashboard Template Funds


☒ As template

☐ As overlay template

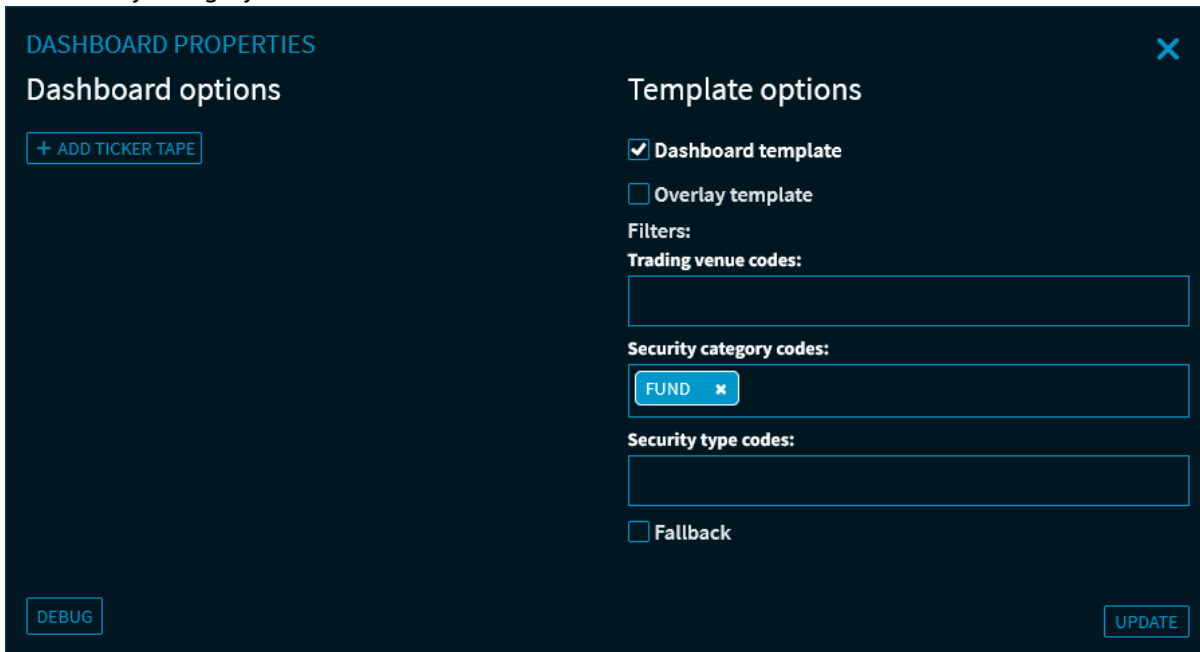
CREATE

5. Then click the "Create" button.

The new dashboard template opens.

6.  Click the "Properties" icon to open the "[Dashboard properties](#)" dialogue window.

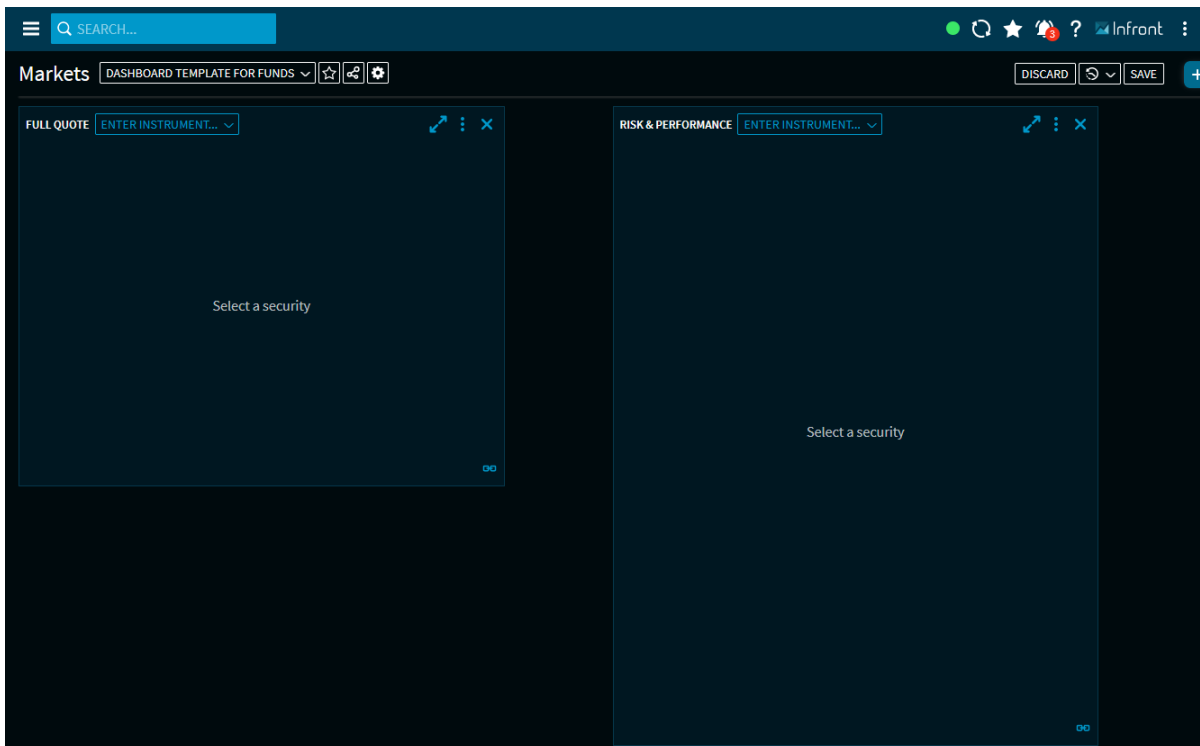
7. Now set the template options in the "Dashboard properties" dialogue window, for example "Funds" as the security category codes.



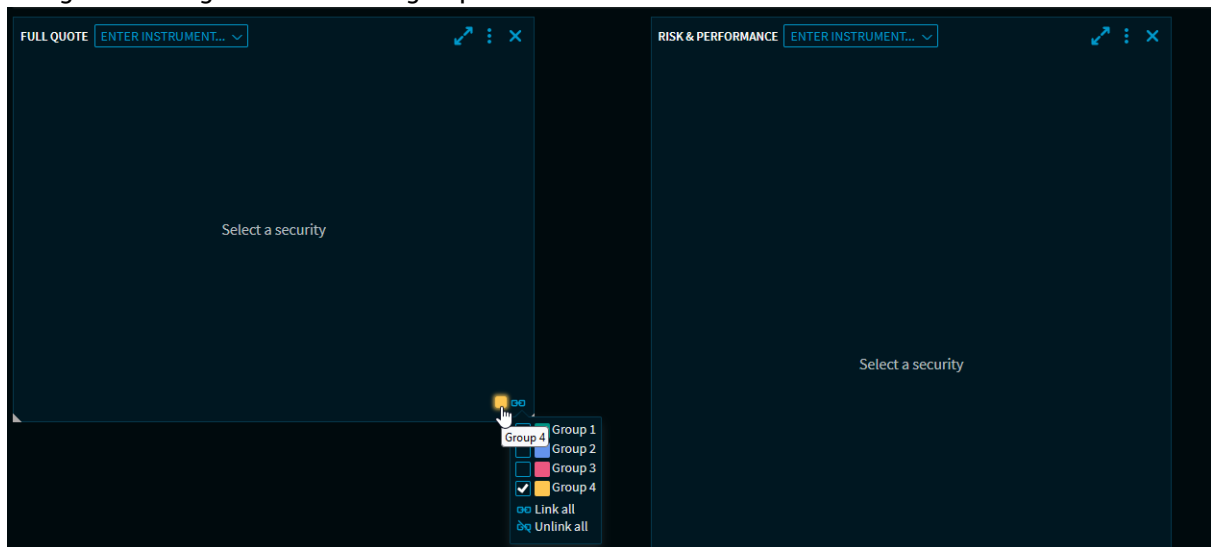
8. Then click the "Update" button to confirm your settings.

This opens the new (empty) dashboard.

9. Open the Widget Gallery and place the "Full Quote" and "Risk & Performance" widgets on the dashboard.

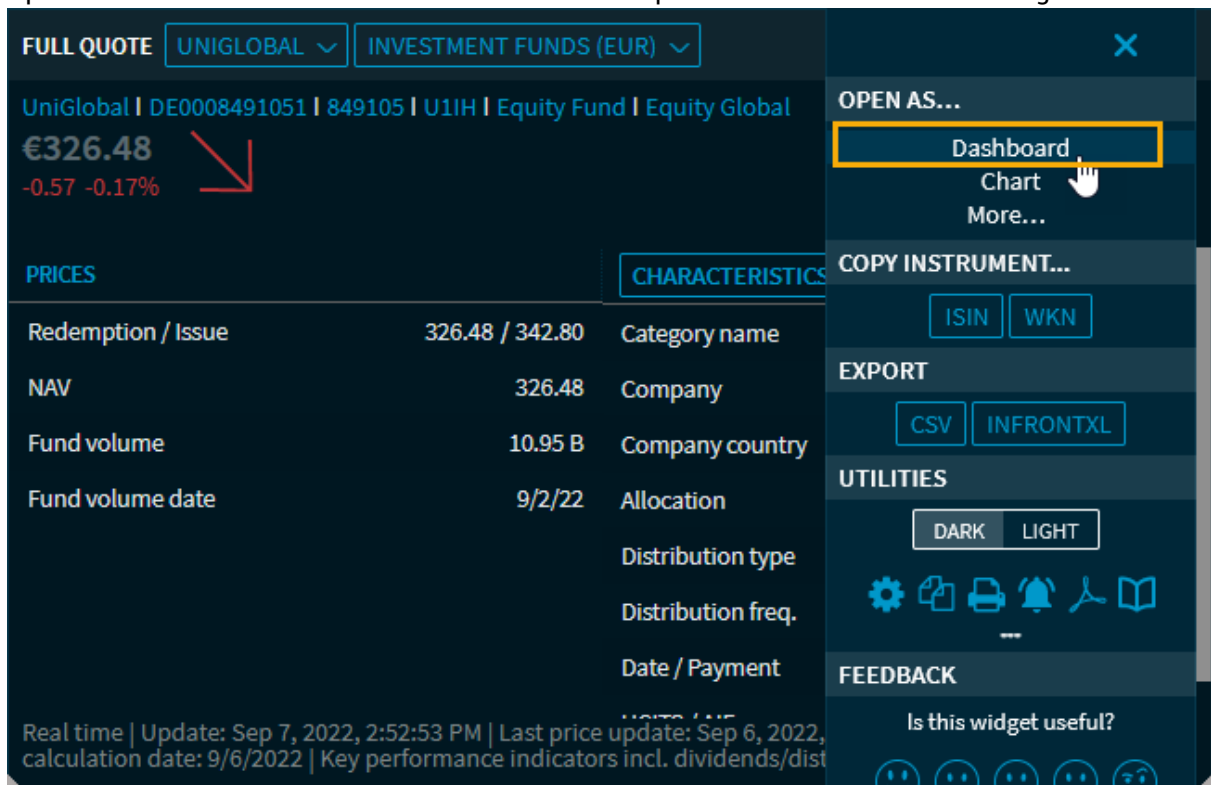


10. Assign both widgets to the same group.

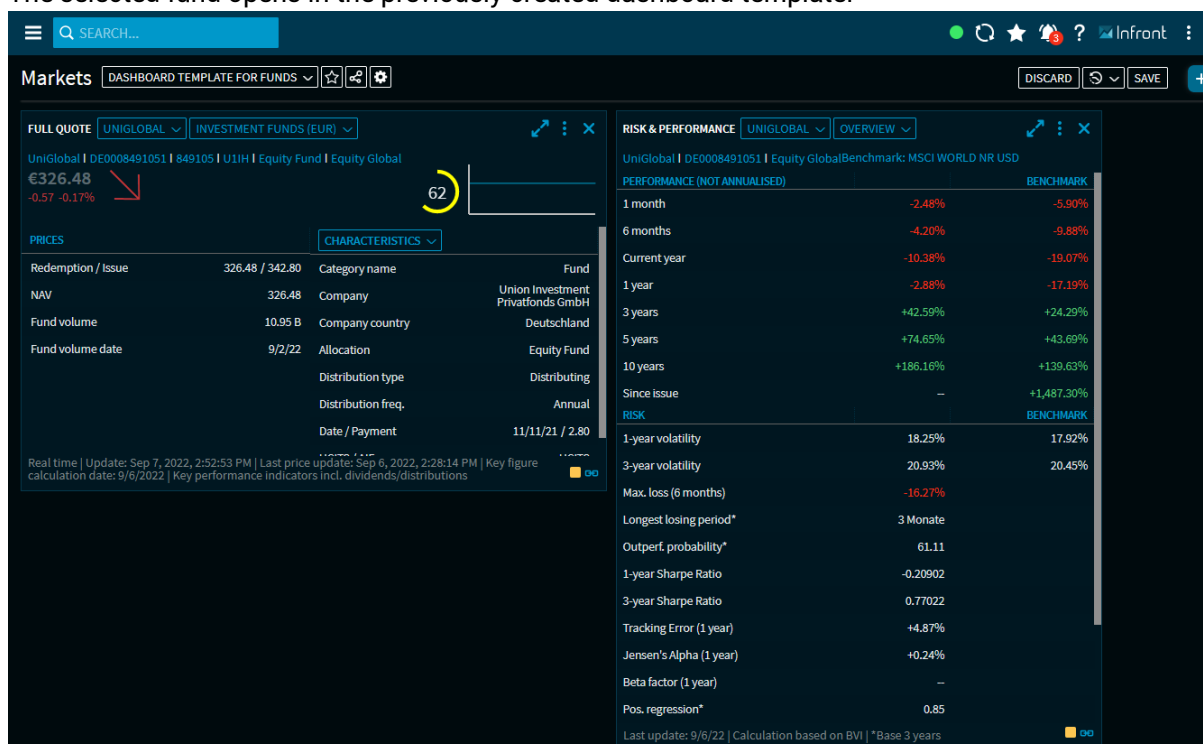


11. Click the "Save" button to save the dashboard template.

12. Open another dashboard or the Screener and select "Open as dashboard" from the widget menu.



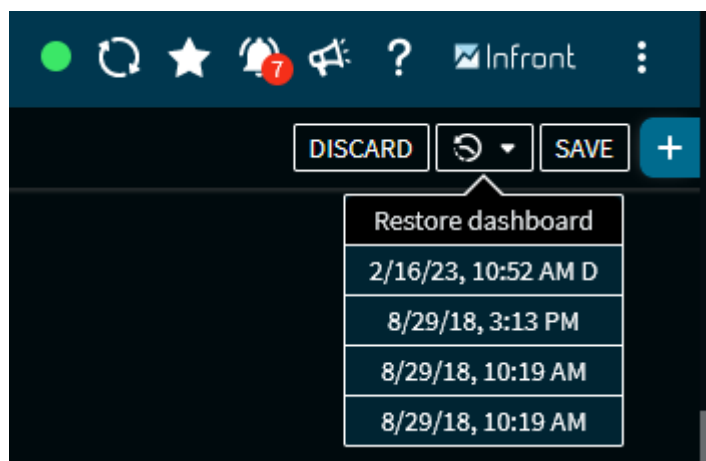
The selected fund opens in the previously created dashboard template:



3.3.9 Dashboard versions

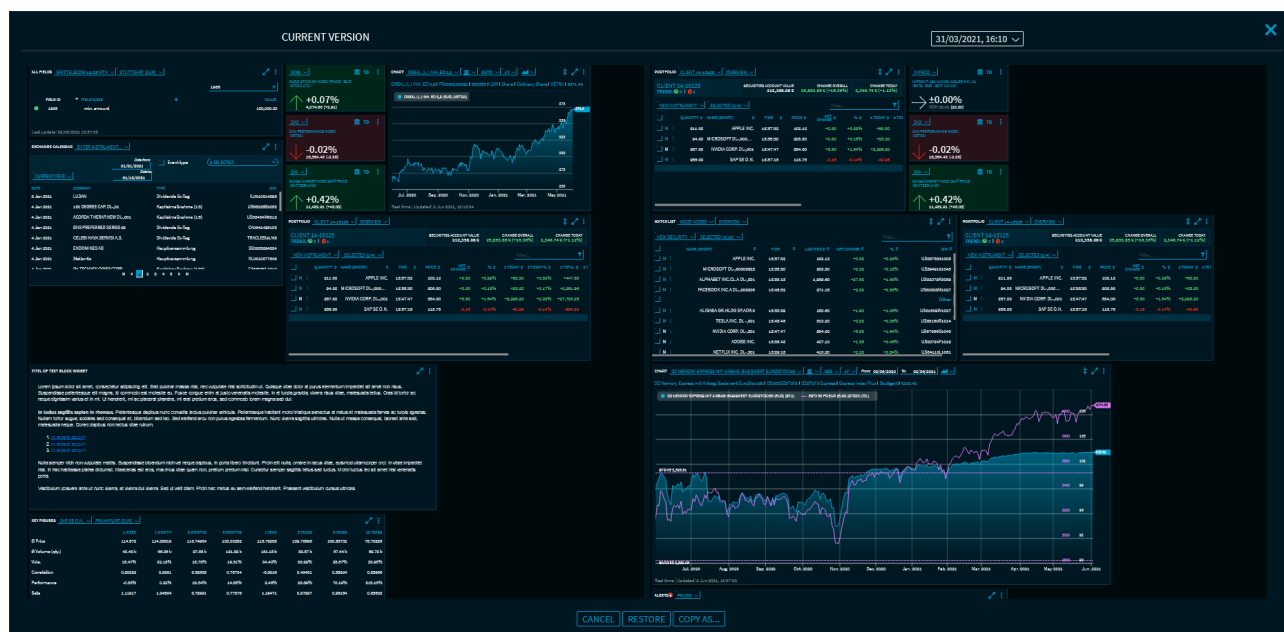
Saved (private) dashboards are available as dashboard versions in a history. This allows you to compare older work environments with the current state and restore them if necessary.

In the [upper dashboard bar](#), on the right side, you will find the button to open a menu with the history of the last saved versions of the current dashboard. In addition to the last saved version, there are 10 other versions to choose from.



For each saved dashboard version, you will see an entry with date and time, the most recent versions are at the top. Current dashboards that contain unsaved changes are marked as draft with the suffix "D".

Select the corresponding order entry. It is then compared with the current version:



On the left side you see the current version, on the right side the selected version from the history. You can scroll down in this view to see all the widgets. In the header, you also have the option to select a different dashboard version for the comparison.

The following options are available via the lower buttons:

Button	Description
Cancel	Select this button to exit the compare mode and return to the current version.
Restore	Click this button to restore the selected version. A corresponding message informs you about the successful recovery.
Copy as...	Click this button to create the dashboard version selected in the history as a new dashboard. To do this, enter a name in the "Create dashboard" dialogue window that appears and click the "Create" button. This opens the new dashboard. You can also create a new dashboard template via the "As template" checkbox.

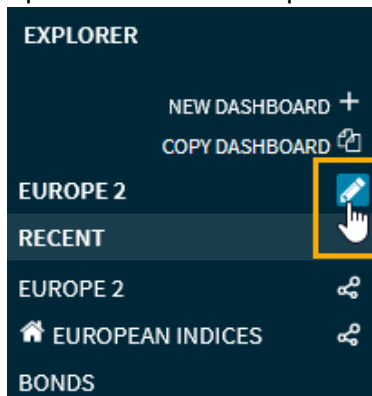
3.3.10 Delete dashboards

You can delete the (private) dashboards that you created by using the [Dashboard Explorer](#).

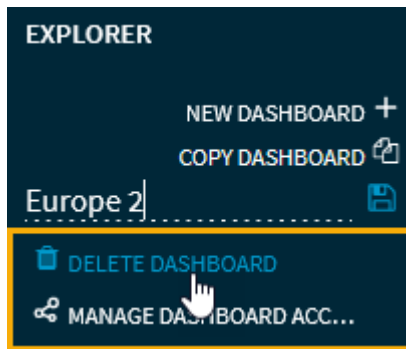
Delete currently open private dashboard

To delete an open private dashboard, follow these steps:

1. Open the Dashboard Explorer and click the "Edit" icon.



2. Select the "Delete dashboard" command that appears below.



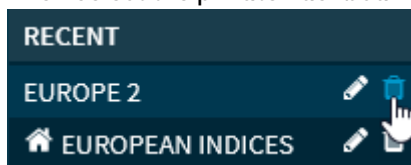
The following prompt appears: "Are you sure you want to delete dashboard "XY"?". Confirm with "Yes".

The private dashboard is deleted. If the dashboard to be deleted is a dashboard template, a corresponding message appears.

Delete (any) private dashboard

Use the Dashboard Explorer to also delete your currently closed private dashboards. To do this, follow these steps:

1. Open the Dashboard Explorer, and then click the "Edit" icon of the folder where the dashboard is located.
2. Then select the private dashboard that you want to delete and click the "Delete" icon.




3. The following prompt appears: "you sure you want to delete dashboard "XY"?". Confirm with "Yes". The private dashboard is deleted.




By default, your private dashboards are in the "Private dashboards" folder of the [Dashboard Explorer](#).

3.3.11 Share dashboards

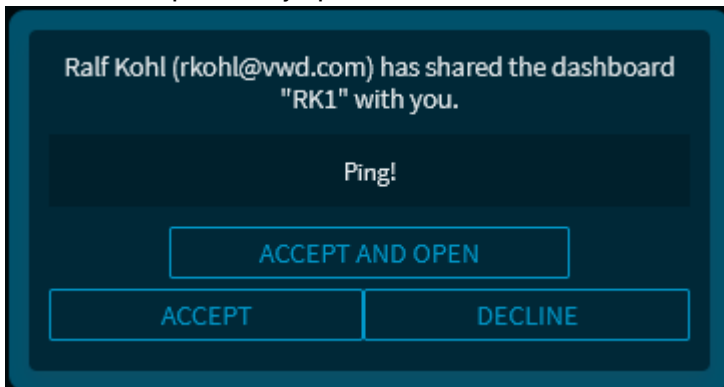
 Before sharing a dashboard with other users, make sure you have saved any changes you have made.

You can share your private dashboard with other users of Infront Investment Manager. To do this, follow these steps:

1. Open the private dashboard from Dashboard Explorer.
2. Click the "Share dashboard" icon in the dashboard bar.



3. Next, enter the users that you want to share your dashboard with. In the upper input field, enter the user name and select the corresponding user from the results list that appears.
 4. In the "Notification" text field, you can enter a message to the recipient.
 5. Click the "Share" button to share the dashboard with the selected user.
- The other user receives a message that appears in the lower part of the browser whether he or she wants to accept, directly open or decline the shared dashboard.



If the user accepts the dashboard, then he or she can open or edit it using the Dashboard Explorer. All shared dashboards can be found in the "Shared dashboards" folder of the Dashboard Explorer.

You can manage shared dashboards directly from the upper dashboard bar:

1. Open a (private) shared dashboard.



In the dashboard bar of shared dashboards, a corresponding information is shown ("This dashboard is shared").

2. To manage the access permissions, click the "Manage" button.

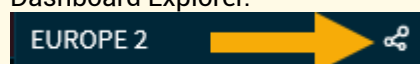
In the "Manage dashboard access" dialogue window that appears, you see the users that have access to the currently open dashboard. You also can see if the user has already accepted the dashboard you want to share.

To stop sharing a dashboard, select the corresponding checkbox, and then click the "Stop sharing" button.

3. To add another user, select the "Share with..." button, and then enter the corresponding user name. The changed access applies immediately, that is, the corresponding user can open the shared dashboards right away from the Dashboard Explorer in the "Shared dashboards" folder.



Dashboards that you currently share with other users are indicated by this symbol in the Dashboard Explorer:



In the "Shared dashboards" section of the Dashboards Explorer, you will find all currently shared dashboards. When you point to these entries, the corresponding user names are displayed in a tooltip.

3.3.12 Short portrait templates (Overlay templates)

In addition to the "normal" dashboard templates, you also have the option to create dashboards as so-called "short portrait templates". These short portrait templates then take effect when selected search results are displayed as [Instrument portrait](#). Currently, this function is available for all search results and also in the screener result lists. After selecting a hit, the short portrait template opens "above" the current dashboard as a smaller dashboard ("Short portrait").

By default, the "Overlay default" template opens here. Learn how to create your own short portrait templates in the following sections.

See also:

- [Create new dashboard as short portrait template](#)
- [Example: Create new short portrait template for equities](#)

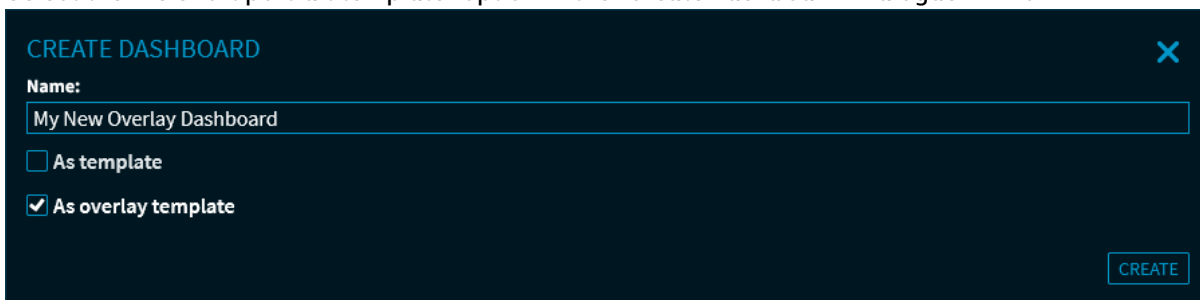
Create new dashboard as short portrait template



As a rule, only technical administrators of Infront Investment Manager can create, edit and delete dashboard templates.


When you [Create dashboards](#), you can specify if the dashboard is to be used as an short portrait dashboard template. To do this, follow these steps:

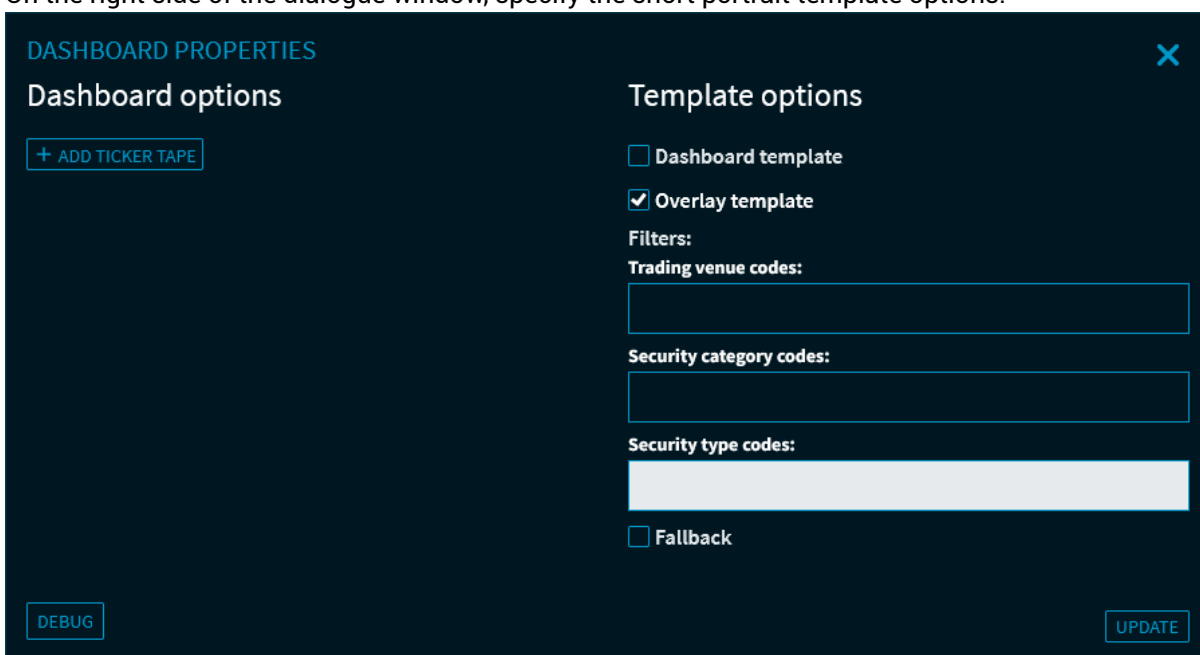
1. Select the "As short portrait template" option in the "Create dashboard" dialogue window.



2. Then click the "Create" button.

This opens the new short portrait template.

3.  Click the "Properties" icon to open the "[Dashboard properties](#)" dialogue window.
4. On the right side of the dialogue window, specify the short portrait template options.



You can specify the following filter settings:

Filters	Description
Dashboard template	Check this setting to (also) use the overlay template as a dashboard template. For more information, see Dashboard templates .
Short template portrait	Enabled for short portrait templates. Here, you can also use this option to change short portrait templates back into "normal" dashboards or dashboard templates and vice versa.
Trading venue codes	Enter the trading venue ID for the short portrait template, for example "ETR" for Xetra or "STX" for "DJ STOXX".

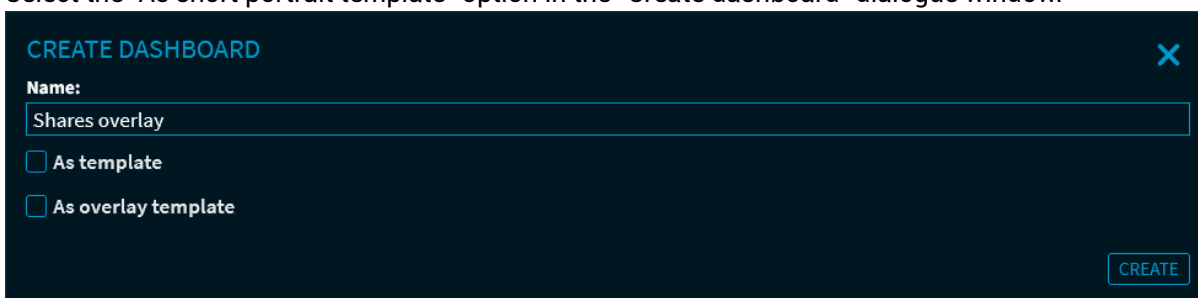
Filters	Description
Security category codes	Enter the security category codes for the short portrait template, for example "Share", "Fund" or "Certificate".
Security type codes	Enter the security type codes to specify the security category for the short portrait template.
Fallback	<p>Select this checkbox to assign the fallback function to this short portrait template.</p> <p>In the delivery state, the "Overlay Default" short portrait template is enabled by default. Thus, it is used as short portrait template for all instruments that are not assigned to any other available template.</p>
Add ticker tape	With this button, you can embed a Ticker tape at the top of the dashboard.


- Click "Update" button to confirm the settings and closes the dialogue window.
- Next, open the Widget Gallery to add the corresponding widgets and arrange them accordingly. For more information, see [Working with widgets](#).
- Combine all widgets on the overlay template into groups. See also [Group widgets](#).
- Adjust the [Dashboard properties](#) to the short portrait template. Based on the settings, the best fitting short portrait template for a security is determined when opening search results (in the screener).

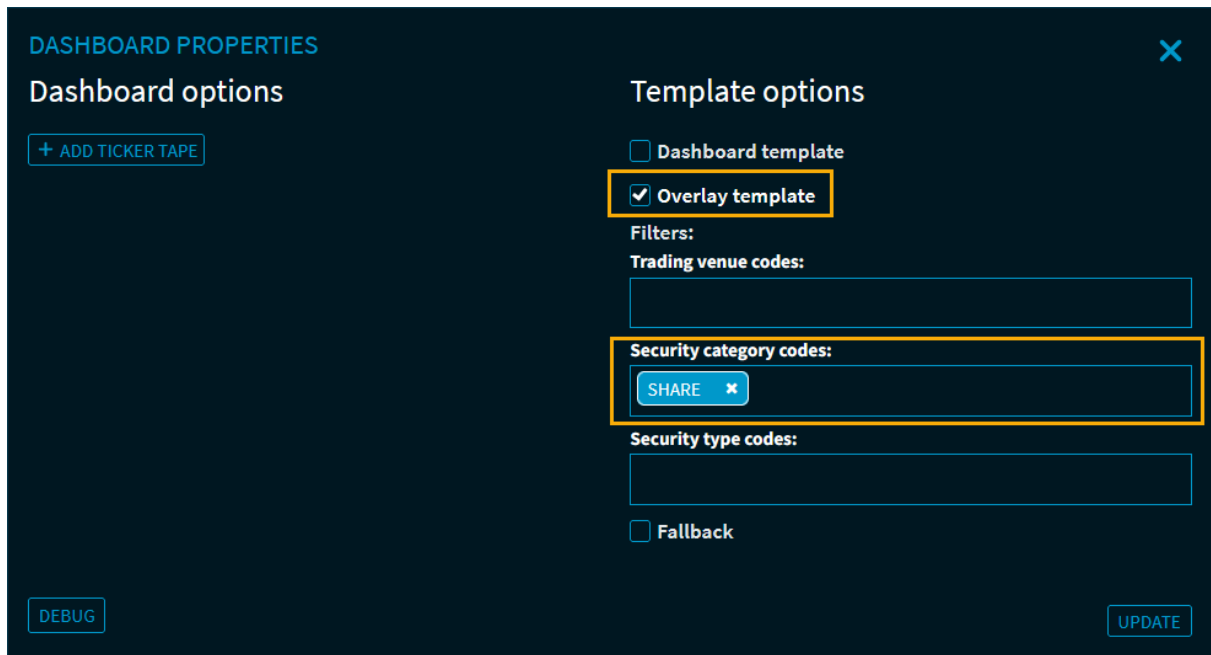
Example: Create new short portrait template for equities

To create a new dashboard template for equities:

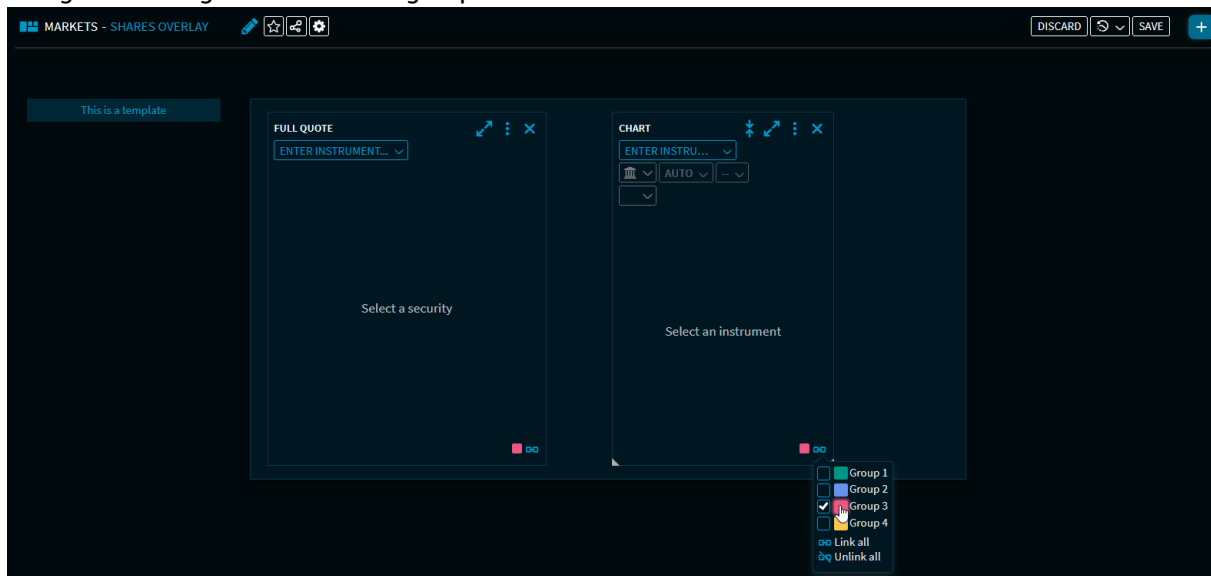
- Open the Dashboard Explorer in the upper left corner of the dashboard bar.
- Select "New dashboard" from the menu.
- In the "Create dashboard" dialogue window that appears, enter a descriptive name in the "Name" input field.
- Select the "As short portrait template" option in the "Create dashboard" dialogue window.



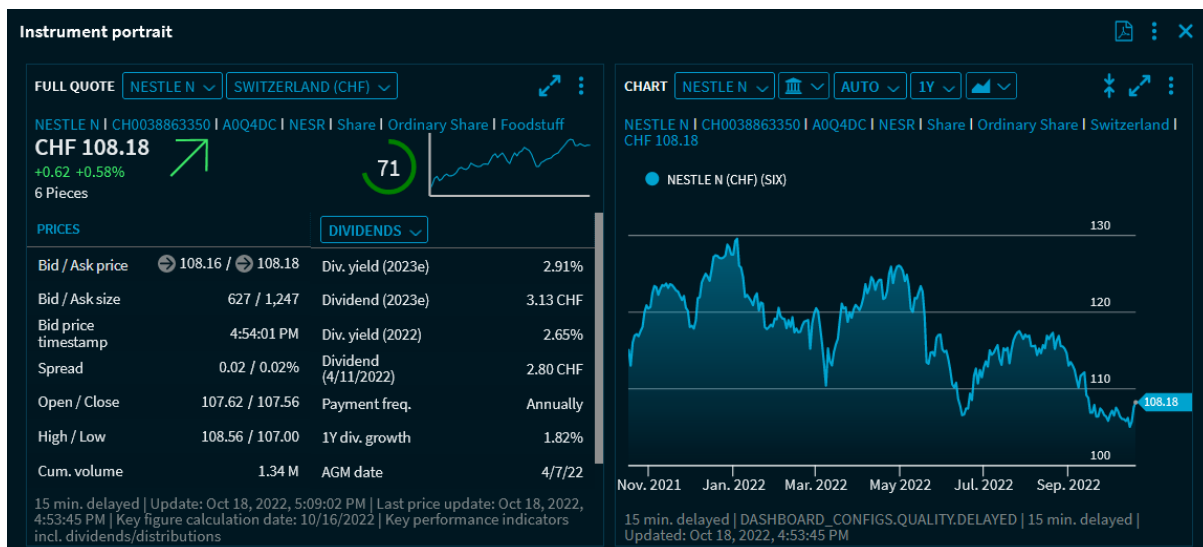
- Then click the "Create" button.
This opens the new overlay template.
-  Click the "Properties" icon to open the "[Dashboard properties](#)" dialogue window.
- Now set the relevant template options for the short portrait template in the "Dashboard properties" dialogue window that appears, for example the "Share" security category code.



8. Then click the "Update" button to confirm your settings.
This opens the new (empty) dashboard.
9. Open the Widget Gallery and place the "Full Quote" and "Chart" widgets on the dashboard.
10. Assign both widgets to the same group.



11. Click the "Save" button to save the dashboard template.
12. Now open the screener and search for shares.
13. Select a hit in the search results.
This opens the selected share as a short [portrait](#) in the previously created short portrait template:

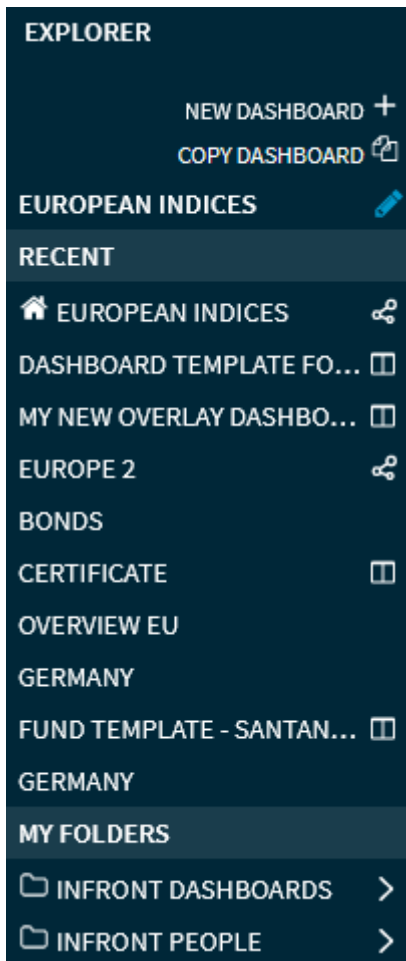


3.3.13 Dashboard Explorer

Use the Dashboard Explorer to manage your dashboards. With the corresponding permission, you can create a folder and menu structure for your dashboards on several levels.



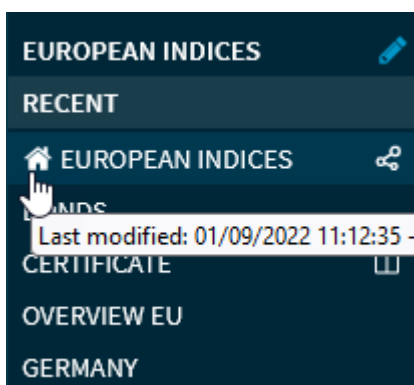
Use the drop-down list at the top left of the dashboard (next to the title "Markets") to open the Dashboard Explorer to select and configure the dashboards.



In the open Dashboard Explorer at the top, you find the commands for creating and copying dashboards.

In the "Recent" area, you find the recently opened dashboards (up to 10) allowing you to quickly select them. The area can be closed, and the status for the condition is saved.

Point to an entry to see the date of the last saved changes of the corresponding dashboard:



Dashboard templates are indicated by an icon on the right side (in the example above, it's the "TEST RK1" dashboard).

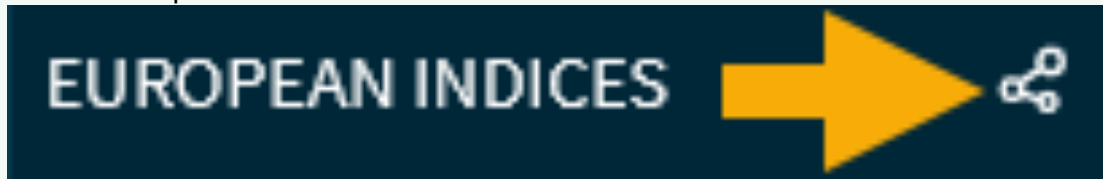
In the "Folder" area, you find all dashboards that you have access to. The top folder area divides the dashboards in the following folders:

- vwd dashboards
 - In this folder, you find the default dashboards created by Infront Financial Technology GmbH.

- Company dashboards
In this folder, you find the dashboards globally defined by the corresponding client.
- Shared dashboards
Here, you find all dashboards that other users have shared with you. When you point to these entries with the mouse, the corresponding user names are displayed in a tooltip. See also [Share dashboards](#).
- Private dashboards
In this folder, you find your private dashboards that only you have access to.



In the Dashboard Explorer, you can create further subfolders (if you have the corresponding permission).
Dashboards that you currently share with other users are indicated by this symbol in the Dashboard Explorer:

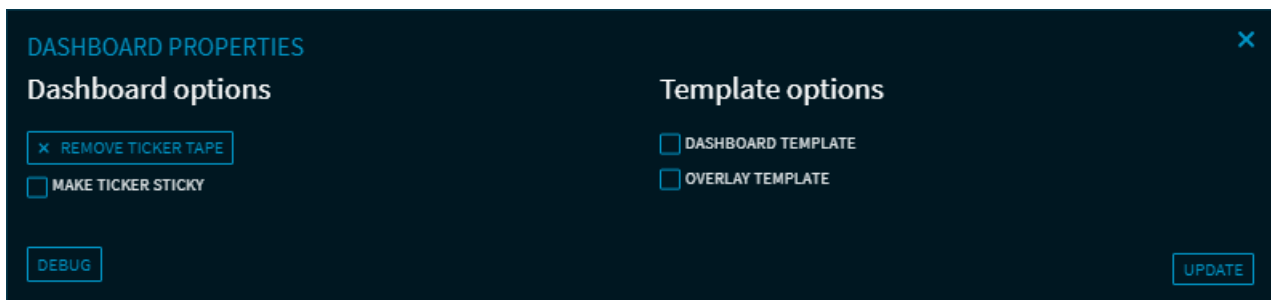


You can drag dashboards directly from Dashboard Explorer and drop them into the favourites bar. This automatically open the editing view for [Favourites](#).

3.3.14 Dashboard properties



Click the "Properties" icon to open the "Dashboard properties" dialogue window.



In the "Dashboard properties" dialogue window, administrators can use the "Debug" button to view the properties of the widget in the dashboard and the translation of the dashboard names or copy them to the Clipboard.

Furthermore, you can use the dashboard properties to add a [Ticker tape](#) tape to the dashboard or remove it. You can use the "Pin ticker" check box to ensure that the ticker is always visible at the top of the screen when scrolling.

If this is a dashboard template (that is, the "Dashboard template" checkbox is enabled), then you also find the "Template options" below.

DASHBOARD PROPERTIES

Dashboard options

+ ADD TICKER TAPE

Template options

☒ Dashboard template

☐ Overlay template

Filters:

Trading venue codes:

Security category codes:

Security type codes:

☐ Fallback

DEBUG

UPDATE

Here, you can make further settings for your dashboard templates. See also the section [Dashboard templates](#).

If it is a short portrait template (checkbox "Short portrait template" enabled), you will also find further "Template options".

Here, a dashboard can also be a dashboard and short portrait template (both settings enabled).

Confirm your changes and close the dialogue window by clicking the "Update" button.

3.3.15 Create dashboards

To create a new dashboard:

1. Open the Dashboard Explorer in the upper left corner of the dashboard bar.
2. Select the "New dashboard" item in the corresponding folder or subfolder of your private dashboards.
3. In the "Create dashboard" dialogue window that appears, enter a descriptive name in the "Name" input field.
4. To use the dashboard as a template, select the "As template" option. For more information, see [Create new dashboard as template](#).
5. If you want to use the new dashboard as a short portrait template for search results, select the "As short portrait template" option. For more information, see [Create new dashboard as short portrait template](#).
6. Then click the "Create" button.
The new (empty) dashboard opens.

For more information about working with dashboards, see [Dashboard Explorer](#).



For more information about how to create a new dashboard based on an existing dashboard, see [Copy dashboards](#).

For more information about editing dashboards, see [Edit dashboards](#). For more information about widgets in dashboards, see [Working with widgets](#) and [Widget overview](#).

3.4 Favourites

In all dashboards, you can select your favourites and store them for quick access in the favourites bar in the title bar at the top of Infront Investment Manager.



Depending on the size of the browser window, some quick access favourites are displayed in the upper dashboard bar.

The sections below explain how to organise your favourites.

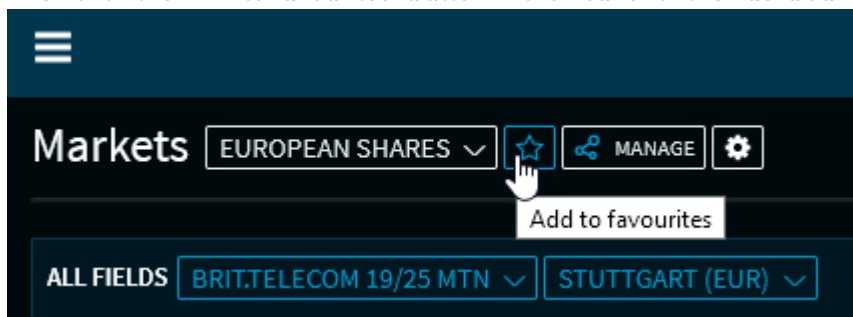
See also:

- [Add dashboards to favourites](#)
- [Open favourites](#)
- [Sort list of favourites](#)
- [Remove dashboards from favourites](#)

3.4.1 Add dashboards to favourites

To save a dashboard as a favourite:

1. First open the relevant dashboard by using the [Dashboard Explorer](#).
2. Then click the "Add to favourites" button in the header of the dashboard.



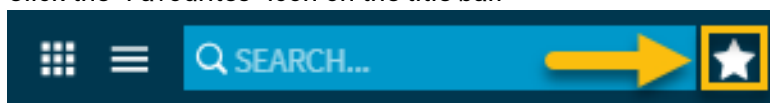
You can then see from the filled star whether a currently open dashboard is marked as a favourite. To remove it from the favourites, click the button again.

3.4.2 Open favourites

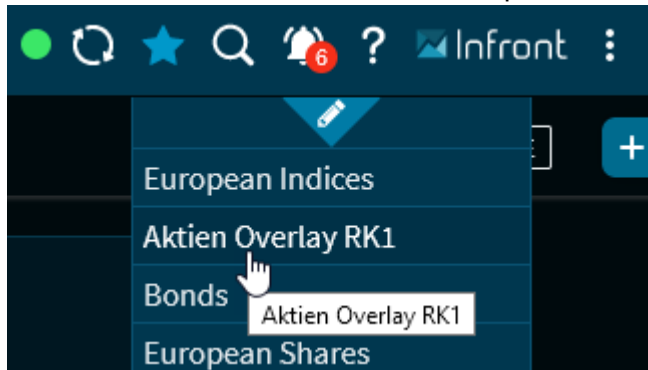
The top dashboard bar [displays some of your favourites](#) when the browser window is large. You can open these quickly with a mouse click.

To open a saved favourite:

1. Click the "Favourites" icon on the title bar.



2. Select the relevant dashboard from the expanded favourites menu.



This opens the dashboard.

✓ For more information on adding favourites, see [Add dashboards to favourites](#).

3.4.3 Sort list of favourites

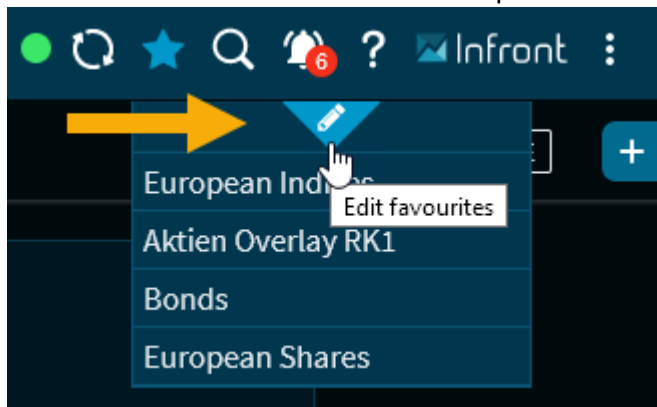
You can set your individual order in the list of favourites by moving entries up or down.

To move an individual entry:

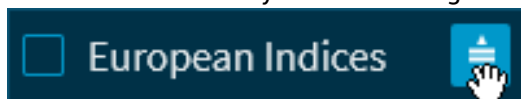
1. Click the "Favourites" icon on the title bar.



2. Select the "Edit favourites" icon on the expanded favourites menu.



3. Select the "Move entry" icon on the right side of the dashboard you want to move.



4. Drag and drop the entry to move dashboard to the relevant position in the list.

This moves the dashboard to the desired position in the list.

To move dashboards to the top or to the bottom, you have another alternative option in the edit mode ("Edit favourites" icon) of the favourites list:

1. In the favourites list, highlight the dashboard you want to move. You can also select several dashboards.

2. Then select the corresponding icon "Up" or "Down".



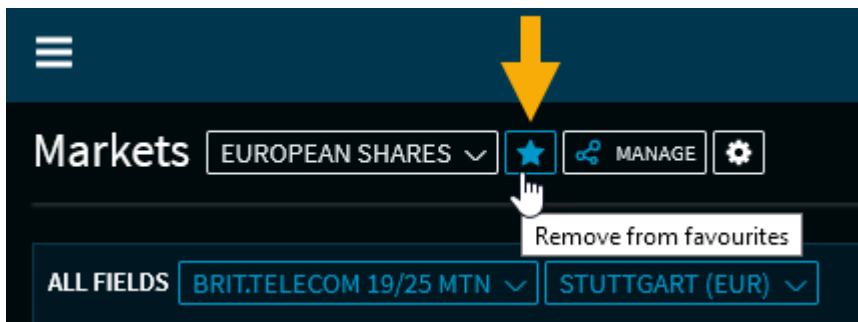
This resorts the dashboards.

3.4.4 Remove dashboards from favourites

Dashboards saved as favourites can be removed from favourites at any time.

Remove currently open dashboards from favourites

If you want to remove the currently opened dashboard from your favourites, select the "Remove from favourites" button at the top left of the dashboard.



This deletes the dashboard from the favourites. You can add it back at any time.

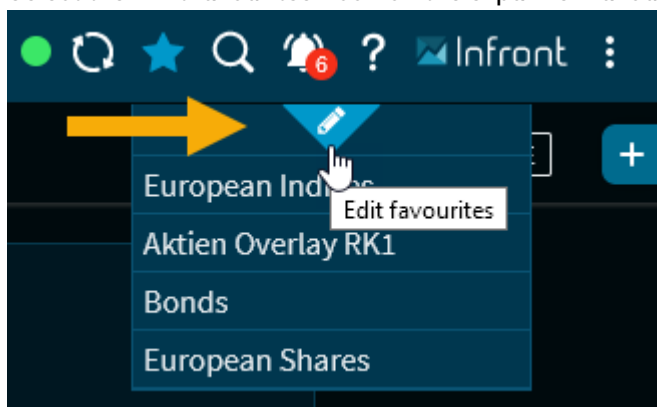
Remove dashboards from favourites from title bar

You can use the favourites feature in the title bar to remove dashboards from favourites - even if they are not currently open. To do this, follow these steps:

1. Click the "Favourites" icon on the title bar.

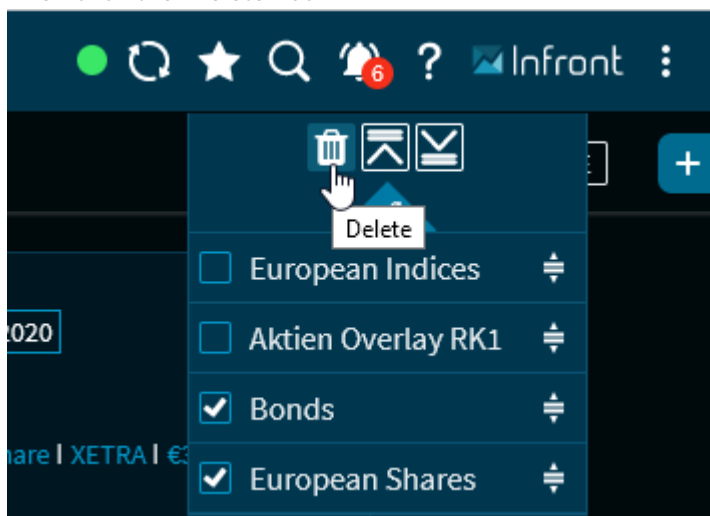


2. Select the "Edit favourites" icon on the expanded favourites menu.



3. In the favourites list, select the dashboard you want to remove. You can also select several dashboards.

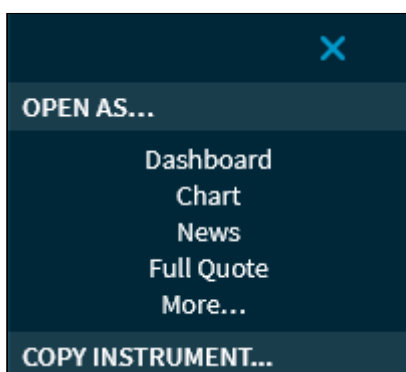
4. Then click the "Delete" icon.



This removes the dashboards from the favourites, but can be added back to the favourites at any time.

3.5 Context menus

A context menu is available in many places in Infront Investment Manager, allowing you to quickly open widgets, search for securities and configure your settings.



3.6 Instrument portraits and PDF instrument profiles

Two types of compact securities profiles are available in your Infront Investment Manager: Instrument portraits and PDF instrument profiles. This chapter tells you where to open which profile.

See also:

- [Instrument portrait](#)
- [Instrument profile](#)

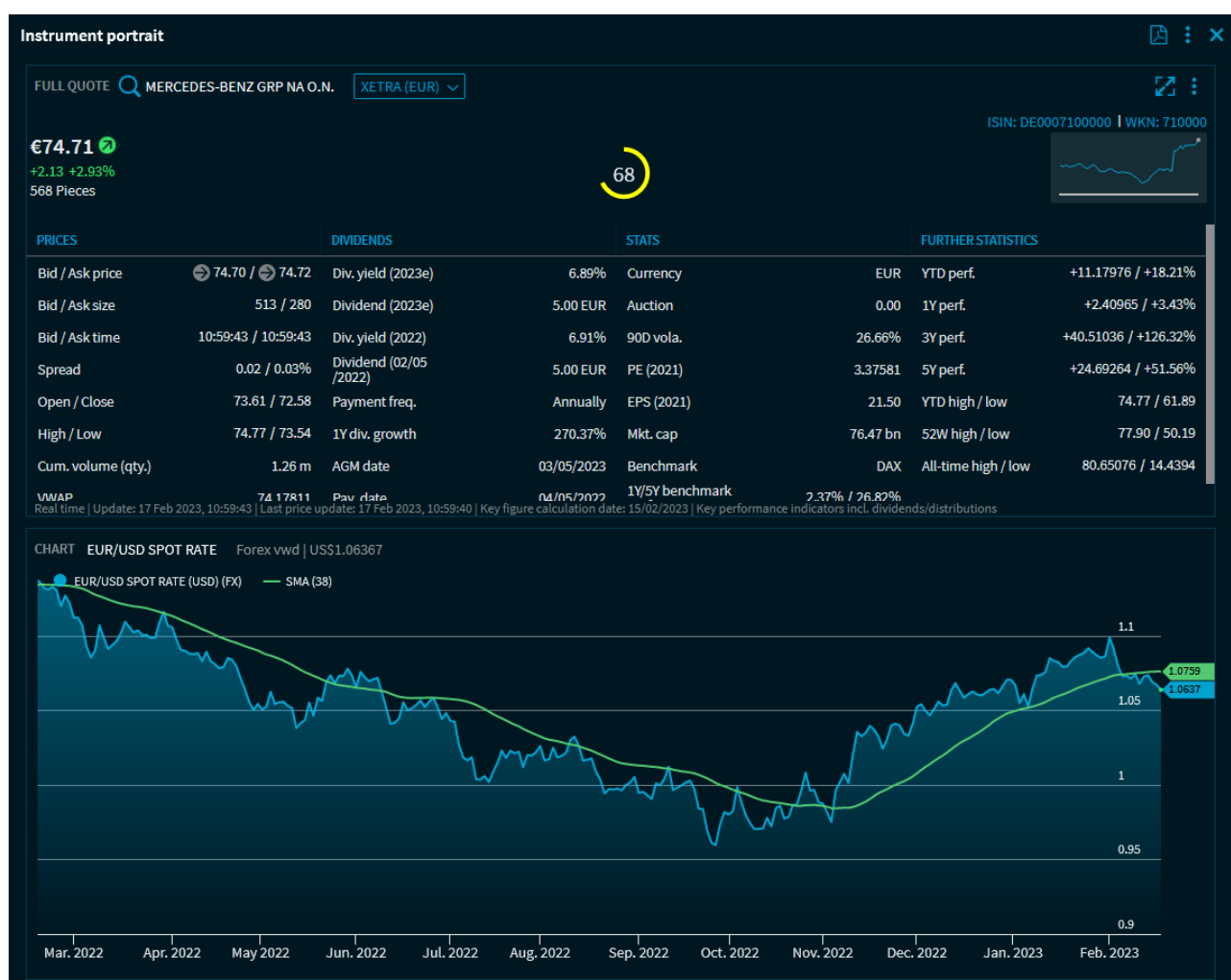
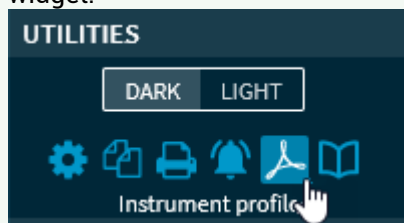
3.6.1 Instrument portrait

If you select a security from the search results of [Quick search](#), [general search](#) or [Screener](#), then a short portrait of this security appears first. This is displayed as a so-called Instrument portrait "above" the

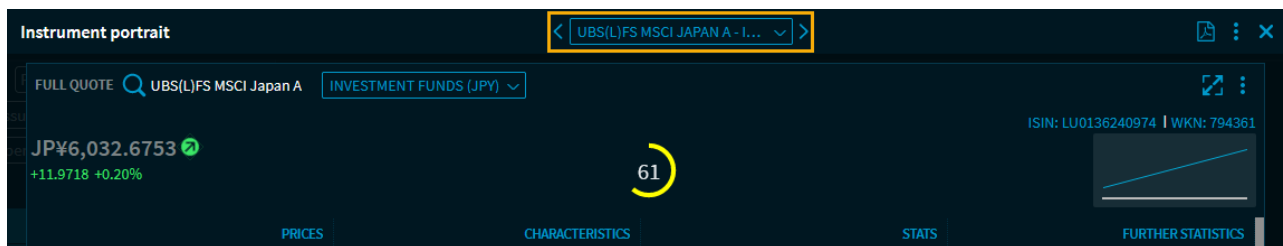
current dashboard. You can configure this special form of dashboard individually for trading venues, security classes and types and store it for the short portraits.



In the "Utilities" section of many widget menus, you will find the "Instrument profile" icon, which allows you to go directly to the short portrait for the security currently displayed in the widget.



If you have selected several securities, for example in a results list in the Screener, then you can replace the currently displayed security with another security from the results list in the short portrait using the drop-down list that is then visible at the top of the short portrait. Use the arrow icons to page through the results list.



Depending on the security type and the configured overlay template, you will then see prices, characteristics and key figures for the security in the widgets of the short portrait. In these widgets, you will find the functions known from the "normal" dashboards.



You find the menu icon in the upper right corner of the short portrait. This function allows you to open the instrument shown in Infront Investment Manager as a dashboard, "Full Quote" or "Chart" widget. In the following subsection, you will find a list of the commands in the menu. You close the short portrait by clicking the "Close" icon to the right of it.

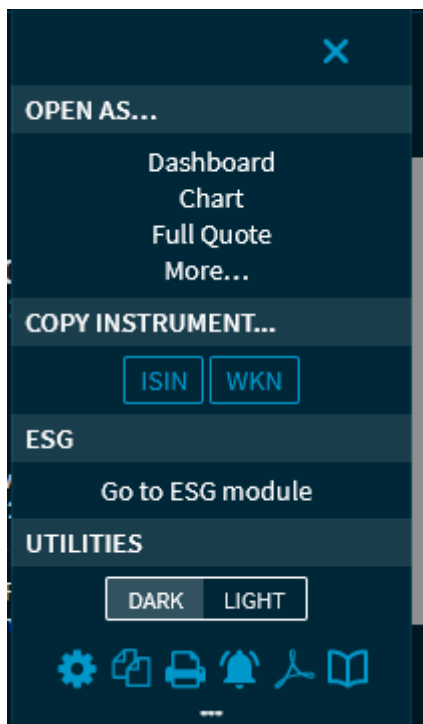
See also:

- [Commands in the instrument profile menu](#)
- [Open instrument profile as PDF instrument profile](#)

Commands in the instrument profile menu



Similar to the widgets, you will also find a menu icon in the top right-hand corner of the short portrait, which you can use to open a menu with many functions.



You can find the following commands:

Command	Description
Open as...	Here, you can open the current security in a widget of your choice. For more information, see Commands in the widget menu .
Copy instrument	Here, you can copy the WKN or ISIN of the current security to the Clipboard.
Change to ESG module	Select this command to switch directly to the ESG module for this security.
Open in Compass	Select this command to open the security in Compass .
New alert	Click this icon in the "Utilities" area to configure an alert for the security. For more information, see Alerts .
Instrument profile	Click this icon in the "Utilities" area to switch to the PDF instrument profile. See also Open instrument profile as PDF instrument profile .

Open instrument profile as PDF instrument profile

Open instrument profiles can also be opened directly as a PDF instrument profiles. To do this, follow these steps:

1. Click the PDF icon in the header of the instrument profile (alternatively, select the "Instrument profile" command from the menu icon of the instrument profile). You will also find a corresponding

command in the widget menus.



2. Then specify the relevant settings for the PDF file in the dialogue window that appears. For more information about the other settings, see [Configure PDF instrument profile](#).

3.6.2 Instrument profile


In addition to the instrument profiles, which are opened, for example, after selecting a search result in the general search, the PDF instrument profiles are available as a further form of presentation in Infront Investment Manager.

PDF OPTIONS

- ☐ Select all
- ☐ Exchange Calendar
- ☐ Key Figures
- ☐ Company Data
- ☐ Balance sheet
- ☐ Corporate Actions
- ☐ The Screener Company Analysis
- ☐ Analyst Recommendations
- ☐ Earnings Estimates

PDF PREVIEW

Infront Financial Technology GmbH



PORTRAIT

Apple NASDAQ
Type: Ordinary Share - Sector: Computer manufacturers/hardware
 ISIN: US0378331005 - WKN: 865985 - Symbol: APC

ESG-Score 67

\$151.60
-1.35 (-0.88 %)

PRICES

Bid / Ask price	153.00 / 153.09
Bid / Ask size	1,200 / 700
Bid / Ask time	11:54:42 AM / 11:55:56 AM
Spread	0.09 / 0.06 %
Open / Close	152.265 / 151.60
High / Low	153.085 / 150.80
Cum. volume	87.13 k.
VWAP / Time	151.66204 / --

DIVIDENDS

Dividend yield (2023e)	0.62 %
Dividend (2023e)	0.963 USD
Dividend yield (2022)	0.58 %
Dividend (06/05/22)	0.23 USD
1Y div. growth	6.25 %
AGM date	23/02/21
Pay. date	12/05/22

STATS

Currency	USD
90D volatility	39.72 %
PE (2021)	26.9566

FURTHER STATISTICS

YTD performance	-25.48212 / -14.39 %
1Y performance	+3.4562 / +2.33 %
3Y performance	+100.91055 / +199.08 %

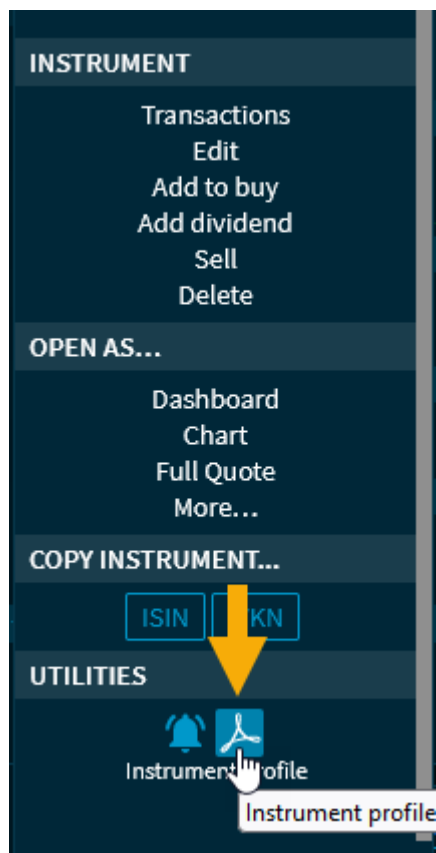
[Download](#)

You will find the command "Instrument profile" profile or the icon of the same name for opening a PDF instrument profile in many prominent places in the program:

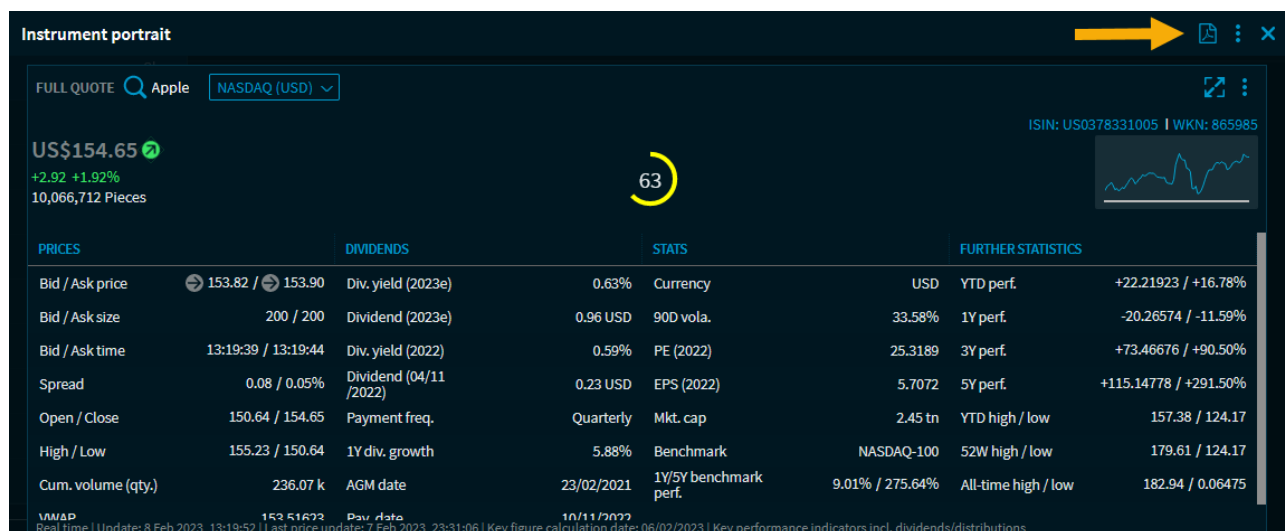
The "Instrument profile" icon in the menu icon of many widgets



"Instrument profile" icon in the menu of the instruments of a watchlist or portfolio



"Instrument profile" icon of an instrument profile



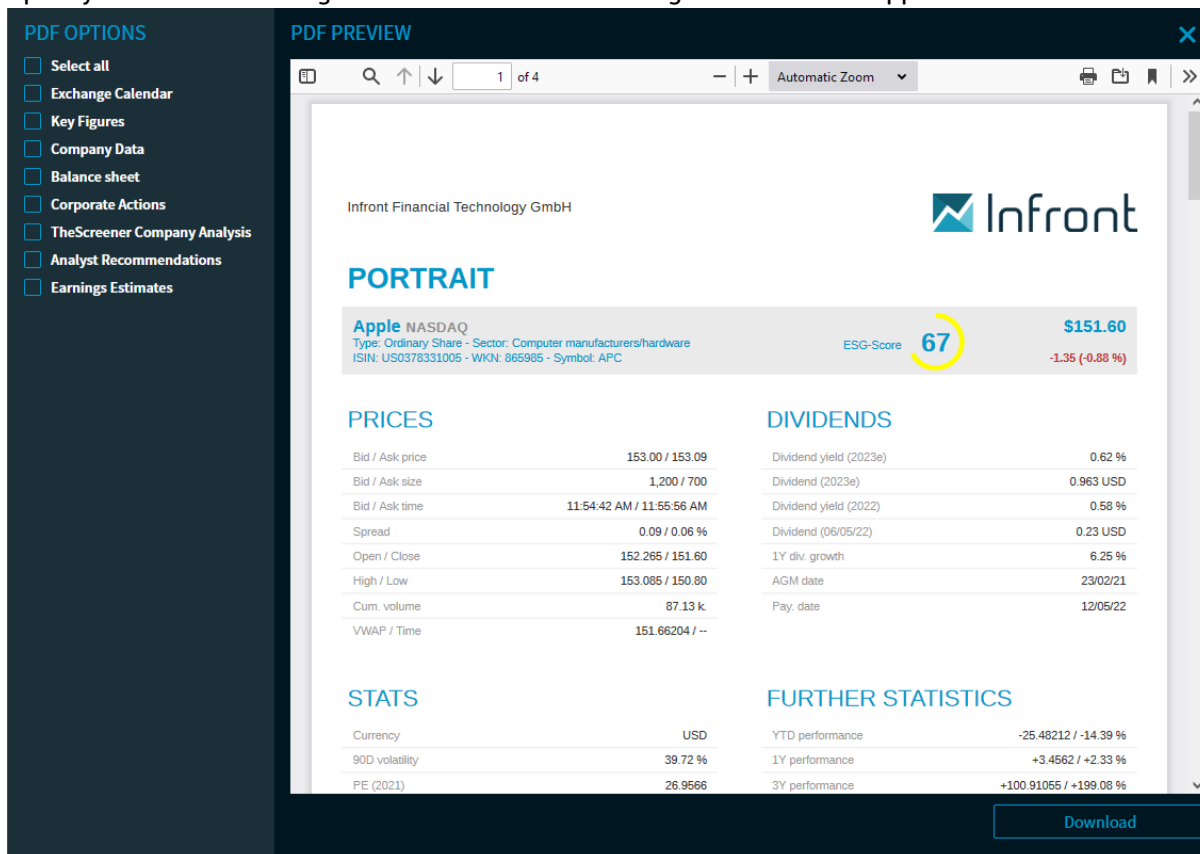
See also:

- [Configure PDF instrument profile](#)

Configure PDF instrument profile

If you opened a PDF instrument profile as described in [Instrument profile](#), you can configure it (partly depending on the underlying widget - before saving or printing. To do this, follow these steps:

1. Specify the relevant settings for the PDF file in the dialogue window that appears.



PDF OPTIONS

- ☐ Select all
- ☐ Exchange Calendar
- ☐ Key Figures
- ☐ Company Data
- ☐ Balance sheet
- ☐ Corporate Actions
- ☐ TheScreener Company Analysis
- ☐ Analyst Recommendations
- ☐ Earnings Estimates

PDF PREVIEW

Infront Financial Technology GmbH

Apple NASDAQ
Type: Ordinary Share - Sector: Computer manufacturers/hardware
ISIN: US0378331005 - WKN: 865985 - Symbol: APC

ESG-Score **67** **\$151.60** **-1.35 (-0.88 %)**

PRICES

Bid / Ask price	153.00 / 153.09
Bid / Ask size	1,200 / 700
Bid / Ask time	11:54:42 AM / 11:55:56 AM
Spread	0.09 / 0.06 %
Open / Close	152.265 / 151.60
High / Low	153.085 / 150.80
Cum. volume	87.13 k
VWAP / Time	151.66204 / --

DIVIDENDS

Dividend yield (2023e)	0.62 %
Dividend (2023e)	0.963 USD
Dividend yield (2022)	0.58 %
Dividend (06/05/22)	0.23 USD
1Y div. growth	6.25 %
AGM date	23/02/21
Pay. date	12/05/22

STATS

Currency	USD
90D volatility	39.72 %
PE (2021)	26.9566

FURTHER STATISTICS

YTD performance	-25.48212 / -14.39 %
1Y performance	+3.4562 / +2.33 %
3Y performance	+100.91055 / +199.08 %

Download

A preview of the PDF file with many other functions is available on the right-hand side.

2. Finally, select the "Download" button.

The PDF file is downloaded.

PDF options

On the left side, you see the PDF options. Here you can add further data to the short portrait. To this end, select the corresponding checkbox. You can find the following functions for shares:

- Exchange Calendar
- Stats
- Company data
- Financials
- Corporate actions
- Companies (theScreener)
- Analyst Recommendations
- Earnings estimates

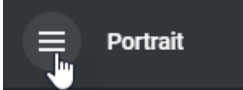

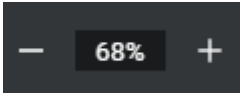





You can enable all available data by selecting the "Select all" checkbox.


PDF preview

On the right side, you see the PDF preview.

You then use the controls in the header to define your PDF settings - details depend on the browser you are using.

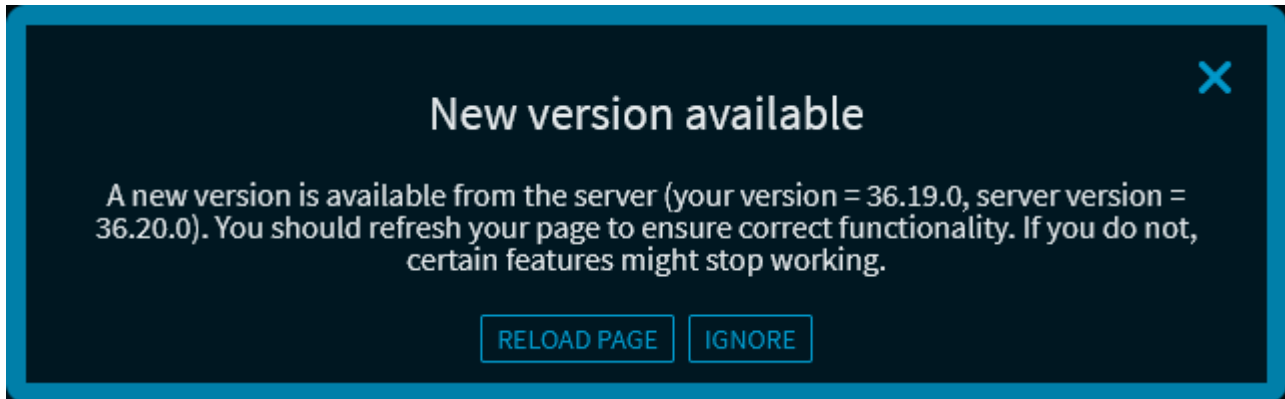
For example, Firefox provides the following functions:

Element	Description
Menu icon 	Use the menu icon to expand or collapsed the left side of the PDF preview with the thumbnail page display.
Number of pages 	Here you can see the current page number and the total number of pages. Enter a page number and confirm with <RETURN> to go directly to that page. Alternatively, you can jump to pages using the thumbnail page display on the left.
Zoom 	Adjust the size of the display here - use the two icons or enter the desired percentage value directly.
Customise on page 	Click this icon to display the entire page.
Rotate display 	Click this icon to rotate the display of the pages counter-clockwise step by step.
Download 	Click this icon to download the short portrait with the current settings.
Print 	Click this icon to print the short portrait with the current settings. A printer settings dialogue window opens first.
More actions 	In the menu on the right you will find further functions for the PDF preview, for example, a two-page view or detailed document information.

 The widget-specific settings are saved for the PDF instrument profile.

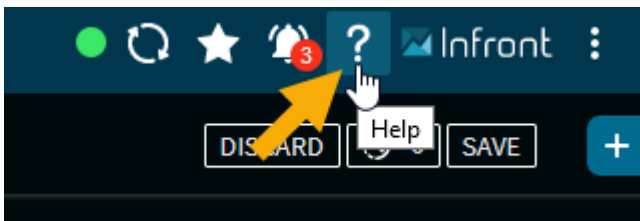
3.7 Note for new versions

As a service, registered users receive a notification immediately after the release of new versions. This allows you to update your Infront Investment Manager directly upon deployment and use the new features.

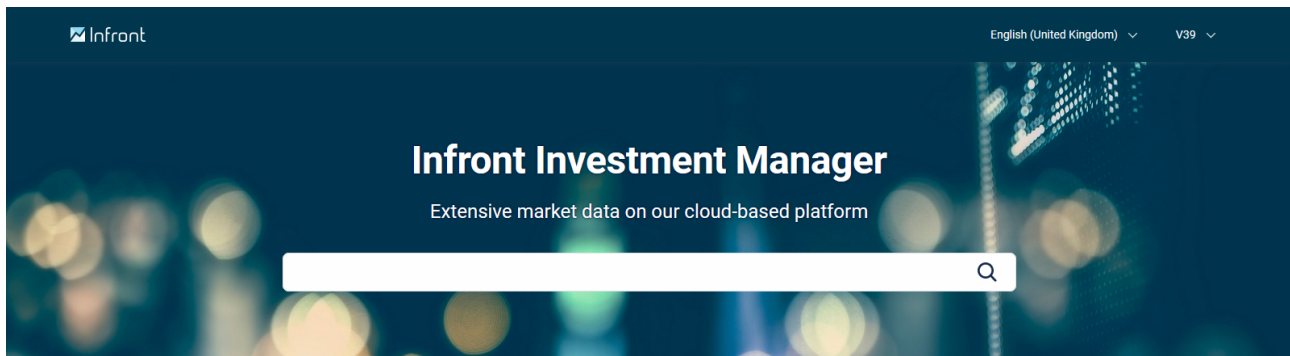


3.8 Help Center and Infront Investment Manager

The Help Center is Infront's central online help platform. In addition to many other products, you will also find help on all topics and functions of Infront Investment Manager.



For example, you can open the Help Center in a new browser window at any time by clicking the help icon in the title bar of Infront Investment Manager. But you will also find a help icon in the widget menus, which you can then use to jump directly to the corresponding help page.



Various functions are available in the Help Center:

- Use the search function to find all the information you need about the operation and functionality of your Infront applications. On the corresponding start page, you also have an overview of all product-specific categories and can go deeper into the respective topics by clicking the tiles.
- The first tile takes you to the list of Release Notes.
- The version selection list at the top right offers you the possibility to take a look at the status of older versions.
- With the language drop-down list on the left, you can switch the language between German and English on each page.
- The PDF button on the help pages allows you to export individual pages for offline use. You can find the complete documentation for download at "(47.91-EN) Downloads". You can always create up-to-date topic-specific documents yourself by selecting the corresponding "Create current PDF file" button.
- For a quick introduction to the product, we recommend the video tutorials.

- ✓ A mouse click on the Infront icon takes you to the global overview of all user documentation in the Help Center.

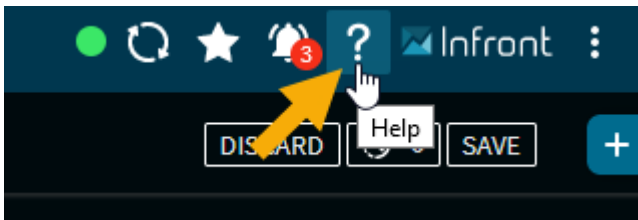
See also:

- [Open Help Center](#)

3.8.1 Open Help Center

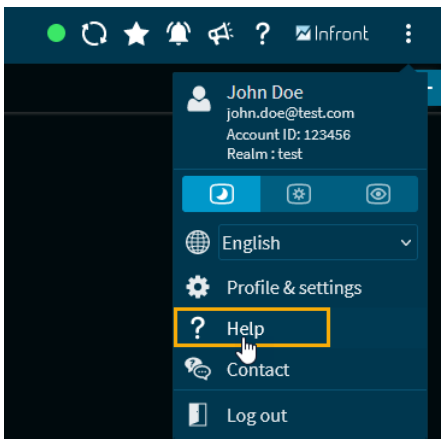
Once you have opened Infront Investment Manager, there are several ways to open the Help Center.

Open Help Center via the icon in the title bar



Click on the "Help" icon in the title bar of Infront Investment Manager to open the help homepage of Infront Investment Manager in a new browser window.

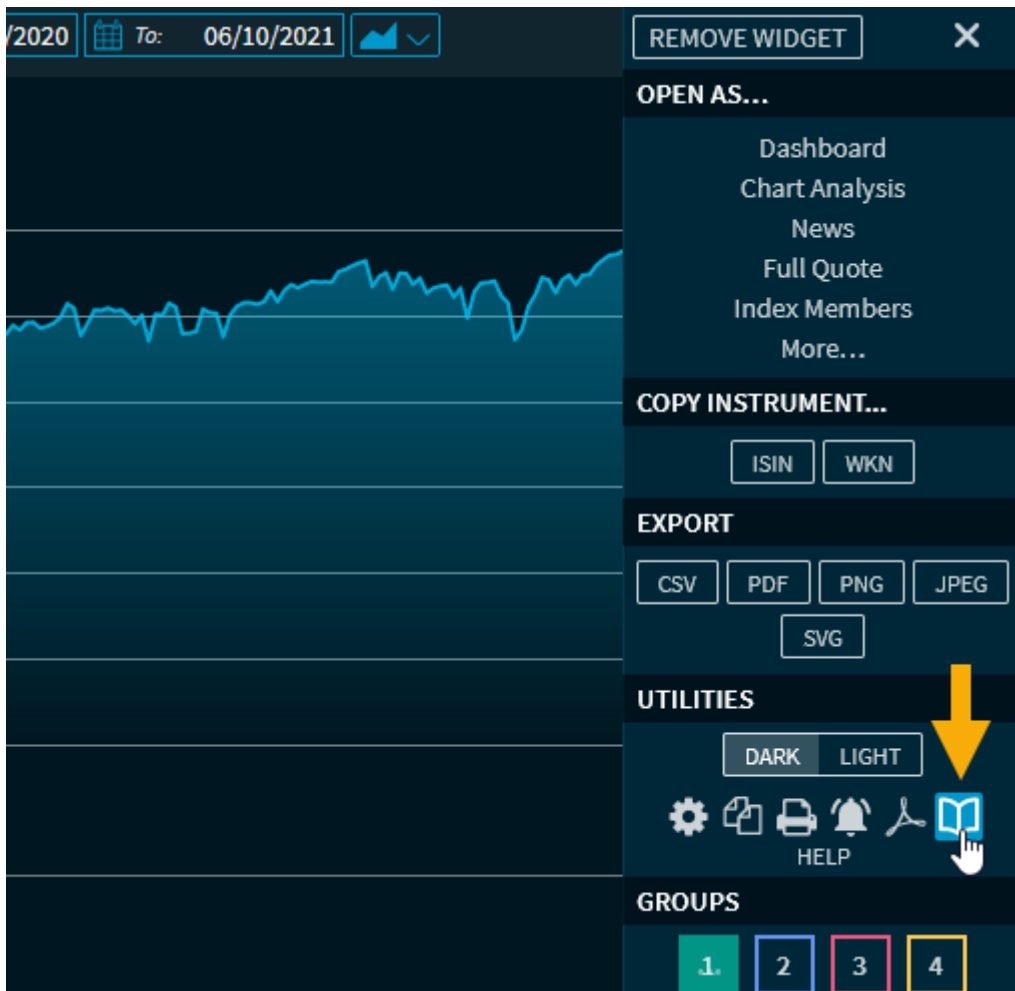
Open the Help Center via the settings menu



The HELP command in the settings menu of Infront Investment Manager also opens the help home page of Infront Investment Manager in a new browser window.


Open Help Center by using the widget menu icon

Open Help Center by using the widget menu icon



In the menus of the widgets you will find a help icon that you can use to go directly to the corresponding help page in the Help Center.

Example: Help for the "Chart" widget


CONTACT CUSTOMER SUPPORT
English (United Kingdom)
V27

Chart

Chart types

Drag security to chart

Export charts

Settings in the "Chart" widget

Chart analysis

Derivative Matrix

Pages (DZ)

Full Quote

Trading Quote

ESG Company Outlook

ESG Risk

Fund structure

Fund Comparison

Free Text

Earnings Estimates

Historical Prices

Global Indices

Index Membership

Index composition

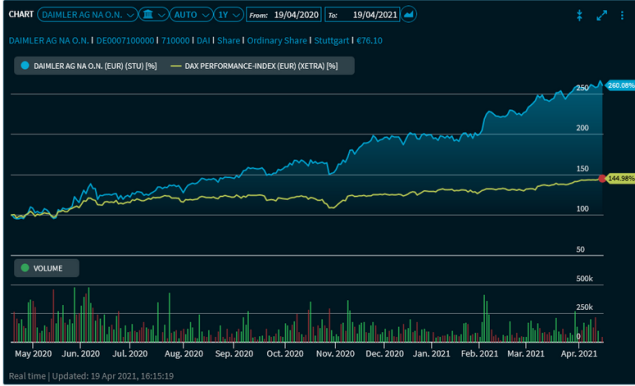
Corporate actions

Infront Investment Manager / Widget overview / Chart

PDF

Chart

The "Chart" widget is a modern chart analysis tool allowing you to intuitively provide the most important functions and views. The charts automatically adjust to the individual security types.



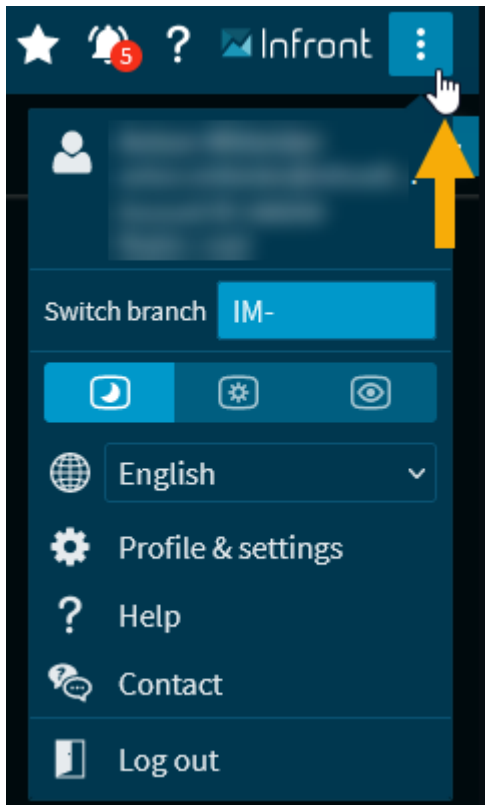
Use the following chart types for your analysis:

- Line chart



Furthermore, you will already find a "Help Center" tile on the product selection page ("Landing Page"), which you can use to open the Help Center at any time without starting a product.


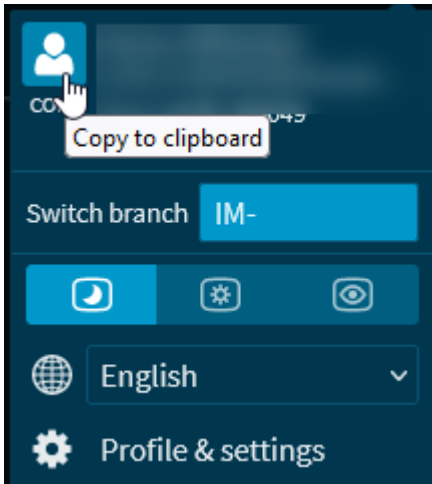
3.9 Settings menu



Use the settings menu icon on the far right of the title bar of the Infront Investment Manager to open a menu with standard commands for settings, help and contact.

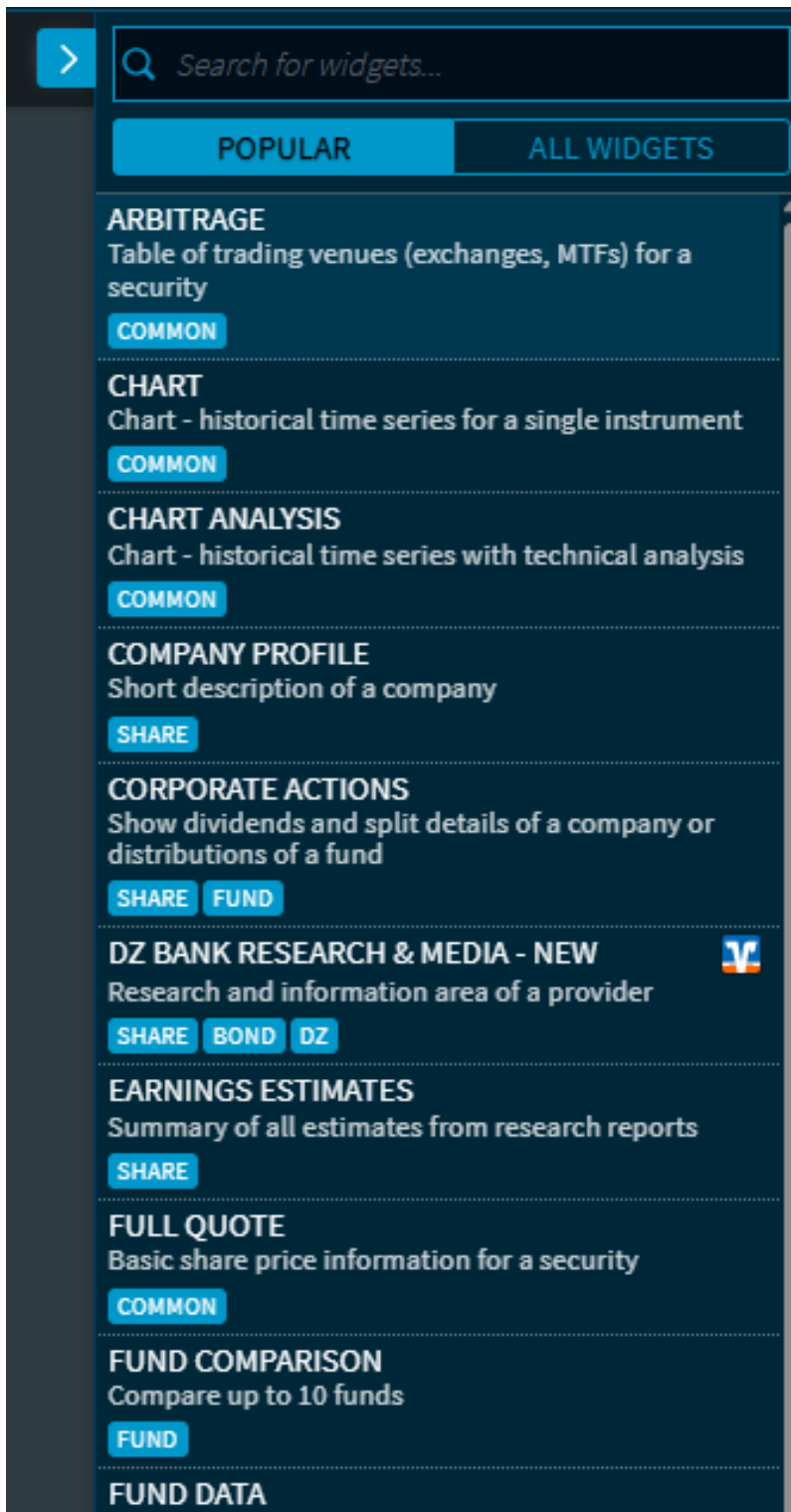
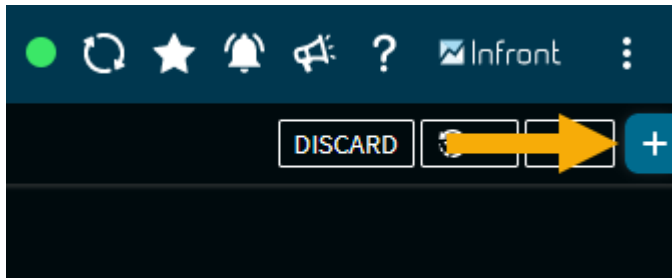
You can find the following functions in the settings menu:

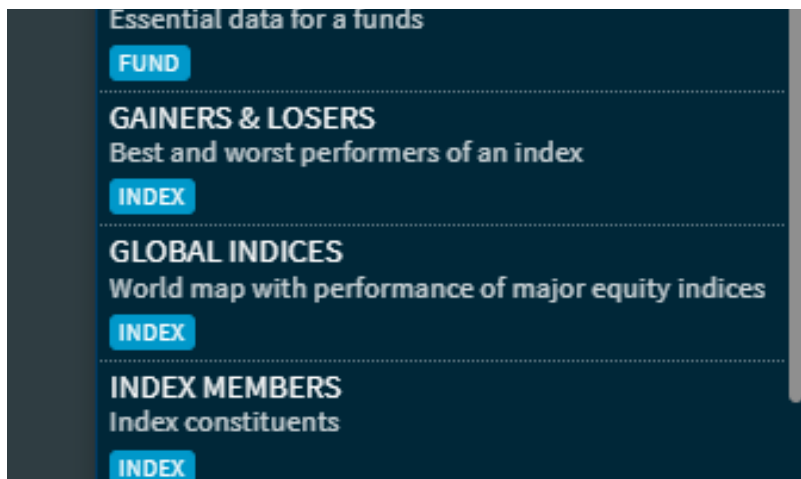
Command	Description
Contact	Opens the contact form.
Generate support log	If necessary, you can use this command to quickly copy all relevant data (e.g. user, dashboard, screener, etc.) to the clipboard as a log and make it available to support.
Help	This command takes you directly to the Help Center, which opens in a new browser tab. Here you can find the extensive online user documentation for Infront Investment Manager including release notes and various downloads.
Language selection	Select the relevant language type from the drop-down list. For more information, see Language selection .
Log out	Logs out from Infront Investment Manager and closes the work session. For more information, see Log out .

Command	Description
Send feedback	<p>Send us your wishes, ideas and suggestions about Infront Investment Manager. This menu item may be hidden.</p> <p>See also Send feedback.</p>
Settings & profile	<p>Opens the global settings. For example, you can see your profile settings or change the theme of Infront Investment Manager.</p> <p>For more information about the settings, see Settings and profile.</p>
Theme	<p>Use the icons "Dark", "Light" and "Colour Assist" to change the theme of Infront Investment Manager.</p>  <p>For more information, see Select theme and Enable Colour Assist.</p>
User information	<p>At the top of the menu you will find the most important information about the user currently logged in: Name, e-mail address, account ID and realm.</p> <p>You can copy this user information to the clipboard for support purposes, for example. Information on the system environment is also copied, for example to make it easier to analyse display errors.</p> <p>Simply click the user icon:</p> 

3.10 Widget Gallery

In the Widget Gallery, you select the Widgets that you want to add to your **private dashboards**. The widgets available depend on your licence. You can find the Widget Gallery on the right side of Infront Investment Manager.





If you have opened the Widget Gallery by clicking the "Add widget" icon, you can search for widgets by using the upper search field or directly open widgets.

By default, the most frequently used widgets are displayed in the "Popular" section. You can switch to the complete list of widgets by clicking on the "All Widgets" button. The search function, which is still located at the top of the widget gallery, searches all widgets. It is also possible to filter by assigned categories. To do this, simply click on the respective category (e.g. "Share", "Common", "Bond", "Portfolio", etc.).

In the sections, the widgets are sorted alphabetically.

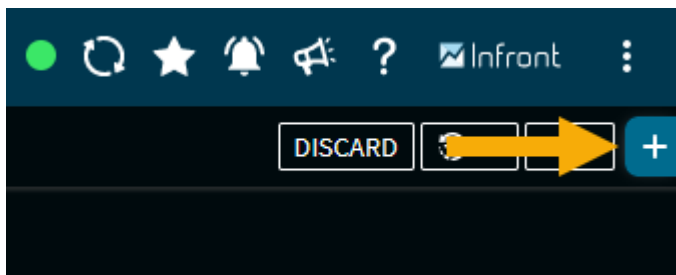
To open a widget in the dashboard, just click the widget in the Widget Gallery. The widget appears at the bottom of the dashboard.

See also:

- [Open Widget Gallery](#)
- [Search widgets in the Widget Gallery](#)
- [Keyboard shortcuts in the Widget Gallery](#)
- [Close Widget Gallery](#)

3.10.1 Open Widget Gallery

To open the Widget Gallery in **private dashboards**, click the "Add widget" icon on the right side of Infront Investment Manager.



The Widget Gallery opens on the right side of the browser window.

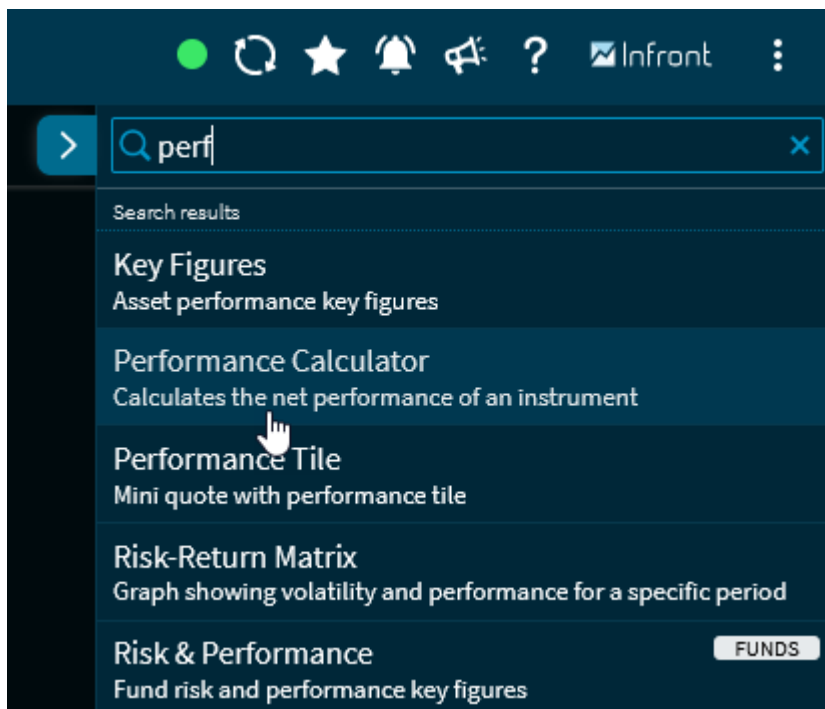
3.10.2 Keyboard shortcuts in the Widget Gallery

In the open Widget Gallery, you can use your keyboard to select and open widgets. Press the "↓" or "↑" arrow keys to move from widget to widget, press the "←" or "→" arrow keys to change the widget category.

With the <RETURN> key, you add the selected widget to the dashboard. To close the Widget Gallery, press <ESC>.

3.10.3 Search widgets in the Widget Gallery

Use the search field in the upper part of the widget gallery to search for a particular widget.



Click a search result to open the widget in the dashboard.

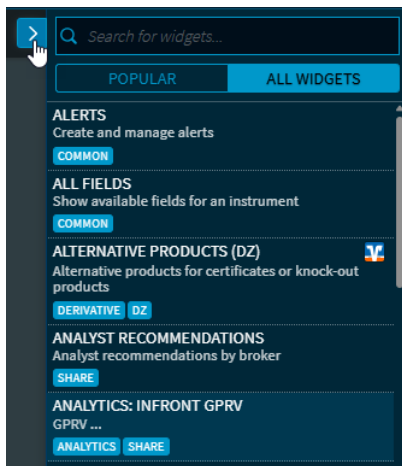
Click the "(x)" icon to clear the search field and enter a new search term.



Various widgets can also be found using related keywords. For example, you can enter the term "PDF" for the "Related Documents" widget.

3.10.4 Close Widget Gallery

To hide the Widget Gallery, click the "Hide Widget Gallery" icon or press <ESC>.



4 Working with widgets

Learn how to work effectively with widgets.

See also:

- [Open widgets](#)
- [Arrange widgets on the dashboard](#)
- [Drag securities to widget](#)
- [Group widgets](#)
- [Export widget data to CSV file](#)
- [Print widgets](#)
- [Export widget data as "INFRONTXL" file](#)
- [Widget collections](#)
- [Export data of the widgets to Excel Add-In](#)
- [Remove widgets from dashboard](#)
- [Copy widgets](#)
- [Widget structure](#)

4.1 Open widgets

In Infront Investment Manager, you have various ways to create or open widgets in a (private) dashboard:

- Open widget from [Widget Gallery](#)
- Open new widget using the menu icon in a widget for individual securities
- Open single widget in a list using the menu icon in the row of the security (for example, in watchlists, index lists or portfolios)
- Place widgets directly from hits in search result
- [Duplicate open widgets](#)

4.2 Arrange widgets on the dashboard

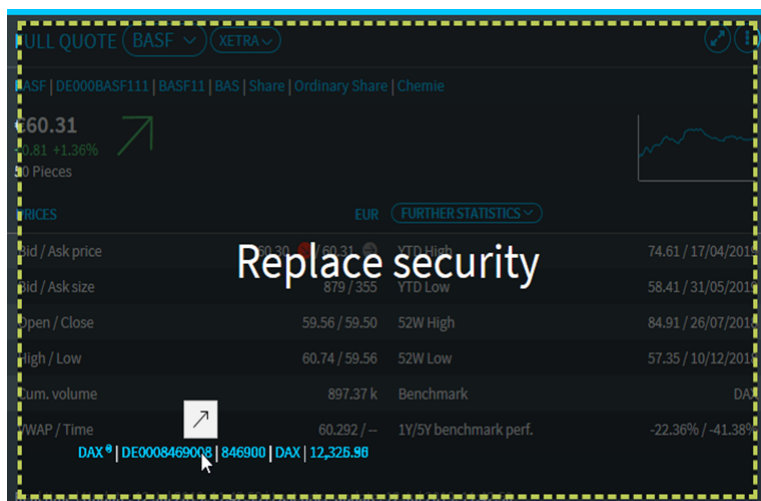
If you add a widget, it always opens at the bottom of the dashboard. To change the place of the widget, point to the upper part of the widget (the mouse pointer becomes a cross) and drag the widget to a different location.

To change the size of the widget, use the border of the widget. To keep the ratio of the widget, use one of the corners of the widget.


This allows you to resize your dashboard to fit your needs.

4.3 Drag securities to widget

In Infront Investment Manager, you can drag securities (for example, from [Watchlists](#) or other widgets) to other appropriate widgets. To do this, hold down the left mouse button and drag the security name into the desired widget:

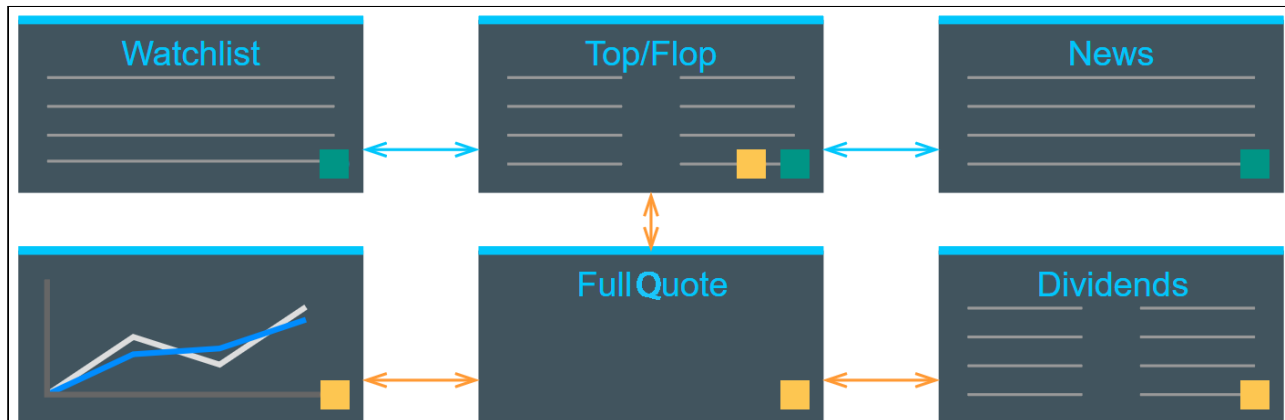


As a rule, these securities replace the previously displayed ones. In a chart, for example, you can also include the securities as a comparison value. In other widgets, too, the incoming securities are always used as sensibly as possible, for example, as an underlying in the [Option Matrix](#).

 Widgets that are not suitable for the security (or type of security) will display corresponding note.

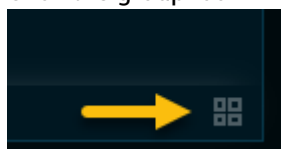
4.4 Group widgets

You can configure up to 4 different widget groups for each dashboard. Use this functionality to exchange securities quickly across several widgets.

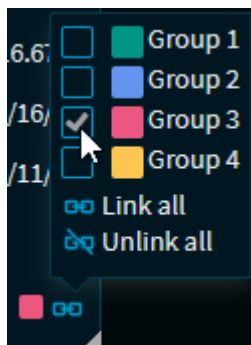


To add widgets to groups:

1. Click the group icon in the lower right corner of the widget.



2. In the dialogue window that appears, select the relevant group(s) by selecting the corresponding checkboxes. This displays the coloured group symbols:



3. Proceed in the same way for other widgets you want to link.

In all selected widgets, the icons of the groups appear in the lower right corner. The colour of the symbols indicates the widget group.

If you now select a new security as an input object in one of the widgets, it is automatically exchanged in all grouped widgets of this group.

Use the command "Link all" to select all groups for this widget, use "Remove all" to clear all checkboxes.

- ✓ You can also assign a widget to multiple groups. Thus, if you change the security in one widget assigned to three groups, then the security is used in all three groups. Grouped widgets with incompatible instruments show corresponding hints.

Example: Dashboard with grouped widgets



Both widgets are in group 1 (green) and group 3 (red).

- [Multi-instrument linking](#)

4.4.1 Multi-instrument linking

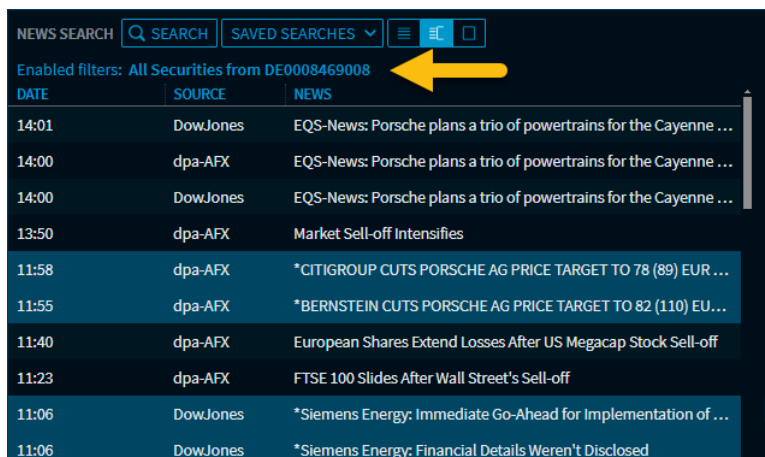
With this functionality, you can, for example, track news of all values in a Watchlist in the "News Search" widget - if the two widgets are in a group.

Potential source widgets:

- Watchlist
- Portfolio
- Index Members (including index)
- Wealth Portal

One possible target widget is the “News Search” widget.

Example: News Search grouped with Index Members (DAX)




DATE	SOURCE	NEWS
14:01	DowJones	EQS-News: Porsche plans a trio of powertrains for the Cayenne ...
14:00	dpa-AFX	EQS-News: Porsche plans a trio of powertrains for the Cayenne ...
14:00	DowJones	EQS-News: Porsche plans a trio of powertrains for the Cayenne ...
13:50	dpa-AFX	Market Sell-off Intensifies
11:58	dpa-AFX	*CITIGROUP CUTS PORSCHE AG PRICE TARGET TO 78 (89) EUR ...
11:55	dpa-AFX	*BERNSTEIN CUTS PORSCHE AG PRICE TARGET TO 82 (110) EU...
11:40	dpa-AFX	European Shares Extend Losses After US Megacap Stock Sell-off
11:23	dpa-AFX	FTSE 100 Slides After Wall Street's Sell-off
11:06	DowJones	*Siemens Energy: Immediate Go-Ahead for Implementation of ...
11:06	DowJones	*Siemens Energy: Financial Details Weren't Disclosed

4.5 Export widget data to CSV file

You can export many widgets in Infront Investment Manager to CSV files.

To export the content of a widget to a CSV file:

1. Open the corresponding private dashboard or open a widget from the </wiki/spaces/imc/pages/90210589>.
2.  Select the command EXPORT, CSV in the widget menu.

You can then save the created CSV file directly or open it in Microsoft Excel.

Further image file formats are available for charts.

The CSV export is available for the following widgets:

Widget	Description
/wiki/spaces/imc/pages/89280091	Exports all columns displayed in the current portfolio view. In addition, the following data or columns are always provided - regardless of whether they are currently displayed: <ul style="list-style-type: none"> • Instrument ID • Quantity • Buy date • Buy price (buy currency) • Buy currency • Buy exchange rate
/wiki/spaces/imc/pages/89280023	Exports all columns displayed in the watchlist view. The "Instrument ID" column is always exported - regardless of whether it is currently shown.


Widget	Description
/wiki/spaces/imc/pages/89214304	<p>In addition to the time series, you also export the set time periods, any existing indicators and benchmarks, selected aggregation, volume and OHLC (Open, High, Low, Close), if these are set in the chart.</p> <p>For all time series, the corresponding percentage values are also exported in the case of relative representation.</p>
/wiki/spaces/imc/pages/89411515	<p>The header shows the following information for each security:</p> <ul style="list-style-type: none"> • Security • ISIN • Trading venue • Currency <p>The following data is output for the time series of the main instrument:</p> <ul style="list-style-type: none"> • Date • OHLC (Open, High, Low, Close) • Volume <p>The closing price is shown for all other instruments.</p> <p>For all time series, the corresponding percentage values are also exported in the case of relative representation.</p> <p>For each indicator, one column per parameter is displayed with the main instrument (except "colour").</p>
/wiki/spaces/imc/pages/90244715	Exports the complete fields list.
/wiki/spaces/imc/pages/90277846	Exports the complete list of analyses displayed in the lower part of the widgets with the filters specified, but not the chart data.
/wiki/spaces/imc/pages/90279326	Exports all columns displayed in the arbitrage list.
/wiki/spaces/imc/pages/89412392	Exports a list with two columns and all rows for the security selected.
/wiki/spaces/imc/pages/89280644	Exports the data of the current view.
/wiki/spaces/imc/pages/89214496	Exports all three blocks in a table with two columns, not the chart data.
/wiki/spaces/imc/pages/89442088	Exports the table with all pages, not the data in the upper area of the widget.

Widget	Description
/wiki/spaces/imc/pages/89279598	Exports the table data for the table and tile view, and the matrix data for the "Correlation Matrix" view.
/wiki/spaces/imc/pages/90278902	Exports the data of the current view.
/wiki/spaces/imc/pages/90310176	Exports all data of the displayed tables. The start and end date are exported to the first row.
/wiki/spaces/imc/pages/90310574	Exports the data of the current view.
/wiki/spaces/imc/pages/90243782	Exports the table from the "Top Holders" widget
/wiki/spaces/imc/pages/89411416	Exports all data of the displayed view. The chart data can also be exported. In the chart, the corresponding percentage values are also exported for all time series with relative display.
/wiki/spaces/imc/pages/90276029	Exports all data of the displayed view. The chart data can also be exported. In the chart, the corresponding percentage values are also exported for all time series with relative display.
/wiki/spaces/imc/pages/90308877	Exports all data displayed in the current matrix.
/wiki/spaces/imc/pages/90211315	Exports all data displayed in the current matrix.
/wiki/spaces/imc/pages/89442119	Exports all data displayed in the current table. In the tiles view, the complete table data is also exported.
/wiki/spaces/imc/pages/90310507	Exports all data displayed in the current table.
/wiki/spaces/imc/pages/90244021	Exports all matrix data with applied filters.
/wiki/spaces/imc/pages/90213655	Exports all currently displayed results of the Exchange Calendar.
/wiki/spaces/imc/pages/90212569	Exports the table with the settings.

Widget	Description
/wiki/spaces/imc/pages/90310779	Exports all time series including the indicators or OHLC data displayed in the chart.
/wiki/spaces/imc/pages/90309935	Exports the table located in the lower part of the widget.
/wiki/spaces/imc/pages/89279885	Exports the list of displayed news headlines, not the entire news text.
/wiki/spaces/imc/pages/90245290	Exports the data of the current view.
/wiki/spaces/imc/pages/89280477	The price alerts data displayed in the table of the respective current view ("Prices" or "Log") is exported.

4.6 Print widgets

To print the widget content:

1. Open the corresponding private dashboard or open a widget from the [Widget Gallery](#).
2. 

Open the context menu via the menu icon.
3. Select the command UTILITIES, PRINT the menu.

This opens the widget in the print preview. On the left-hand side, various print settings are available.

PRINT OPTIONS

Print frame configuration
INFRONT

Orientation
☒ Portrait ☐ Landscape

Colour mode
☒ Colour ☐ Grayscale

FULL QUOTE

1 of 1

Automatic Zoom

FULL QUOTE ESTX 50 PR.EUR STOXX LTD. (PKT.)

ESTX 50 PR.EUR EU0000000000 000014 000014 000014

Pkt.3,898.64

-3.80 -0.10%

PRICES		CHARACTERISTICS		STATS		FURTHER STATISTICS	
Open / Close	3,900.84 / 3,902.44	Country	Schweiz	Currency	Pkt.	YTD perf.	-395.96948 / -9.21%
High / Low	3,914.08 / 3,877.59	Index type	Quote	90D vola.	30.27%	1Y perf.	+34.88534 / +0.90%
		No. members	0	1Y vola.	19.88%	3Y perf.	+514.49354 / +15.19%
		Up / Down / Equal	0 / 0 / 0	3Y vola.	23.00%	5Y perf.	+454.01909 / +13.17%
		Home exchange	Yes	5Y vola.	19.42%	YTD high / low	4,395.78 / 3,387.00
				SM Sharpe	-0.76459	52W high / low	4,415.23 / 3,387.00
				Div. yld.	2.87%	All-time high / low	5,484.43 / 815.90

Real time | Update: 21 Mar 2022, 16:02:15 | Last price update: 21 Mar 2022, 16:02:15 | Key figure calculation date: 20/03/2022

Infront Financial Technology - www.infrontfinance.com Generated on: 21/03/2022 16:02:22 [+0100]

DOWNLOAD
PRINT

4. Make your print settings and start printing or downloading as a PDF file.

The default print settings in detail:

Area	Description
Print frame configuration	If necessary, select a different print frame configuration here that you have stored in the global settings.
Orientation	Select the orientation - portrait or landscape - for the printout here.
Colour scheme	Colour printing is set by default. To print the widget in black and white, select the "Grayscale" option here.
Full notes	If the widget contains note fields or columns with long texts, these are displayed in full at the end of the printout using the "Show" option. Using the "Hide" option, these are not displayed or printed.

Depending on the widget, you will find further setting options here, for example for charts.

For some widgets such as the "Watchlist" or the "Fund Comparison" widget, you can select the different views for the printout here.



Widgets are printed using the "Light" theme independent of the theme currently selected. You can check the result in the print preview.

See also:

- [Print chart widgets](#)

4.6.1 Print chart widgets

When printing charts, you will find many other options in addition to the setting options described in [Print widgets](#).

PRINT OPTIONS

WIDGET VIEWS

☐ Select all
☐ Master data
☐ Fund company
☐ Investment focus
☒ Chart
☐ Risk & Performance

GENERAL CONFIGURATION

Print frame configuration

INFRONT ▼

Orientation

☒ Portrait ☐ Landscape

Colour mode

☒ Colour ☐ Grayscale

CHART CONFIGURATION

Legend

☒ Show ☐ Hide

Chart size [?]


☐ As is
☐ Stretched
☒ Maximised

Info on displayed time series

☐ Hide
☒ On same page
☐ On new page

FUND COMPARISON

1 of 1
Automatic Zoom



FUND COMPARISON CHART Period: 1 YEAR From: 7/27/21 To: 7/27/22

DWS Inv Chinese Eq \$LC (EUR) (INVF) [%]
 UniRak (EUR) (INVF) [%]
 DWS Inv ESG EM Eq LC (EUR) (INVF) [%]
 StarCap Stgy 1 A6 (EUR) (INVF) [%]
 WT IICAV WisdomTree E USD Ac (EUR) (INVF) [%]

128.87%
 84.24%
 84.17%
 80.88%
 80.51%

BVI performance enabled | All fund charts in EUR

SHORTNAME	TYPE	ISIN	EXCHANGE	CURRENCY	PRICE	DATE-TIME

[DOWNLOAD](#) [PRINT](#)

Decide whether the legend is displayed or not.

You can also determine the chart size via the options:

- **Original**
With this setting, the chart size and aspect ratio are not changed, the chart is printed as it appears on the screen. If the chart does not fit on one page, it is reduced accordingly, while maintaining the aspect ratio.
- **Stretched**
The setting "stretches" the chart to fill the entire page, the aspect ratio is maintained.
- **Maximised**
This setting utilises the entire height and width of the page. So the aspect ratio is not maintained here. The axis labels may differ from the online version.


You can display detailed information on the securities in the chart in a table. Use the options to decide whether and where this table should appear. The following information is available:

- Colour of the time series in the chart
- Security name (short name)
- Type
- ISIN
- WKN
- Exchange
- Currency
- Last price
- Date/time of price fixing

4.7 Export widget data as "INFRONTXL" file

INFRONTXL In addition to the usual [CSV export](#), you can also export the widget data directly from the Infront Investment Manager for the "INFRONTXL" product.

To export the content of a widget to an "INFRONTXL" file:

1. Open the corresponding private dashboard containing the "All Fields" widget or open a widget from the [Widget Gallery](#).
2. Select the required securities.
3. 

Select the command EXPORT, INFRONTXL in the widget menu.

You can then save the file directly or open it in Microsoft Excel.

The INFRONTXL export is available for the following widgets:

Widget	Description
All Fields	Exports the complete fields list.
Watchlist	The data from the "Overview", "Performance" and "Key figures" views can be exported.
Portfolio	The data from the "Overview", "Account", "Log" and "Closed positions" views can be exported.
Index Members	The complete list of index participants is exported here.

Widget	Description
vwd Pages	<p>The data can be exported from all instrument-based pages, pure text pages cannot be exported.</p> <div> <p>Examples</p> <p>Pages that can be exported:</p> <ul style="list-style-type: none"> • 102 • 5001-5019 • ... <p>Pages that cannot be exported:</p> <ul style="list-style-type: none"> • 1 • 12 • 230 • 29970 • ... </div>



INFRONTXL

INFRONTXL is a stand-alone add-in for Microsoft Excel that allows you to compile, calculate and visualise financial market information according to your personal requirements. It offers you access to real-time and delayed price data from trading venues, banks and brokers. For more information about the products, contact our customer service.

4.8 Widget collections

You have the option of combining several widgets into a "widget collection". The widgets summarised in this way can be accessed via tabs at the top of the widget.

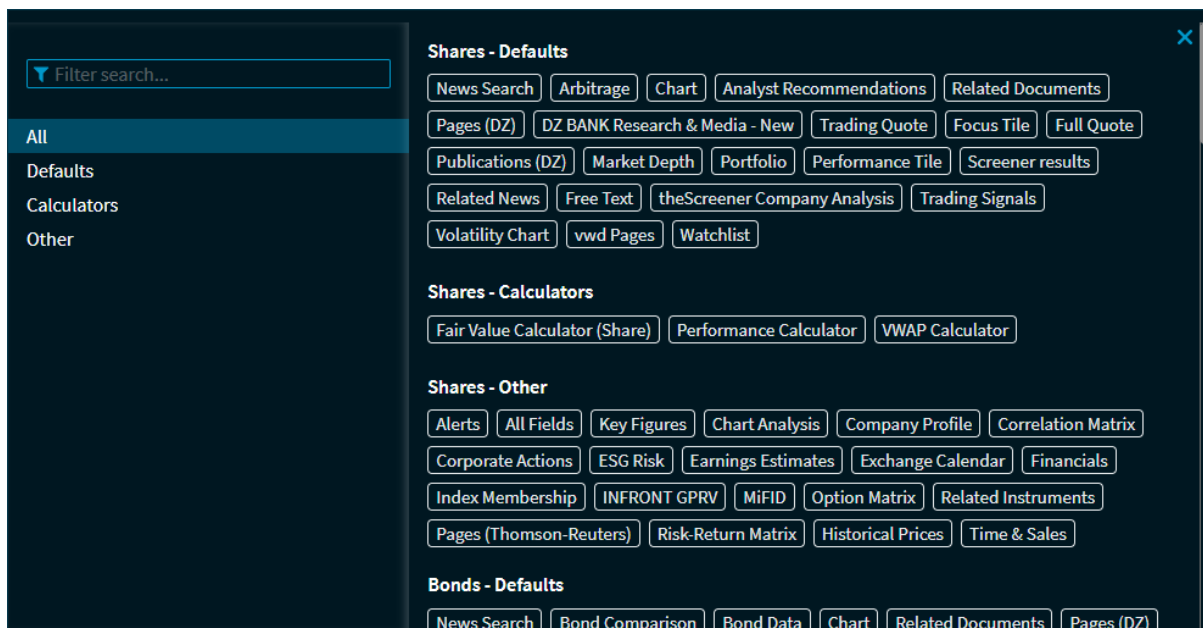
4.8.1 Adding a widget to a widget collection

To add widgets to a widget collection:

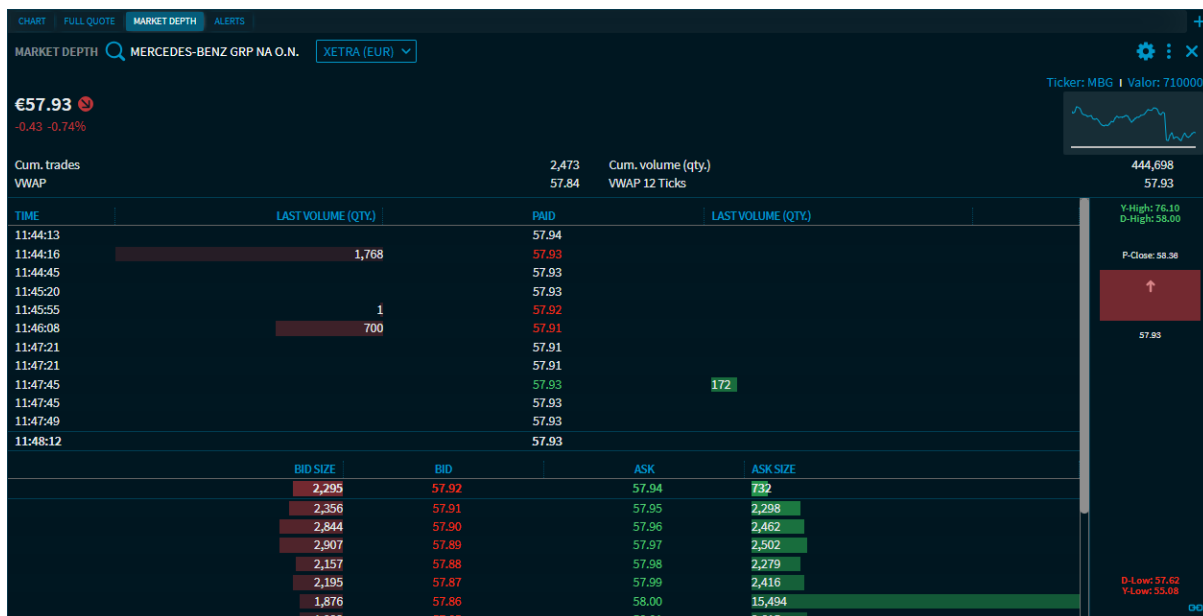
1. In the menu icon of a widget, select the command COLLECTION, ADD WIDGET.
In existing widget collections, you will alternatively find the "Add widget" icon at the top right of the widget.



2. Then select the desired widgets from the widget selection that appears.



You can now switch back and forth between the contents with a click of the mouse.



You can quickly change the order of the tabs in a widget collection using drag & drop.

4.8.2 Rename tabs of a widget collection

You can rename the tab names of a widget collection. To do this, follow these steps:

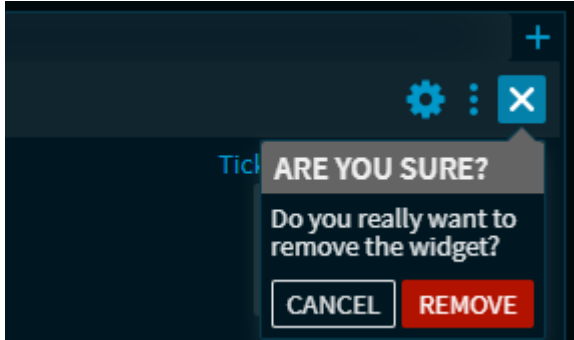
1. In the menu icon of a widget, select the command COLLECTION, RENAME WIDGET.
2. Enter the desired new name in the "Rename widget" dialogue box that appears.
3. Then select the "Save" button.

The tab is renamed.

4.8.3 Remove widget from a widget collection

To remove widgets to a widget collection:

1. Select the remove icon at the top right of the widget.
2. Confirm the query with REMOVE.



The widget is removed from the widget collection.

4.9 Export data of the widgets to Excel Add-In

If you have licensed the Infront Excel Add-In, a corresponding command EXPORT, EXCEL for the export is available in the "Chart" and "Full Quote" widgets as well as in watchlists.

4.10 Remove widgets from dashboard

You can remove widgets from a **private** dashboard any time. To do this, select the REMOVE WIDGET command in the widget menu.

To remove a widget permanently from the dashboard, use the "Save" button in the title bar to save your dashboard settings.



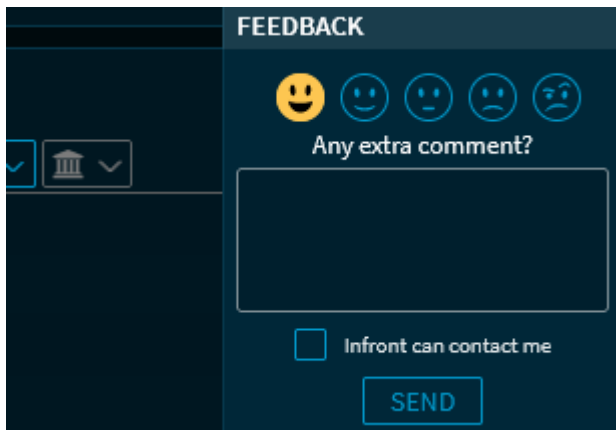
Notes

Widgets on predefined standard dashboards cannot be removed. If the user is not authorised to remove widgets, then the "Close" icon is hidden.


You can add new widgets (on private dashboards) at any time by using the Widget Gallery.

4.10.1 User feedback on widgets

Users have the option, within the context menu of each widget, to send individual ratings to Infront about functionality, ease of use or other feedback for the respective widget. The feedback is regularly evaluated by product management to identify further user needs. In this way, the application can be extended or optimised in a user-oriented way.




To send feedback on a widget to Infront:

1. Open the corresponding dashboard with the widget or open a widget from the Widget Gallery.
2.  Open the context of the widget by using the menu icon.
3. Then click the relevant smiley in the "Feedback" area to evaluate the widget.
4. If necessary, enter an additional comment in the input field that then appears below.
5. If you want Infront to contact you, select the corresponding checkbox.
6. Then click the "Send" button.
This sends the feedback.

4.11 Copy widgets

To create widgets, you can copy an existing widget in a dashboard. To do this, follow these steps:

1. Open the corresponding dashboard with your private widget or open a widget from the [Widget Gallery](#).
2.  Open the context menu via the menu icon.
3. Select the command UTILITIES, COPY in the widget menu.
4. Then, in the "Place widget" window that appears, decide whether the widget should be added to the top or bottom of the dashboard.
The new widget is added with the same settings (design, size) and can now be further edited if necessary.
5. Save the dashboard with the "Save" button.

4.12 Widget structure



The elements and functions described here can be found in many standard widgets.

The screenshot shows the Infront Investment Manager widget for Apple Inc. (XETRA (EUR)). The interface includes a search bar at the top left, a trading venue dropdown, a current price display, a security masterdata section, and a basic information footer. Callouts point to the following elements:




- Select instrument:** Points to the search bar at the top left.
- Select trading venue:** Points to the XETRA (EUR) dropdown.
- Widget settings:** Points to the gear icon in the top right.
- Open widget menu:** Points to the three-dot menu icon in the top right.
- Close widget:** Points to the close icon (X) in the top right.
- Current price:** Points to the price display showing €155.04 with a green arrow indicating a price increase.
- Security masterdata:** Points to the WKN and ISIN information.
- Basic information footer:** Points to the footer area containing real-time updates and key figure calculation dates.

The standard elements in detail:

Element	Description
Select security	The selection at the top left of the widget opens the quick search for security selection. In addition to using the securities search field, you can also select from the previously selected instruments below the search field.
Security name	Pointing to the security name displays a "drag & drop" symbol. Hold down the left mouse button to drag the security into other widgets. For more information, see /wiki/spaces/imc/pages/90213027 .
Select trading venue, security type, calculation type...	In addition to the security selection, there are usually one or more further drop-down lists. In many widgets, you can select the trading venue for a security, change the calculation method or select the security type. The menu allows you to configure the content of the widget.
Current price dates	Here you find the current price information, for example, the last traded price of the security with the currency at the trading venue selected. You see the absolute and percentage change to the close price of the previous day. The direction and colour of the arrow next to the price illustrate the current price development.

Element	Description
Security master data	<p>in the upper right corner of the widget selection, you will find further information on the currently selected security, for example in a "Full Quote" widget:</p> <ul style="list-style-type: none"> • ISIN • WKN <p>  Clicking the ISIN or WKN copies them directly to the Clipboard. Pointing to the "ISIN "or "WKN displays an info window showing further details. Clicking the info window keeps it in the foreground: </p> 

Element	Description
<p>"Show/hide header" icon</p> 	<p>widget</p> <p>[Only for selected widgets, for example, "/wiki/spaces/imc/pages/89214304", "/wiki/spaces/imc/pages/89411515" or "/wiki/spaces/imc/pages/89280023"]</p> <p>Expands or collapsed the header of the widget.</p> <div> <p>Example: Chart with an expanded and collapsed header</p> </div> <div>  <p>The figure displays two versions of a financial chart widget. The top version has an expanded header with a search bar containing 'US30', a dropdown menu, and buttons for 'AUTO', '1Y', and a line graph icon. It also includes a date range selector set to 'FROM: 2/1/22' and 'TO: 2/2/23'. The chart area shows a blue line representing 'US30 (XOP) (BNP)' with a y-axis ranging from 28k to 36k and an x-axis with labels for Apr. 2022, Jun. 2022, Aug. 2022, Oct. 2022, Dec. 2022, and Feb. 2023. The bottom version shows the same chart but with a collapsed header, where the search bar and date range are hidden, and the legend is also collapsed. The y-axis now ranges from 28k to 36k, and the x-axis labels are the same. Both charts show a blue line representing the US30 (XOP) (BNP) index.</p> </div>
<p>"Maximise widget" icon</p> 	<p>Maximises the widget. The widget then takes up the entire dashboard.</p> <p>Click the icon again to restore the original dashboard view.</p>
<p>"Widget settings" icon</p> 	<p>Clicking this icon opens the widget settings.</p> <p>If the widget is very small, this icon disappears. In these cases, however, the Widget structure available to you as an alternative at any time.</p>

Element	Description
Menu icon 	Click this icon to open the menu with the standard commands, for example, the settings. For more information, see /wiki/spaces/imc/pages/89442839 .
"Close" icon 	Click this icon to remove the widget. For more information, see /wiki/spaces/imc/pages/90312175 .
Basic information in the footer	In the footer of the widgets, you find further information: <ul style="list-style-type: none"> • Real time or delayed? • Time of the last price update • Calculation date of the key figures
Page navigation 	If a table in a widget contains many rows, then the rows are split across several pages. Use the controls below the list to go through the pages.



Up to 5 decimal places are displayed for the price data in the widgets and up to 6 decimal places for exchange rates.

See also:

- [Sort tables in widgets](#)
- [Change and save column width](#)
- [Commands in the widget menu](#)

4.12.1 Sort tables in widgets

Many widgets use tables to display the content. For example, tables are used as default views in the "Portfolio" and "Watchlist" widgets. To sort a table by column, click the corresponding column header. To reverse the sorting, click the column header again. Columns that can be used to sort the table are indicated by arrow symbols in the column header. The current sorting is indicated by the colour-coded column header.

INDEX MEMBERS					
CAC 40		DEFAULT TRADING VENUE		TABLE	
WKN	ISIN	NAME (SHORT)	CCY.	TREND	
850133	FR0000120073	AIR LIQUIDE	EUR		
938914	NL0000235190	AIRBUS	EUR		



When you save a dashboard, the sorting specified is also saved.

4.12.2 Change and save column width

In widgets with tables, you can change and save the width of the columns using drag & drop.

Examples of supported widgets:

- Portfolio (views with tables)
- Watchlist (views with tables)
- Arbitrage
- Index Members
- Index Membership
- Trading Signals

4.12.3 Commands in the widget menu



The menu icon that you find in the upper right corner of all widgets allows you to quickly access all important functions. This section describes the various options.

Depending on the widget and permissions, some commands are not always available.



Windows can also be opened in a new browser tab. Press and hold the <CTRL> (Windows) or <CMD> (Mac) key while selecting an entry.

See also:

- "Open as dashboard" menu item
- "Open as chart" menu item
- "Open as News" menu item
- "Open as Full Quote" menu item
- "Open as certificate data" menu item
- Open as... "More..." menu item
- "ESG" menu area
- "Feedback" menu area
- "Export" menu area: "INFRONTXL" command
- "Dark" theme
- "Utilities" menu area: "Instrument profile" command
- "Utilities" menu area: "Copy" command
- "Settings" menu item
- "Export" menu area: "CSV" command
- "Remove Widget" menu item
- "Copy instrument" menu area
- "Utilities" menu area: "New alert" command
- "Utilities" menu area: "Print" command
- "Open as Index Members" menu item
- "Utilities" menu area: "Help" command
- Close menu without selecting a menu item
- "Light" theme

"Open as dashboard" menu item



Opens the security selected in the widget in the dashboard template.

For more information, see [Dashboard templates](#).

"Open as chart" menu item



Open the security selected in the widget in a new "Chart" widget.

For this chart widget, you can then decide in the "Place widget" window that appears whether you want to place the widget at the top of the dashboard ("Add to top" button) or at the end of the dashboard ("Add to bottom" button):



The new widget then opens in the dashboard.

The "Open as" menu item is available in widgets for single instruments such as the "Full Quote", "Time & Sales" or the "Arbitrage" widget.



In widgets for multiple securities, you find this icon at the start of each row of a security. This allows you to quickly open securities shown in securities lists, watchlists and index lists or in portfolios as a "Chart" widget.

"Open as News" menu item



Opens the security selected in the widget in a "Company News" widget.

For this news widget, you can then decide in the "Place widget" window that appears whether you want to place the widget at the top of the dashboard ("Add to top" button) or at the end of the dashboard ("Add to bottom" button): The new widget then opens in the dashboard.

This menu entry is available in widgets for single instruments such as the "Full Quote", "Time & Sales" or the "Arbitrage" widget.



In widgets for multiple securities, you find this icon at the start of each row of a security. This allows you to quickly open securities shown in securities lists, watchlists and index lists or in portfolios as a "News" widget.

"Open as Full Quote" menu item




Use the "Open as Full Quote" command open the security selected in the widget in a new ["Full Quote"](#) widget.

For this Full Quote widget, you can then decide in the "Place widget" window that appears whether you want to place the widget at the top of the dashboard ("Add to top" button) or at the end of the dashboard ("Add to bottom" button): The new widget then opens in the dashboard.

This menu item is available in widgets for individual instruments such as the ["Time & Sales"](#), ["Arbitrage"](#) or [Charts](#) widgets.



 In widgets for multiple securities, you find this icon at the start of each row of a security. This allows you to quickly open securities shown in securities lists, watchlists and index lists or in portfolios as a "Full Quote" widget.

"Open as certificate data" menu item



Select the "Open as certificate data" command to open certificate currently selected in the widget in a "Certificate Data" widget.

For more information, see [Certificate Data](#).

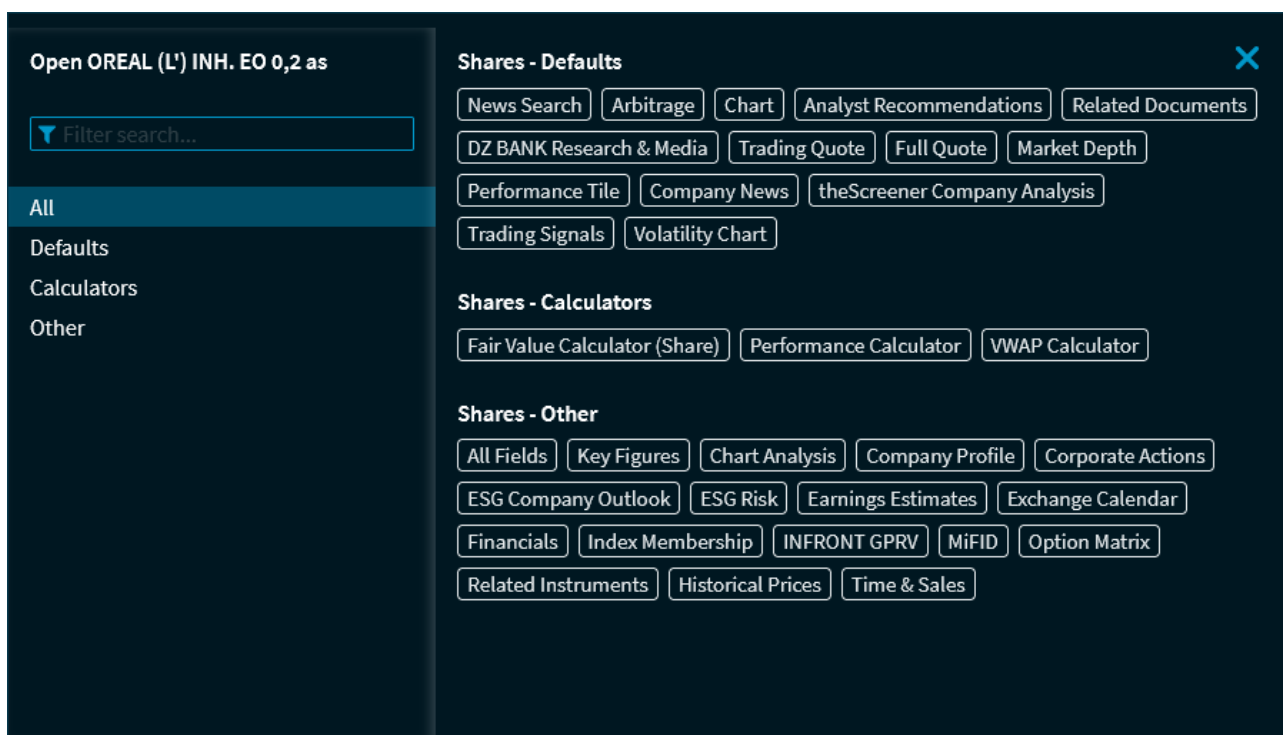


This command is only available for certificates in the widget menu.

Open as... "More..." menu item



Open the security selected in the widget in a new widget. In the dialogue window that appears, you can search for a security and select it. The widgets for the corresponding security type are shown. As in the Widget Gallery, the widgets are divided in the "All", "Standard" and "Other" sections.



For the selected widget, you can then decide in the "Place widget" window that appears whether you want to place the widget at the top of the dashboard ("Add to top" button) or at the end of the dashboard ("Add to bottom" button).

The selected new widget opens in the dashboard.



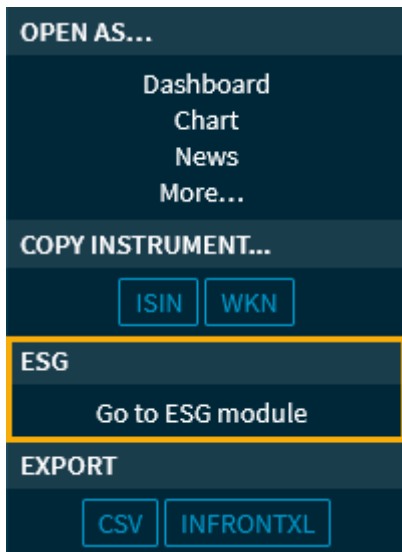
This menu icon is also available in widgets for individual instruments. To open the security in a "Full Quote", "Chart" or "News" widget, you find additional menu items in widgets for single instruments allowing you to quickly access these widgets.



In some widgets for multiple securities, you also find this icon at the start of each row with a security.

"ESG" menu area

In the "ESG" menu area, you will find the SWITCH TO ESG MODULE command, which allows you to switch directly to the ESG module - if licensed - for the security currently displayed in the widget.



"Feedback" menu area

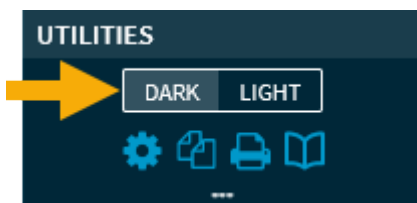
Users have the option, within the context menu of each widget, to send individual ratings to Infront about functionality, ease of use or other feedback for the respective widget. The feedback is regularly evaluated by product management to identify further user needs. In this way, the application can be extended or optimised in a user-oriented way.

See also the section [User feedback on widgets](#).

"Export" menu area: "INFRONTXL" command

In the "Export" menu area, select the "INFRONTXL" command to export the widget data as a "INFRONTXL" file.

"Dark" theme



In the widget menu, you find the "Dark" button to switch the widget to the dark (default) theme.



For more information about changing the theme in [Select theme](#). Widgets with individually set themes will keep their individual theme when the theme is globally changed.



Unknown macro: 'im-prod-name'

"Utilities" menu area: "Instrument profile" command

In the "Utilities" menu area of widgets for individual securities such as "Chart" or "Full Quote", select the "Instrument profile" command to open a PDF instrument profile for the security.

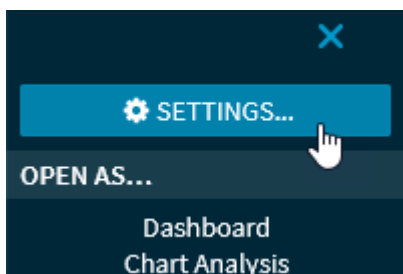
See also the section [Instrument profile](#).

"Utilities" menu area: "Copy" command

In the "Utilities" menu area, select the "Copy" command to create a copy of the widget in the current dashboard.

See also the section [Copy widgets](#).

"Settings" menu item



Select the "Settings" command at the top of the menu to configure the widget.



Alternatively, you can use the "Widget settings" icon in the widget header.

SETTINGS

General

Chart line and ordinate

Advanced

Periods

GENERAL SETTINGS

Push:

☒ ENABLED

Show axis grid:

☐ VERTICAL
☒ HORIZONTAL

Legend:

☒ ENABLED

Show quote information:

☒ IN LEGEND
☐ IN TOOLTIP

Last closing price:

☒ ENABLED

Show last values:

☒ ENABLED

SAVE

Depending on the widget, you can, for example, enable the push data feed, hide or show columns for widgets with tables or select the benchmark and volume in charts.

Complete the configuration with the "Save" button (or, in some widgets, the "Save changes" button) to apply the configuration.

To close the dialogue window easily, you can use the "Close" icon at the top of the dialogue window.



Some widgets (for example, the "News search" widget) cannot be configured, in these cases the "Widget settings" icon in the widget and also the corresponding "Settings" command in the widget menu are not available.









See also:

- [Show and hide columns of the widgets via the settings](#)
- [Column configurator](#)

Show and hide columns of the widgets via the settings

In many widgets, you have the possibility to show or hide the columns of tables in the widget.

For this purpose, a configuration dialogue window is available in the "Columns" section of the "Settings" dialogue window, which contains the following elements in detail:

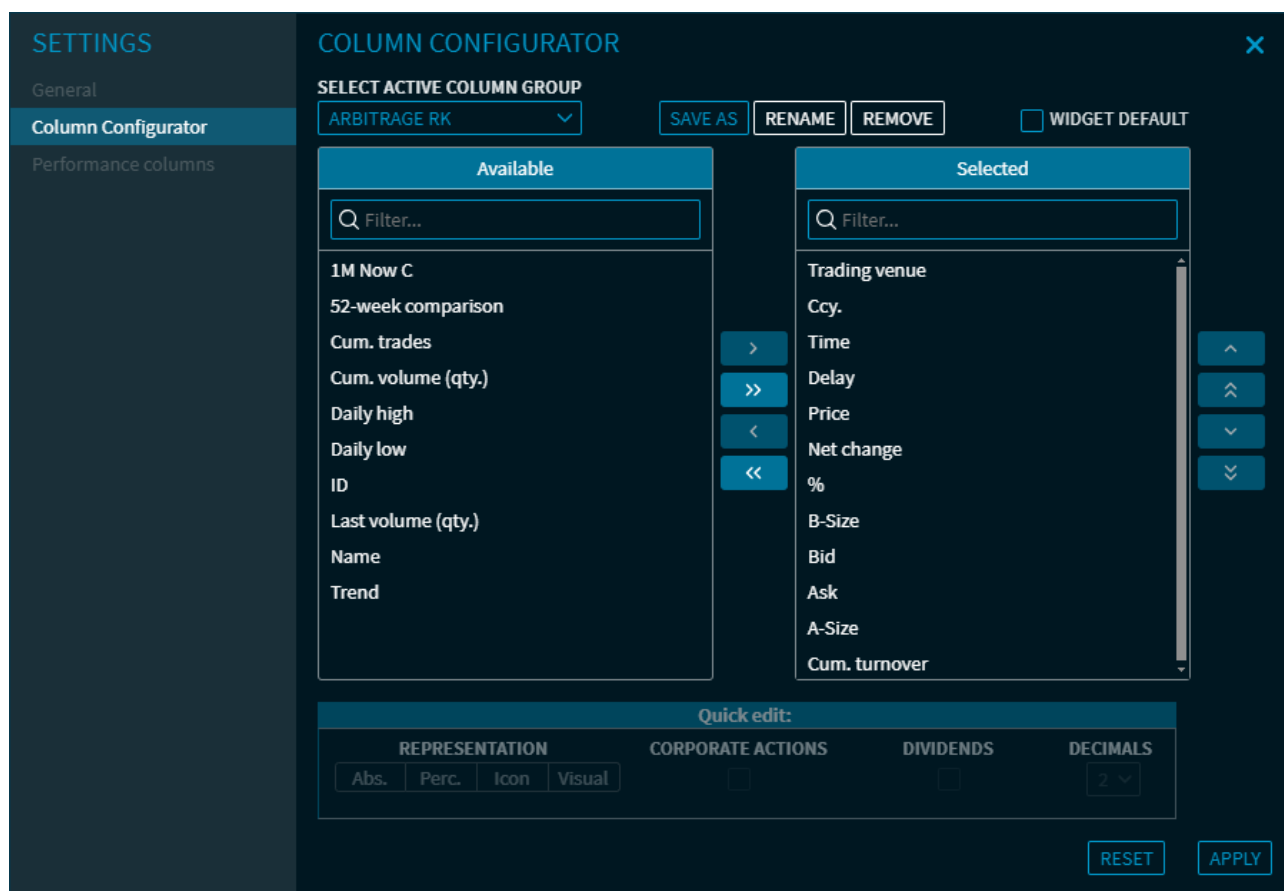
Element	Description
"Available" area	On the left side, you find the "Available" area with all columns that are currently hidden. Use the filter field or the scroll bar to search for columns.
"Selected" area	On the right side, you find the "Selected" area showing all columns that are currently displayed in the widget.
Filter fields	In both areas, "Available" and "Selected", you can search for columns directly in the list or just filter the list.
	Click this button to add the columns selected in the "Available" area to the "Selected" area. You can select multiple entries at the same time by holding down the <CTRL> key. On mobile devices, you can select several values by simply selecting the values one after the other.
	Click this button to add all available columns at once to the "Selected" area.
	Click this button to hide the columns marked in the "Selected" area in the widget. You can reselect them in the "Available" area at any time to add them to the display.
	Click this button to remove all currently selected columns from the widget. You can reselect them in the "Available" area at any time to add them to the display.
	Click this button to move the columns selected in the "Selected" area one position up.
	Click this button to move the columns selected in the "Selected" area to the top.
	Click this button to move the columns selected in the "Selected" area one position down.
	Click this button to move the columns selected in the "Selected" area to the bottom.

Examples of widgets with column selection:

- [Portfolio](#)
- [Watchlist](#)
- [Option Matrix](#)
- [Warrant Matrix](#)
- [Related Instruments](#)

Column configurator

In some widgets, in addition to the previously described option of showing or hiding the columns of tables in the widget, the so-called column configurator is also available.



You can use this column configurator to save column configurations ("column groups") individually. You can also set a configuration as the default when creating new widgets.



For example, you can currently find a column configurator in the settings of the following widgets:

- [Arbitrage](#)
- [Index Members](#)
- [Index Membership](#)
- [Portfolio](#)
- [Wealth Portal](#)
- [Assetmax-Portfolio](#)

If you have opened the "Settings" dialogue window for one of these widgets as described, first switch to the "Column configurator" area on the left-hand side of the dialogue window.

You can make your individual configurations here.

Save column configuration

To save a column configuration, proceed as follows:

1. If necessary, first carry out your configuration as described in the section [Show and hide columns of the widget via the settings](#).
2. Then click the "Save as" button.
3. Enter the required name in the "Name" field.

4. Click the "Save" button to save the changes.
The column configuration is saved.

Select column configuration

If you have already saved column configurations, you can select a configuration in the first selection list and confirm with the "Apply" button.



You can change, rename, set as widget default and delete selected column configurations.

Set column configuration as widget default

If you would like to save one of your saved column configurations as the widget default, proceed as follows:

1. Select the relevant configuration in the first drop-down list.
2. Activate the "Widget default" checkbox on the right-hand side.
The column configuration is saved as the widget default.

"Export" menu area: "CSV" command

In the "Export" menu area, select "CSV" command to export the widget data as CSV file.

See also the section [Export widget data to CSV file](#).

Further file formats are available for exporting charts. See also the section [Export charts](#).

"Remove Widget" menu item



In the widget menu, you will find the REMOVE WIDGET command. Select this command to remove the widget from the dashboard.



This command is available only if the widget is part of one of your private dashboards. In predefined default dashboards, you cannot remove widgets.
You can always add the widgets again from the [Widget Gallery](#).

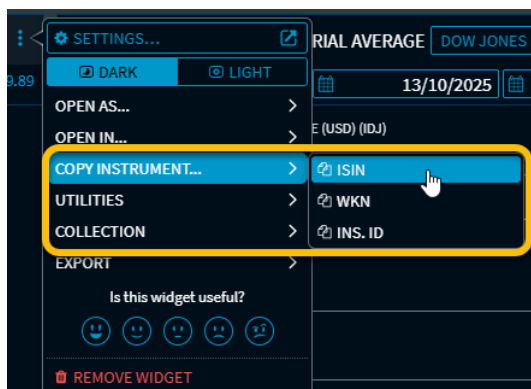
See also [Remove widgets from dashboard](#).

"Copy instrument" menu area



In the "Copy instrument" menu area of the widget menu (of single instruments), you will find the commands "ISIN", "WKN" and "INSTRUMENT ID" to copy the security identification numbers of the currently open security to the Clipboard.

Example: The instrument ID for Apple on Nasdaq is *AAPL.Q*.



A message informs you of the successful copying process.

For example, you can use this to quickly insert an ISIN into an input or search field.

"Utilities" menu area: "New alert" command

In the "Utilities" menu area of widgets for individual securities such as "Chart" or "Full Quote", select the "New alert" command to configure an alert for the security.

See also the section [Alerts](#).

"Utilities" menu area: "Print" command

In the "Utilities" menu area, select the "Print" command to print the widget contents.

See also the section [Print widgets](#).

"Open as Index Members" menu item



Select the "Open as Index Members" command to open the members of a displayed index in a "Index Members" widget.



This command is only available for indexes in the widget menu.

"Utilities" menu area: "Help" command


In the "Utilities" widget menu section of widgets for individual securities such as "Chart" or "Full Quote", select the "Help" command to open the context-sensitive help page from the Help Center.

See also the section [Help Center and Infront Investment Manager](#).

Close menu without selecting a menu item



If you opened the menu with menu icon, you can also close it without selecting a menu item. To do this, follow these steps:

- 
 - Click the "Close" icon in the menu.
 - Or click somewhere in the dashboard outside the menu.

"Light" theme



In the widget menu, you find the "Light" button to switch the widget to the light theme.



For more information about changing the theme in [Select theme](#), see [Unknown macro: 'im-prod-name'](#), see [Select theme](#). Widgets with individually set themes will keep their individual theme when the theme is globally changed.

5 Widget overview

Here, you will find detailed descriptions of all widgets available in Infront Investment Manager.

See also:

- [Alerts](#)
- [All Fields](#)
- [Analyst Recommendations](#)
- [\(50-en\) Analytics widgets \(WTK\)](#)
- [Arbitrage](#)
- [Assetmax Portfolio](#)
- [Benchmark Bond Spread Calculator](#)
- [Bond Calculator](#)
- [Bond Comparison](#)
- [Bond Data](#)
- [Bond Spread Calculator](#)
- [Broken Date Calculator](#)
- [Cap Floor Calculator](#)
- [Certificate Comparison](#)
- [Certificate Data](#)
- [Chart](#)
- [Chart Analysis](#)
- [Commodity Spread Calculator](#)
- [Company Profile](#)
- [Corporate Actions](#)
- [Correlation Matrix](#)
- [Derivative Matrix](#)
- [Earnings Estimates](#)
- [Economic Data](#)
- [ESG Risk](#)
- [ESG Sector Scores](#)
- [Exchange Calendar](#)
- [Fair Value Calculator \(Share\)](#)
- [Fair Value Calculator \(Option\)](#)
- [Financials \(balance sheet data\)](#)
- [Focus Tile](#)
- [Free Text](#)
- [Full Quote](#)
- [Fund Data](#)
- [Fund Comparison](#)
- [FX Calculator](#)
- [FX Matrix](#)
- [FX Option Calculator](#)
- [Gainers & Losers](#)
- [Global Indices](#)
- [Historical Prices](#)
- [Index Membership](#)
- [Index Members](#)
- [Interest Rate Calculator](#)
- [Investment Calculator](#)
- [Key Figures](#)
- [Knock-Out Map](#)
- [Macroeconomic Calendar](#)
- [Market Depth](#)

- [MiFID](#)
- [News](#)
- [Option Matrix](#)
- [Performance Calculator](#)
- [Performance Tile](#)
- [Portfolio](#)
- [Related Documents](#)
- [Related Instruments](#)
- [Risk-Return Matrix](#)
- [Screener results](#)
- [Swap Calculator](#)
- [Swaption Calculator](#)
- [theScreener Company Analysis](#)
- [Ticker tape](#)
- [Time and Sales](#)
- [Time and Sales Vertical](#)
- [Top Derivatives and New Issues](#)
- [Trading Quote](#)
- [Trading Signals](#)
- [Volatility Chart](#)
- [VWAP Calculator](#)
- [vwd Pages](#)
- [Warrant Matrix](#)
- [Warrants Calculator](#)
- [Watchlist](#)
- [Wealth Portal](#)
- [Yield Curves](#)

5.1 Alerts

Infront Investment Manager provides an alert function for securities to monitor limits and news.

Monitor your instruments in Infront Investment Manager by using price alerts. The alert function is available for all instruments. When configuring a price alert, you can select how you want to be notified: via system (desktop) notification, e-mail or sound.



In addition, alerts that are already triggered are also shown in the title bar on the "Alerts" icon. In the pull mode, the display of the number of alerts triggered is also updated with each dashboard update.

This icon in the title bar allows you to quickly open and edit the alerts - editing is also possible here without placing the "Alerts" widget on your dashboard.

You can also [Save news search as alert](#) to receive news immediately as they arrive.


In addition, rating and signal alerts (indicator alerts) are also available. Signal alerts are alerts based on the intersection of a price time series (e.g. close) with simple or exponential moving averages to identify buy or sell signals.

All types of alerts are managed in the "Alerts" widget.

ALERTS 65 PRICES

EXPIRED EXERCISED ACTIVE

	LIMIT	LOWER LIMIT	UPPER LIMIT	VALID FROM	VALID TO	STATUS LOW	STATUS HIGH	COMMENT
⌵	DAX PERFORMANCE-INDEX (Xetra, DE0008469008, 846900): Pkt. 15,855.94							
<input type="checkbox"/>	TRADE L	0.10	0.10	13 Feb 2023	13 Mar 2023	EXPIRED	SENT	
<input type="checkbox"/>	TRADE L	15,405.38919	15,436.23081	21 Feb 2023	22 Mar 2023	SENT	SENT	
⌵	ESTX 50 PR.EUR (STOXX Ltd., EU0009658145, 965814): Pkt. 4,332.14							
<input type="checkbox"/>	TRADE T	0.10	4,354.4433	13 Feb 2023	13 Mar 2023	EXPIRED	EXPIRED	
⌵	EUR/CNY SPOT RATE (Forex vwd, EU0001458304, 965642): CNY 7.57285							
<input type="checkbox"/>	TRADE T	6.70938	8.34552	24 Oct 2019	open end	ACTIVE	ACTIVE	Lorem ipsum dolor sit amet, c...
⌵	MERCEDES-BENZ GRP NA O.N. (Xetra, DE0007100000, 710000): EUR 70.76							
<input type="checkbox"/>	TRADE T	39.584	55.86	16 Nov 2018	14 Mar 2019	SENT	SENT	
⌵	NESTLE N (Switzerland, CH0038863350, A0Q4DC): CHF 114.76							

 You can create up to 150 alerts.

See also:

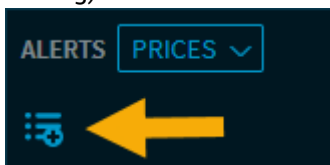
- [Configure price alerts](#)
- ["Prices" view in the "Alerts" widget](#)
- ["News" view in the "Alerts" widget](#)
- ["Log" view in the "Alerts" widget](#)
- ["Rating" view in the "Alerts" widget](#)
- [Edit price alerts](#)
- [Copy price alerts](#)
- [Delete price alerts](#)
- [Show news alert as news search](#)
- [Edit news alerts](#)
- [Delete news alerts](#)
- [Rating alerts](#)
- [Signal alerts](#)
- [Configure e-mail notifications for price alerts](#)
- [Configure system notification for price alerts](#)
- [Settings in the "Alerts" widget](#)
- [Configure in-app notifications for price alerts](#)
- [Configure sound notifications for price alerts](#)
- [Export alerts](#)

5.1.1 Configure price alerts

To configure an alert:

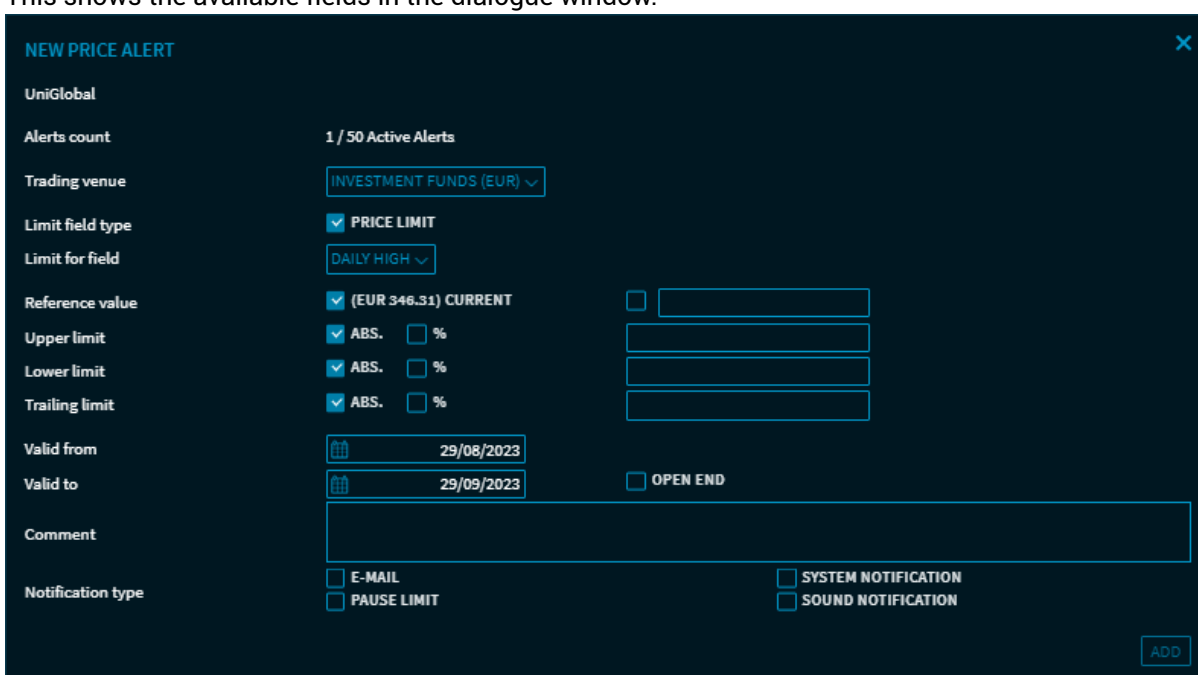
1. If you haven't opened a "Alerts" widget in your private dashboard yet, then open the Widget Gallery, and then search for the "Alerts" widget.

- In your dashboard, in the "Alerts" widget, select the "Prices" entry in the drop-down list (default setting) and then the "Instrument search" icon.



Alternatively, you can find the command to create a new price alert in the context menus of securities in widgets or security lists in the search or the Screener. Point the mouse at the "Instrument search" icon and the number of alerts still available will be displayed as a tooltip.


- First, select the instrument that you want to monitor from the integrated quick search. This shows the available fields in the dialogue window.



At the top of the dialogue window, you will see the name of the security and the current number of active alerts.

Below, you can enter the following data:

Characteristic	Description
Alerts count	Here, you can see the current number of active alerts (up to 150 alerts).
Trading venue	Select the relevant trading venue for the price fixing from the drop-down list.
Limit field type	Here, you specify the limit field type. Price alerts have the "Price limit" field type.
Limit for field	Select the field that you want to monitor from the drop-down list, for example "Paid" to monitor the paid price.

Characteristic	Description
Reference value	Here, you specify the initial value of the alert. In the "Paid" example, the current price is shown as reference value. To enter a different reference value, select the second input field and enter the price.
Upper limit	<p>Enter the upper limit you want to monitor. If this limit is exceeded, then you receive an alert.</p> <p>By selecting the corresponding option (absolute or relative distance to the reference value), and then enter the value in the input field.</p> <p>If you enter the percentage ("%") option), then the resulting price limit is shown next to the input field for review.</p> <p>If you want to monitor only the lower limit, then leave this field empty.</p>
Lower limit	<p>Enter the lower limit you want to monitor. If this limit is exceeded, then you receive an alert.</p> <p>By selecting the corresponding option (absolute or relative distance to the reference value), and then enter the value in the input field.</p> <p>If you have entered a percentage (in the "%" option), the resulting price limit is displayed behind the input field for checking purposes.</p> <p>If you only want to monitor an upper limit, leave this field empty.</p>
Trailing limit	<p>If a limit is exceeded and the alert triggered, then you can specify here (optional) the value (absolute or percentage) by which to trail the limit. You will then be alerted once again as soon as the new limit is exceeded.</p> <p>Next to the input field, you see the resulting new price limits to check it.</p> <div>  Important information about trailing limits A protection mechanism is active here, which pulls up trailings with distant barriers to the current price or adjusts them accordingly in the case of lower limits. This possible hundreds of unnecessary triggers with emails and popups to the front end, pulling the barriers to a level appropriate for the market situation. The check is based on the current snap quote of the security. </div>
Valid from	<p>Use the integrated calendar to select the validity date of the alert.</p> <p>The current date is set by default. You can overwrite it.</p>

Characteristic	Description
Valid to	<p>Enter the validity date or click in the table row and then use the drop-down arrow to open the calendar and select the corresponding validity date.</p> <p>The default validity date from the settings of the widget is set by default. You can overwrite it.</p> <p>For more information about specifying the default "Valid to" date, see Settings in the "Alerts" widget.</p> <p>Select the "open end" option to define an unlimited alert.</p>
Comment	<p>Enter the individual information about the limits.</p> <p>The comments entered here are also displayed in the e-mail notifications, for example.</p>
E-mail	<p>If this checkbox is selected and also enabled in the settings of the user profile, then the exceeded limits trigger alerts that are sent to the e-mail address specified in the user profile.</p> <p>For more information about the global notification settings, see Settings and profile.</p>
Pause limit	<p>If this checkbox is selected, then no alert is triggered when a specified limit is reached.</p>
System notification	<p>If this checkbox is selected, then triggered alerts are sent via desktop notification.</p> <p>The default setting for this option is specified in the widget settings that you open with the "Settings" icon in the widget menu. If the "In-app notifications" checkbox is selected in the settings, then it is also enabled here. See also Settings in the "Alerts" widget.</p> <p>For more information about the global notification settings, see Settings and profile.</p>
Sound notification	<p>If this checkbox is selected and the "Sound notification" option enabled in the settings, then exceeded limits will alert you with a sound notification.</p> <p>For more information about configuring sound notifications, see Settings in the "Alerts" widget.</p>
"Add" button	<p>Saves the specified alert and adds it to the list of alerts.</p>

NEW PRICE ALERT

UniGlobal

Alerts count1 / 50 Active Alerts

Trading venueINVESTMENT FUNDS (EUR)

Limit field typePRICE LIMIT

Limit for fieldCLOSE

Reference value(EUR →) CURRENT

Upper limitABS. %

Lower limitABS. % 300.00

Trailing limitABS. %

Valid from29/08/2023

Valid to29/09/2023 OPEN END

Comment

Notification typeE-MAIL PAUSE LIMIT SYSTEM NOTIFICATION SOUND NOTIFICATION

ADD

4. Confirm your configuration by clicking the "Add" button.

The configured alert appears in the list of price alerts in the widget:

ALERTS PRICES									
	TRADE	15,800.00	--	20 Apr 2023	20 May 2023	SENT	EXPIRED		
DEUTSCHE POST AG NA O.N. (Düsseldorf, DE0005532004, 553200): EUR 42.76									
	TRADE	39.1995	--	20 Apr 2023	20 May 2023	EXPIRED	EXPIRED		
	DAILY HIGH	--	50.00	20 Apr 2023	open end	UNKNOWN	ACTIVE		
MERCEDES-BENZ GRP NA O.N. (Stuttgart, DE0007100000, 710000): EUR 67.69									
	TRADE	--	75.00	20 Apr 2023	20 May 2023	EXPIRED	EXPIRED		
SAP SE O.N. (Frankfurt, DE0007164600, 716460): EUR 128.24									
	TRADE	100.00	--	20 Apr 2023	20 May 2023	EXPIRED	EXPIRED		
UniGlobal (Investment funds, DE0008491031, 849103): EUR 346.31									
	CLOSE	300.00	--	13 Jul 2023	13 Aug 2023	EXPIRED	EXPIRED		
	CLOSE	300.00	--	29 Aug 2023	29 Sep 2023	ACTIVE	UNKNOWN		

ALERTS PRICES

EDIT COPY DELETE EXPORT

LIMIT LOWER LIMIT UPPER LIMIT

EUR/CNY SPOT RATE (Forex vwd, EU0001458304, 965642): CNY 7.2929

MERCEDES-BENZ GRP NA O.N. (Xetra, DE0007100000, 710000): EUR 72.01

NESTLE N (Switzerland, CH0038863350, A0Q4DC): CHF 110.20

TRADE 100.00 --

With the "Copy" function, you can quickly create new price alerts that you can then edit. The "Copy" button appears when a price alert is selected in the list.

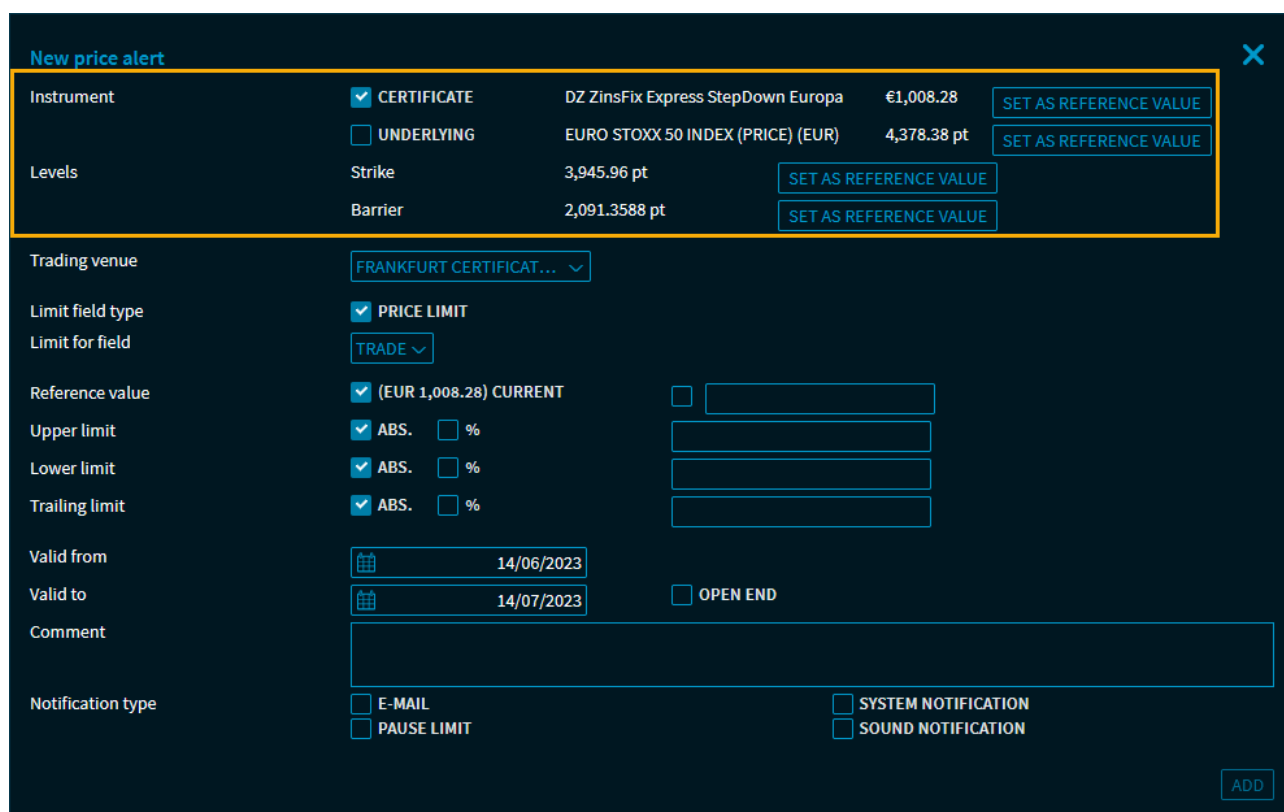
See also:

- [Additional alert settings for leverage products](#)

Additional alert settings for leverage products

If the security is, for example, a certificate with an underlying, a warrant or another leverage product, then further setting options are available to you when setting up a price alert in order to quickly configure the ideal alert.

You will find the additional fields directly in the upper area of the "New price alert" dialogue window:



You can decide here whether the alert should be defined on the instrument or the underlying. Also, known thresholds such as strike price, stop-loss level, cap or barrier can be directly adopted as the reference value for the alert to be set up.

Corresponding information is automatically stored in the commentary so that, for example, the reference to the initial instrument can still be established in the case of alerts on the underlying instrument.

Example:

In this example alert, the underlying DAX index was selected, the commentary shows the underlying instrument:

New price alert ✕

Instrument ☐ CERTIFICATE DZ ZinsFix Express StepDown Europa €1,008.28 SET AS REFERENCE VALUE
☒ UNDERLYING EURO STOXX 50 INDEX (PRICE) (EUR) 4,378.38 pt SET AS REFERENCE VALUE

Levels
 Strike 3,945.96 pt SET AS REFERENCE VALUE
 Barrier 2,091.3588 pt SET AS REFERENCE VALUE

Trading venue STOXX Ltd.

Limit field type ☒ PRICE LIMIT

Limit for field TRADE ▼

Reference value ☐ (EUR 1,008.28) CURRENT ☒ 4,378.38

Upper limit ☒ ABS. ☐ %

Lower limit ☒ ABS. ☐ %

Trailing limit ☒ ABS. ☐ %

Valid from 14/06/2023

Valid to 14/07/2023 ☐ OPEN END

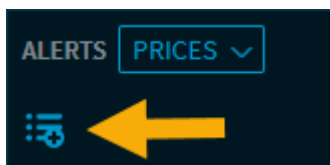
Comment DZ ZinsFix Express StepDown Europa

Notification type ☐ E-MAIL ☐ SYSTEM NOTIFICATION
☐ PAUSE LIMIT ☐ SOUND NOTIFICATION

ADD

5.1.2 "Prices" view in the "Alerts" widget

Manage all specified alerts in the "Alerts" widget. Here, you can see all price alerts in the default "Prices" setting and can also set up new price alerts via the "Instrument search" icon.



ALERTS 85 PRICES ▼ ⌕ ⚙️ ⋮ ✕






⌕ COPY DELETE EXPORT EXPIRED EXERCISED ACTIVE



⌕ Instrument search

▼	EUR/CNY SPOT RATE (Forex vwd, EU0001458304, 965642): CNY 7.57405							
<input type="checkbox"/>	TRADE T	0.10	4,354.4433	13 Feb 2023	13 Mar 2023	EXPIRED	EXPIRED	
▼	MERCEDES-BENZ GRP NA O.N. (Xetra, DE0007100000, 710000): EUR 70.76							
<input checked="" type="checkbox"/>	TRADE T	6.70938	8.34552	24 Oct 2019	open end	ACTIVE	ACTIVE	Lorem ipsum dolor sit a...
▼	NESTLE N (Switzerland, CH0038863350, A0Q4DC): CHF 114.72							
<input type="checkbox"/>	TRADE T	39.584	55.86	16 Nov 2018	14 Mar 2019	SENT	SENT	
▼	S&P 500 Index (Chicago Board Options Exchange, US78378X1072, A0AET0): Pkt. 4,152.26							
<input type="checkbox"/>	TRADE T	3,910.24584	4,172.95879	22 Mar 2023	22 Apr 2023	EXPIRED	EXPIRED	
▼	S&P 500 Index (Xetra, DE0007164600, 716460): EUR 122.34							

In this view, the price alerts are grouped by security (for each trading venue). You can extend or reduce the alerts of a security by clicking the arrow icon next to the security name. In addition to the security name, you also see the trading venue, ISIN, WKN and current price of each security.

In addition to the view drop-down list and the two standard "Maximise widget", "Widget properties" and "Menu" icons, you can find the following elements in the "Prices" view:

Element	Description
 Widget name	<p>If there are unread alert notifications, then the red of the widget name shows how many unread notifications are in the current log.</p>
"Instrument search" icon	<p>Use this icon to configure a new price alert. See also Configure price alerts.</p>
"Copy" button	<p>Copies the list of the selected alert. See also Copy price alerts.</p>
"Delete" button	<p>Click this button to delete the alert selected in the list. See also Delete price alerts.</p>
"Enabled" button	<p>Shows or hides the list of enabled alerts. The highlighted (green) button shows if the enabled alerts are currently shown or not.</p>
"Exercised" button	<p>Shows or hides the exercised list of enabled alerts. The highlighted (orange) button shows if the exercised alerts are currently shown or hidden.</p>
"Expired" button	<p>Shows or hides the list of expired alerts. The highlighted (red) button shows if the expired alerts are currently shown or hidden.</p>
 "Alert selection" column	<p>Select the checkbox in this column to select the corresponding alert. You can select multiple alerts to copy or delete them together.</p> <div>  To select all alerts, select the checkbox in the column header. </div>
 "Row menu" icon	<p>With this icon, you open the corresponding security quickly in a new widget. For more information, see Commands in the widget menu.</p>
 "Edit" icon	<p>This icon allows you to edit the list of selected alerts. See also Edit price alerts.</p>

Element	Description
"Limit" column	<p>Which value is monitored?</p> <p>In this column, you see the field of the corresponding alert, for example, the "Paid", "Bid" or "Ask" field.</p> <p>In addition, the corresponding symbol indicates the limit type:</p> <ul style="list-style-type: none">  Limit (classic price limit)  Trailing limit (input in the "Trailing limit" field in the limit properties)
"Lower limit" column	<p>If you specified a lower limit for the alert, then this column shows the corresponding value.</p> <p>If this lower limit is exceeded, then you receive an alert.</p>
"Upper limit" column	<p>If you specified an upper limit for an alert, then this column shows the corresponding value.</p> <p>If this upper limit is exceeded, then you receive an alert.</p>
"Valid from" column	The start date specified for the alert.
"Valid to" column	The end date specified for the alert.
"Status low" column	The status of the alert's low limit, for example "Active", "Triggered", "Sent", "Paused" or "Expired".
"Status high" column	The status of the alert's upper limit, for example "Active", "Triggered", "Sent", "Paused" or "Expired".
"Comment" column	<p>The comment entered for the alert (if available).</p> <p>For longer comments, point to the comment to see the full text.</p>






Use the view drop-down list to switch to the ["Log" view](#) where all triggered events are logged. The "Alerts" widget supports drag-and-drop. When you drag securities into the widget, then the "New price alerts" dialogue window opens at once, allowing you to configure an alert. Drag & drop also works in the other direction – just drag a security from the "Prices" view to a suitable other widget.




5.1.3 "News" view in the "Alerts" widget

All saved news alerts are managed in the "News" view of the "Alerts" widget. To open the "News" view, use the view drop-down list in the upper part of the "Alerts" widget.

In this view, you see your currently defined news alerts, with the most recent alerts at the top of the list.

ALERTS 85 NEWS							
MARK AS READ SHOW SEARCH DELETE							
<input type="checkbox"/>		VALID FROM	VALID TO	NAME	SEARCH FILTER	LAST HIT	UNREAD
<input checked="" type="checkbox"/>		8 Apr 2019	17 Jul 2019	Ad-hoc notifications	Ad-hoc announcements (Englis...	—	0
<input type="checkbox"/>		15 Apr 2019	24 Jul 2019	Video Games Industry		—	0
<input type="checkbox"/>		29 May 2019	6 Sep 2019	Asia-JP3633400001-JP3854600008-...	Asia	—	0

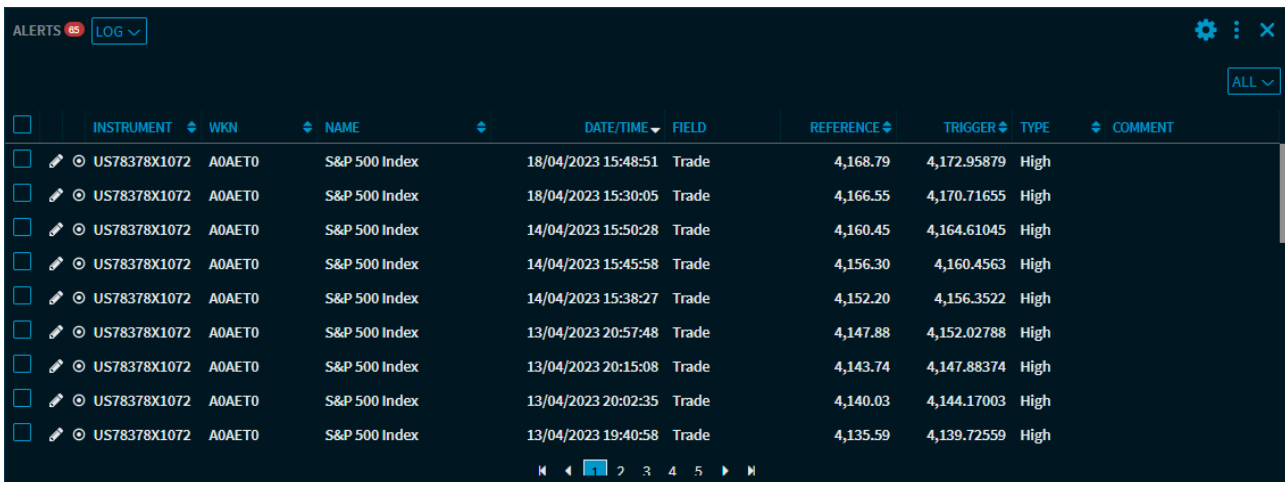
In addition to the heading, view drop-down list and the default "Maximise widget" and "Menu" icons, you see the following elements in the "News" view:

Element	Description
"Mark as read" button	The button appears when a news alert is selected in the list. Click this button to mark the currently selected news alerts as read.
"Show search" button	The button appears when a news alert is selected in the list. Click this button to open the news alert selected in the list as a "News Search" widget. See also Show news alert as news search .
"Delete" button	The button appears when a news alert is selected in the list. Click this button to delete the alert selected in the list. See also Delete news alerts .
 "Alert selection" column	Select the checkbox in this column to select the corresponding news alert. Multiple selection is possible, so that you can mark several alerts together as read or delete them. <div>  To select all news alerts, select the checkbox in the column header. </div>
 "Edit" icon	Click this icon to edit the list of selected news alerts. See also Edit news alerts .
"Valid from" column	The start date specified for the news alert.
"Valid to" column	The end date specified for the news alert.

Element	Description
Name	The name of the alert.
Search filter	The name of the saved news search.
Last hit	The date and time of the most recent news article for this alert.
Unread	The number of unread news articles in this alert.

5.1.4 "Log" view in the "Alerts" widget

The log lists all triggered price alerts in the specified period. To open the log with the notifications, use the view drop-down list in the upper part of the "Alerts" widget.



	INSTRUMENT	WKN	NAME	DATE/TIME	FIELD	REFERENCE	TRIGGER	TYPE	COMMENT
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	18/04/2023 15:48:51	Trade	4,168.79	4,172.95879	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	18/04/2023 15:30:05	Trade	4,166.55	4,170.71655	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	14/04/2023 15:50:28	Trade	4,160.45	4,164.61045	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	14/04/2023 15:45:58	Trade	4,156.30	4,160.4563	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	14/04/2023 15:38:27	Trade	4,152.20	4,156.3522	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	13/04/2023 20:57:48	Trade	4,147.88	4,152.02788	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	13/04/2023 20:15:08	Trade	4,143.74	4,147.88374	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	13/04/2023 20:02:35	Trade	4,140.03	4,144.17003	High	
<input type="checkbox"/>	US78378X1072	A0AET0	S&P 500 Index	13/04/2023 19:40:58	Trade	4,135.59	4,139.72559	High	



When you click the "Alerts" icon in your view with the corresponding alerts opens.







Unknown macro: 'im-prod-name'

, the "Log"

In addition to the view drop-down list and the two standard "Maximise widget" and "Menu" icons, you can find the following elements in the "Log" view:

Element	Description
"Period" drop-down list	<p>On the right side of the widget, select the period of the alerts you want to view. The following periods are available:</p> <ul style="list-style-type: none"> • All • 3 months • 1 month • 1 week • New

Element	Description
"Mark as read" button	<p>This button becomes visible when you select entries in the log.</p> <p>Click this button to mark all selected entries as read.</p> <p>The number on the alert icon that indicates unread notifications is reduced by each entry that you mark as read.</p>
"Mark all as unread" button	<p>This button becomes visible when you select entries in the log.</p> <p>Click this button to mark all selected entries as unread.</p> <p>The number on the alert icon indicating unread notifications is increased by each entry that you mark as unread.</p>
"Delete" button	<p>This button becomes visible when you select entries in the log.</p> <p>You can click this button to delete all selected events from the log.</p>
 "Select row" column	<p>In the first column, you can select individual rows (that is, entries).</p> <div>  <p>To select all entries, select the checkbox in the column header. After selecting entries, the buttons described below appear. You can use the buttons to delete entries or mark them as read/unread.</p> </div>
 "Edit" icon	<p>This icon allows you to edit the list of selected alerts.</p>
 "Unread" column	<p>Unread notifications are indicated by the blue symbol in the second column.</p>
"Instrument" column	<p>The ISIN of the security for which the alert was configured.</p>
"WKN" column	<p>The WKN of the security for which the alert was configured.</p>
"Name" column	<p>The name of the security for which the alert was configured.</p>
"Date/time" column	<p>The date and time when the alert was triggered.</p>
"Field" column	<p>The field for which the alert (that is, its limit) was configured.</p>

Element	Description
"Reference" column	The reference value of the alert such as the price at the time when the alert was configured.
"Trigger" column	The price of the security that triggered the alert (for example, the exceeded limit).
"Type" column	The type of the alert, for example, "Upper" for the exceeding of the upper limit.
"Comment" column	The comment entered for the alert (if available).



You can sort the "Log" view by clicking the column headers.

5.1.5 "Rating" view in the "Alerts" widget

You can display your configured rating alerts in this view. You open the “Rating” view via the view selection at the top of the “Alerts” widget.

ALERTS 3


RATING

		LIMIT	RATING OPERATOR	RATING VALUE	VALID FROM	VALID TO	EXPIRED	EXERCISED	ACTIVE	
		MERCEDES-BENZ GRP NA O.N. (Xetra, DE0007100000, 710000): EUR 61.03								
		LT RATING FITCH	Equal	A	12.03.2025	12.04.2025			ACTIVE	
		SAP SE O.N. (Frankfurt, DE0007164600, 716460): EUR 249.00								
		LT RATING S&P	Change	--	12.03.2025	12.04.2025			ACTIVE	

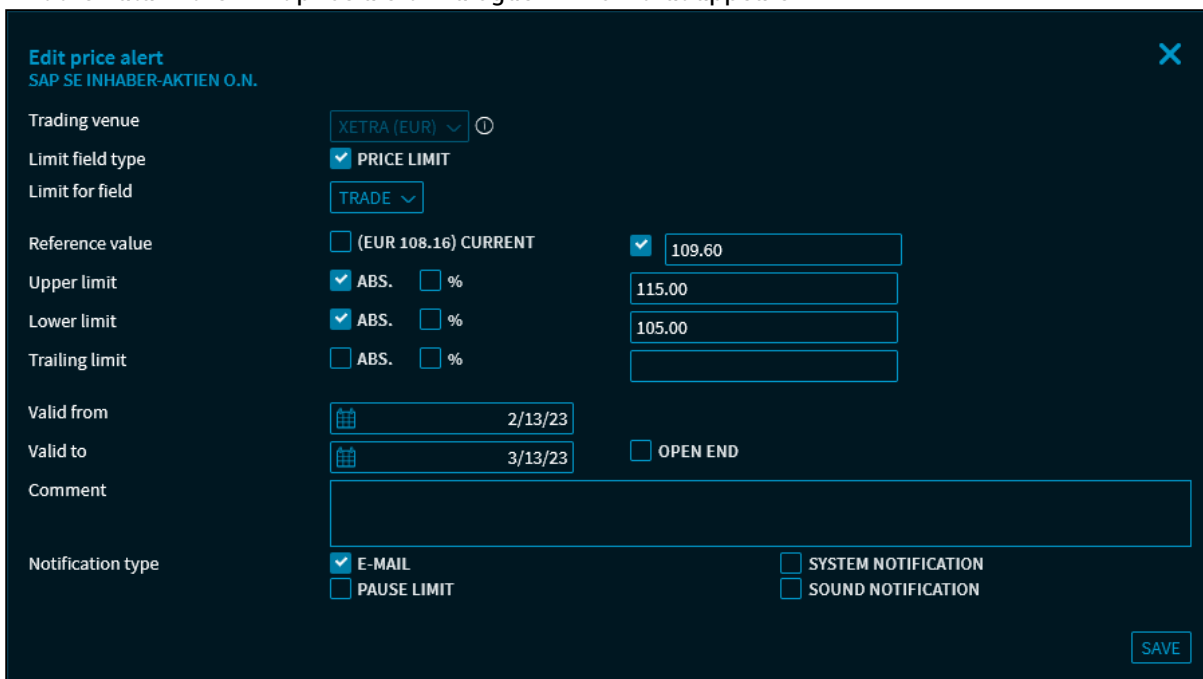
Please also read the [Rating alerts](#) section.

5.1.6 Edit price alerts

You can edit created price alerts at any time. To do this, follow these steps:

1. In the "Prices" view or the "Log" view of the "Alerts" widget, select the alert that you want to edit by selecting the corresponding checkbox.
2.  Then click the "Edit" icon.

3. Edit the data in the "Edit price alert" dialogue window that appears.



Edit price alert
SAP SE INHABER-AKTIE O.N.

Trading venue: XETRA (EUR) ⓘ

Limit field type: ☒ PRICE LIMIT

Limit for field: TRADE

Reference value: ☐ (EUR 108.16) CURRENT ☒ 109.60

Upper limit: ☒ ABS. ☐ % 115.00

Lower limit: ☒ ABS. ☐ % 105.00

Trailing limit: ☐ ABS. ☐ %

Valid from: 2/13/23

Valid to: 3/13/23 ☐ OPEN END

Comment:

Notification type: ☒ E-MAIL ☐ SYSTEM NOTIFICATION ☐ PAUSE LIMIT ☐ SOUND NOTIFICATION

SAVE

The fields correspond to those for the configuration of the price alert. For more information, see [Configure price alerts](#).

4. Click the "Save" button to save the changes.
The price alert changes accordingly.



When you edit price alerts and try to change the trading venue, the system displays a message ("Change not possible - delete and recreate alert if necessary"), because the instrument ID and the exchange form a unique key for the alert server.

5.1.7 Copy price alerts

You can copy created price alerts at any time. To do this, follow these steps:

1. In the "Price" view of the "Alerts" widget, select the alert by selecting the corresponding checkbox.
2. Then, click the "Copy" button.

The copies are added as new entries to the list and can now be edited.

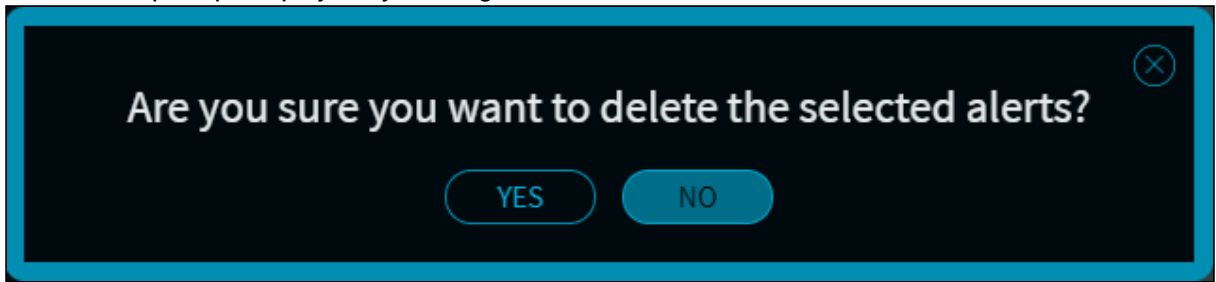
For more information, see [Edit price alerts](#).

5.1.8 Delete price alerts

You can delete your created price alerts at any time. To do this, follow these steps:

1. In the "Prices" view of the "Alerts" widget, select the alerts that you want to delete by selecting the corresponding checkboxes.
2. Then click the "Delete" button.

3. Confirm the prompt displayed by clicking the "Yes" button.



The selected alerts are deleted and removed from the list.


5.1.9 Show news alert as news search

To read the incoming news from your news alert:

1. In the "News" view of the "Alerts" widget, select the news alert that you want to edit by selecting the corresponding checkbox.
2. Next, click the "Show search" button.
The news for this news alert open in a ["News Search" widget](#).

5.1.10 Edit news alerts

You can edit saved alerts at any time. To do this, follow these steps:

1. In the "News" view of the "Alerts" widget, select the alert that you want to edit by selecting the corresponding checkbox.
2.  Then click the "Edit" icon.
3. In the "Save alert" dialogue window that appears, change the corresponding entries (start and/or end date).
4. Click the "Save" button to save the changes.
The news alert changes accordingly.

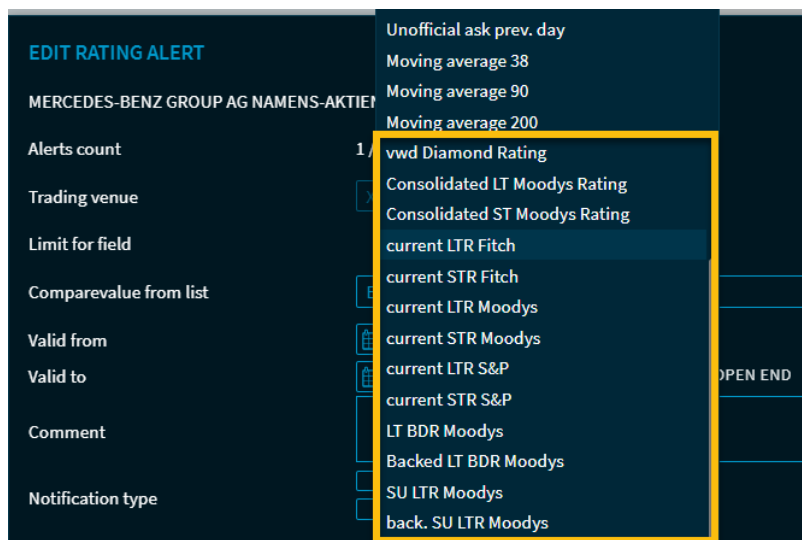
5.1.11 Delete news alerts

You can delete saved news alerts at any time. To do this, follow these steps:

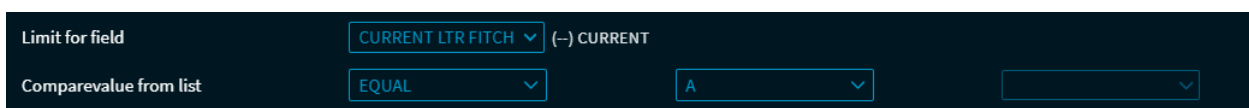
1. In the "News" view of the "Alerts" widget, select the alerts that you want to delete by selecting the corresponding checkboxes.
2. Then click the "Delete" button.
3. Confirm the prompt displayed by clicking the "Yes" button.
The selected news alerts are deleted and removed from the list.

5.1.12 Rating alerts

You can now define rating alerts for ratings.



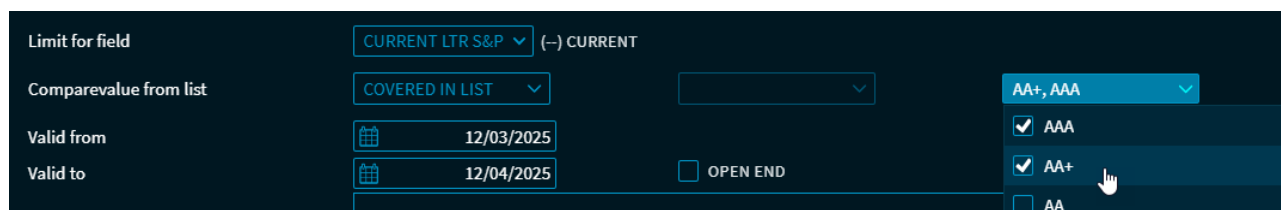
If you have selected a field of the type “Rating” in the field list in the “Edit price alert” dialog box, the following editing fields are available to you:



First select the so-called rating operator in the first selection list. The following operators are available:

- Change
- Equal
- Unequal
- Covered in list
- Not Covered in list
- Greater than
- Greater than or equal to
- Less than
- Less than or equal to

Depending on the selected operator, you can then use the other selection lists to select the desired ratings.



The list is static and does not depend on your authorizations so that you can set the alerts for ratings even if an instrument receives a rating, for example.

To display the defined rating alerts, please also read the [“Rating” view in the “Alerts” widget](#) section.

5.1.13 Signal alerts

Signal alerts (indicator alerts) are alerts based on the intersection of a price time series (e.g. close) with simple or exponential moving averages to identify buy or sell signals.

To create a new signal alert, proceed as follows:

1. Select the “Signal” type from the alert type drop-down list at the top of the “Alerts” widget.
2. Then select the “Instrument search” icon and search for the security you wish to monitor.

3. Configure your signal alert in the “New Signal Alert” dialogue box that appears.

3.

4. Finally, select the “Add” button.

The alert is activated and added to the list in the widget.

	NAME	INDICATOR	DATE FROM	DATE TO	CROSS DIRECTION	PERIOD	STATUS	COMMENT
<input type="checkbox"/>	VOLKSWAGEN AG VZO O.N.	SMA	13 Oct 2025	13 Nov 2025	Up	38	Active	–
<input type="checkbox"/>	SAP SE O.N.	SMA	8 Oct 2025	8 Nov 2025	Up	38	Hit	–

ALERTS SIGNAL								
<input type="checkbox"/>	NAME	INDICATOR	DATE FROM	DATE TO	CROSS DIRECTION	PERIOD	STATUS	COMMENT
<input type="checkbox"/>	VOLKSWAGEN AG VZO O.N.	SMA	13 Oct 2025	13 Nov 2025	Up	38	Active	–
<input type="checkbox"/>	SAP SE O.N.	SMA	8 Oct 2025	8 Nov 2025	Up	38	Hit	–



Only system notifications are supported for these alerts. The Infront Investment Manager must be running in the browser.

5.1.14 Configure e-mail notifications for price alerts

To receive e-mails to the e-mail address defined in the user profile when a price alert is triggered:

1. When configuring or editing your price alerts, select the "E-mail" checkbox in the "Notifications" area.
2. Save your settings.

Now, you will receive an e-mail to the address specified if the price alert is triggered. In addition to the triggering time of the alert, the corresponding price time is also listed in the sent e-mail, which is particularly helpful with delayed price data. Any comments entered for the alerts are also displayed in the e-mail.

5.1.15 Configure system notification for price alerts

To receive a system (that is, desktop) notification if a price alert is triggered:

1. In the [Settings](#) of your "Alerts" widget, select the "System notification" checkbox and save the settings.

SETTINGS

Push:

☒ ENABLED

System notification:

☒ ENABLED

In-app notification:

☐ ENABLED

Sound notification:

☒ ENABLED

Default validity:

1 MONTH

Upper limit alert sound:

TUNE

Lower limit alert sound:

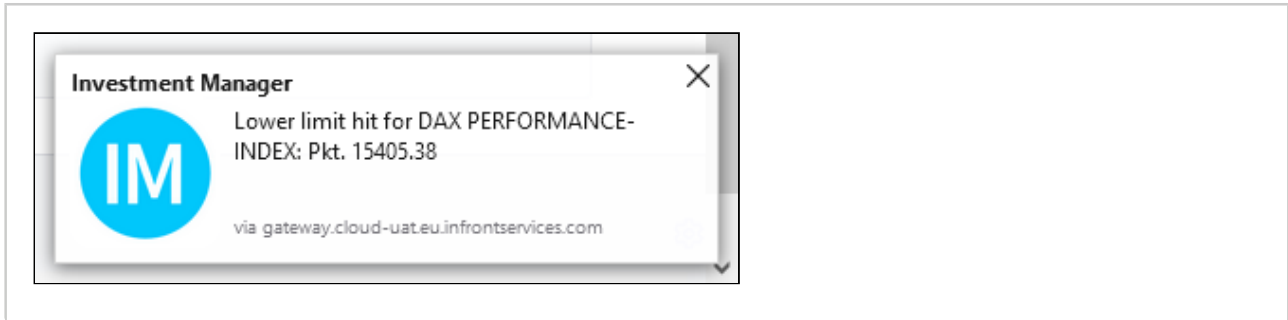
TUNE

SAVE CHANGES

2. When configuring or editing your alerts, select the "System notification" checkbox in the "Notifications" area and save the settings.

Now, you will receive a desktop notification in the notification area of your operating system if an alert is triggered.

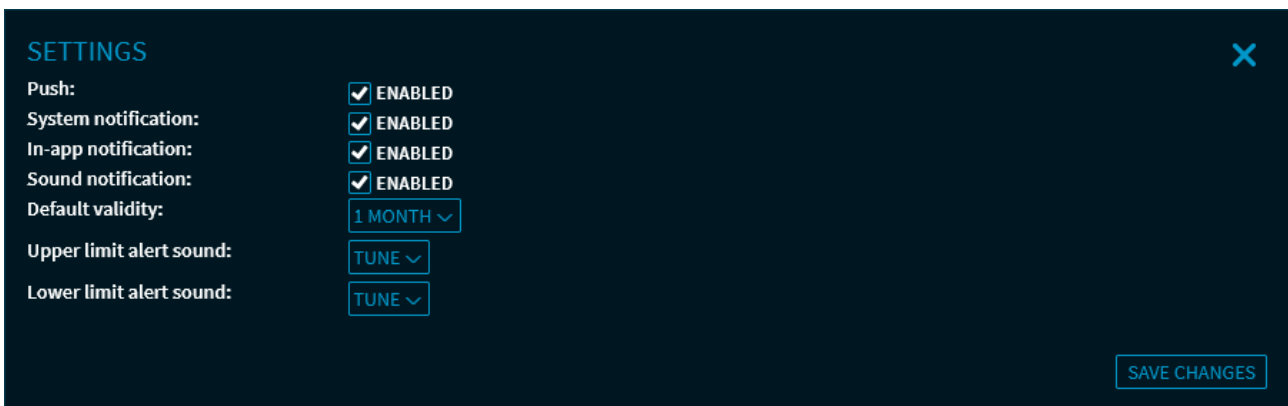
Example of a symple notification



5.1.16 Settings in the "Alerts" widget

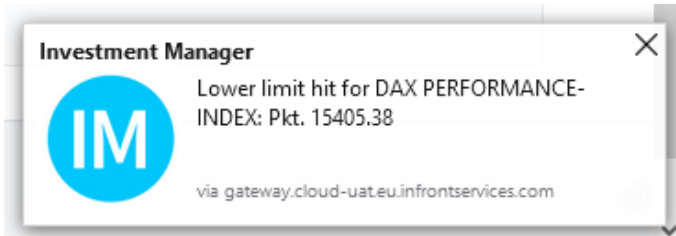


Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.



Here, you can make the following settings:

Field	Description
Push	Here, you can use the "Enabled" checkbox to enable or disable the push data feed.

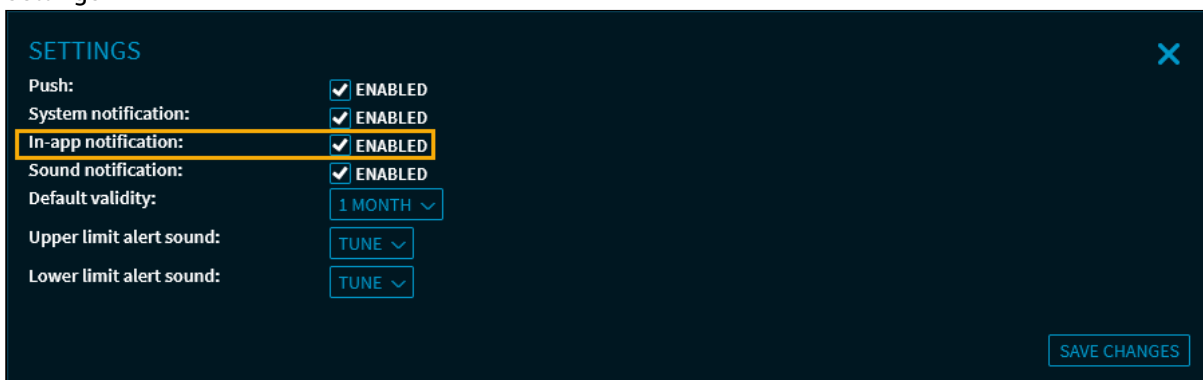
Field	Description
System notification	<p>Select this checkbox to receive system (desktop) notifications when a price or news alert is triggered. For this function, confirm the corresponding requests of your browser to allow notifications.</p> <p>In addition, you can specify if and what notifications you want to receive for each alert.</p> <p>For more information about the global notification settings, see Settings and profile.</p> <p>For example, use this setting to receive system notifications even if your browser window is minimised.</p> <div> <p>Example:</p>  </div>
In-app notification	<p>Select this checkbox to receive notifications in the browser when an alert is triggered.</p> <p>In addition, you can specify if and what notifications you want to receive for each price alert.</p> <p>For more information about the global notification settings, see Settings and profile.</p>
Sound notification	<p>Select this checkbox to receive sound when an alert is triggered. In the settings below, select the corresponding sound.</p> <p>In addition, you can specify if and what notifications you want to receive for each price alert.</p>

Field	Description
Default validity	<p>Specify the default validity period of your alerts. The default period is taken as initial value in the "Valid to" field when you create alerts.</p> <p>The following periods are available:</p> <ul style="list-style-type: none"> • 1 day • 3 days • 1 week • 2 weeks • 1 month (default setting) • 3 months • 6 months • 1 year • Unlimited
Upper limit alert sound	<p>From the drop-down list, select the notification sound to be played when the upper limit is exceeded. Various sounds are available:</p> <ul style="list-style-type: none"> • Tune • Snap • Car alarm
Lower limit alert sound	<p>From the drop-down list, select the notification sound to be played when the upper limit is exceeded. Various sounds are available:</p> <ul style="list-style-type: none"> • Tune • Snap • Car alarm

5.1.17 Configure in-app notifications for price alerts

To receive pop-up notifications in the application if a price alert is triggered:

1. In the [Settings](#) of your "Alerts" widget, select the "In-app notification" checkbox and save the settings.



SETTINGS

Push: ☒ ENABLED

System notification: ☒ ENABLED

In-app notification: ☒ ENABLED

Sound notification: ☒ ENABLED

Default validity: 1 MONTH ▾

Upper limit alert sound: TUNE ▾

Lower limit alert sound: TUNE ▾

[SAVE CHANGES](#)

2. When configuring or editing your alerts, select the "In-app notification" checkbox in the "Notifications" area and save the settings.

Now, you will receive a pop-up notification if an alert is triggered.

The notification boxes remain open until you close them.

5.1.18 Configure sound notifications for price alerts

To receive a sound notification if a price alert is triggered:

1. In the [Settings](#) of the "Alerts" widget, select one of three sounds for the upper and the lower limit and save the settings.

SETTINGS

Push: ☒ ENABLED

System notification: ☒ ENABLED

In-app notification: ☒ ENABLED

Sound notification: ☒ ENABLED

Default validity: 1 MONTH ▾

Upper limit alert sound: TUNE ▾

Lower limit alert sound: TUNE ▾

SAVE CHANGES

2. When configuring or editing your alerts, select the "Sound notification" checkbox in the "Notifications" area and save the settings.
Now, you will receive a sound notification if an alert is triggered. Make sure that your loudspeakers are turned on.

5.1.19 Export alerts

In addition to [exporting alert data as a CSV file](#), you can also export active price alerts in a special JSON format. An import of this exported data is possible afterwards.

The corresponding commands can be found in the menu icon of the "Alerts" widget.

ALERTS PRICES ▾

Symbol	Price	Date	Status
ESTX 50 PR.EUR (STOXX Ltd., EU0009658145, 965814): Pkt. 4,249.00	0.10	4,354.4433	Feb 13, 2023
EUR/CNY SPOT RATE (Forex vwd, EU0001458304, 965642): CNY 7.3377	6.70938	8.34552	Oct 24, 2019
MERCEDES-BENZ GRP NA O.N. (Xetra, DE0007100000, 710000): EUR 74.22	39.584	55.86	Nov 16, 2018
NESTLE N (Switzerland, CH0038863350, A0Q4DC): CHF 109.24	100.00	—	Feb 8, 2023
SAP SE O.N. (Xetra, DE0007164600, 716460): EUR 108.00	109.4904	110.696	Feb 13, 2023
SDAX PERFORMANCEINDEX (Xetra, DE0009653386, 965338): Pkt. 13,468.12			

EXPORT

CSV JSON

IMPORT

JSON

UTILITIES

DARK LIGHT

FEEDBACK

Is this widget useful?

😊 😐 😞 😡

5.2 Arbitrage

The "Arbitrage" widget shows the current prices of a share at all available trading venues in a table. This allows you to view all arbitrage possibilities at the most important global trading venues at a glance.

TRADING VENUE	CCY	TIME	DELAY	LAST PRICE	NET CHANGE	%	B-SIZE	BID	ASK	A-SIZE	CUM. TURNOVER
Xetra	EUR	12:46:22	RT	97.84	+1.97	+2.05%	523	97.84	97.92	225	2.2 m
Frankfurt	EUR	12:36:20	RT	97.93	+0.61	+0.63%	1,000	97.83	97.89	1,000	756.79 k
Stuttgart	EUR	12:45:13	RT	97.88	+0.82	+0.84%	1,000	97.83	97.89	1,000	152.63 k
Hamburg	EUR	11:03:36	RT	97.59	+1.06	+1.10%	523	97.84	97.92	225	10.44 k
Munich	EUR	08:04:50	RT	97.45	+0.66	+0.68%	500	97.83	97.90	500	1.27 k
Düsseldorf	EUR	08:10:30	RT	97.21	+0.73	+0.76%	520	97.71	98.01	520	–
Berlin	EUR	08:03:26	RT	97.58	+2.20	+2.31%	500	97.84	97.90	500	3.9 k
Hannover	EUR	08:05:40	RT	97.31	+0.29	+0.30%	523	97.84	97.92	225	–
Cboe U.S. Equities - BZX ...	USD	01/05/2023	DL	107.15	-0.20	-0.19%	0	0.00	0.00	0	139.45 m
Quotrix	EUR	12:21:06	RT	97.84	+1.20	+1.24%	520	97.81	97.91	520	85.55 k
Vienna	EUR	12:04:38	RT	97.84	+2.05	+2.14%	154	97.78	97.96	109	4.89 k
Milan	EUR	12:19:19	DL	97.82	+1.93	+2.01%	357	97.83	98.19	514	108.49 k
LS Exchange	EUR	12:51:01	RT	97.84	+0.49	+0.50%	26	97.84	97.92	26	336.22 k
Tradegate	EUR	12:49:10	RT	97.90	+0.51	+0.52%	500	97.82	97.90	500	2.31 m
CHI-X 4	EUR	28/04/2023	RT	89.27	-11.10	-9.25%	0	0.00	0.00	0	–
Switzerland	USD	28/04/2023	DL	2,700.00	+11.08	+1.00%	2	0.00	0.00	40	–


You can select any share with the security selection at the upper left.


By default, the arbitrage table has the following columns for the quotation of the security:

Column	Description
Trading venue	The name of the trading venue.
Ccy./Unit	<p>The currency of the quote is usually displayed here. For percentage-quoted bonds, "%" is displayed instead.</p> <p>If you would like to display the "actual currency" for such securities as well, you can drag the currency field with ID 48 into the list by using the "All Fields" widget.</p>
Time	The time of the last price determination.
Delay	<p>The symbols in this column indicate whether the data is displayed in real time or is delayed.</p> <ul style="list-style-type: none"> • RT: Real-time (real-time push) • RS: Real-time snap (real-time snap) • DL: Delayed (delayed push) • DS: Delayed snap <p>Point to the symbols to view the delay in minutes.</p>
Price	The price of the last trade of this share on the corresponding trading venue.
Net change	The absolute change of the current price from the "Paid" column compared to the previous day's close.
%	The change in percent of the current price from the "Paid" column compared to the previous day's close.
B-Amount	The current total bid quantity for this security.

Column	Description
Bid	The current bid price.
Ask	The current ask price.
A-Amount	The current total ask quantity for this security.
Cum. turnover	The total daily turnover of the security on the trading venue selected.

You can show or hide further columns by using the “Column configurator” area in the [Settings](#):

Column	Description
52-week comparison	<p>The comparison of the current price in relation to the high and low of the last 52 weeks.</p>  <p>The vertical bar in the chart symbolises the current price at that place; in the example, it is close to the 52-week high at both places.</p>
Number of trades	The number of trades on the current day.
ID	The ID of the instrument with the code for the corresponding trading venue, for example "555750.ETR" for the quotation of Deutsche Telekom on the XETRA trading venue or "710000.FFM" for Daimler on the Frankfurter stock exchange.
Name	The name of the security on the corresponding trading venue.
Daily low	The day's lowest price.
Daily high	The day's highest price.
Trend	The symbols in this column indicate the performance trend of the last 8 ticks.
Cum. volume (qty.)	The total volume of the quantity of the instrument traded.
Last volume (qty.)	The number of the last trade.

 The arbitrage table is sorted by the "Cum. turnover" column by default. To sort by a different column, click the corresponding column header. To reverse the sorting, click the column header again.
In the widget's settings, you can specify the time interval at which the sort order should be updated.

See also:

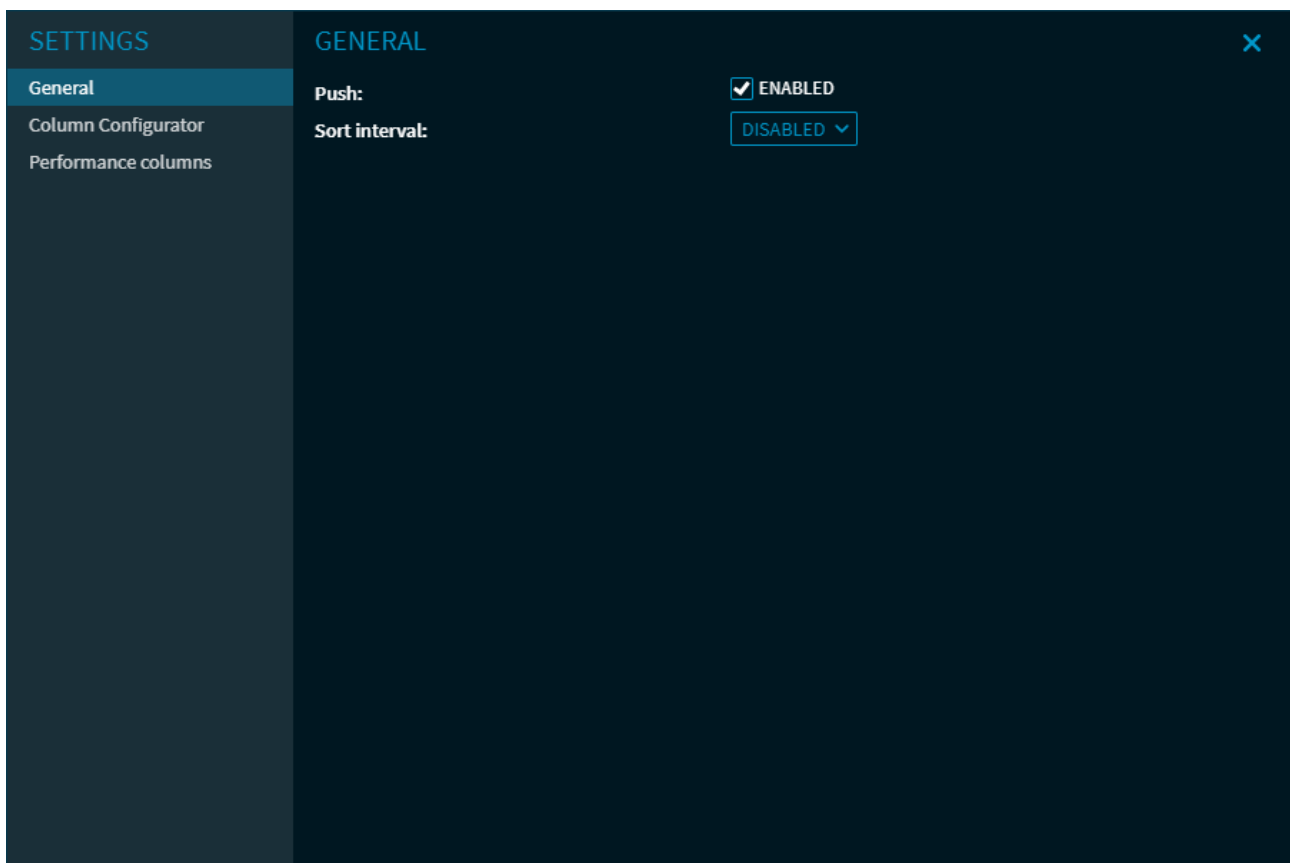
- [Settings in the "Arbitrage" widget](#)

5.2.1 Settings in the "Arbitrage" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



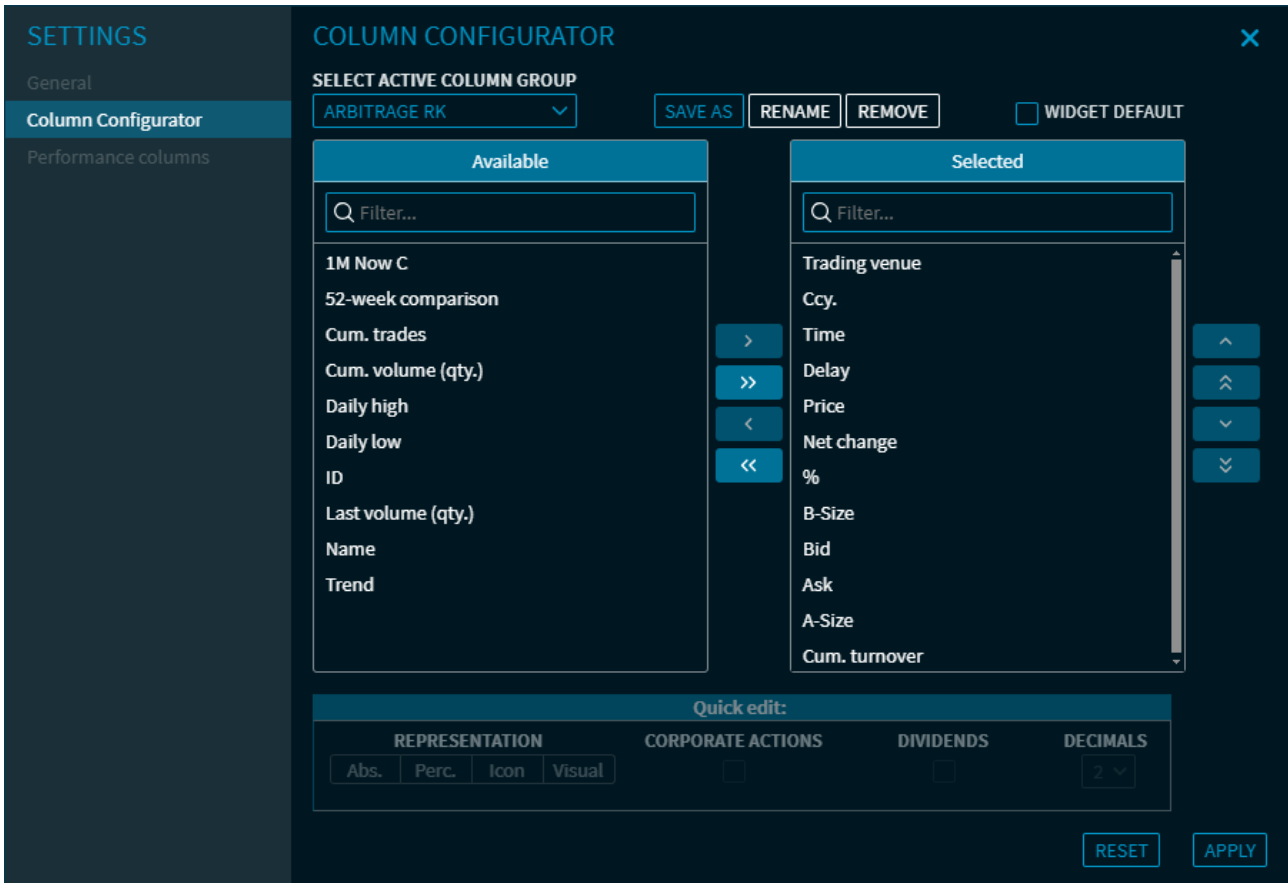
In the "Arbitrage settings" dialogue window, you can first select the area on the left side for which you want to configure your settings:

"General" area

In the "General" area, you can make the following settings:

- Enable or disable the push data feed
- Set sorting interval
Select the time interval (between 5 and 60 seconds) for updating the sorting of the arbitrage table.
With the "Disabled" setting (default), you can switch off the update.

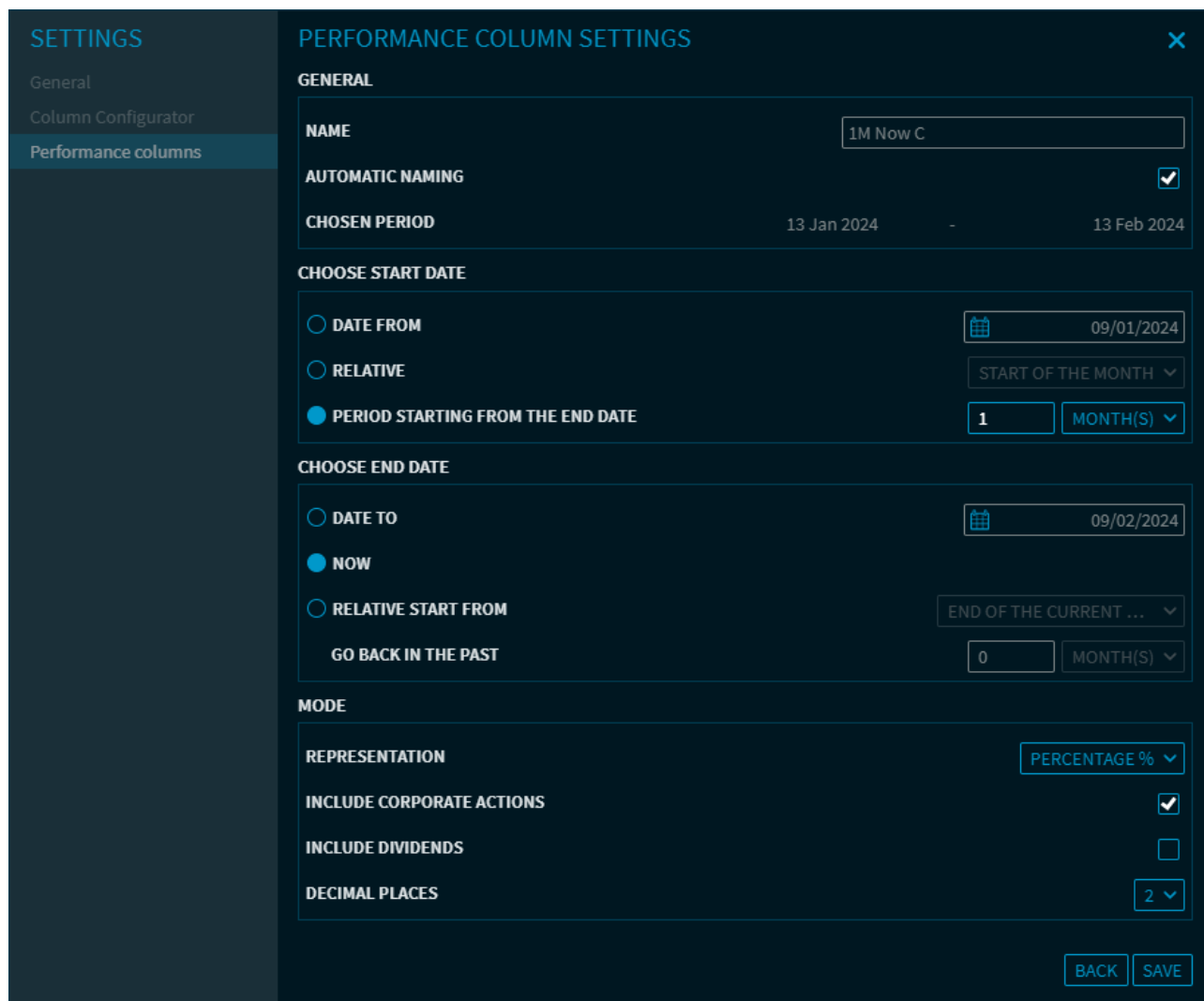
"Column configurator" area



The screenshot shows the "COLUMN CONFIGURATOR" window with a sidebar on the left containing "SETTINGS" (General, Column Configurator, Performance columns) and a main area. The main area has a "SELECT ACTIVE COLUMN GROUP" dropdown set to "ARBITRAGE RK", with "SAVE AS", "RENAME", and "REMOVE" buttons. A "WIDGET DEFAULT" checkbox is also present. Below this are two columns: "Available" and "Selected". The "Available" column lists various metrics like "1M Now C", "52-week comparison", "Cum. trades", etc. The "Selected" column lists metrics like "Trading venue", "Ccy.", "Time", "Delay", "Price", "Net change", etc. Between these columns are navigation buttons: ">", ">>", "<", and "<<". To the right of the "Selected" column are up/down arrow buttons. At the bottom, there is a "Quick edit:" section with tabs for "REPRESENTATION" (Abs., Perc., Icon, Visual), "CORPORATE ACTIONS", "DIVIDENDS", and "DECIMALS" (set to 2). "RESET" and "APPLY" buttons are at the bottom right.

In the "Column configurator" area, you can show or hide the columns of the table. You can use the column configurator to save column configurations individually and set a specific configuration as the default when creating a new widget. See also [Show and hide columns of the widgets via the settings](#) and [Column configurator](#).

“Performance columns” area



In the “performance columns” area, you have the option to add (up to 15) new columns to the arbitrage table for performance calculation.

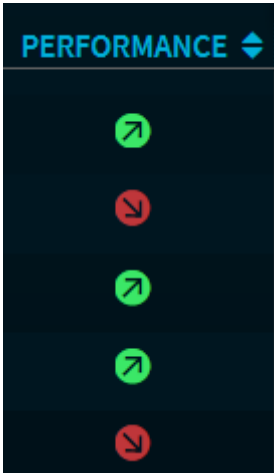

To do this, follow these steps:

1. On the left side of the arbitrage settings dialogue window, select the “performance columns” area.
2. In the “Name” input field, you can enter a custom name for the column header of the first custom column. However, this name can also be generated automatically (see the following table with the settings).
3. Then click the “Settings” button for this column.
4. Configure the new column. The table below contains descriptions of the individual setting options.
5. Then click the “Save” button. (Use the “Back” button to exit the settings for the period without saving any changes you may have made).
6. If you want to add more columns, click the “Add column” button performance columns columns” area and proceed in the same way.
You can delete your custom columns by using the corresponding “Delete” button.

The settings of the individual performance columns in detail:

General	
Field	Description
Name	Enter the relevant name for performance columns here.
Automatic naming	Enable this setting to automatically generate the name of the column. The name is generate depending on the time periods and start and end times set below.
Selected period	Here, you can see the always updated period of the performance calculation resulting from your settings. This data is not editable here.
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year
Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description

Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>
Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>
Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div> <p>Example</p> <p>In August 2020, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2020".</p> </div>
Mode	
Field	Description

Display	<p>Select the type of display for the performance values. The following variants are available:</p> <ul style="list-style-type: none"> • Absolute (default setting) • Percentage [%] • Trend icon  <ul style="list-style-type: none"> • Visual 
Include actions	<p>corporate [Selected by default]</p> <p>Clear this checkbox to take into account corporate actions incurred during the period in the performance calculation.</p>
Include dividends	<p>[Cleared by default]</p> <p>Select this checkbox to include dividends paid during the period in the performance calculation.</p>
Decimal places:	<p>Select how many decimal places (from 0 to 5) the performance columns should display.</p> <p>The default setting is 2 decimal places.</p>

For more information about the widget settings, see [Commands in the widget menu](#).

5.3 Assetmax Portfolio

The “Assetmax Portfolio” widget displays your portfolios managed in Assetmax in real time in Infront Investment Manager.

ASSETMAX PORTFOLIO															150882 MM	POSITIONEN	INVESTMENT CATEGORIES	Save as portfolio-risk																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
--------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----------	------------	-----------------------	------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Use the various views and categories in the selection lists at the top to configure the display.

Specifically, you will find the following elements in the upper area of the widget next to the standard icons:


Element	Description
Select portfolio	<p>In the upper left selection list, you can select and open a different portfolio.</p> <p>Depending on the selected setting, you will see all portfolios directly in a list for selection, or you can search for the desired portfolio.</p>
Select view	<p>You can change the portfolio view using the second selection list. The following views are available:</p> <ul style="list-style-type: none"> Positions Performance (Chart) Transactions Exposures Gainers/Losers Performance Tiles Chart Gallery Risk-Return Matrix <p>The name of the currently selected view is visible when collapsed.</p>
Select category	<p>Using the third selection list, you can choose the categories from Assetmax for structuring the view.</p>
<p>Icon “Open portfolio in Assetmax”</p>	<p>Select this icon to open the portfolio currently displayed in the widget directly in Assetmax.</p>

Element	Description
Portfolio name	On the left-hand side in the second row, you can always see which portfolio you have currently selected.
Total value	At the top right of the widget, you can see the current total value and the development over the current year, month and day in the second line.
Filter	You can filter the portfolio display in the filter field on the right-hand side.

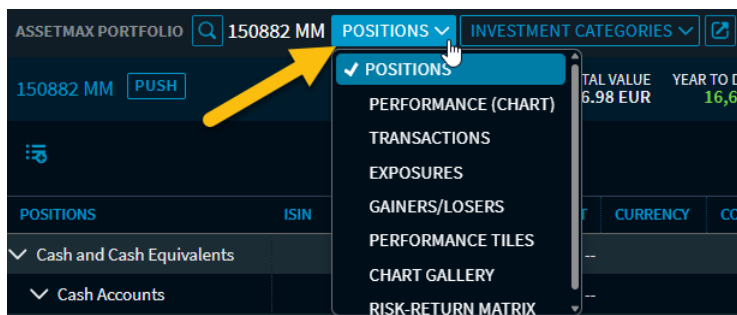
- [Assetmax login](#)
- [Views in the "Assetmax-Portfolio" widget](#)
- [Open portfolios in Assetmax](#)
- [Settings in the "Assetmax-Portfolio" widget](#)

5.3.1 Assetmax login

To connect to Assetmax, you must first log in with a valid Assetmax account. These login details are requested before opening the portfolios in the widget. Secure two-factor authentication is also supported here.

 You can store your Assetmax data (URL, Assetmax user and Assetmax password) in the settings. If necessary, read the section "[Assetmax](#)" area in the chapter "Settings and profile".

5.3.2 Views in the "Assetmax-Portfolio" widget



Using the view selection at the top of the "Assetmax Portfolio" widget, you can select different views and thus different functions, similar to the "Portfolio" widget. This section briefly introduces the individual views.

- ["Positions" view \(Assetmax Portfolio\)](#)
- ["Performance \(Chart\)" view \(Assetmax Portfolio\)](#)
- ["Transactions" view \(Assetmax Portfolio\)](#)
- ["Exposures" view \(Assetmax Portfolio\)](#)
- ["Gainers/Losers" view \(Assetmax Portfolio\)](#)
- ["Performance Tiles" view \(Assetmax Portfolio\)](#)
- ["Chart Gallery" view \(Assetmax Portfolio\)](#)
- ["Risk-Return Matrix" view \(Assetmax Portfolio\)](#)

"Positions" view (Assetmax Portfolio)

You can select the columns of the table using the column configurator in the settings. Select the "Positions" view in the view selection (default view). In the position overview, you can see all portfolio positions in a table. The structure is based on the category selected in the category selection (in the example image below, "Investment Categories"). For the individual positions, various functions and commands are available at the beginning of the rows via the familiar menu icon. For example, you can use the INSTRUMENT, TRANSACTIONS command to open a transaction list for the security.

ASSETMAX PORTFOLIO

150882 MM

POSITIONS

INVESTMENT CATEGORIES

Save as portfolio-risk

150882 MM

PUSH

TOTAL VALUE
2,128,006.98 EUR

YEAR TO DATE +0.01%
16,649.18 EUR

MONTH TO DATE +0.00%
1,571.54 EUR

DAY TO DATE +0.00%
0.62 EUR

Search...

POSITIONS	ISIN	SIMUL...	AMOUNT	CURRENCY	COST PR...	QUOTE	QUOTE (...	VAR. %	FX VAR.%	CONTR. ...	INST. PE...
▼ Cash and Cash Equivalents			--		--	--	--	±0.00%	--	±0.00%	±0.00%
▼ Cash Accounts			--		--	--	--	±0.00%	--	±0.00%	±0.00%
CHF Cash Account		0.00	0.00 CHF		--	1.00	1.00	±0.00%	0.00	±0.00%	±0.00%
EUR Cash Account		0.00	1,636,869.15 EUR		--	1.00	1.00	±0.00%	0.00	±0.00%	±0.00%
USD Cash Account		0.00	0.00 USD		--	1.00	1.00	±0.00%	0.00	±0.00%	±0.00%
▼ Equities			--		--	--	--	±0.00%	--	+1.30%	±0.00%
▼ Equity Europe			--		--	--	--	±0.00%	--	+1.34%	±0.00%
NOVARTIS N	CH0012005267	0.00	500.00 CHF		78.74	104.02	104.02	+32.11%	0.01981	+0.40%	+17.27%
Nestle S.A.	CH0038863350	0.00	500.00 CHF		86.42	73.88	73.88	-14.51%	0.01981	-0.01%	+2.21%
ROCHE HOLDING P	CH0012032048	0.00	100.00 CHF		252.90	278.75	278.75	+10.22%	0.01981	+0.14%	+10.13%
E.ON SE NA O.N.	DE000ENAG999	0.00	3,000.00 EUR		11.43	16.08	16.08	+40.68%	0.00	+0.69%	+48.35%
Münchener Rück NA	DE0008430026	0.00	50.00 EUR		195.90	558.20	558.20	+184.94%	0.00	+0.17%	+18.71%
Unilever PLC	GB00B10RZP78	0.00	250.00 GBP		44.50	43.72	43.72	-1.75%	-0.02849	-0.05%	-3.59%
▼ Equity North America			--		--	--	--	±0.00%	--	-0.03%	±0.00%
Berkshire Hathaway Inc. B	US0846707026	0.00	200.00 USD		294.41	498.20	498.20	+69.22%	-0.08745	-0.11%	+9.91%
HSBC MSCI WORLD UCL...	IE00B4X9L533	0.00	2,000.00 USD		25.065	43.17	43.17	+72.23%	-0.08745	+0.09%	+15.61%
Wells Fargo & Co	US9497461015	0.00	1,000.00 USD		60.21	80.87	80.87	+34.31%	-0.08745	+0.07%	+15.13%
Apple	US0378331005	0.00	100.00 USD		164.19	255.45	255.45	+55.58%	-0.08745	-0.10%	+2.37%
Bank of America Corp	US0605051046	0.00	500.00 USD		39.70	50.68	50.68	+27.66%	-0.08496	+0.02%	+15.31%
▼ Fixed Income											

You can select the columns of the table using the column configurator in the [settings](#).

"Performance (Chart)" view (Assetmax Portfolio)

Select the "Performance (Chart)" view in the view selection to display the development of the portfolio as a performance chart.



Use the selection list at the top left of the chart to select the desired time interval for the chart display.

You can use the magnifying glass icon on the right-hand side to search for a comparative value and display it in the chart.



"Transactions" view (Assetmax Portfolio)

ASSETMAX PORTFOLIO <input type="text" value="150882 MM"/> TRANSACTIONS Save as portfolio-risk										
150882 MM PUSH		TOTAL VALUE 2,128,006.98 EUR		YEAR TO DATE +0.01% 16,649.18 EUR		MONTH TO DATE +0.00% 1,571.54 EUR		DAY TO DATE +0.00% 0.62 EUR		
#	NAME	DELIVERED	OP. TYPE	TRADE D...	VALUE D...	STATUS	QTY ORDER	AMT. EXEC	PRICE SIM.	PRICE EX...
1	JP Morgan Deut...			--	--					
2	EQ Microsof...		Sell	09/04/2025	11/04/2025	Reconciled	-200.00	-200.00	355.57	355.57
3	EQ Microsof...		Buy	02/04/2025	04/04/2025	Reconciled	100.00	100.00	375.39	375.39
4	EQ Bank of ...		Buy	17/06/2024	17/06/2024	Reconciled	500.00	500.00	39.70	39.70
5	BND US TREA...		Buy	17/06/2024	19/06/2024	Reconciled	2,000.00	2,000.00	105.79	105.79
6	EQ ROCHE ...		Buy	15/06/2024	18/06/2024	Reconciled	100.00	100.00	252.90	252.90
7	FRN BUNDE...		Buy	15/06/2024	18/06/2024	Reconciled	2,000.00	2,000.00	98.75	98.75
8	EQ NOVART...		Buy	15/06/2024	18/06/2024	Reconciled	500.00	500.00	78.74	78.74
9	BND UK TRE...		Buy	15/06/2024	18/06/2024	Reconciled	2,000.00	2,000.00	46.82	46.82
10	FRN US TREA...		Buy	15/06/2024	18/06/2024	Reconciled	1,000.00	1,000.00	101.70	101.70
11	EQ Microsof...		Buy	15/06/2024	18/06/2024	Reconciled	100.00	100.00	280.16	280.16
12	BND 1.375% ...		Buy	15/06/2024	18/06/2024	Reconciled	1,000.00	1,000.00	90.67	90.67
13	EQ Berkshir...		Buy	15/06/2024	18/06/2024	Reconciled	200.00	200.00	294.41	294.41
14	EQ Wells Fa...		Buy	15/06/2024	18/06/2024	Reconciled	1,000.00	1,000.00	60.21	60.21



You can also open the transaction list for a single security. To do this, select the INSTRUMENT, TRANSACTIONS command in the "3-dot menu" of the instrument in the 'Positions' view.

"Exposures" view (Assetmax Portfolio)

ASSETMAX PORTFOLIO

150882 MM

EXPOSURES

INVESTMENT CATEGORIES

Save as portfolio-risk

150882 MM

PUSH

TOTAL VALUE

2,128,006.98 EUR

YEAR TO DATE +0.01%

16,649.18 EUR

MONTH TO DATE +0.00%

1,571.54 EUR

DAY TO DATE +0.00%

0.62 EUR

CASH AND CASH EQUIVALENTS

76.92%

EQUITIES

22.77%

FIXED INCOME

0.31%

"Gainers/Losers" view (Assetmax Portfolio)

In the 'Assetmax Portfolio' widget, you can also display the securities in a portfolio as top flop lists. To do this, select the "Gainers/Losers" view in the view selection.

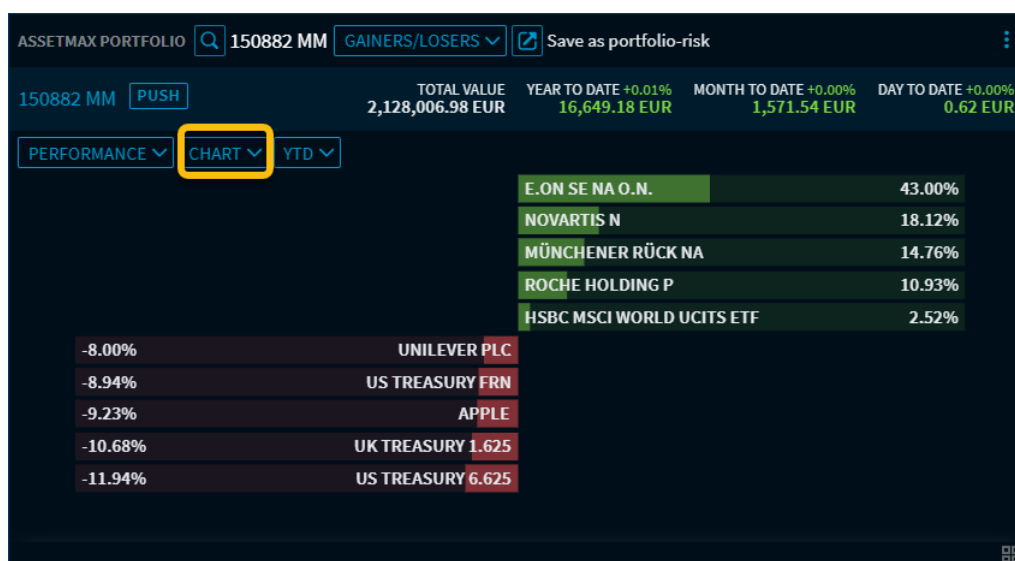
ASSETMAX PORTFOLIO		150882 MM	GAINERS/LOSERS	Save as portfolio-risk	
150882 MM	PUSH	TOTAL VALUE 2,128,006.98 EUR	YEAR TO DATE +0.01% 16,649.18 EUR	MONTH TO DATE +0.00% 1,571.54 EUR	DAY TO DATE +0.00% 0.62 EUR
PERFORMANCE	TABLE	YTD			
Tops					%
E.ON SE NA O.N.		EUR			+43.00%
NOVARTIS N		CHF			+18.12%
Münchener Rück NA		EUR			+14.76%
ROCHE HOLDING P		CHF			+10.93%
HSBC MSCI WORLD UCITS ETF		USD			+2.52%
Flops					%
Unilever PLC		GBP			-8.00%
US TREASURY FRN		USD			-8.94%
Apple		USD			-9.23%
UK TREASURY 1.625		GBP			-10.68%
US TREASURY 6.625		USD			-11.94%

This view shows the 5 biggest winners ("Tops") and the 5 biggest losers ("Flops"). By default, performance is calculated using the "Percentage change" key figure (column "%") for the time interval selected in the third selection list above.

Using the first selection list for the tops and flops, you can choose between "Performance" and "Contribution".

In addition, the second selection list allows you to switch between table and chart views.

Tops and flops as a chart:



"Performance Tiles" view (Assetmax Portfolio)

In Infront Investment Manager, you can switch to the popular "Performance Tiles" view for securities lists in many widgets, including the "Assetmax Portfolio" widget. To do this, select the "Performance Tiles" option in the view selection.



ASSETMAX PORTFOLIO		150882 MM	PERFORMANCE TILES	TODAY	Save as portfolio-risk
150882 MM		PUSH	TOTAL VALUE 2,128,006.98 EUR		YEAR TO DATE +0.01% 16,649.18 EUR
			MONTH TO DATE +0.00% 1,571.54 EUR		DAY TO DATE +0.00% 0.62 EUR
Search...					
NOT	→	NESR	→	RHO5	→
CHF	104.16	CHF	74.03	CHF	283.00
				EUR	15.875
				EUR	549.00
				GBX	4,357.00
BRYN	→	H4ZJ	→	NWT	→
EUR	-0.70	USD	43.4183	EUR	70.53
423.50	-0.17%			USD	255.45
				EUR	43.30
				EUR	99.57
					+0.00%
SI9S	→	190302	→	AOT57Y	→
EUR	94.995	USD	104.17	USD	104.33
				0.10	+0.10%
				1.00	±0.00%
				1.00	±0.00%
				1.00	±0.00%
				1.00	±0.00%

All securities in the current Assetmax portfolio are displayed as individual "Performance Tiles".

In the "Performance Tiles" view, you can select an evaluation period for the tiles using a selection list for the securities (here "Today").

"Chart Gallery" view (Assetmax Portfolio)

Select the "Chart Gallery" view in the view selection to display the securities in the Assetmax portfolio as individual charts in a chart gallery.

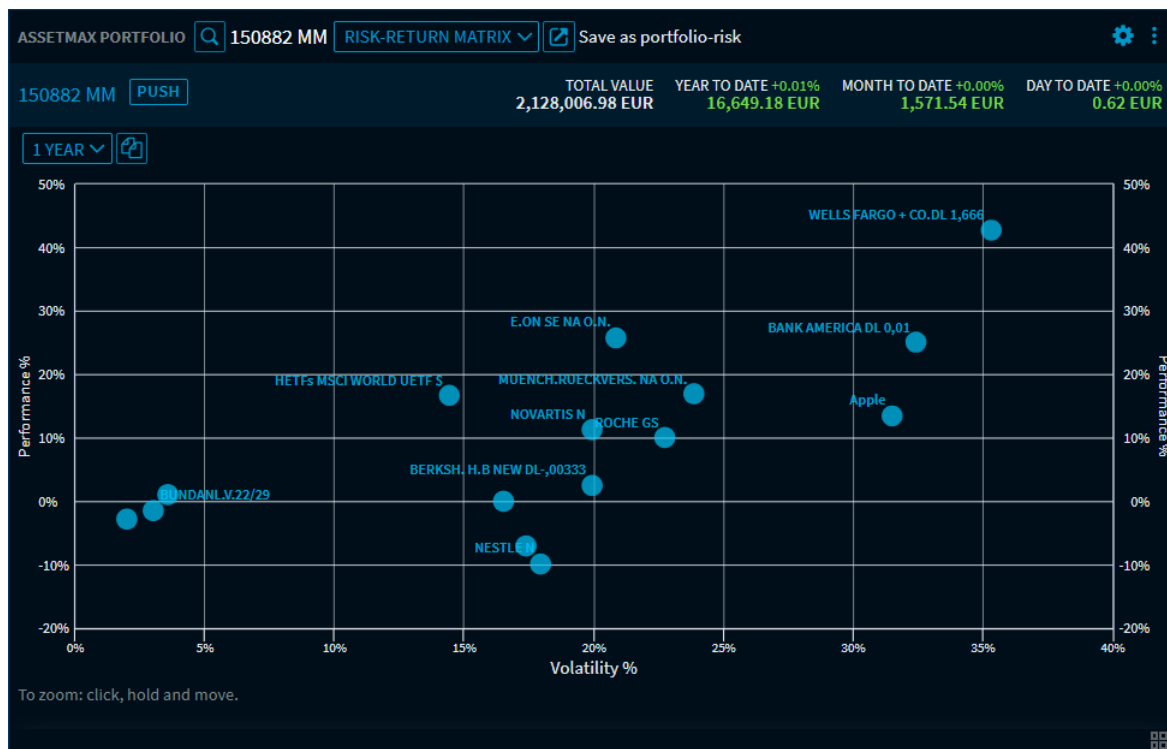


In the chart gallery, you can see the chart for each security in the portfolio, including the security name, price and absolute and percentage price performance over the period.

Charts for securities with positive price performance are shown in green, while those with negative price performance are shown in red.

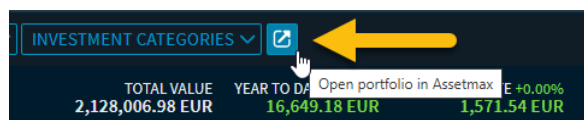
"Risk-Return Matrix" view (Assetmax Portfolio)

Select the "Risk-Return Matrix" view in the view selection to display the securities in the Assetmax Portfolio as a risk-return matrix.



The risk-return matrix integrated into the “Assetmax Portfolio” widget corresponds to the matrix in the “Risk-Return Matrix” widget, so please also refer to the section on the [Risk-Return Matrix](#) if necessary.

5.3.3 Open portfolios in Assetmax



Using the “Open portfolio in Assetmax” icon, you can open your portfolio currently open in the widget directly in Assetmax and edit it there if necessary.

5.3.4 Settings in the “Assetmax-Portfolio” widget

Click on the “Widget settings” icon to open the “Settings” dialogue box for configuring the widget.

Alternatively, you can use the “Settings” command in the widget menu.

Configure the “Assetmax Portfolio” widget here. The settings options are grouped into several areas, which you can select on the left-hand side:

- General
- Column configurator

General settings

In the “General” section, you can decide whether or not you want to display all portfolios visible to you from Assetmax in the portfolio selection list in the widget.

Drag the “Show all portfolios” slider to the right and then select the “Apply” button that is now visible to confirm that you want to display the portfolios in the widget in the selection list.

By default, not all portfolios are displayed directly in the selection list, but you can search for and select portfolios.

Column configurator

You can show and hide columns in tables using the column configurator familiar from other widgets. For more information, see the sections [Show and hide columns of the widgets via the settings](#) and [Column configurator](#).

General information about widget settings can be found in the section [Commands in the widget menu](#).

5.4 Bond Data

BASIC INFORMATION		ISSUE INFORMATION		PRICES	
Name	ADIDAS AG ANL 20/35	Name	ADIDAS AG ANL 20/35	Last price	72.008 %
ISIN	XS2224621420	Issuer name	ADIDAS AG	Net change	-0.091
WKN	A3H2X1	Issuer type	Unternehmen (anderweitig nicht genannt): Unternehmen+Priv.-Pers.	%	-0.1262
LEI	549300JSX0Z4CW0V5023	Issue date	08/09/2020	Bid / Ask price	72.052 / 72.705
Type	Bond	Issue price	99.36	Bid / Ask size	100.00 k / 100.00 k
Category	Banks/Insurance bonds	Issue volume	500.00 m	Bid / Ask time	11:00:40 / 11:00:40
Sector Name	Manufacture of other wearing apparel and accessories	Issuing currency	EUR	Spread abs./rel.	0.653 EUR / 0.89815 %
Sector Category	Manufacturing			Open / Close	71.956 / 72.099
Currency	EUR			High / Low	72.008 / 71.627
Quotation	Prozent			Cum. volume (qty.)	0.00
Nominal value	100,000.00			Last rate indicator	G
				Prev. day close date	27/11/2023
				Prev. day total volume	0.00

Similar to the "Fund Data" and "Certificate Data" widgets, the "Bond Data" widget provides the most important data for bonds.



Depending on the activation, you can choose between the different sources "WM" and "EDI" at the top of the widget.

At the top of the "Bond Data" widget, select the relevant bond by using the integrated quick search. Also at the top of the 'Bond data' widget, choose the desired trading venue from the corresponding selection list.

With the corresponding activation, the "Bond Data" widget with the following views for the analysis of bonds is available to you:

- Basic information
- Issue information
- Key figures
- Prices
- Coupon
- Call option
- Ratings
- Infront key figures



You can select between these views at any time by using the drop-down lists at the top left of each subwindow.

5.4.1 Basic information

BASIC INFORMATION ▼	
Name	ADIDAS AG ANL 20/35
ISIN	XS2224621420
WKN	A3H2X1
LEI	549300JSX0Z4CW0V5023
Type	Bond
Category	Banks/Insurance bonds
Sector Name	Manufacture of other wearing apparel and accessories
Sector Category	Manufacturing
Currency	EUR
Quotation	Prozent
Nominal value	100,000.00
Real time Update: 28 Nov 2023, 11:03:32 Last price update: 28 Nov 2023, 10:03:05	




5.4.2 Issue information

ISSUE INFORMATION ▾	
Name	ADIDAS AG ANL 20/35
Issuer name	ADIDAS AG
Issuer type	Unternehmen (anderweitig nicht genannt): Unternehmen+Priv.-Pers.
Issue date	08/09/2020
Issue price	99.36
Issue volume	500.00 m
Issuing currency	EUR

5.4.3 Key figures

KEY FIGURES ▾		
Accrued interest		0.1383
Dirty Price		72.2616
Convexity		132.693
90 day volatility		10.273 %
Duration in years		11.285
Modified Duration		10.8925
Day count convention		ACT/ACT

5.4.4 Prices

PRICES ▾	
Last price	72.008 % 
Net change	-0.091
%	-0.1262
Bid / Ask price	72.003 / 72.684  
Bid / Ask size	100.00 k / 100.00 k
Bid / Ask time	11:05:38 / 11:05:38
Spread abs./rel.	0.653 EUR / 0.89815 %
Open / Close	71.956 / 72.099
High / Low	72.008 / 71.627
Cum. volume (qty.)	0.00
Last rate indicator	G
Prev. day close date	27/11/2023
Prev. day total volume	0.00

5.4.5 Coupon

COUPON ▾	
Interest rate	0.625 %
Maturity date	10/09/2035
First coupon date	10/09/2021
Next coupon date	10/09/2024
Last coupon date	10/09/2035
Type	fixed
Coupon frequency	anually
Redemption price	100.00

5.4.6 Call option

BOND DATA 🔍 HOCHTIEF AG MTN 19/27 STUTTGART (EUR) ▾	
EDI ▾	
CALL OPTION ▾	

5.4.7 Ratings

Depending on the activation, the ratings (long/short) of the following agencies are displayed.

- Moody's
- S&P
- Fitch

BOND DATA

ADIDAS AG ANL 22/29

WM

RATINGS

LONG SHORT

MOODY'S	S&P	FITCH
Aaa	AAA	AAA
Aa1	AA+	AA+
Aa2	AA	AA
Aa3	AA-	AA-
A1	A+	A+
A2	A	A
A3	A-	A-
Baa1	BBB+	BBB+
Baa2	BBB	BBB
Baa3	BBB-	BBB-
Ba1	BB+	BB+
Ba2	BB	BB
Ba3	BB-	BB-
B1	B+	B+
B2	B	B
B3	B-	B-
Caa1	CCC+	CCC
Caa2	CCC	
Caa3	CCC-	
Ca	CC	CC
C	C	C
	D	D
	D	D
	D	D

Real time

Update: 12 Feb 2024, 14:16:54

Last price update: 12 Feb 2024, 14:04:17

GO

BOND DATA

ADIDAS AG ANL 22/29

WM

RATINGS

LONG SHORT

MOODY'S	S&P	FITCH
P-1	A-1+	F1+
	A-1	F1
P-2	A-2	F2
P-3	A-3	F3
NOT PRIME	B	B
	C	C
	D	D

Real time

Update: 12 Feb 2024, 14:16:54

Last price update: 12 Feb 2024, 14:04:17

GO

If a rating has changed compared to the previous one, this is indicated by a corresponding arrow.

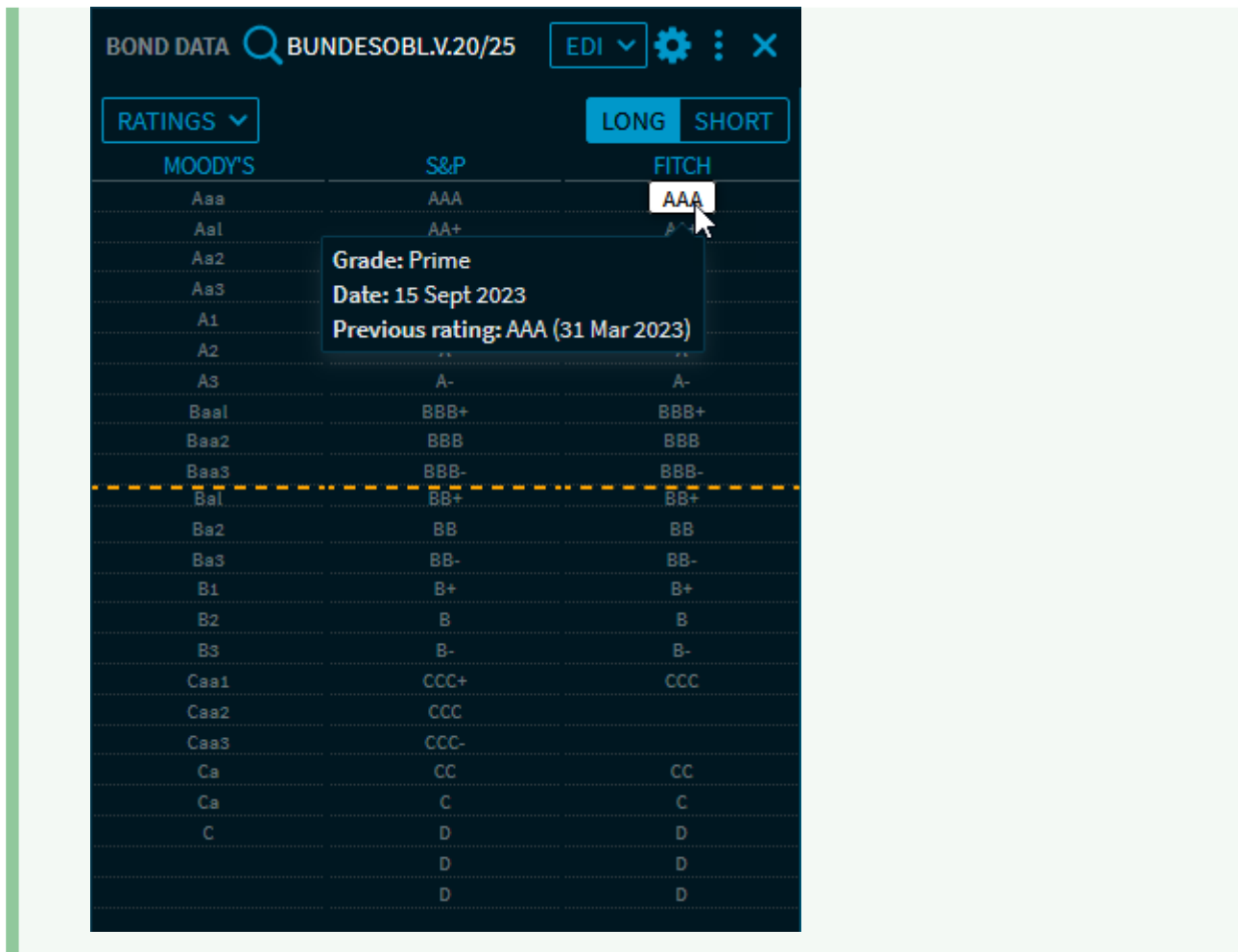
RATINGS ▼			LONG	SHORT
MOODY'S	S&P	FITCH		
Aaa	AAA	AAA		
Aa1	AA+	AA+		
Aa2	AA	AA		
Aa3	AA-	AA-		
A1	A+	A+		
A2	A	A		
A3	A-	A-		
Baa1	▼ BBB+	BBB+		
Baa2	BBB	BBB		
Baa3	BBB-	BBB-		
Ba1	BB+	BB+		
Ba2	BB	BB		
Ba3	BB-	BB-		
B1	B+	B+		
B2	B	B		
B3	B-	B-		
Caa1	CCC+	CCC		
Caa2	CCC			
Caa3	CCC-			
Ca	CC	CC		
Cb	C	C		
C	D	D		
	D	D		
	D	D		

Below the "orange line" are the ratings for junk bonds.

RATINGS ▼			LONG	SHORT
MOODY'S	S&P	FITCH		
Aaa	AAA	AAA		
Aa1	AA+	AA+		
Aa2	AA	AA		
Aa3	AA-	AA-		
A1	A+	A+		
A2	A	A		
A3	A-	A-		
Baa1	BBB+	BBB+		
Baa2	BBB	BBB		
Baa3	BBB-	BBB-		
Ba1	▼ BB+	BB+		
Ba2	BB	BB		
Ba3	BB-	BB-		
B1	B+	B+		
B2	B	B		
B3	B-	B-		
Caa1	CCC+	CCC		
Caa2	CCC			
Caa3	CCC-			
Ca	CC	CC		
Cb	C	C		
C	D	D		
	D	D		
	D	D		



Point to a rating with the mouse to display a tooltip with detailed information on the corresponding rating.




BOND DATA **BUNDESOBL.V.20/25** **EDI** **LONG** **SHORT**

RATINGS **MOODY'S** **S&P** **FITCH**

MOODY'S	S&P	FITCH
Aaa	AAA	AAA
Aa1	AA+	AA+
Aa2		
Aa3		
A1		
A2		
A3	A-	A-
Baa1	BBB+	BBB+
Baa2	BBB	BBB
Baa3	BBB-	BBB-
Ba1	BB+	BB+
Ba2	BB	BB
Ba3	BB-	BB-
B1	B+	B+
B2	B	B
B3	B-	B-
Caa1	CCC+	CCC
Caa2	CCC	
Caa3	CCC-	
Ca	CC	CC
Ca	C	C
C	D	D
	D	D
	D	D

Grade: Prime
Date: 15 Sept 2023
Previous rating: AAA (31 Mar 2023)

5.4.8 Infront key figures



BOND DATA **HEIDELB.MAT. MTN 24/31** **STUTTGART (EUR)** **EDI** **INFRONT KEY FIGURES**

	BID	MID	ASK
Yield till maturity	--%	--%	--%

Real time | Updated: 18 Mar 2025, 10:58:56 | Last price update: 18 Mar 2025, 10:04:26

If you have licensed the key figures calculated by *Quant*, you will see the following key figures in this view (if available for the respective bond):

- Yield to maturity

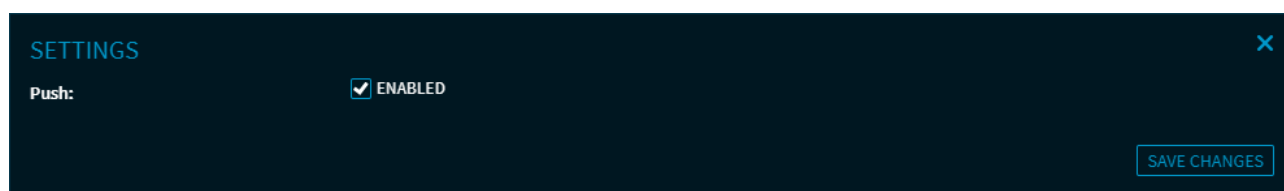
- Macaulay Duration

Additional key figures can be displayed here. For example, a separate package containing bond data calculated by Infront Quant is available exclusively for Italian bonds.

See also:

- [Settings widget "Bond Data"](#)

5.4.9 Settings widget "Bond Data"



Use the checkbox "Enabled" to enable or disable the push data for this widget.

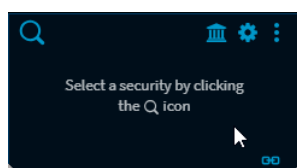
5.5 ESG Sector Scores

This ESG widget shows you overviews of sector scores.

ESG SECTOR SCORES					
No sector ▾					SECTORS SCORES
NAME	ENV.	SOC.	GOV.	↓ GLOBAL	
Financials	63	51	73	🟡 65	
Real Estate	61	45	69	🟡 63	
Consumer Consumables	61	59	70	🟡 63	
Utilities	55	63	72	🟡 63	
Industrials	57	54	71	🟡 62	
Energy	55	60	73	🟡 62	
Healthcare	57	55	70	🟡 60	
Technology	57	52	71	🟡 60	
Consumer Durables	59	52	69	🟡 60	
Materials	53	56	72	🟡 59	

You can also select a sector from the sector selection list to gain a deeper insight into the sub-sectors within that industry.

5.6 Focus Tile



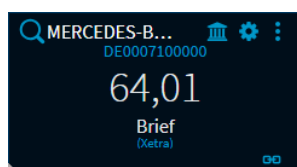
In this compact widget, you can select a security using the integrated instrument search. If necessary, select the desired trading venue from the selection list.

As with the Performance Tile, the functions in the header are only displayed when the mouse is pointed at the widget.

You can also use the widget settings to define which security indicator should be displayed:

- Long description
- Short description
- ISIN
- Symbol
- Valor

For example, drag and drop a field from the "All Fields" widget into the "Focus Tile" widget.



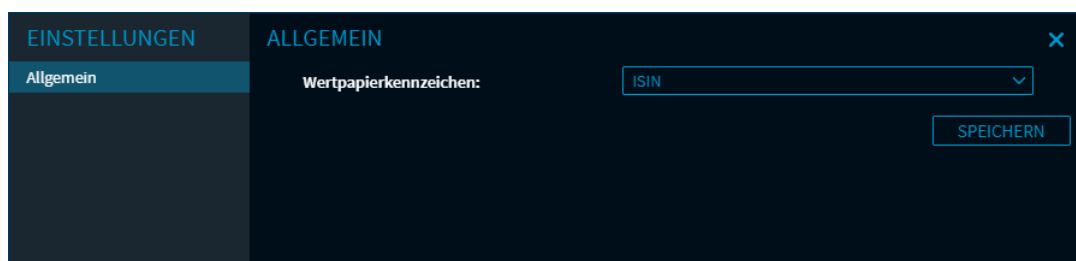
Use this widget for quick linking or grouping, for example.

- [Settings in the "Focus Tile" widget](#)

5.6.1 Settings in the "Focus Tile" widget

Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



You can make the following settings in the "Settings" dialogue window:

Scroll Table Layout | widths = 25%,75% | sortEnab...

Field	Description
Identifier	Select here which information should be displayed in the widget. The following values are available for selection: <ul style="list-style-type: none">• Description• Short description• ISIN• Symbol• Valor

5.7 Macroeconomic Calendar

All important economic data is displayed in the “Macroeconomic Calendar” widget. You can use the filter options at the top of the widget to filter by time periods, categories, regions or countries.

MACROECONOMIC CALENDAR						
1 WEEK	SELECT CATEGORIES	REGIONS	COUNTRIES	RESET		
TIME	COUNTRY	CATEGORY	HEADLINE	ANNOUNCED	PREVIOUS	FORECAST
29 Aug 2024						
12:30	SA	Money	M3 Money Supply YoY	7.90 %	9.00 %	–
12:30	SA	Money	Private Bank Lending YoY	11.70 %	11.30 %	11.50 %
01:01	GB	Business	Car Production YoY	-14.40 %	-26.60 %	-11.50 %
01:50	JP	Money	Stock Investment by Foreigners	-438.30 B	-47.50 B	–
01:50	JP	Money	Foreign Bond Investment	1.54 K B	1.85 K B	–
02:00	SK	Government	Slovak National Uprising Anniversary	–	–	–
2 Sept 2024						
08:00	DE	Consumer	Retail Sales YoY	–	-0.60 %	1.10 %
08:00	DE	Consumer	Retail Sales MoM	–	-1.20 %	0.40 %
29 Aug 2024						
12:00	IE	Prices	Wholesale Prices YoY	5.40 %	2.80 %	4.10 %
12:00	IE	Prices	Wholesale Prices MoM	0.20 %	2.30 %	1.70 %
2 Sept 2024						
15:00	KW	Money	M2 Money Supply YoY	1.86 %	1.20 %	–

The following regions can also be selected in the “region” selection list in the “Macroeconomic Calendar” widget:

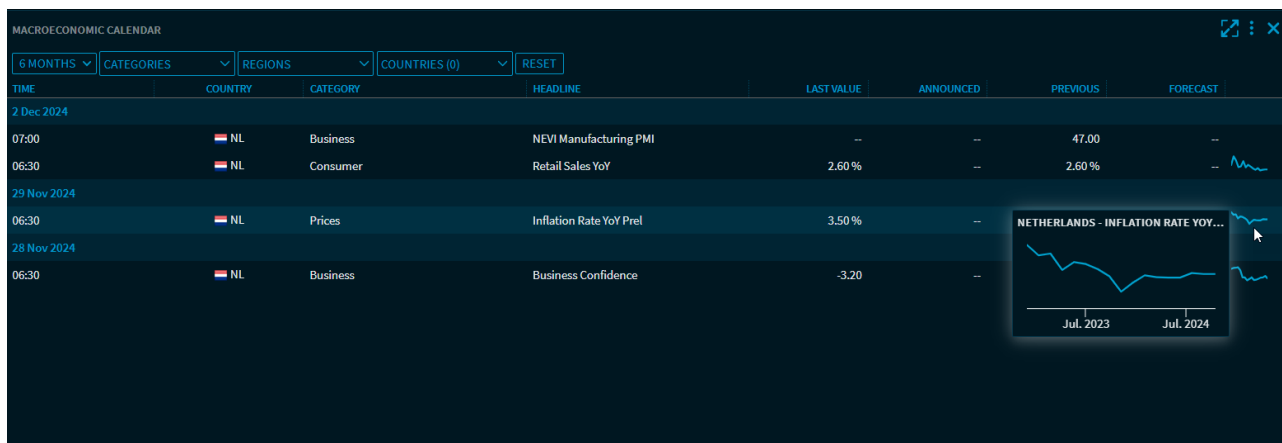
- Europe
- America
- Asia
- Germany
- G7 Countries
- G8 Countries
- Emerging Markets Asia
- Emerging Markets Europe
- Emerging Markets Latin America
- Emerging Markets Middle East and Africa
- Other
- Euro Zone
- World



A message appears at the top of the “Macroeconomic Calendar” widget if there are more than 1,000 hits. In this case, you should narrow down your search further.

5.7.1 Charts in the “Macroeconomic Calendar” widget

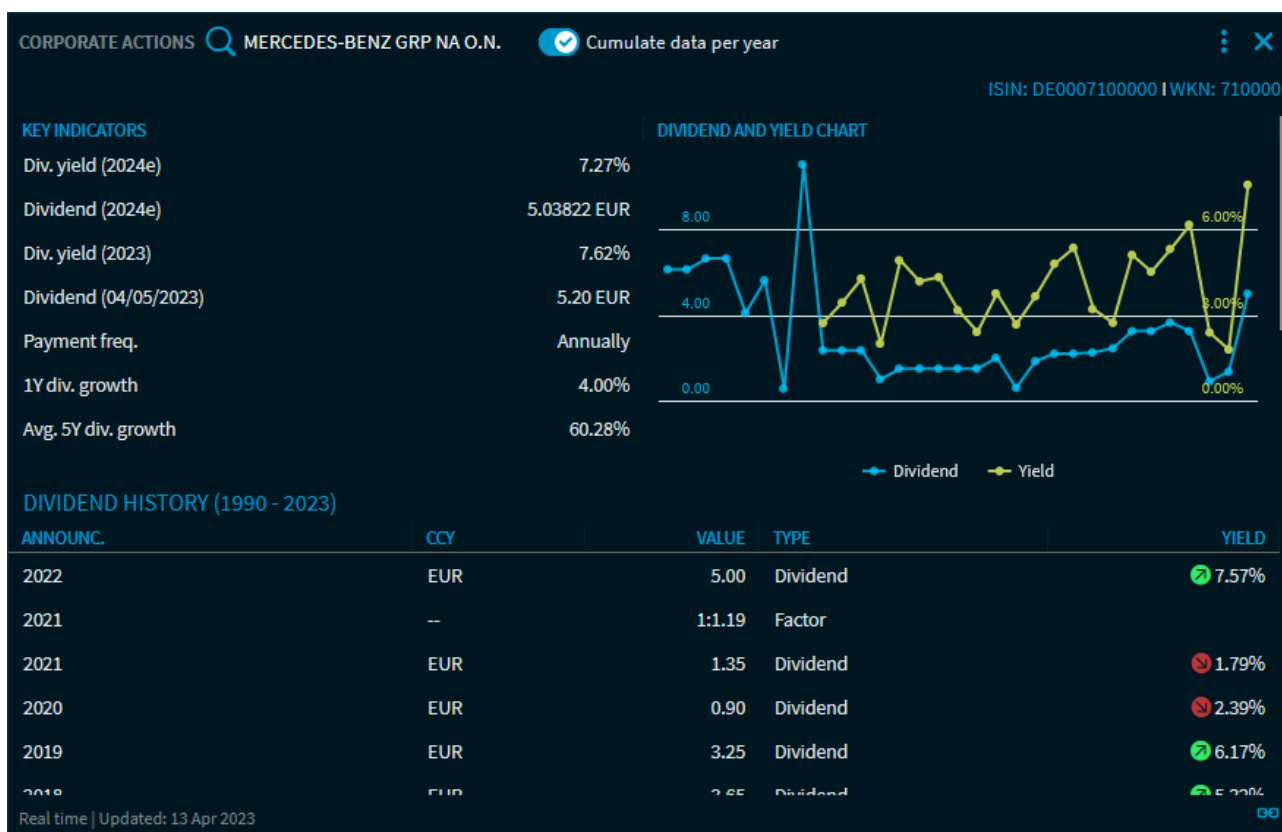
In the “Macroeconomic Calendar” widget, you will find a column with small historical charts on the far right of the list. Point to the charts to display them enlarged in a window. In this enlarged chart, you can display the respective values with date by pointing to the chart line.



The indicators in the widget can be loaded as an instrument for grouped widgets.


5.8 Corporate Actions

The widget shows all corporate actions of a security. In addition to the dividend key figures, you see a history and a chart of the dividend performance. At the top of the widget, you can select the corresponding security. In addition to shares, funds and ETFs as well as relevant certificates can also be selected.



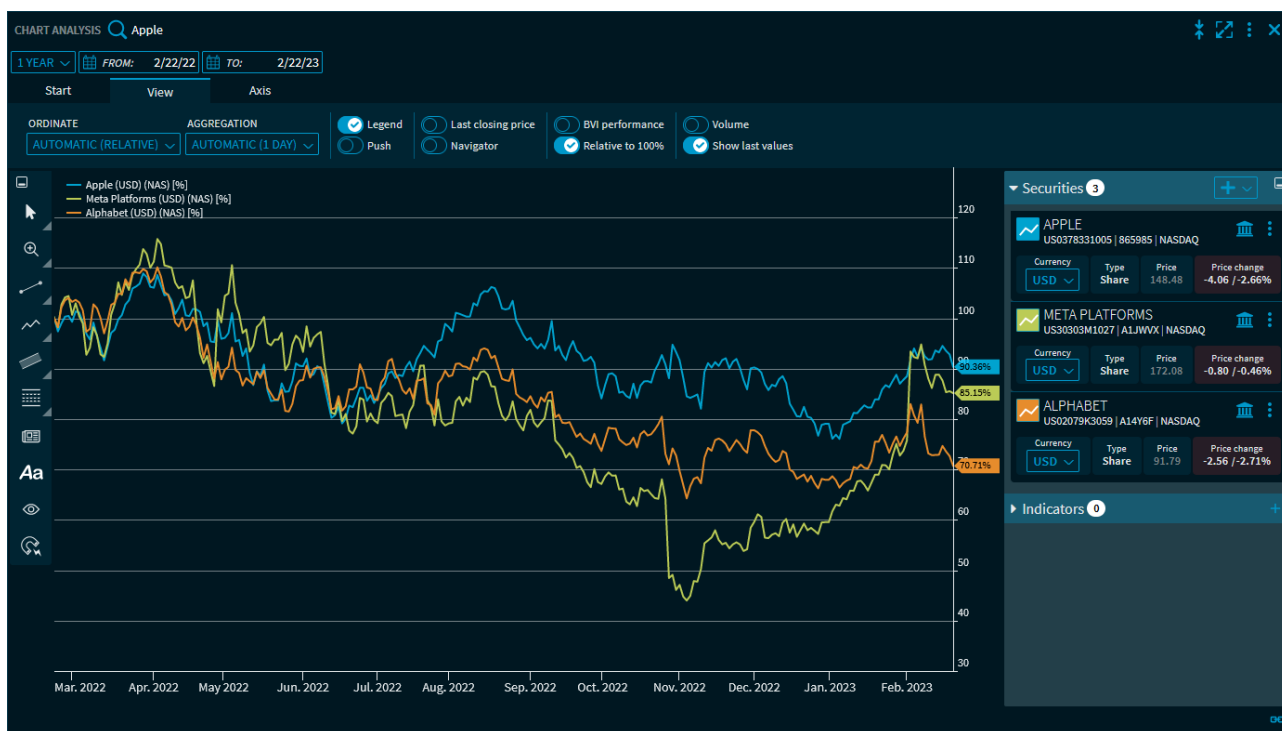
In addition to the default elements described in [Widget structure](#), the "Corporate Actions" widget has the following fields:

Element	Description
Select security	Use the integrated quick search to select the relevant security. After selection, the name of the security currently displayed in the widget is shown at the top of the widget.
Cumulate data per year	<p>If you disable this setting by moving the switch to the left, then the dividends for companies that have several dividend dates in one year (that is, many US stocks) are displayed cumulatively in the chart and table.</p> <p>This setting is enabled by default.</p>
General security details	Below the security selection, you see the following master data of the security: Asset class, ISIN and ticker.
Key indicators	<p>You can find the following key indicators at the upper left side of the widget:</p> <ul style="list-style-type: none"> • Expected dividend yield • Expected dividend • Current dividend yield • Last dividend with date • Payment freq. (payment frequency of dividends) • The 1-year growth of the dividends • The 5-year growth of the dividends
Chart	The chart shows the amount of the dividends (blue) and the dividend yield (yellow) of the last 10 years.
Dividend history	<p>At the bottom of the widget, you can see the dividend and corporate action history of the last years (if available).</p> <p>The "Announc." (Announcement) column shows the date. The "Value" column shows the absolute amount of the dividend or the exchange factor in the case of a factor, and so on. The "Ccy." column shows the corresponding currency.</p> <p>The type of the corporate action shows the "Type" column, for example "Dividends" or "Factor". The "Yield" column shows the percentage dividend yield as well as a trend arrow for the performance of the dividend yield against the previous year.</p>

 In addition to shares, this widget also supports funds, ETFs and certificates.

5.9 Chart Analysis

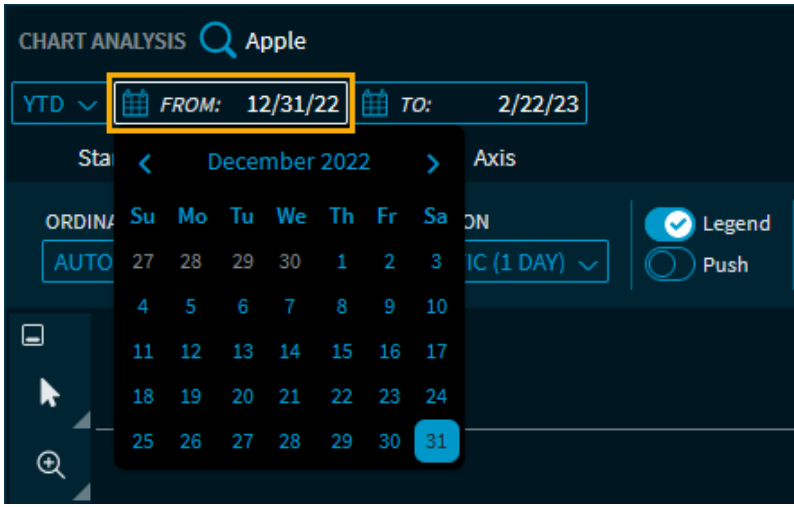
The "Chart Analysis" widget is a powerful tool for technical chart analysis.
















In addition to the functions for the standard chart widgets described in [Chart](#), this chart analysis tool offers many additional helpful functions.

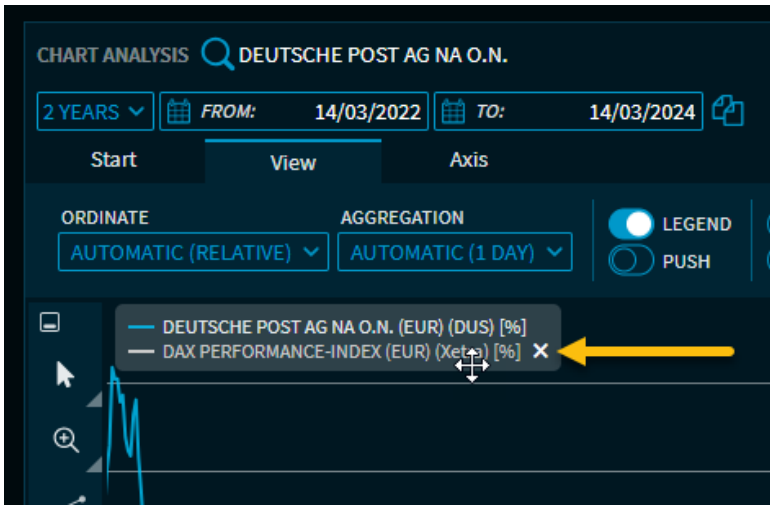
The "Chart" widget has the following elements and functions:

Element	Description
Select security	<p>The selection in the upper left corner of the widget shows the name of the security currently displayed in the chart as default value. Open the menu to select a security. In addition to using the securities search field, you can also select from the previously selected instruments below the search field.</p> <p>The section on the right allows you to add, display and manage instruments for comparison.</p>

Element	Description
"Period" drop-down list	<p>In addition, you can set the analysis period. Depending on the trading venue, you can select from the following periods:</p> <ul style="list-style-type: none"> • 5 minutes • 10 minutes • 20 minutes • 1 hour • 3 hours • 6 hours • 1 day • 2 days • 3 days • 4 days • 1 week • 2 weeks • 3 weeks • 1 month • 3 months • 6 months • 9 months • Year to date • 1 year • 3 years • 5 years • 10 years • 20 years • Max. <p>The "Max." period shows all available prices for the currently selected security.</p> <p>The currently selected dates are displayed in the two input fields "From" and "To". Here, you can also select individual periods using the calendar integrated in the fields:</p>  <p>The period selection shows the "Custom" entry for manually changed data.</p> <p>You can also select 'Today' for the to date in the chart widgets. In this case, the chart is then automatically displayed up to the current date when the Infront Investment Manager is started on a later day.</p>

Element	Description
	 To manually select the appropriate aggregation for your time period settings, see Settings on the "View" tab .
 Icon "Copy chart to clipboard"	Click this icon to copy the chart to the clipboard.
"Start" tab	Above the chart, you find the "Start" and "View" tabs. By default, the "Start" tab is selected, providing the following functions: <ul style="list-style-type: none"> • Save • Load
"View" tab	Switch to the "View" tab to use the following functions: <ul style="list-style-type: none"> • Ordinate • Aggregation • Legend • Push • Tooltip For more information about these the settings, see Settings on the "View" tab .
"Axis" tab	Switch to the "Axis" tab to set the display of the y-axis and its labels. See also the section Settings on the "Axis" tab .
Hide/show toolbar  	You can hide and show the toolbar by using the upper button on the left side of the chart window. Similarly, on the right side of the widget, you will find a button to show and hide the bar for securities and indicators.
Cursor 	With this button, you can choose between different display forms of the cursor: <ul style="list-style-type: none"> • Arrow • Vertical line Use the cursor of the "Vertical line" type to show, for example, the prices of all securities in tooltips when displaying several securities in the chart window. <ul style="list-style-type: none"> • Crosshair

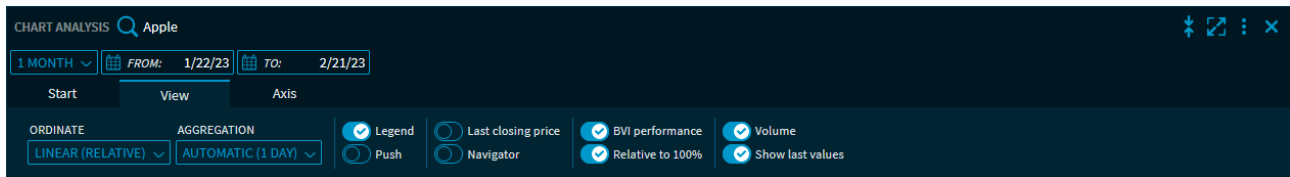
Element	Description
Zoom 	<p>With this button, you can choose between different zoom types:</p> <ul style="list-style-type: none"> • Zoom X (standard zoom, horizontal zoom) • Zoom Y (vertical zoom) • Zoom XY (zoom in both directions)
Lines 	<p>Display lines.</p> <p>See also the section Show drawing elements.</p>
Curved lines 	<p>Display curved lines.</p> <p>See also the section Show drawing elements.</p>
Advanced 	<p>Display further drawing elements.</p> <p>See also the section Show drawing elements.</p>
News search 	<p>This button allows you to quickly start a news search for the (default) security in the chart.</p> <p>See also the section Start news search from the chart.</p>
Name 	<p>Display labels.</p> <p>See also the section Show drawing elements.</p>
Show or hide annotations 	<p>Show or hide annotations specified in the chart.</p> <p>See also the section Show drawing elements.</p>
Magnetic drawing tools 	<p>Show or hide magnetic drawing tools.</p> <p>See also the section Magnetic tools.</p>
Select security	<p>The section on the right allows you to add, display and manage instruments for comparison.</p> <p>See also the section Show and manage securities.</p>

Element	Description
Indicators	<p>At the bottom of the securities selection window, you will find the technical indicators for chart analysis.</p> <p>See also the section Indicators in the "Chart Analysis" widget.</p>
Legend	<p>In the legend, you see all time series of the chart window, the colours are assigned accordingly. Clicking a time series hides it from the chart.</p> <p>You can move the legend by dragging it.</p> <p>You can remove displayed benchmarks or indicators from the legend: Point to the legend entry you want to remove. This displays a remove icon behind it, which you can use to quickly remove this chart line.</p> 
Export	<p>By using the widget's menu icon, you can export the charts in the "Chart Analysis" widget to various file formats.</p>

See also:

- [Settings on the "View" tab](#)
- [Settings on the "Axis" tab](#)
- [Select chart type and colour of the time series](#)
- [Save "Chart Analysis" widget data as file](#)
- [Export "Chart Analysis" widget data to CSV file](#)
- [Indicators in the "Chart Analysis" widget](#)
- [Show drawing elements](#)
- [Show and manage securities](#)
- [Zoom function in the "Chart Analysis" widget](#)
- [Start news search from the chart](#)
- [Settings in the "Chart analysis" widget](#)

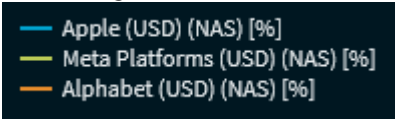

5.9.1 Settings on the "View" tab

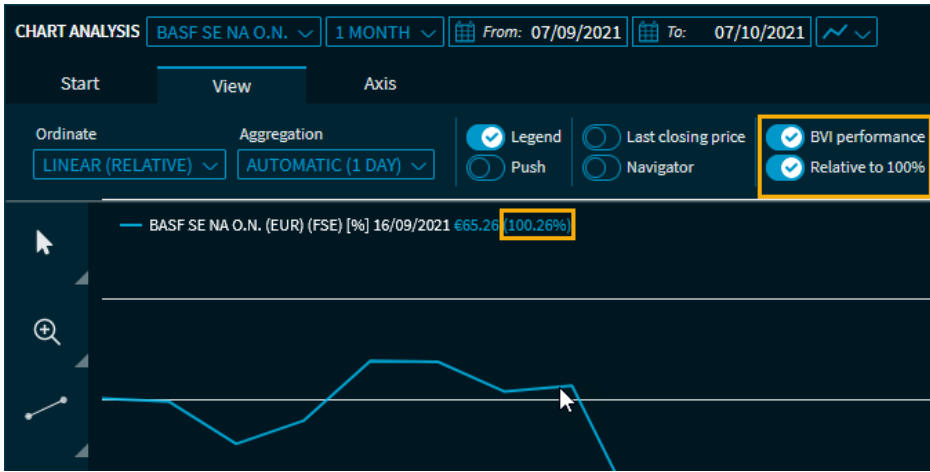



In the "Chart Analysis" widget, switch to the "View" tab to configure the chart display.

You can find the following settings:

Element	Description
Ordinate	<p>Use this drop-down list to specify how to display the y-axis of the chart. The following entries are available:</p> <ul style="list-style-type: none"> Automatic With this default setting, the useful settings are automatically selected. In brackets behind it you see the current setting (for example, "Automatic (absolute)") If only one time series is displayed, then the setting is set to "Automatic (absolute)" and linear. If several time series (securities) are displayed, then the setting is set to "Automatic (relative)" and linear. Exceptions are relative values (for example, foreign exchange), where the absolute classification is retained even when a benchmark is added. Linear (absolute) With this setting (for single charts), the actual prices of the securities are displayed on the y-axis. Linear (relative) In this setting, the prices are displayed relative to the start price of the selected start time. If a benchmark is displayed, then the widget switches to this display. Logarithmic (absolute) In the logarithmic display, the values on the y-axis are always displayed with the same percentage distance. This means that a 10% price movement is always displayed with the same distance on the axis, irrespective of absolute values.  <ul style="list-style-type: none"> Logarithmic (relative)

Element	Description
Aggregation	<p>The aggregation of the charts takes place automatically depending on the set period:</p> <ul style="list-style-type: none"> • Intraday charts (5 minutes to 1 day): Aggregation 1 minute • Charts from 2 days to 2 weeks: Aggregation 15 minutes • Charts from 3 weeks to 5 years: Aggregation 1 day • Charts longer than 5 years: Aggregation 1 week <p>Use this drop-down list to select how to aggregate the displayed price data. The display is automatically optimised by default. (In this case, you will see the automatically set aggregation period in brackets behind it, for example, "Automatic (1 day)"). Depending on the selected period, you can use this selection list to select further entries:</p> <ul style="list-style-type: none"> • 1 tick • 5 ticks • 10 ticks • 20 ticks • 50 ticks • 100 ticks <p>The aggregation levels on a tick basis can only be selected for periods of up to one day.</p> <ul style="list-style-type: none"> • 1 minute • 5 minutes • 10 minutes • 15 minutes • 30 minutes • 60 minutes • 1 day • 1 week • 1 month • 3 months
Legend	<p>Turn this switch to the left to hide the legend displayed by default at the bottom right of the chart.</p>  <p>When you point to a chart line, the date and price at that point are shown in the legend:</p>  <p>This display can be changed in the widget settings so that the price display is shown directly at the mouse pointer via tooltip.</p>
Push	Turn this switch to the right to enable the data push feed.

Element	Description
Last closing price	Turn this switch to the right to show the tooltips.
Navigation pane	Turn this switch to the right to right to display the lower navigator (zoom bar).
BVI performance	<p>Move this switch to the right to change the display in the chart window to BVI performance.</p> <p>If this setting is turned on, a further switch appears below it, which you can use to specify whether the original line of the performance is 100 or 0.</p> <p>The display of the BVI performance appears - depending on the selected setting - behind the corresponding legend entry or directly in the tooltip at the mouse pointer.</p>  <p>The screenshot shows the 'CHART ANALYSIS' interface. At the top, there are dropdowns for 'BASF SE NA O.N.', '1 MONTH', and date ranges 'From: 07/09/2021' to 'To: 07/10/2021'. Below these are tabs for 'Start', 'View', and 'Axis'. Under the 'View' tab, there are settings for 'Ordinate' (set to 'LINEAR (RELATIVE)'), 'Aggregation' (set to 'AUTOMATIC (1 DAY)'), 'Legend' (checked), 'Last closing price' (unchecked), 'Push' (unchecked), 'Navigator' (unchecked), 'BVI performance' (checked), and 'Relative to 100%' (checked). The chart area shows a line for 'BASF SE NA O.N. (EUR) (FSE) [%]' with a tooltip at '16/09/2021 €65.26 (100.26%)'.</p>

Element	Description
Volume	<p>Turn this switch to the right to show the volumes. This indicator shows the volumes at the corresponding times as bars of a histogram. The volumes are green for rising prices and red for falling prices.</p> <p>Example: Chart with displayed volume</p> 
Display last value	<p>By default, the last values are displayed at the right side. Turn this switch to the left to hide them.</p>

5.9.2 Settings on the "Axis" tab

In the "Chart Analysis" widget, switch to the "Axis" tab to configure the display of the x- and y-axes.

CHART ANALYSIS

AIRBUS

1 YEAR

FROM: 2/22/22

TO: 2/22/23

Start

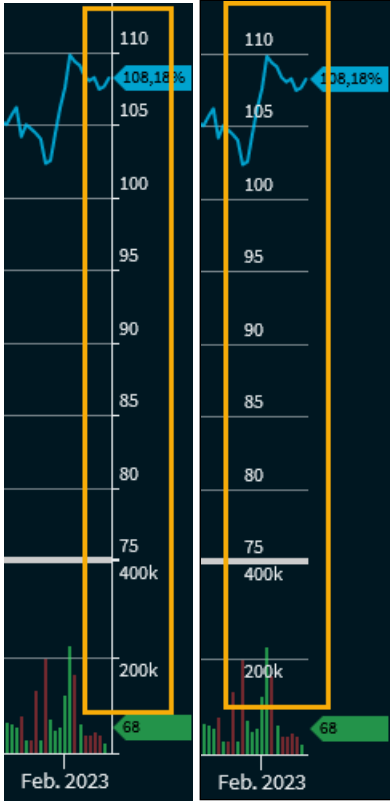
View

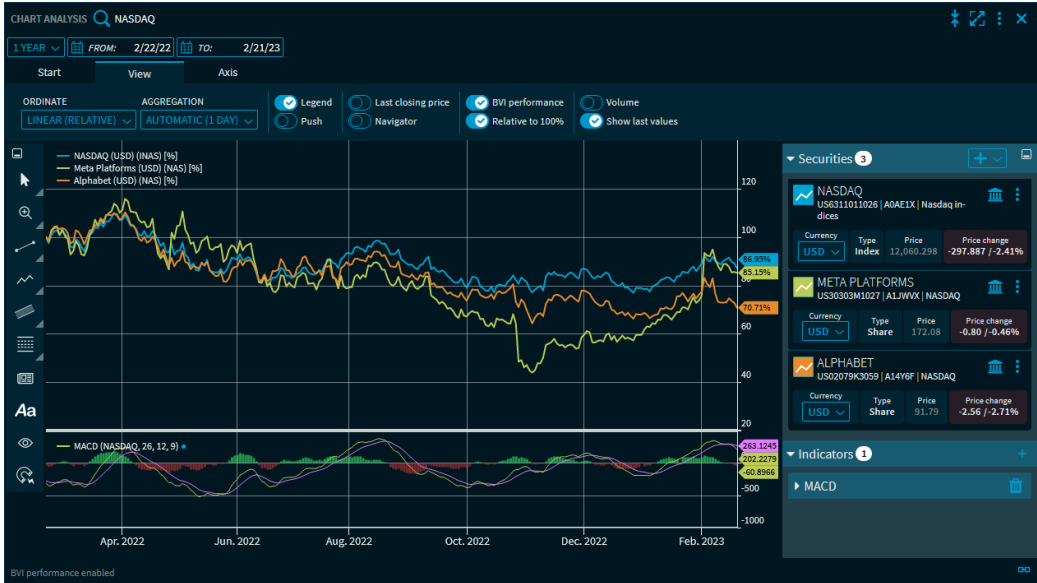
Axis


☒ y-axis outside chart
 ☐ Show vertical grid
 ☐ Empty data values

☐ Show single y-axis
 ☒ Show horizontal grid

The following setting options are available:

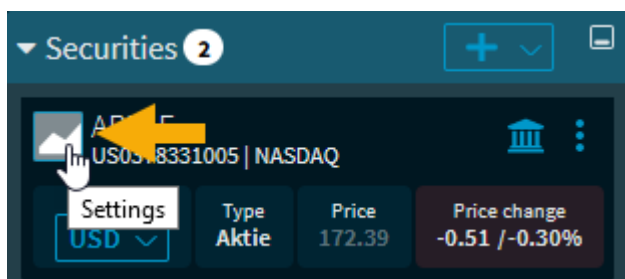
Function	Description
y-axis outside chart	<p>Use this switch to select whether the y-axis should be displayed "inside" or "outside" the chart.</p> <p>Examples:</p>  <p>Information: For derivatives, two absolute axes are displayed by default for the instrument and the associated underlying. This means that, for example, any barriers or caps that may be present can also be displayed correctly.</p>

Function	Description
Display grid (vertical)	<p>Turn this switch to the right to also display the vertical lines of the grid, which are hidden by default.</p> <p>Example with complete grid:</p> 
Display grid (horizontal)	<p>Turn this switch to the left to hide the horizontal lines of the grid displayed by default.</p>

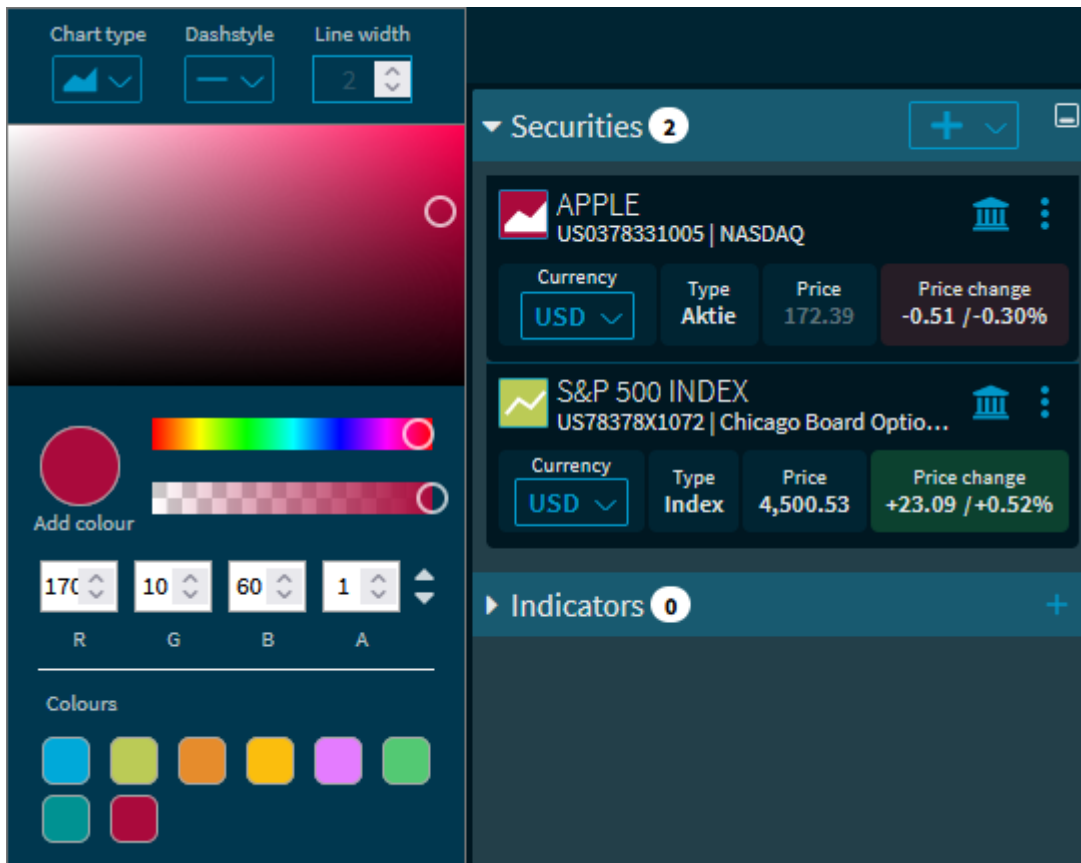
Function	Description
Empty data points	<p>Here, you have the possibility to extend the chart on the right side by further (empty) data points into the future, for example to better place trendlines.</p> <p>To do this, turn the switch to the right and enter the number of data points you want to use.</p> <p>Here, the currently set aggregation is taken into account, for example with a daily setting, 100 data points correspond to 100 days in the following example.</p> <div> <p>Example with empty data points:</p>  </div>

5.9.3 Select chart type and colour of the time series

For all securities and their time series, you can configure the chart type and also the colour of the time series. You open the corresponding configuration dialogue window by using the "Settings" icon in front of the respective security on the right-hand side:



The colour and type of the "Settings" icon already indicate the settings currently selected for the security. You can adjust the settings in the configuration dialogue window that appears.



Select the relevant chart type in the first drop-down list. Use the following chart types for your analysis:

- Line chart (default setting in the "Chart Analysis" widget)
- Mountain chart (default setting in the "Chart Analysis" widget)
- OHLC chart
- Candlestick chart
- Candle volume chart
- Bar chart
- Point chart
- Steps chart
- [Point and figure chart](#)

Depending on the selected chart type, you can specify the line type and width, for example, in further drop-down lists.

Below, you find a variety of options to individually configure the colour of your time series.

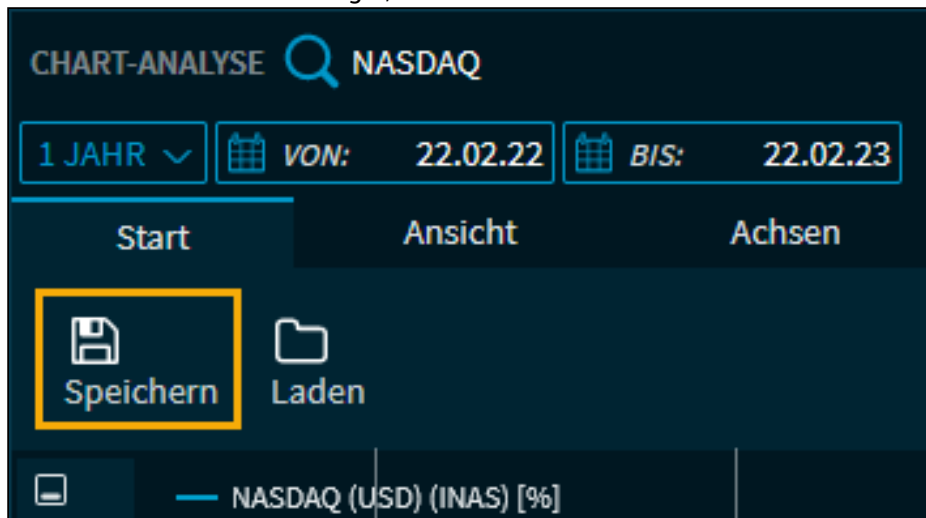


Use the "Add colour" command to add the current colour to the quick selection of colours at the bottom of the dialogue window.

5.9.4 Save "Chart Analysis" widget data as file

You can save the data currently shown in the "Chart Analysis" widget as a **JSON** file. The settings and security details are exported. To save the data as a file:

1. On the "Start" tab of the widget, click the "Save" icon.

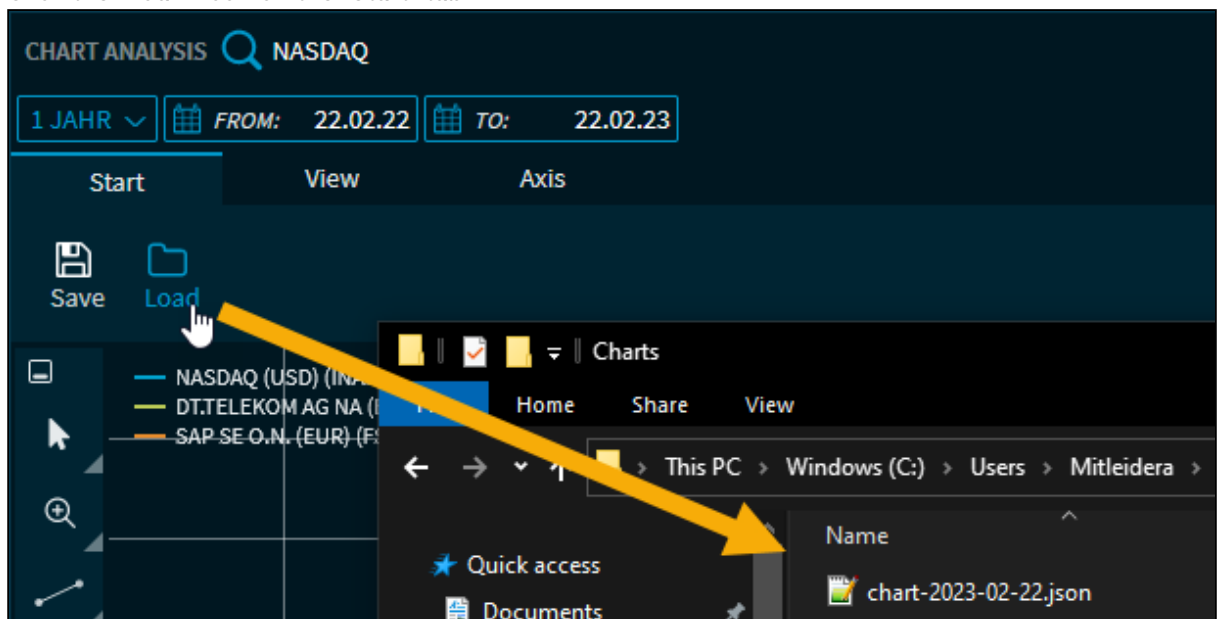


2. The "Save file" option in the browser dialogue window that appears and click "OK" to save the file. You can re-import [saved files](#) in the "Chart Analysis" widget.

Load files in the "Chart Analysis" widget

If you saved data from the "Chart Analysis" widget (see [Save "Chart Analysis" as file](#)) as JSON files, you can re-import these files in the "Chart Analysis" widget. To do this, follow these steps:


1. Go to the "Chart Analysis" widget.
2. Click the "Load" icon on the "Start" tab.



3. In the "Open" dialogue window of your operating system, browse to the file in the corresponding folder. The chart is loaded in the widget.

5.9.5 Export "Chart Analysis" widget data to CSV file

You can export the data from the "Chart Analysis" widget (as from many other widgets) as a CSV file. To do this, follow these steps:

1. Go to the "Chart Analysis" widget.
2.  Open the widget menu.
3. In the "Export" area, click the CSV" button.
4. Save the file or open it directly in Excel.

The header shows the following information for each security:

- Security
- ISIN
- Trading venue
- Currency

The following data is output for the time series of the main instrument:

- Date
- OHLC (Open, High, Low, Close)
- Volume

The closing price is shown for all other instruments.

For each indicator, one column per parameter is displayed with the main instrument (except "colour").

Example: Exported CSV file to Excel

	A	B	C	D	E	F	G
1	Security	SAP					
2	ISIN	DE0007164600					
3	Trading venue	XETRA					
4	Currency	EUR					
5							
6	Date	SAP Open	SAP High	SAP Low	SAP Close	SAP Volume	
7	10.10.2018 00:00	103.8	103.96	98.71	98.71	3586189	
8	11.10.2018 00:00	95.55	98.78	94.14	97.08	5210537	
9	12.10.2018 00:00	99.13	99.89	97.43	98.07	4027769	
10	15.10.2018 00:00	98.54	98.67	96.93	98.01	2063137	
11	16.10.2018 00:00	98.01	101.02	97.44	100.96	2823038	
12	17.10.2018 00:00	102.28	102.92	99.61	100.34	2842051	
13	18.10.2018 00:00	96.9	98.87	94.38	94.38	6853511	
14	19.10.2018 00:00	94.33	96.1	93.14	95.3	5046374	
15	22.10.2018 00:00	96.62	96.71	94.57	94.99	2354282	
16	23.10.2018 00:00	93.75	93.93	91.84	92.6	3639614	
17	24.10.2018 00:00	93.23	94.13	91.62	91.68	2717364	
18	25.10.2018 00:00	90.03	93.8	89.29	93.68	3499846	
19	26.10.2018 00:00	92.48	93.03	90.56	92.99	3687425	
20	29.10.2018 00:00	93.21	93.9	92.19	92.63	2365079	
21	30.10.2018 00:00	92.98	93.29	91.38	92.61	2284718	
22	31.10.2018 00:00	93.8	95.37	93.15	94.66	3823539	
23	01.11.2018 00:00	94.39	95.11	92.94	93.46	2660127	
24	02.11.2018 00:00	95.28	95.5	93.76	94.39	2747881	
25	05.11.2018 00:00	94.19	94.96	93.59	93.78	1560961	
26	06.11.2018 00:00	93.72	94.17	92.73	93.42	2045445	
27	07.11.2018 00:00	93.4	94.82	93.2	94.62	1936607	
28	08.11.2018 00:00	95	95.27	94.04	94.33	1891495	
29	09.11.2018 00:00	94.08	95.22	93.04	95.17	2304066	

5.9.6 Indicators in the "Chart Analysis" widget

Trend lines and channels are a favourite of many analysts. Indicators use a formula to convert the original price trend into another form. The resulting new chart is then further analysed, for example in terms of exaggerations, indications of trend changes or simply by eliminating outliers by means of smoothing. Use the technical indicators available in the "Chart Analysis" widget for your technical analyses.

On the following pages, we therefore present the most important indicators including their formulas, interpretations and areas of application. Furthermore, you see how to show and configure these indicators.

See also:

- [Types of indicators](#)
- [Show indicators](#)
- [Edit indicators](#)
- [Remove indicators](#)
- [Apply indicators to indicators](#)
- [List of indicators](#)

Types of indicators


Indicators are statistical functions for analysing time series via a graphical output in a chart. In Investment Manager, you find an extended range of indicators. This includes all classical indicators but also less known ones.

The indicators are divided into the following categories:

Trend indicators

Examples: Moving averages, MACD, Bollinger Bands, Commodity Channel Index, Parabolic SAR

If the price of a security follows a trend, trend-following indicators provide you with good results when breaking through up or down trends.

 The trend-following indicators do not provide any information about the strength of a trend or current excesses. They only show if a trend does or does not exist.

Momentum oscillators

Examples: Momentum, ROC, RSI

Momentum oscillators are helpful for analysing trendless sideways movements of the price and strong fluctuations.

Trend analysis indicators

Example: Aroon

Use the trend analysis indicators to identify the securities that are suitable for trend tracking analysis.

Comparison indicators

Example: Spread, Relative Strength Comparative (RSC)

Comparison indicators allow you to directly compare two securities or compare with a benchmark. To use a comparison indicator in a meaningful way, you need to display two securities in the chart and select them while holding the <CTRL> key in order to select the corresponding comparison indicator. You can use the properties of the indicator at any time to select which time series you want to set as the "Source time series" and which as the "Comparison time series" (benchmark).

Volatility indicators

Example: Volatility

Use the volatility indicators to measure the price fluctuations of a security.

Volume indicators

Examples: Volume, Money Flow Index

Volume Indicators are indicators requiring the sales volume as a basis for calculations.

Other indicators

Examples: ZigZag, Keltner Kanal, DEMA, TEMA

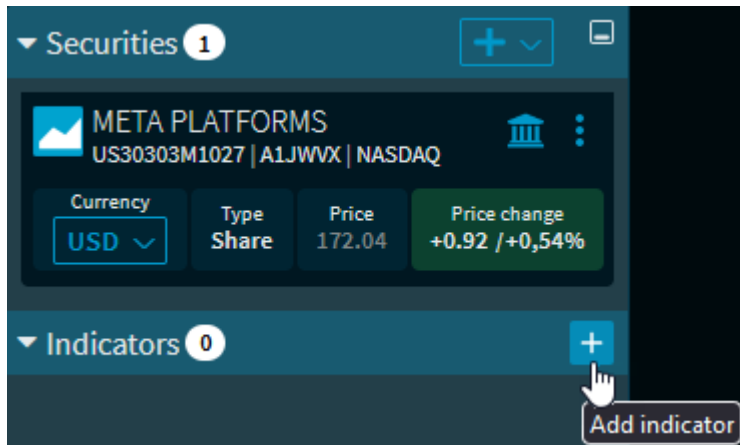
Here, you find many other indicators that cannot be uniquely assigned to the categories stated above.

Show indicators

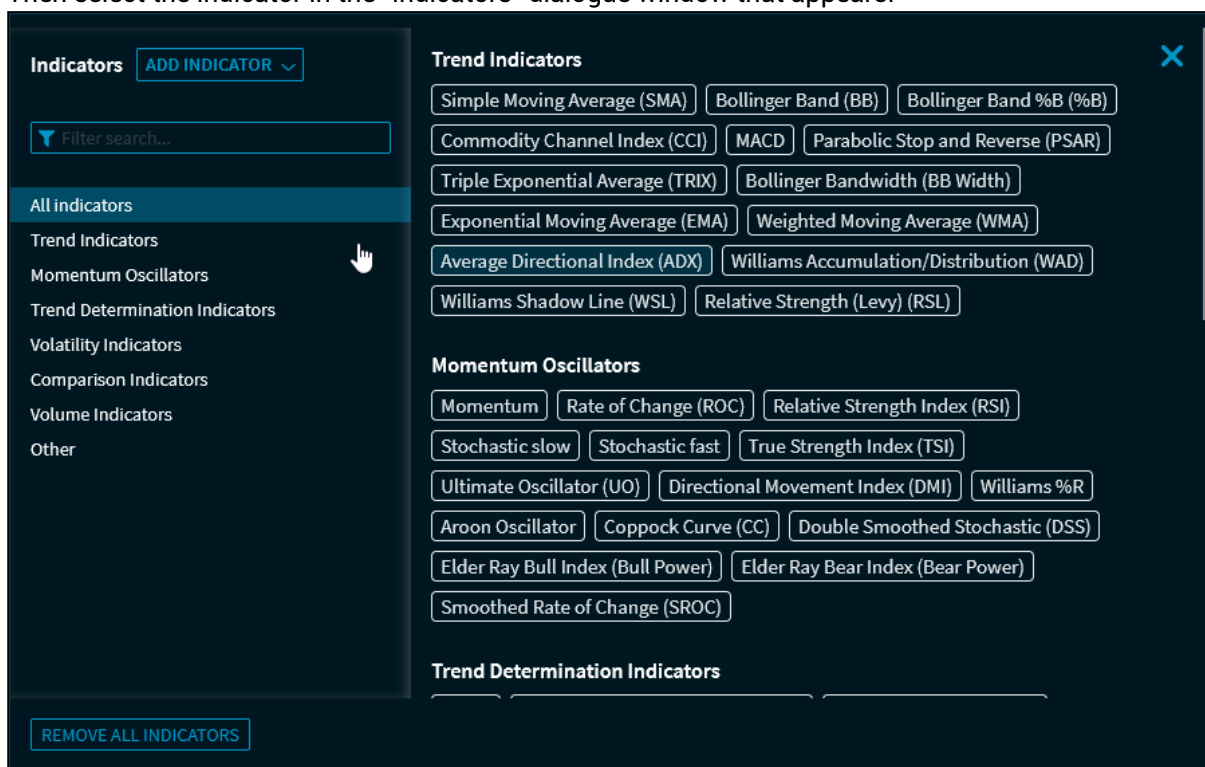
In the "Chart analysis" widget, you can display various technical indicators.

To show an indicator:

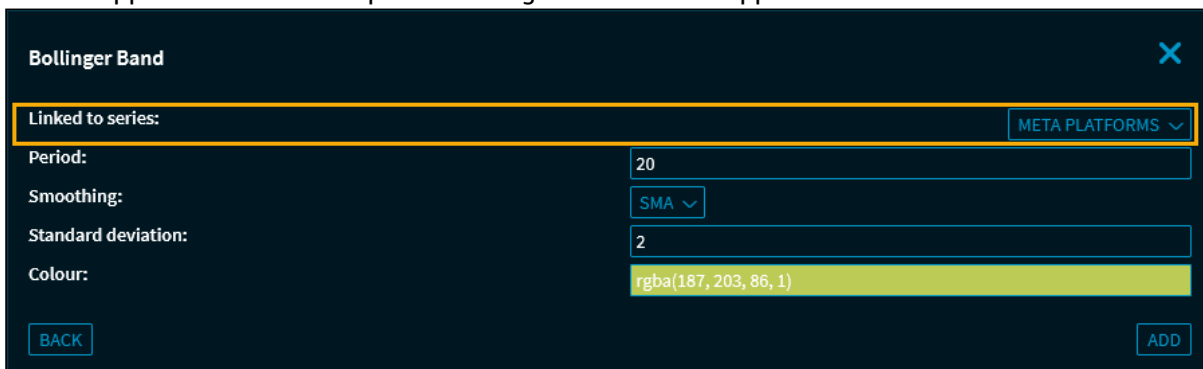
1. Click the "Add indicator" icon in the instrument selection section on the right side of the widget.



2. Then select the indicator in the "Indicators" dialogue window that appears.



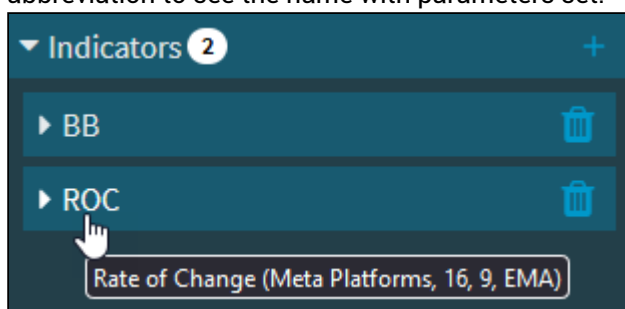
- If you display several securities (time series) in the chart, select the time series to which the indicator is to be applied as the next step in the dialogue window that appears.



- Define the parameters below, if necessary. However, you can also edit the default settings later. For more information, see [Edit indicators](#).
- Click the "Add" button.

This displays the indicator chart window.

Behind the "Indicators" menu entry, you can see the number of indicators currently displayed. The indicators are listed with their abbreviations in the expanded indicators menu. Point to the abbreviation to see the name with parameters set:



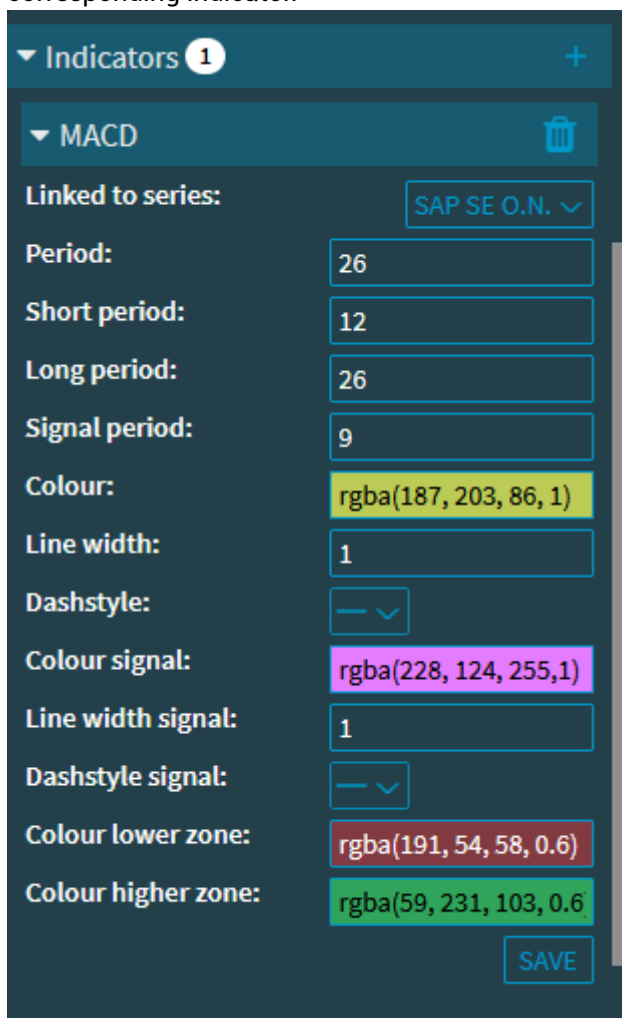
Expand the individual indicators in this list to see the detailed settings and edit them if necessary.

Edit indicators

If you have displayed the technical indicators in the "Chart Analysis" widget as described in [Show indicators](#), then you can always edit these and modify the corresponding parameters. To do this, follow these steps:

- You can expand the properties of the displayed indicator in the securities selection window on the right-hand side.

- Adjust the settings as needed. Here, you see the parameters that you can specify for the corresponding indicator.



- Finally, click the "Save" button.
This closes the dialogue window and updates the indicator displayed.

See also:

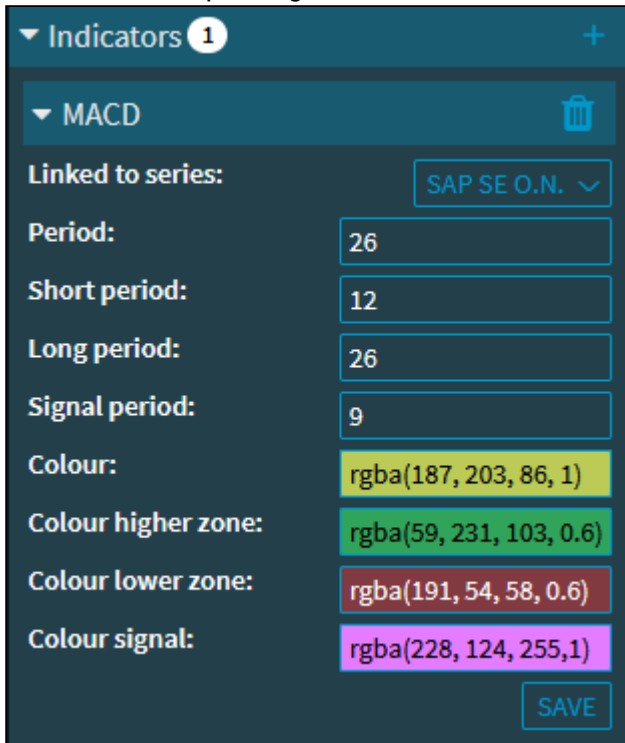
- [Select colours for indicators](#)

Select colours for indicators

If you have displayed the technical indicators in the "Chart Analysis" widget as described in [Show indicators](#), then you can select their chart colours individually. To do this, follow these steps:

- You can expand the properties of the displayed indicator in the securities selection window on the right-hand side.
- Click in the "Colour" input field

3. Select the corresponding colour from the menu that appears.

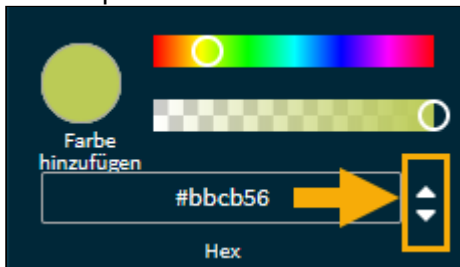


4. Finally, click the "Save" button.

This updates the display of the indicator.

The following options are available in the colour selection:

- Directly select the colour from the upper colour selection field
- Select a predefined colour from the displayed colour fields
- Select via slider (also for the colour setting of the colour field above)
- Enter the hexadecimal code, RGB or HSLA values; the selection is made using the arrows to the right of the input field:



Remove indicators

If you have displayed the technical indicators in the "Chart Analysis" widget as described in [Show indicators](#), then you can hide them again at any time. To do this, follow these steps:

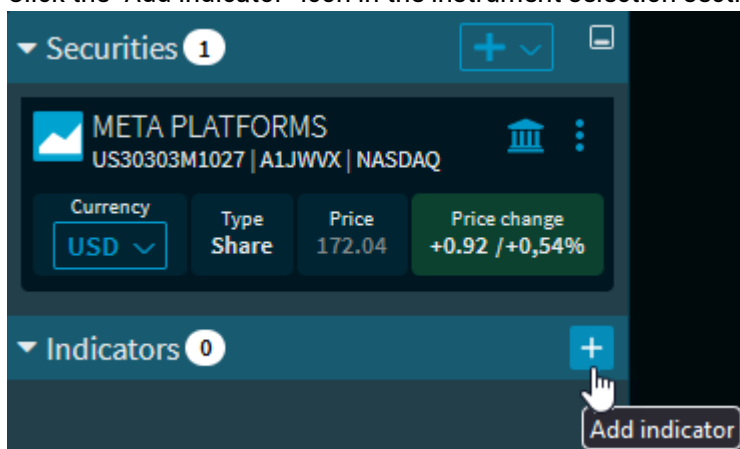
1. Click the chart line of the indicator (or the corresponding point of the tooltip).
2. Click the "Remove" button in the dialogue window that appears.

The indicator is removed from the chart.

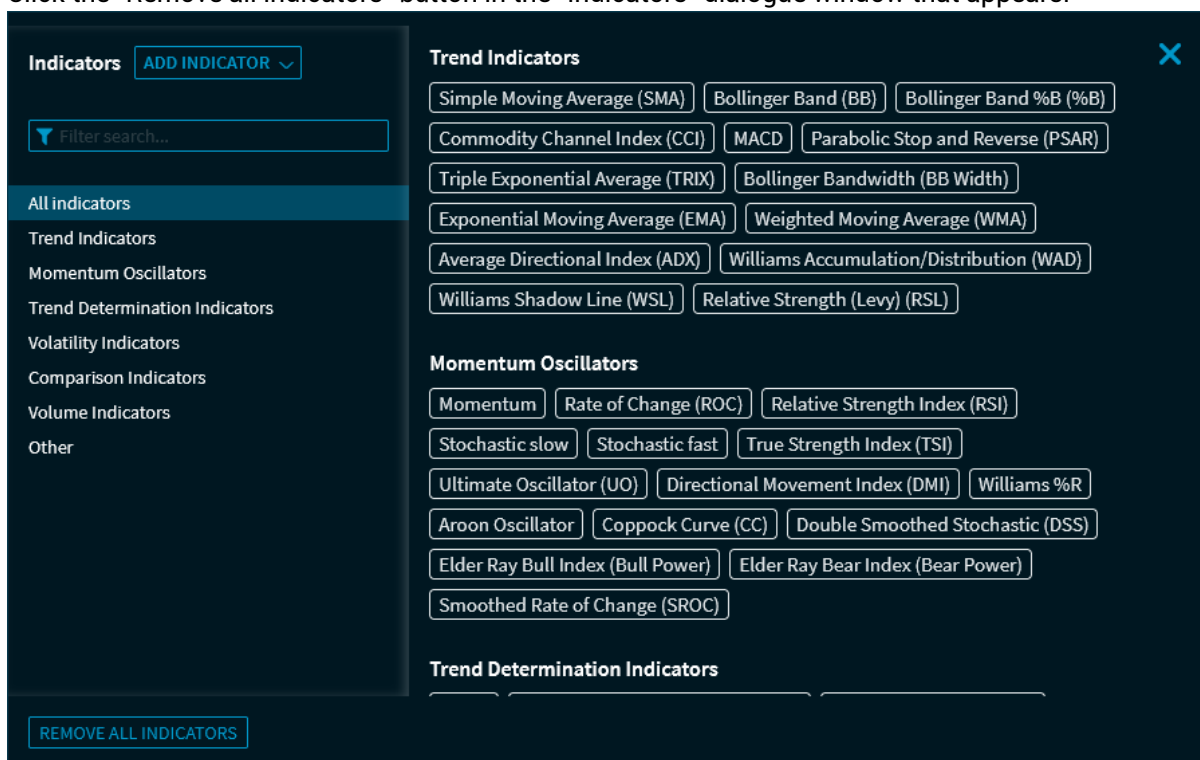
Remove all displayed indicators

To delete all displayed indicators, follow these steps:

1. Click the "Add indicator" icon in the instrument selection section on the right side of the widget.



2. Click the "Remove all indicators" button in the "Indicators" dialogue window that appears.



The indicators are removed from the chart.



Alternatively, you can click the "Return" button in the dialogue window for editing an indicator, and then click the "Remove all indicators" button that appears to remove all indicators.

Apply indicators to indicators

You can also apply indicators to indicators. Useful and already available examples are, for example, a [Relative Strength Index](#) applied to a [Relative Strength Comparative](#) or a [Spread](#) applied to two [volatilities](#).

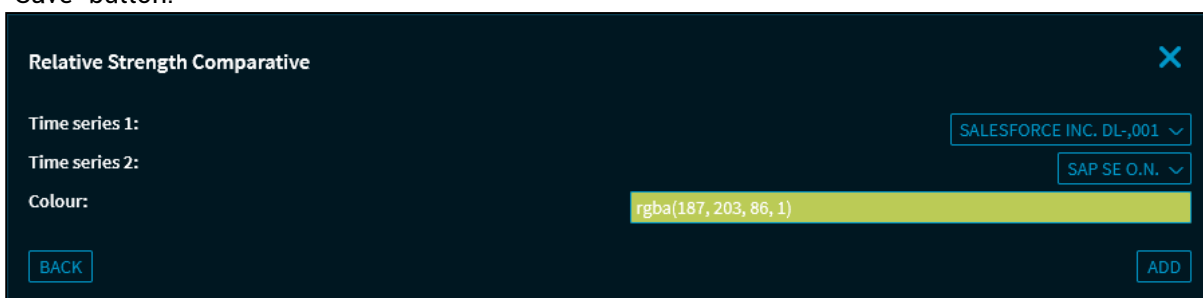
See also:

- [Example: Apply RSI to RSC](#)
- [Example: Apply spread to volatilities](#)

Example: Apply RSI to RSC

To apply a [RSI](#) to a [RSC](#):

1. If necessary, open a "Chart Analysis" widget and display at least two securities.
2. First, add the Relative Strength Comparative (RSC) as an indicator. Use the parameters "Time series 1" and "Time series 2" to define the securities to be compared and confirm the selection by using the "Save" button.




The screenshot shows the 'Relative Strength Comparative' configuration window. It has a dark blue header with a close button (X). The main area contains the following fields:

- Time series 1:** A dropdown menu showing 'SALESFORCE INC. DL-,001'.
- Time series 2:** A dropdown menu showing 'SAP SE O.N.'.
- Colour:** A color picker showing 'rgba(187, 203, 86, 1)' with a corresponding yellow-green color bar.

At the bottom, there are two buttons: 'BACK' on the left and 'ADD' on the right.

3. Then add the Relative Strength Index (RSI) as a second indicator. Select the previously displayed RSC for the parameter "Linked to series" and confirm the selection with the button "Save".

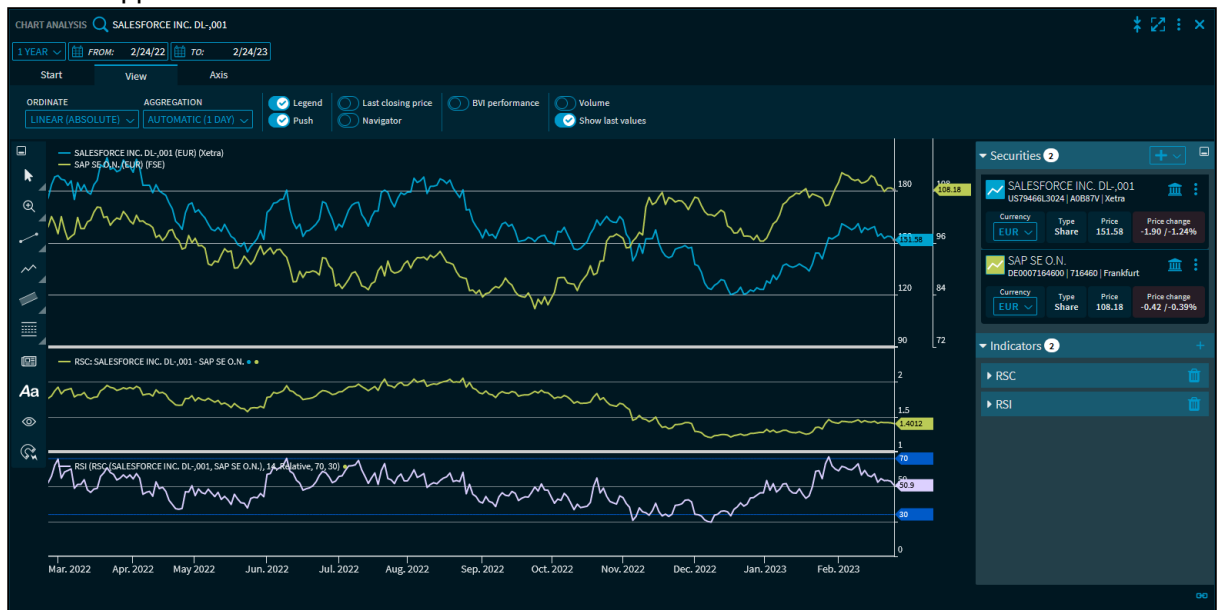


The screenshot shows the 'Relative Strength Index' configuration window. It has a dark blue header with a close button (X). The main area contains the following fields:

- Linked to series:** A dropdown menu showing 'RSC (SALESFORCE INC. DL-...'.
- Period:** A text input field containing '14'.
- Percentage:** A checkbox that is checked.
- Overbought:** A text input field containing '70'.
- Oversold:** A text input field containing '30'.
- Colour:** A color picker showing '#dcd0ff' with a corresponding light purple color bar.
- Colour oversold:** A color picker showing '#005ac8' with a corresponding blue color bar.
- Colour overbought:** A color picker showing '#005ac8' with a corresponding blue color bar.

At the bottom, there are two buttons: 'BACK' on the left and 'ADD' on the right.

The RSI applied to RSC is shown in the lower chart.



Example: Apply spread to volatilities

To calculate the "Spread" indicator applied to two **Volatility indicators** displayed on the chart:

1. If necessary, open a "Chart Analysis" widget and display two securities.
2. Add the "Volatility" indicator for each of the two securities.
3. Then add the "Spread" indicator. Select the first volatility for the parameter "Time series 1" and the second volatility for the parameter "Time series 2" and confirm the selection with the button "Save"

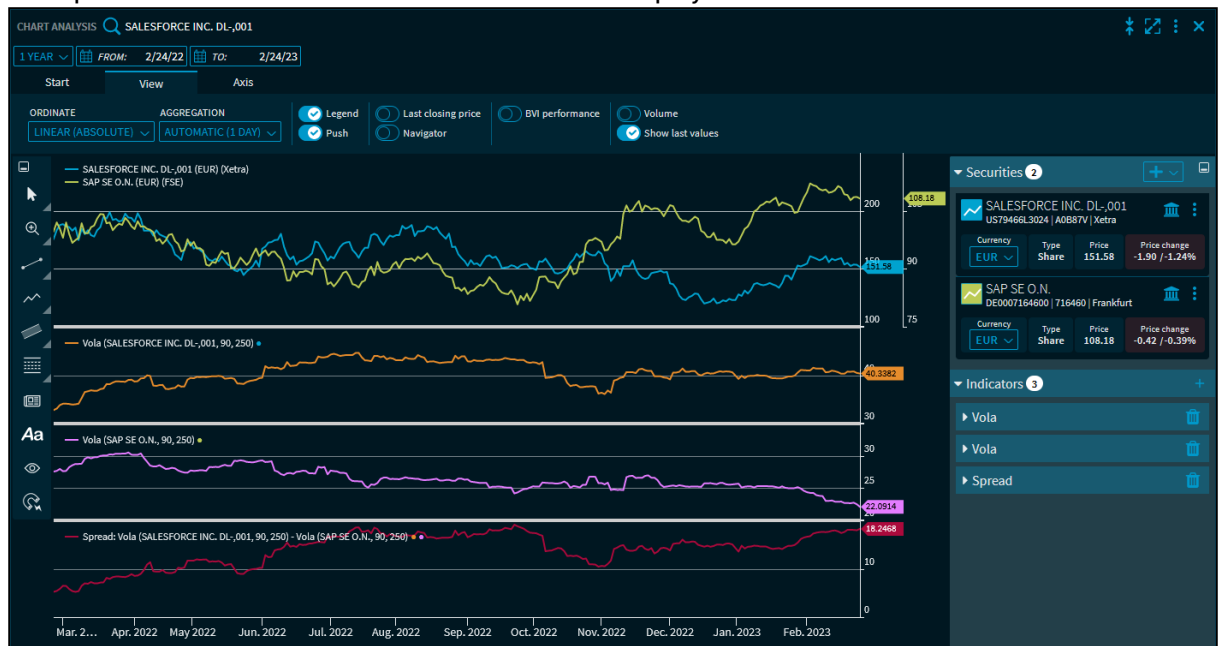


The 'Spread' dialog box is shown with the following configuration:

- Time series 1:** SALESFORCE INC. DL-001
- Time series 2:** SAP SE O.N.
- Percentage:** 1
- Colour:** #aa0a3c

Buttons: BACK, ADD

The spread on the two volatilities is calculated and displayed in the lower chart.



List of indicators

In Infront Investment Manager, you can show the following technical indicators in the "Chart Analysis" widget.

Trend indicators	
Name	Abbreviation
Average Directional Index	ADX
Bollinger Bands	BB
Bollinger Bands %B	%B
Bollinger Bandwidth	BB Width
Commodity Channel Index	CCI
Exponential Moving Average	EMA
Moving Average	MA
Moving Average Convergence Divergence	MACD
Parabolic Stop And Reverse	Parabolic SAR (PSAR)

Relative Strength (Levy)	RSL
Triple Exponential Average	TRIX
Weighted Moving Average	WMA
Williams' Accumulation/Distribution	WAD
Williams Shadow Line	WSL
Momentum oscillators	
Name	Abbreviation
Aroon Oscillator	-
Coppock curve	-
Double Smoothed Stochastic	DSS
Elder Ray Bear Index	Bear Power
Elder Ray Bull Index	Bull Power
Fast Stochastic	-
Momentum	-
Rate of Change	ROC
Relative Strength Index	RSI
Slow Stochastic	-
Smoothed Rate of Change	SROC
True Strength Index	TSI
Ultimate Oscillator	-
Williams %R	-
Trend analysis indicators	

Name	Abbreviation
Aroon	Aroon
Trend Confirmation	TCI
Comparison indicators	
Name	Abbreviation
Beta	β
Correlation	COR
Covariance	-
Modified Benchmark	-
Relative Strength Comparative	RSC
Spread	-
Volatility indicators	
Name	Abbreviation
Chaikin's Volatility	CVI
Volatility	VOLA
Volume indicators	
Name	Abbreviation
Accumulation/Distribution Line	ADL
Chaikin Oscillator	-
Money Flow Index	MFI
Volume Oscillator	VO
Volume Price Trend	VPT

Williams Variable Accumulation Distribution Index	WVAD
Other indicators	
Name	Abbreviation
Absolute Price Oscillator	APO
Acceleration Bands	-
Average True Range	ATR
Chaikin Money Flow	CMF
Double Exponential Moving Average	DEMA
Heikin-Ashi candlesticks	Heikin-Ashi
Keltner channel	-
Linear Regression Angle	-
Linear Regression	-
Linear Regression Intercept	-
Linear Regression Slope	-
Normalised Average True Range	NATR
Percentage Price Oscillator	PPO
Price Envelopes	-
Triple Exponential Moving Average	TEMA
Pivot Points	-
ZigZag	-

See also:

- [Absolute Price Oscillator](#)

- Acceleration Bands
- Accumulation/Distribution Line
- Aroon
- Aroon Oscillator
- Average Directional Index
- Average True Range
- Awesome Oscillator
- Beta
- Bollinger Bands
- Bollinger Bands %B
- Bollinger Bandwidth
- Chaikin Money Flow
- Chaikin Oscillator
- Chaikin's Volatility
- Commodity Channel Index
- Coppock curve
- Correlation
- Detrended Price Oscillator
- Double Exponential Moving Average
- Double Smoothed Stochastic
- Exponential Moving Average
- Fast Stochastic
- Moving Average
- Heikin-Ashi candlesticks
- Ichimoku Kinko Hyo
- Keltner channel
- Covariance
- Linear Regression
- Linear Regression Angle
- Linear Regression Intercept
- Linear Regression Slope
- Modified Benchmark
- Momentum
- Money Flow Index
- Moving Average Convergence Divergence
- Normalised Average True Range
- Parabolic Stop And Reverse
- Percentage Price Oscillator
- Price Envelopes
- Rate of Change
- Relative Strength Comparative
- Relative Strength Index
- Relative Strength (Levy)
- Slow Stochastic
- Smoothed Rate of Change
- Spread
- Supertrend
- Trend Confirmation
- Triple Exponential Average
- Triple Exponential Moving Average
- True Strength Index
- Ultimate Oscillator
- Pivot Points
- Volatility (VOLA)
- Volume Oscillator
- Volume Price Trend

- [Weighted Moving Average](#)
- [Williams %R](#)
- [Williams' Accumulation/Distribution](#)
- [Williams Shadow Line](#)
- [Williams Variable Accumulation Distribution Index](#)
- [ZigZag](#)
- [Elder Ray Bull Index](#)
- [Elder Ray Bear Index](#)

Absolute Price Oscillator

Type

Other indicator

Short introduction

The Absolute Price Oscillator ("APO") is a version of the [MACD](#), showing the difference between two exponential MAs.

Statement

The MACD determines the delta of 2 MAs. However, the two MAs are always calculated on an exponential basis. Thus, it oscillates around the zero line. Values crossing above zero are considered bullish, while crossing below zero are bearish.

Formula/calculation

$APO = \text{short (exponential) MA} - \text{long (exponential) MA}$

Interpretation

If the APO is above 0, that is, the short MA is above the longer one, then this indicates upward trends, while negative values indicate a downward trend.

Default setting

- Period: 9 periods

Acceleration Bands

Type

Other indicator

Short introduction

The acceleration bands were introduced by Price Headley as a an improvement of the [Bollinger Bands](#). Acceleration bands measure volatility over a custom time period (for example, the last 20 periods). Around a centreline, smoothed by a MA, an upper and a lower band are drawn with the same distance to the centre.

Statement

The trading approach is based on a small fundamental basis and various breakout strategies. It is used for markets that promise high, sustained earnings growth and thus potentially longer trends. The basic strategy of these investments is to break out of narrow trading margins near all-time or 52-week highs.

With this indicator, it should be possible to detect a strong trend even before a strong price movement in this direction. As the name suggests, it relies on the concept of "acceleration" to generate entry and exit signals.

Formula/calculation

Upper band = $(\text{High} \times (1 + 2 \times (((\text{High} - \text{Low}) \div ((\text{High} + \text{Low}) \div 2)) \times 1000) \times \text{Factor})))$;

Lower band = $(\text{Low} \times (1 - 2 \times (((\text{High} - \text{Low}) \div ((\text{High} + \text{Low}) \div 2)) \times 1000) \times \text{Factor})))$;

The "Factor" and "Time period" parameters can be used to control the inertia and width of the bands.

Interpretation

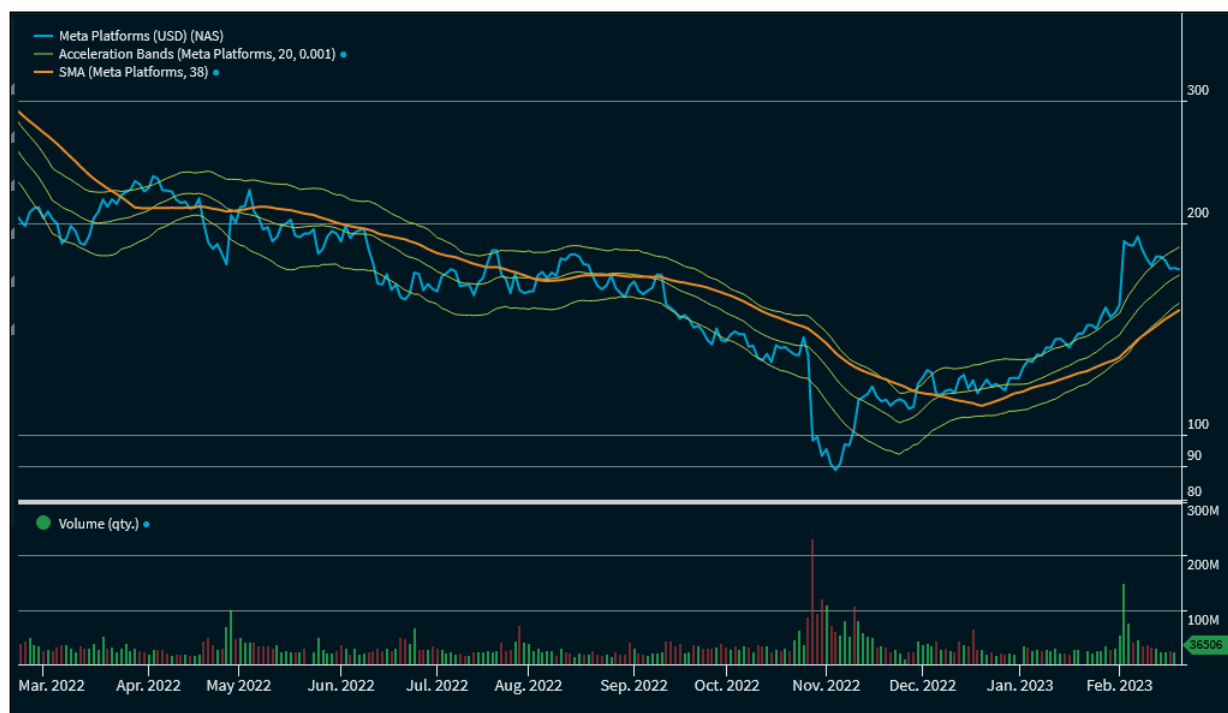
If the price breaks through the upper band, this indicates a breakout to the upside and thus a buy signal. This long position can be closed out when "re-entering" the band (end of the acceleration phase). The same applies for the lower band.

As a rule, securities with high growth and growth markets in general are suitable for the use of this indicator.

Default setting

- Factor: 0.001
- Period: 20 periods

Example: Acceleration Bands



Accumulation/Distribution Line

Type

Volume indicator

Short introduction

Marc Chaikin developed the Accumulations/Distributions line based on the on-balance volume indicator. To represent relative price changes, the prices are weighted with the sales.

Statement

The principle of the indicator is to add, on days closing above the daily average price, this value weighted with a corresponding part of the turnover to the previous day's value of the indicator. On days that close below the daily average exchange rate, the procedure is exactly the opposite. The new value can be positive or negative, so it is always added to the previous day's value.

Formula/calculation

$$\text{Accumulation/Distribution Line} = [((C-L) - (H-C)) \div (H-L) \times V] + I$$

where:

I = A/D value previous day

Interpretation

The indicator seeks to identify the money flow. It is particularly important that only a reasonable part of the turnover (but not the entire turnover) is included in the calculation. The further the price deviates from the mean value, the more revenue flows in.

There are two common interpretations:

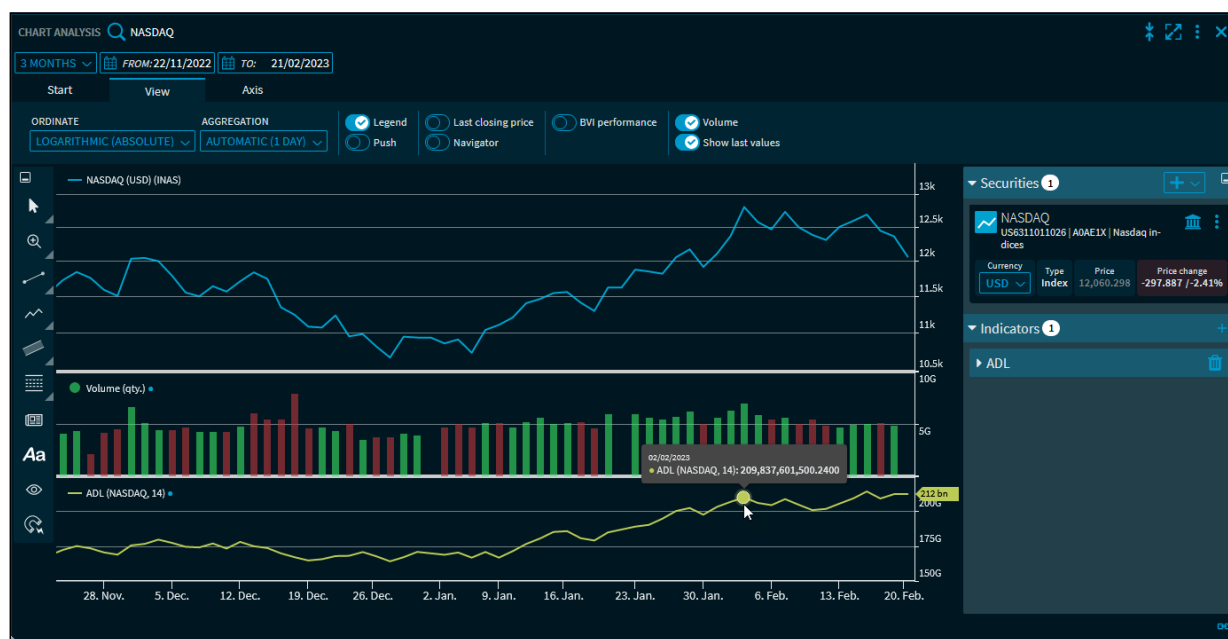
- Search for divergences: A negative signal is generated when the underlying is still climbing new highs, while the indicator is no longer climbing new highs. A positive signal is generated when the actual price development still establishes new lows, but the indicator no longer establishes them.
- On the other hand, there is the possibility to calculate a moving average (MA) for the indicator and to use the intersection of the two lines as a signal generator. A buy signal is given when the indicator crosses its MA from bottom to top, a sell signal when the indicator crosses its MA from top to bottom.

It is recommended never to use the indicator alone, but only in combination with other indicators.

Default setting

- Period: 14

Example: Chart with Accumulation/Distribution Line



The Accumulation/Distribution line is shown in the "Chart Analysis" widget in a new chart window.

Aroon

Type

Trend analysis indicator

Short introduction

The Aroon was developed in 1995 by Tushar Chande. The word "aroon" comes from the Sanskrit language and roughly translates to "dawn's early light". That is, the indicator was designed to respond sensitively to the first signs of a trend reversal.

The representation of the indicator reverses the usual roles of price and time. While indicators usually show changes in price conditions over time, the Aroon indicator represents the duration of the time elapsed since certain events occurred.

Statement

Based on the idea that uptrends regularly produce new highs and downtrends new lows, Chande wanted to measure and compare the times that have passed since the last high or low occurred. In this way, the course of a trend is illuminated and trend phases can be distinguished from sideways phases.

Formula/calculation

The Aroon is represented in the form of the two curves, Aroon Up and Aroon Down or also as an oscillator. First, the time of the current n-period peak is determined. The Aroon Up is then calculated as the percentage position of this point in time within the n-period interval. The same applies to the Aroon Down in relation to the n-period low point. The Aroon curves thus evaluate extreme points. This evaluation decreases with the increasing age of the extreme points. In short: the more recent the point, the higher their importance.

The Aroon Oscillator is the delta between Aroon Up and Aroon Down.

Aroon

$$PSH_t = \text{Max}\{i: 0..n-1 \mid H_{t-i} = \text{Max}_n(H)_t\}$$

$$PSL_t = \text{Max}\{i: 0..n-1 \mid L_{t-i} = \text{Min}(L)_t\}$$

$$\text{Aroon Up} = 100 \times (1 - \text{PSH} \div n)$$

$$\text{Aroon Down} = 100 \times (1 - \text{PSL} \div n)$$

Aroon Oscillator

$$\text{Aroon Osc} = \text{Aroon Up} - \text{Aroon Down}$$

where:

PSH = number of periods since the last n-period peak occurred

PSL = number of periods since the last n-period low point occurred

n = number of periods considered

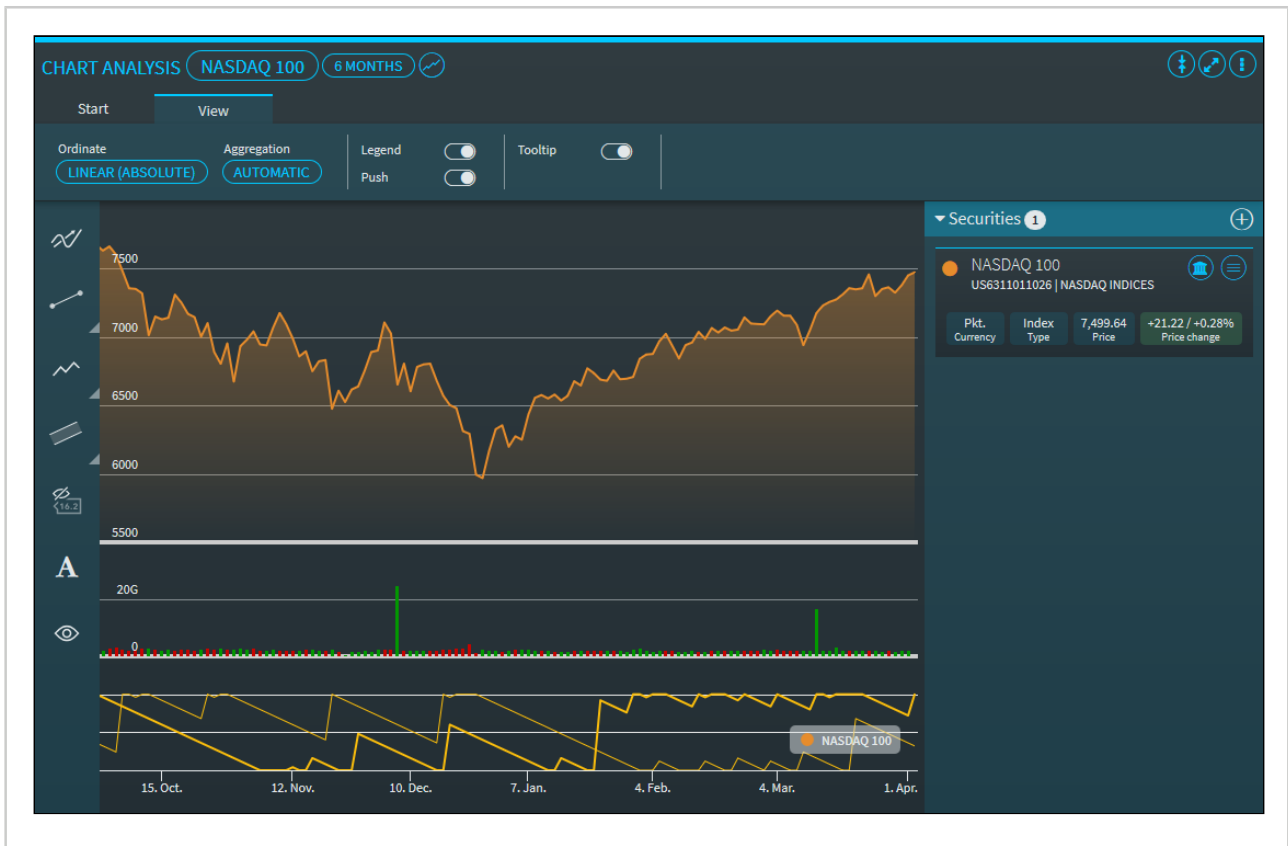
Interpretation

Because an extreme point, as long as it lasts, becomes obsolete by exactly one period per period, the appearance of both Aroon curves is characterised by descending straight lines running at an angle of 45° and vertical ascents at the points of high point change. By moving the window for extreme point observation, the transition to a new extreme point is forced when the previous extreme point leaves the observation interval. The new extreme point is then usually not the newest course, so that the Aroon curves do not necessarily jump to 100% at extreme point changes. The interplay of the Aroon curves shows various patterns. The first reading is to regard the one of the two curves which last assumed a value of 100% as determining for the (possible, coming) trend direction. In pronounced trend phases, the Aroon Up remains above the 70% mark and the Aroon Down below 30%. Falling below the 50% line indicates a weakening of the trend and is often to be interpreted as an indication of coming sharp market movements. A consolidation phase (sideways trend interruption) occurs when both curves fall close to each other in parallel. It is more likely that the lower of the two curves will then determine the trend direction. The Aroon oscillator is somewhat easier to handle. Together with the zero line, it allows you to discover phases in which the Aroon Up notes above the Aroon Down. This represents a further way of assigning upward trends. Crossings of the zero line are therefore to be interpreted as trend changes and good trading signals. In addition to the determination of the trend direction, Chande's indicator is used to interpret the oscillator values as trend strength (in terms of time and not price). The Aroon indicator can also be used as a long-term bull market indicator (for example, 270-day Aroon over 20 years). The performance will then differ little from the buy-and-hold strategy, but like reduce extreme slumps.

Default setting

- Period: 25 (periods)

Example: Chart with Aroon



Aroon Oscillator

Type

Momentum oscillator

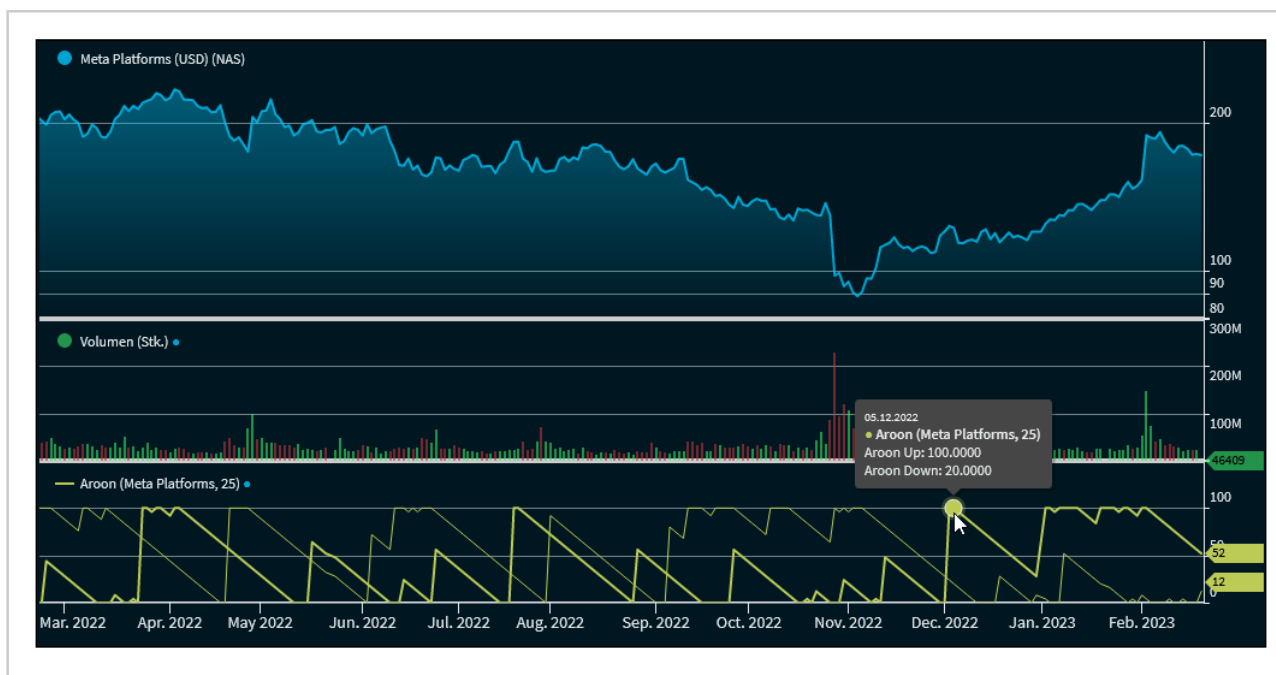
Short introduction

The Aroon Oscillator is the oscillator variant of the Aroon indicator and is calculated as the **Delta of Aroon up and Aroon down line**. For more information, see [Aroon](#).

Default setting

- Period: 25 (periods)

Example: Aroon Oscillator



Average Directional Index

Type

Trend indicator

Short introduction

The Average Directional Index (ADX) developed by Welles Wilder is part of the comprehensive Directional Movement Indicator (DMI) concept. The ADX, also known as the Average Directional Movement Index, is designed to determine trend strengths. The ADX is displayed in a separate chart.

Statement

The starting point for Wilder's considerations is that the current uptrend high is higher than the previous day's high and the current downtrend low is lower than the previous day's low. On the basis of this consideration, the +DI is calculated as an indicator for the upward movement and the -DI as an indicator for the downward movement. The actual DMI relates these two indicators to each other to quantify the direction of movement. Smoothing the DMI gives the ADX, which measures trend intensity. A further smoothing of the ADX results in the ADXR.

Calculation

The ADX combines the positive directional indicator (+DI) and the negative directional indicator (-DI). The combined ADX then shows smoothed results.

To calculate +/-DI, the directional movement is determined (+DM and -DM) first.

Upward trend = Daily high - Previous day's high

Downward trend = Previous day's low - Daily low

If Uptrend > Downtrend and Uptrend > 0, then +DM = Uptrend,

otherwise +DM = 0

If Downtrend > Uptrend and Downtrend > 0, then -DM = Downtrend,

otherwise -DM = 0

After selecting the period (default 14), +DI and -DI are:

+DI = 100x smoothed Moving Average of (+DM)/Average True Range

-DI = 100x smoothed Moving Average of (-DM)/Average True Range

The smoothed Moving Average is calculated on the basis of the selected periods. The Average True Range is a smoothed average of the True Range. Therefore:

ADX = 100x smoothed Moving Average of absolute value of $(+DI - -DI) \div (+DI + -DI)$

Signal = 14D period of the EMA from the ADX

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) – Default setting: DM
- Exponential MA (EMA) – Default setting: smoothing
- Weighted MA (WMA)

Interpretation

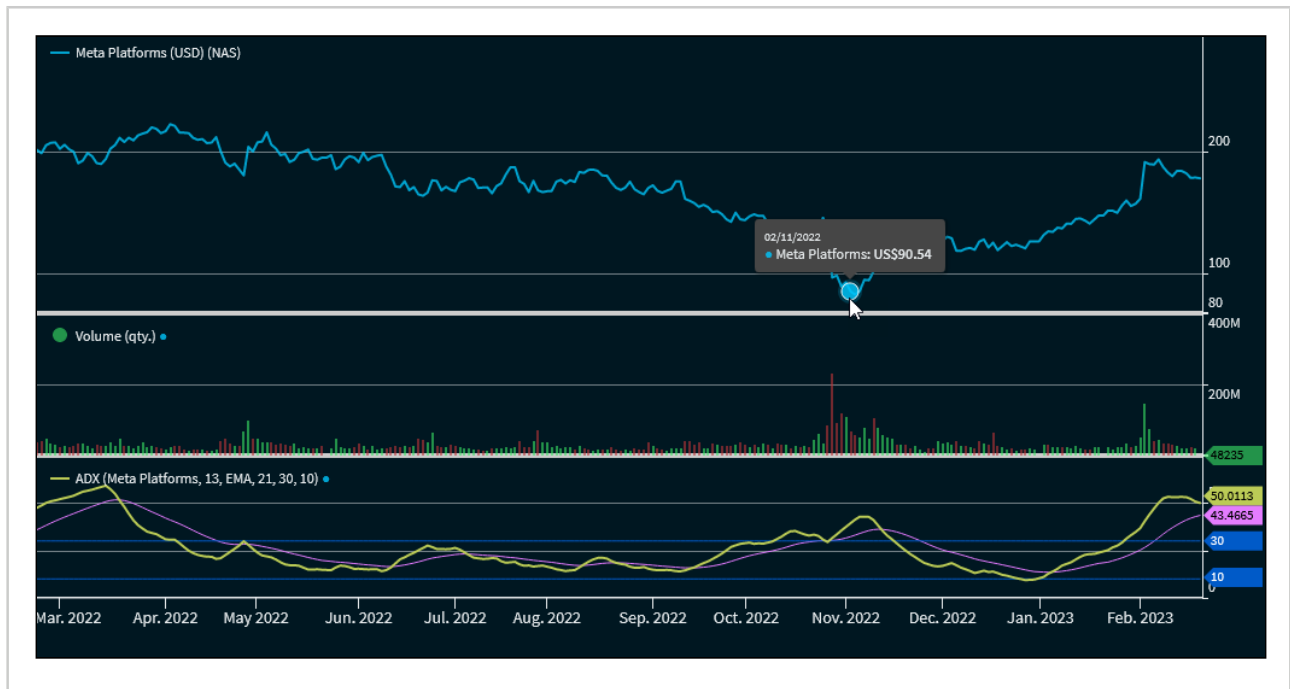
The +DI and -DI form the basis for the DMI. Both measure the strength of their movement, the +DI the upward strength, the -DI the downward strength. If the +DI is above the -DI, then there is an upward trend, in the opposite case, there is a downward trend. The further the two lines lie apart, the stronger the respective trend. The DMI combines the two lines, the higher its value, the stronger the trend. The DMI does not indicate whether this is an upward or downward trend.

Since the DMI is very dynamic, it is generally smoothed and presented as ADX, the interpretation is simpler and safer in this case.

Default setting

- DI period: 14
- DM smoothing method: SMA
- Signal period: 14
- Signal smoothing method: EMA
- High level: 30
- Low level: 10

Example: ADX



Average True Range

Type

Other indicator

Short introduction

The average true range ("ATR", also modified as "Wilder's Volatility") is the moving average of the true-range indicator developed by Welles Wilder in 1978. It is intended to take account of "limit" movements in volatile markets.

Meaning and calculation

The true range is used in some indicators, such as the DMI, to correctly considers days with a low daily trading range but a large gap to the previous day's close in the volatility calculation. The true range is always positive and represents the maximum of the following three formulas:

- Distance between daily high and daily low
- Distance between daily high and daily low
- Distance between today's high and the previous day's low

The average true range is then a MA, generally using 14 days, of the true ranges. The result is the "Average True Range" (ATR).

Interpretation

The average true range returns no individual signals. A rising indicator curve only signals an increasing volatility, while a falling indicator curve signals a falling volatility.

Default setting

- MA period: 14 periods

Example: Average True Range



Awesome Oscillator

Type

Momentum oscillator

Short introduction

Bill Williams' Awesome Oscillator is used to determine the momentum of a market.

Statement

While the indicator closely follows the price development, it also indicates the strength of the trend. The fluctuation shows the market movement and thus indicates the market situation. The Awesome Oscillator is a simple MA oscillator, determining the difference between two MAs with different periods just as other oscillators do.

Formula/calculation

$$\text{MEDIAN PRICE} = (\text{HIGH} + \text{LOW}) \div 2$$

$$\text{AO} = \text{SMA}(\text{MEDIAN PRICE}, 5) - \text{SMA}(\text{MEDIAN PRICE}, 34)$$

where:

MEDIAN PRICE = Median price

SMA = Simple Moving Average

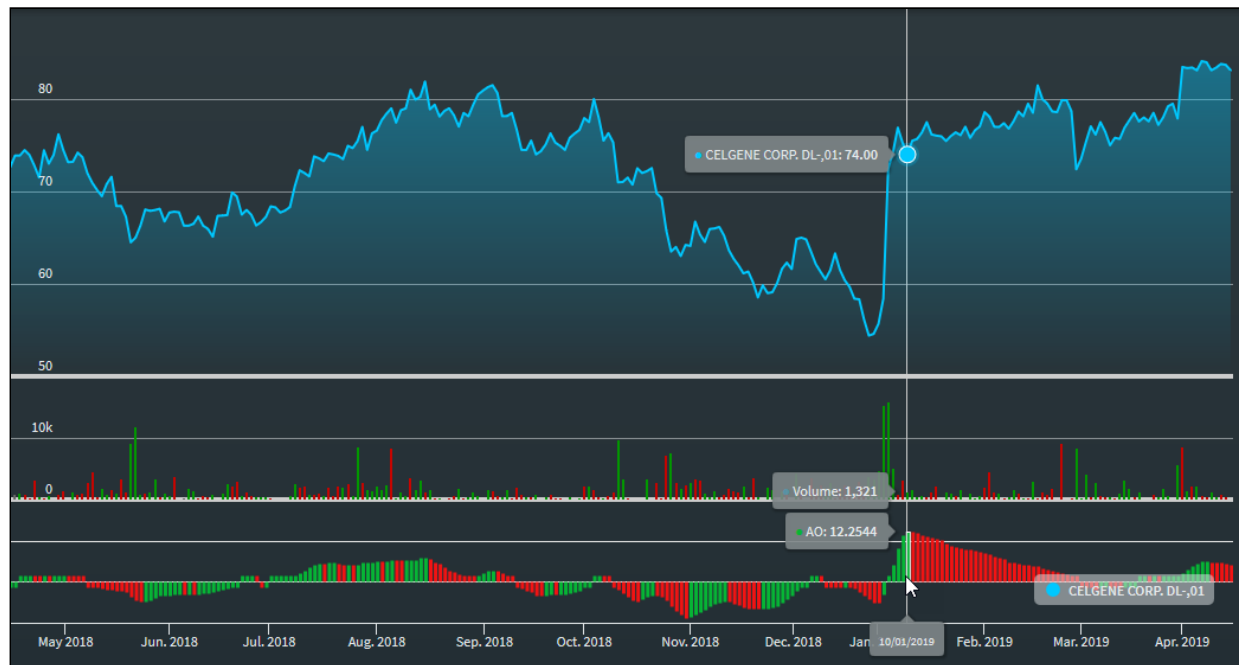
Interpretation

The Awesome Oscillator is displayed as a histogram. Rising trends are visualised with green bars and falling trends with red ones. For example, if the zero line is broken through from below, we can assume the end of a downward trend and so on.

Default setting

- Period: 14 periods

Example: Awesome Oscillator



Beta

Type

Comparison indicator

Description

The "Beta" indicator calculates the beta between two securities or between security and benchmark/index. This means that at least two securities (or at least two time series) must be displayed in the "Chart analysis" widget. In the indicator settings, select the corresponding time series or securities.

The beta thus indicates, for example, how strongly a share fluctuates compared to the market. With a value of +1, the share fluctuates as much as the average. If the value is below +1, this indicates a lower fluctuation. With a value above +1, the share fluctuates more than the average. A negative beta means that the return of the share moves in the opposite direction to the benchmark.

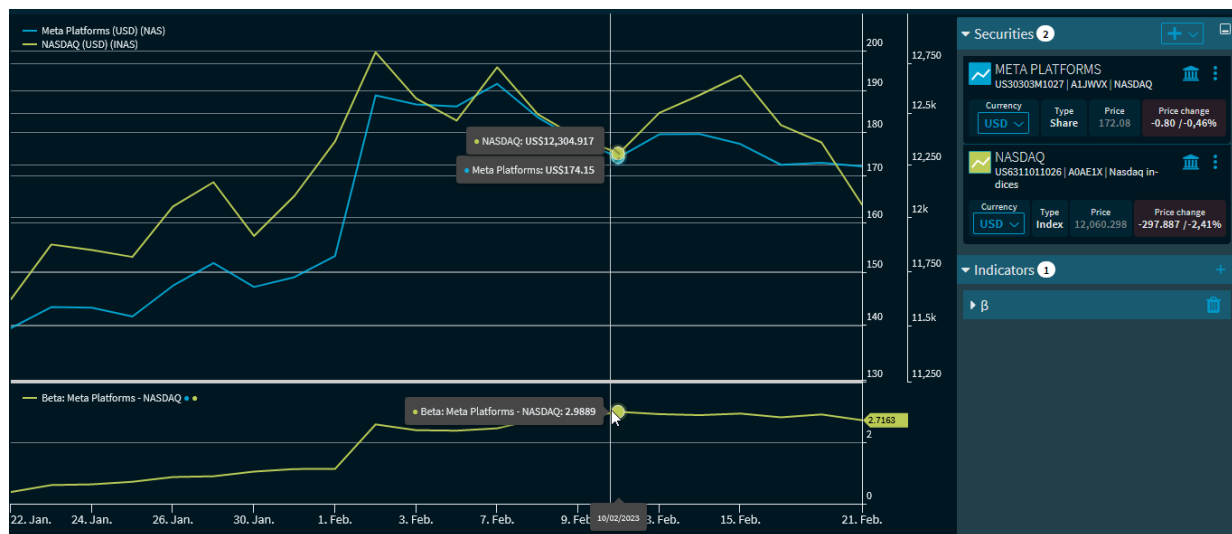
Formula/calculation

$$\text{Beta} = \text{Covariance}(\text{security yield}, \text{benchmark yield}) / \text{Variance}(\text{benchmark yield})$$

Parameter

- Time series 1
- Time series 2
- Period: The default setting is 14 periods

Example: Beta



Bollinger Bands

Type

Trend indicator

Short introduction

Bollinger bands, named after their inventor John Bollinger, are based on a moving average with an upper and lower band along with the daily movements of the instrument's price. The indicator is often used for derivatives. Bollinger Bands are usually abbreviated as "BB".

Statement

Bollinger bands try to capture prices using an upper and lower line. They use a phenomenon known from statistics. Most values are usually close to the mean value, so some outliers "spread out" upwards and downwards. Gauss put this in mathematical form with his normal distribution function.

The mean value is represented by a moving average from which two lines are plotted a standard deviation away in the positive and the negative direction, respectively. The standard deviation indicates the average deviation from this price. The upper Bollinger Band is the MA plus the standard deviation, the lower band is the MA minus the standard deviation. If the standard deviation increases, then the corridor between the bands also increases. Thus, the indicator reacts to an increasing volatility (that is, an annualised standard deviation).

Depending on the intended interpretation, you can contract or widen the corridor by multiplying the standard deviation by a corresponding factor.

Formula/calculation

After constructing a moving average, the following formula applies:

Upper band = $MA + s$

Lower band = $MA - s$

where:

s = standard deviation between price and MA

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

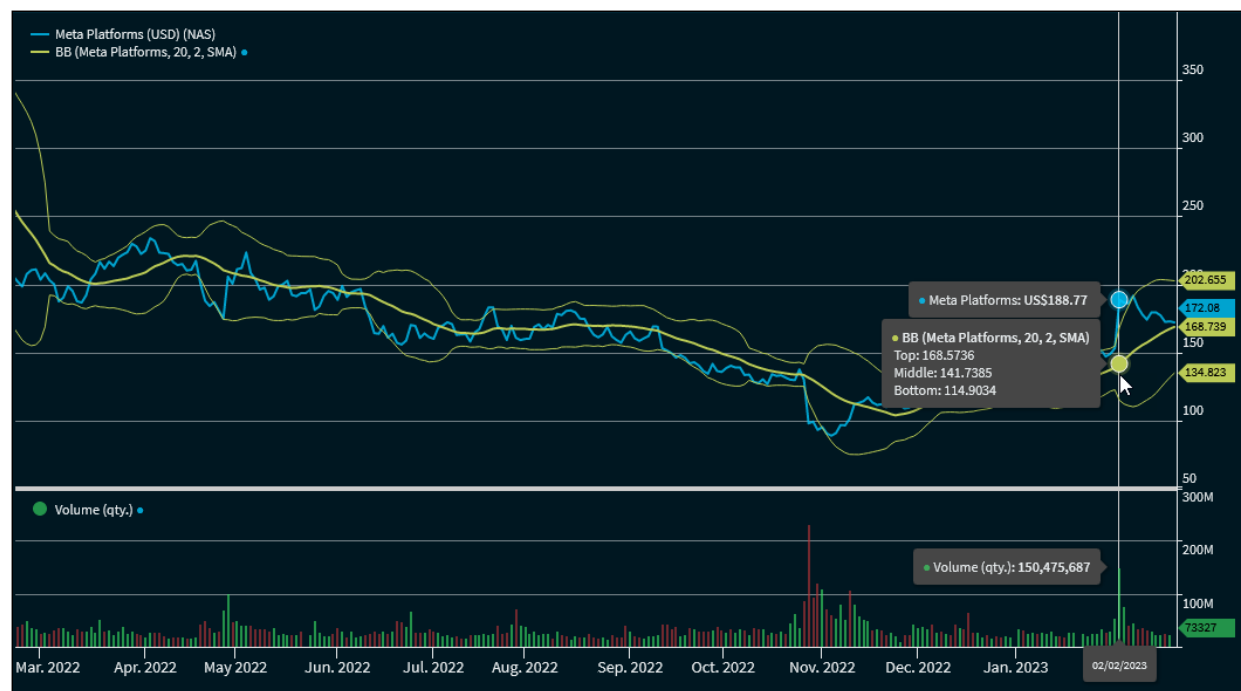
Due to their statistical basis, the Bollinger Bands actually provide only one result. They bracket the area in which a certain percentage of the prices changes. For one standard deviation, this is about 70%, for a double standard deviation, about 95% of the prices. In addition, it can be assumed that the prices touch the upper or lower edge and then move in the opposite direction.

However, a touched Bollinger Band does not allow us to infer a trading signal. Bollinger Bands are mostly used with other indicators, for example, the MACD. If the price reaches a Bollinger Band and the changes differs between the MACD and the price of the underlying, then we can assume that the price moves again in the direction of the other Bollinger Band.

Default setting

- Basis: 20-Day Moving Average
- Smoothing: MA
- Standard deviation: double

Example: Bollinger Bands



Bollinger Bands %B

Type

Trend indicator

Short introduction

Bollinger bands, named after their inventor John Bollinger, are based on a moving average with an upper and lower band along with the daily movements of the instrument's price. The "Bollinger Bands %B" indicator is a variant of this classic. Bollinger Bands are usually abbreviated as "%B".

Statement

The "Bollinger Bands %B" indicator shows where the price is in relation to the underlying "bands".

Formula/calculation

$$\%B = (\text{Price} - \text{Lower Band}) / (\text{Upper Band} - \text{Lower Band})$$

Interpretation

The indicator is helpful in identifying trends and trading signals.

Default setting

Bollinger Bandwidth

Linked to series:

SAP SE O.N. ▾

Period:

20

Standard deviation:

2

Colour:

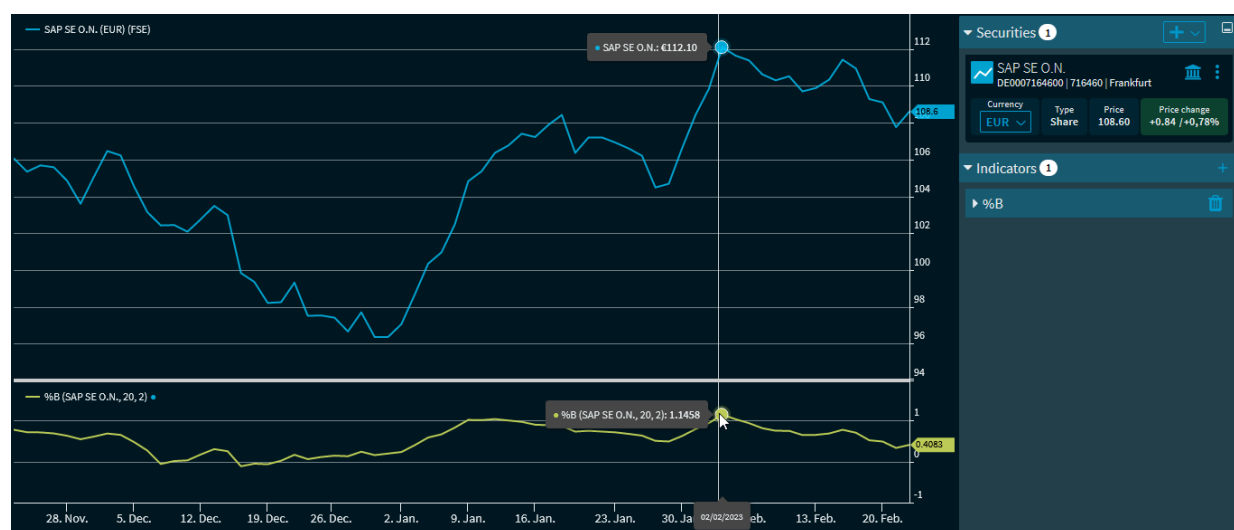
rgba(187, 203, 86, 1)

BACK

ADD

- Basis: 20-Day Moving Average
- Smoothing: MA
- Standard deviation: double

Example: Chart with Bollinger Bands %B



Bollinger Bandwidth

Type

Trend indicator

Short introduction

The "Bollinger Bandwidth" indicator is a further development of the well-known Bollinger Bands. It was also developed by John Bollinger and is calculated from the difference between the upper and lower Bollinger Bands divided by the middle band. The default setting of the parameters corresponds to those of the Bollinger Bands.

Statement

If the price volatility increases, then the distance between the outer bands increases and so does the bandwidth. In times of decreasing price fluctuations, the distance between the outer bands decreases and thus the bandwidth decreases.

Formula/calculation

Bollinger Bandwidth = (Upper Bollinger Band - Lower Bollinger Band) ÷ Medium Bollinger Band

Interpretation

The Bollinger Bandwidth helps to distinguish these phases based on the observation that phases with little movement and phases with a lot of movement are replaced in the markets. Low values indicate weak market activity. The longer these phases last, the more likely it is that prices will move sharply. High values show that there is a lot of movement in the underlying.

The indicator can therefore indicate impending price movements, but it cannot predict the direction of these movements. The indicator signals the strength of the prevailing buying or selling pressure.

Default setting

- Basis: 20-Day Moving Average
- Standard deviation: double

Chaikin Money Flow

Type

Other indicator

Short introduction

The Chaikin Money Flow (CMF) by Marc Chaikin is actually a volume indicator. It is intended to determine whether money flows into or out of a share (accumulation/distribution). The original use of shares has meanwhile been extended to foreign exchange and commodities. It is always possible to use this function if transactions for a security are published.

Statement

With his CMF, Marc Chaikin pursued the goal of expanding the "On Balance Volume" indicator by setting the daily closing prices in relation to the trading volume. To do this, the sales are multiplied by the prices. The indicator thus indicates whether the price trend is influenced by accumulation (buying pressure) or distribution (selling pressure).

Formula/calculation

$AD_t = (((C_t - L_t) - (H_t - C_t)) \div (H_t - L_t)) \times V_t$

$$CMF_t = \sum AD_{t-i} \div \sum V_{t-i}$$

the sums run between $i = 0$ and $i < n$

Interpretation

The CMF is displayed in its own chart and oscillates around the zero line. The scale is open in both directions, which opens up the possibility of unlimited accumulation and distribution. Above the zero line, the security is in demand, below it it is being sold. The CMF is usually displayed in green in the positive area and red in the negative area. Every time a Chaikin Money Flow forms higher highs or lower lows, buying or selling pressure increases significantly, which is more important than the same chart patterns in the security price.

Default setting

- Period $n = 14$ or 21 days

Chaikin Oscillator

Type

Volume indicator

Short introduction

Marc Chaikin developed the Chaikin Oscillator based on his Accumulation/Distribution Line.

Statement

The idea of the oscillator and thus is to [Accumulation/Distribution Line](#) indicate a trend change in the underlying oscillator, that is, to perform a typical oscillator task. On the Accumulations/Distributions line two exponential MAs are calculated, one short and one long. Then the long MA is subtracted from the short MA. The result is an upward and downward open curve, which fluctuates around the zero line.

Formula/calculation

$$CO = EMA_x(AD) - EMA_y(AD)$$

where:

AD: Accumulations/Distributions line

x: Short-term MA

y: Long-term MA

Interpretation

Important for the application of the indicator is the general understanding of the basic indicator, the Accumulations/Distributions line. Please refer to this indicator for more details. For the Chaikin oscillator, there are two different interpretation possibilities, similar to other oscillators.

First, there is the search for divergences: A negative signal is generated when the underlying is still climbing new highs, while the indicator is no longer climbing new highs. A positive signal is generated when the actual price development still establishes new lows, but the indicator no longer establishes them.

On the other hand, there is the possibility to calculate an MA for the indicator and to use the intersection of the two lines as a signal generator. A buy signal is given when the indicator crosses its MA from bottom to top, a sell signal when the indicator crosses its MA from top to bottom.

Default setting

- 3 days for the short MA

- 10 days for the long MA

Chaikin's Volatility

Type

Volatility indicator

Short introduction

Marc Chaikin developed this indicator. Volatility is measured here by the difference between the daily low and the daily high.

Statement

Chaikin's Volatility (CVI) fluctuates around the zero line, a positive indicator value indicates increasing volatility (that is, increasing differences between high and low). A negative indicator value shows a decreasing volatility, that is, a decreasing difference between high and low.

For the calculation, the difference between the daily high and the daily low is formed first. An MA is calculated on this and a ROC is calculated on this.

Formula/calculation

Calculation of an MA (for example, 10 days) on the difference of daily high and low:

EMA (H-T)

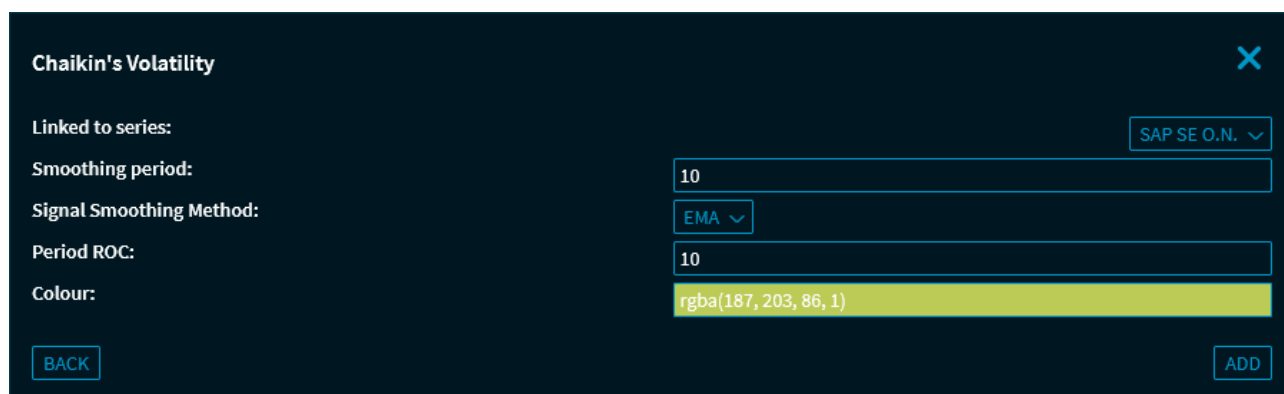
Calculation of the percentage change of this MA over a given period n (such as 10 days):

$$\frac{[EMA(H-T) - (EMA(H-T) \text{ n periods prior})]}{(EMA(H-T) \text{ n periods prior})} * 100$$

Interpretation

With the setting for MA and ROC described, the indicator generates buy signals when it crosses the zero line from bottom to top and sell signals when it crosses the zero line from top to bottom. Chaikin's Volatility is usually not used to derive specific signals, but rather to "round out" a trading system.

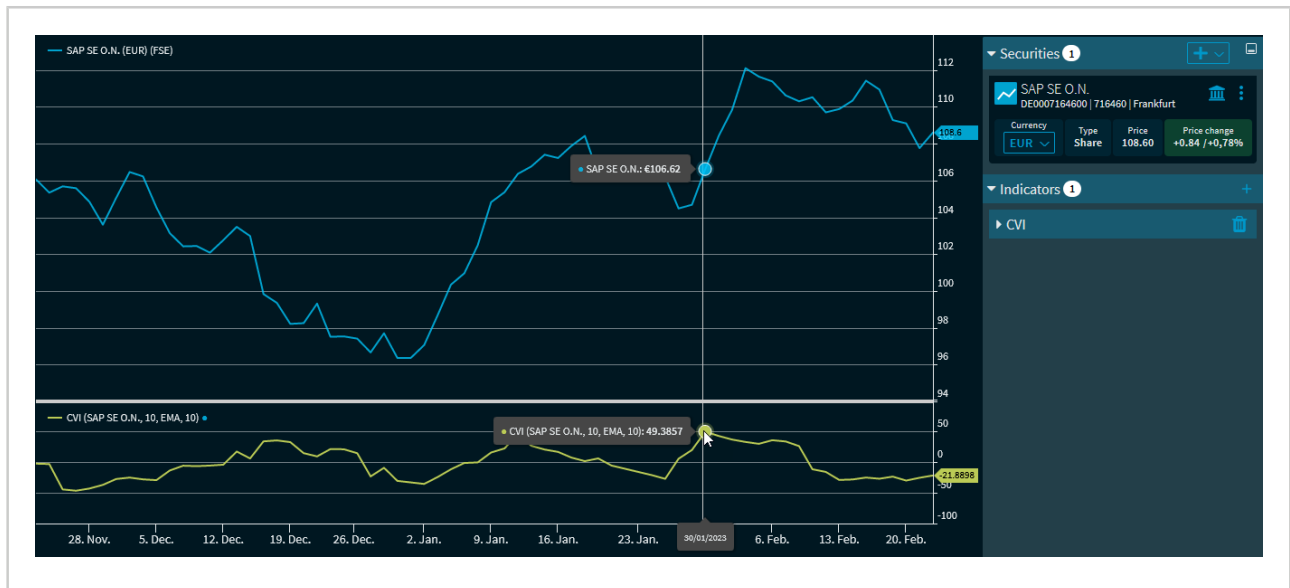
Default setting



Smoothing methods you can select:

- EMA (exponential moving average) (default setting)
- MA (moving average)
- WMA (weighted moving average)

Example: Chaikin's Volatility



Commodity Channel Index

Type

Trend indicator

Short introduction

The Commodity Channel Index (CCI) was developed by Donald Lambert. With this indicator, he wanted to determine the beginning and end of commodity cycles.

Statement

The CCI calculates a value that measures the distance to the MA. Starting from a certain distance, Lambert assumes a new trend, that is, the indicator provides a signal.

Formula/calculation

The calculation of the indicator is complex because it is carried out in several steps. In the first step, a so-called typical price curve is established. For this the highest, lowest and last price is added and then divided by 3. A MA is then calculated on the basis of these typical prices. In the third step, the standard deviation typical price / MA is calculated. The last step determines the actual CCI. The indicator fluctuates around the zero line, but is not limited up and down.

$$X_t = (H + L + C) \div 3$$

$$MAX_t = (X_t + X_{t-1} + X_{t-2} + \dots + X_{t-n+1}) \div n$$

$$sX_t = (\text{abs}(X_t - MAX_t) + \text{abs}(X_{t-1} - MAX_t) + \dots + \text{abs}(X_{t-n+1} - MAX_t)) \div n$$

$$CCI = (X_t - MAX_t) \div (0,015 \times sX_t)$$

where:

X = Significant price

MAX = Moving average of X

sX = Standard deviation of X

abs = absolute value

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

In contrast to many other trend followers and trend intensity indicators, the zero line itself has no significance for this indicator. According to Lambert, two further lines are generally entered at 100 and -100. If the indicator moves between the two lines, Lambert speaks of a trendless market because the distance between the price and the MA is too small according to the CCI definition to detect a trend.

A buy signal is given when the indicator breaks through the 100 line from the bottom to the top. This position must be sold (closed out) when the indicator falls below the 100 line again.

Default setting

- Normal application: 20 weeks
- Extremely short analysis: 20 days
- Smoothing: MA

Example: Chart with CCI



Coppock curve

Type

Momentum oscillator

Short introduction

The Coppock curve, developed by Edwin Coppock, is based on **Momentum** and **MA**. It is used to identify long-term (multi-year) trends, and rather unsuitable for short-term trends.

Statement

The Coppock curve measures long-term trends by adding two long-term momentums. A weighted MA is formed on the basis of this sum. Because the base of the indicator is formed by momentum, the Coppock curve also oscillates around the zero line.

Formula/calculation

$$\text{Coppock curve} = \text{WMA}_x(\text{ROC}_y + \text{ROC}_z)$$

where: WMA = Weighted Moving Average (weighted moving average)

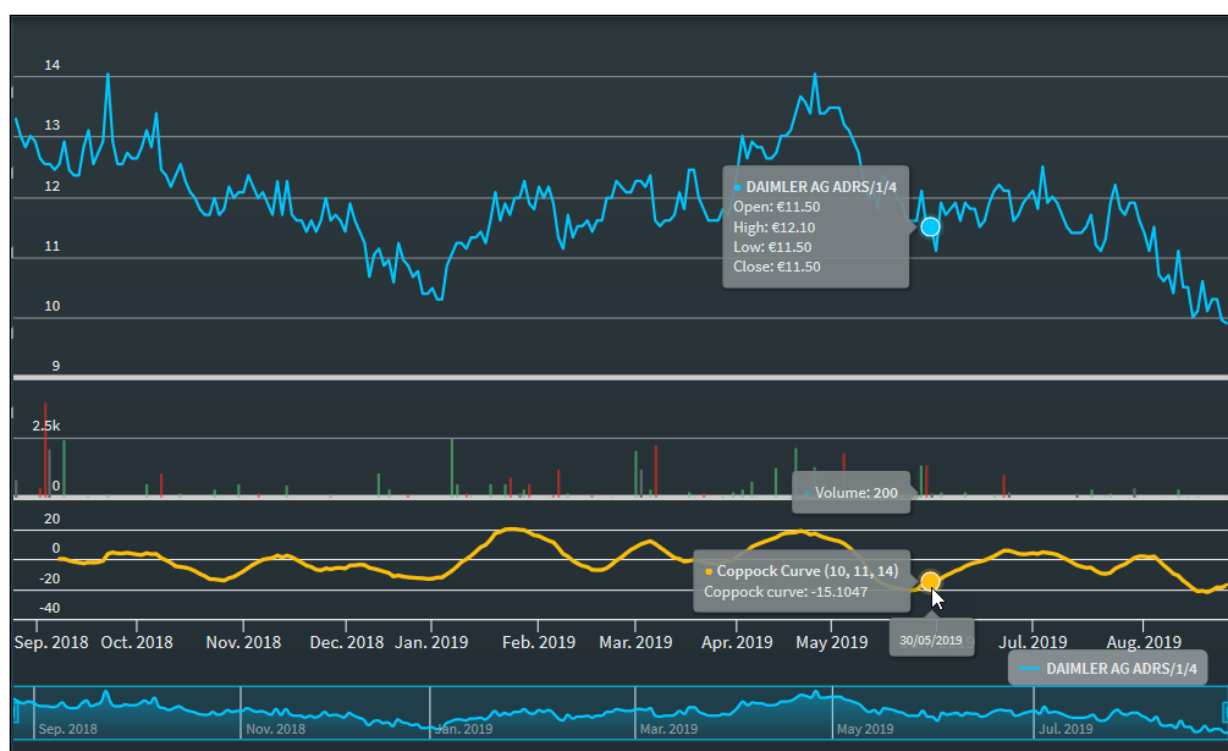
Interpretation

The Coppock curve is interpreted in two different ways. In the standard interpretation, the turning of the line above the zero line downward is interpreted as a sell signal. The turning of the line below the zero line upward is interpreted as a buy signal.

Default setting

- Weighted MA: 10 weeks
- Short ROC: 11 weeks
- Long ROC: 14 periods

Example: Chart with Coppock curve



Correlation

Type

Comparison indicator

Description

The "Correlation" indicator calculates the correlation between two securities. This means that at least two securities (or at least two time series) must be displayed in the "Chart analysis" widget. In the indicator settings, select the corresponding time series or securities.

Correlation is a statistic that shows how two values move in relation to each other.

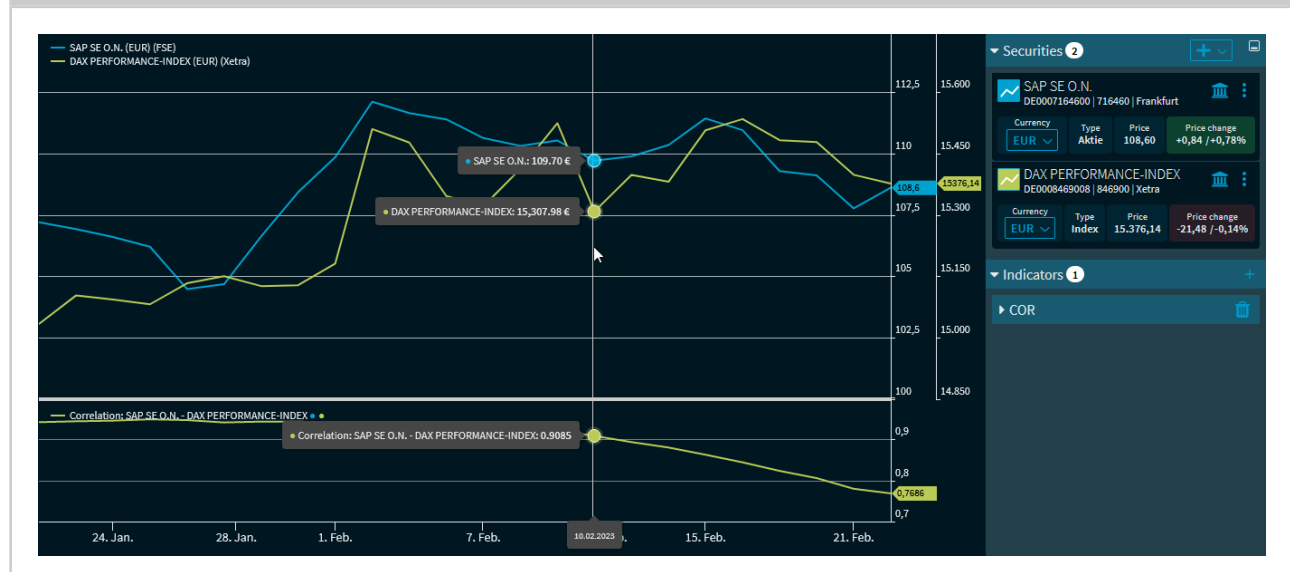
Formula/calculation

$$r = \text{Cov}(\text{security 1}, \text{security 2}) / (\text{standard deviation security 1} * \text{standard deviation security 2})$$

Parameter

- Time series 1
- Time series 2
- Period: The default setting is 30 periods

Example: Correlation



Detrended Price Oscillator

Type

Momentum oscillator

Short introduction

The Detrended Price Oscillator (DPO) is a technical indicator that attempts to eliminate disruptive trends by using a time-delayed MA. In this way, current oversold and overbought phases can be identified more effectively.

Statement

The DPO attempts to represent market momentum, adjusted for short-term price trends. It calculates a moving average of adjustable length and measures the difference between the current price and the value of the average of half a calculation length in the past. This is intended to measure pure market activity, which is always distributed around an average value.

Formula/calculation

To calculate the Detrended Price Oscillator:

1. Specify the time interval n to be analysed.
2. Calculate a simple MA for n periods.

$$DPO = C_t - MA(t - n \div 2 + 1)$$

Interpretation

The indicator provides the same information as a Momentum Oscillator, a common Moving Average Oscillator or a Stochastic Oscillator. Rising values show an increasing dynamic of rising prices. Falling values show an increasing dynamic of falling prices. Crossing above or crossing below the centerline indicates a change in the short-term price trend. The position to the signal line best represents information about up or down dynamics.

Default setting

- Period: 21 periods

Example: Detrended Price Oscillator



Double Exponential Moving Average

Type

Other indicator

Short introduction

The Double Exponential Moving Average ("DEMA") was introduced in 1994 by Patrick G. Mulloy as a modification of the [Exponential Moving Average \(EMA\)](#) with the aim of eliminating the time *lag* of the

average compared to the smoothed time series. The purpose of moving averages is generally to filter out the random percentage over a time series in order to identify the main trend movements.

(The variant "DEMA2" is in turn an extension of DEMA that introduces a second smoothing parameter for the trend.)

Statement

DEMA and DEMA2 are linear combinations of single, double and triple exponential averages. The double and triple averages are used to estimate the trend-related correction.

Formula/calculation

$$EMA_1 = EMA_n(S)$$

$$EMA_2 = EMA_n(EMA_n(S))$$

$$EMA_3 = EMA_n(EMA_n(EMA_n(S)))$$

$$DEMA = EMA_1 + (EMA_1 - EMA_2)$$

$$= 2 \times EMA_1 - EMA_2$$

where:

S = Time series to be smoothed

n = Period number for DEMA

Interpretation

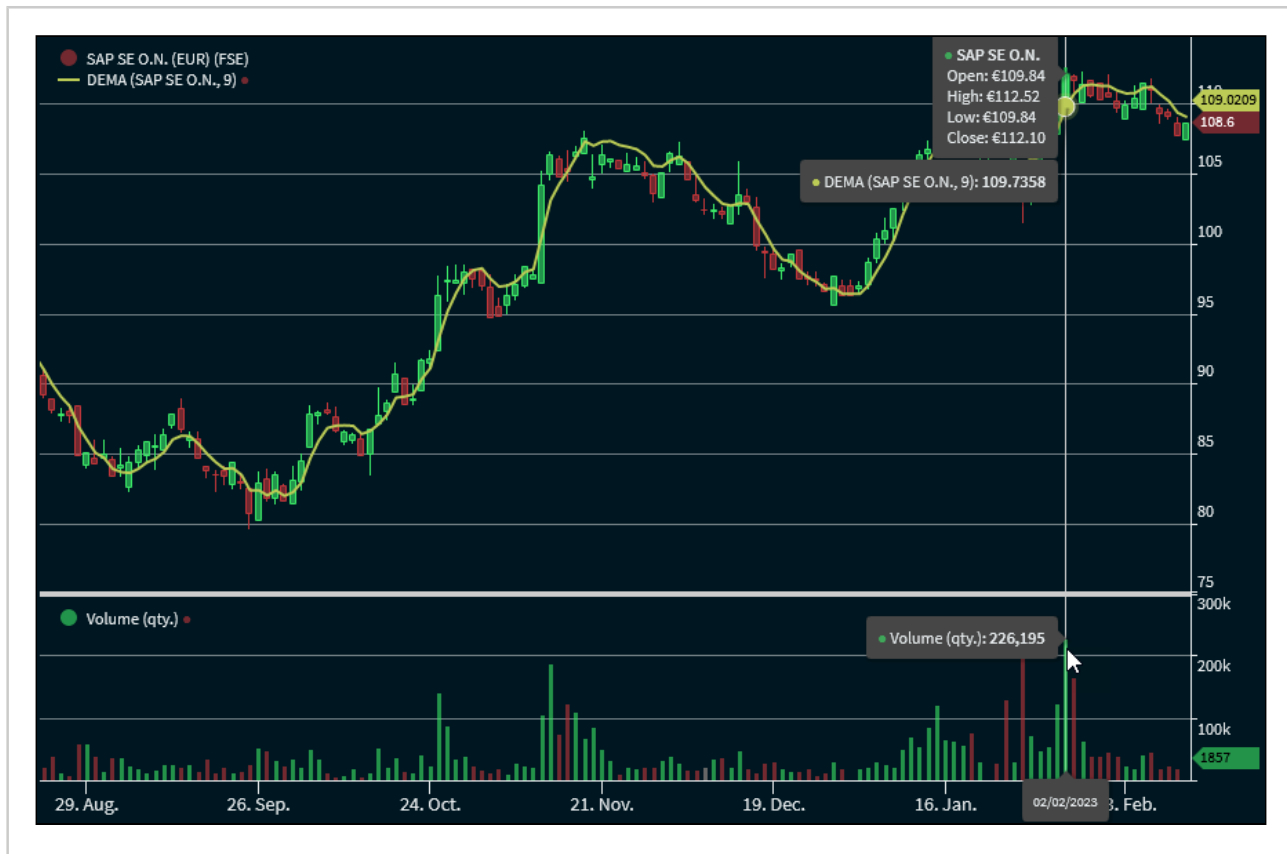
The DEMA supports traders in the early detection of a trend reversal. In practice, the indicator is used in combination with the [MACD](#) and [Triple Exponential Moving Average](#).

In a "MACD-DEMA" trading system, for example, the principle of linear combination of its exponential averages from DEMA could be applied to the MACD in its default setting (12/26/9). This trading system provides buy signals when the indicator breaches its trigger from the bottom up, and sell signals when it breaches its trigger from the bottom down.

Default setting

- MA period: 9 periods

Example: DEMA



Double Smoothed Stochastic

Type

Momentum oscillator

Short introduction

The "Stochastic" indicator was the subject of various improvement efforts. The Double Smoothed Stochastic (DSS) was developed by William Blau and published in 1991. It is derived from the Stochastic indicator (in the most commonly used slow variant) and uses double exponential smoothing instead of linear smoothing.

The Double Smoothed Stochastic is primarily aimed at supporting swing traders to detect signals of over and under selling. The DSS is displayed in a separate chart.

Formula/calculation

$$DSS = 100 * EMA_y(EMA_x(C - L_n)) / EMA_y(EMA_x(H_n - L_n))$$

where:

n = number of periods for the range

x,y = Period figures for double smoothing

For the two smoothing periods and the signal line, the following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default signal setting
- Exponential MA (EMA) Standard smoothing setting
- Weighted MA (WMA)

Interpretation

- A buy signal is generated if the DSS crosses the 50% line from below.
- A sell signal is generated if the DSS crosses the 50% line from the top.
- The market is considered "oversold" if the DSS falls below the 30% line.
- The market is considered "overbought" if the DSS rises above the 70% line.

Default setting

Double Smoothed Stochastic

Zeitraum:

5

Glättungszeitraum 1:

7

Glättung 1:

EGD

Glättungszeitraum 2:

3

Glättung 2:

EGD

Unterer Bereich:

20

Oberer Bereich:

80

Zeitraum Signal:

13

Signalmethode:

GD

Farbe:

rgba(187, 203, 86, 1)

Farbe unterer Bereich:

#005ac8

Farbe oberer Bereich:

#005ac8

Farbe Signal:

rgba(228, 124, 255, 1)

ZURÜCK

HINZUFÜGEN

- $n = 5$
- $x = 7$
- $y = 3$

Example: DSS



Exponential Moving Average

Type

Trend indicator

Short introduction

The Exponential Moving Average ("EMA") is an extension of the weighted [moving average](#). Not only does it rule out the criticism that all price data is weighted equally (as is the case with the Simple Moving Average), it also takes into account all available price data. This means that prices outside the selected parameter no longer fall outside the calculation.

Statement

The EMA uses a smoothing technique which adds a part of the previous Moving Average to a part of the current price.

The EMA is superior to the simple MA in its reactivity. Compared to the weighted MA, the EMA cannot be said to have a general advantage in terms of reactivity. Rather, these two moving average lines alternate in their responsiveness.

Formula/calculation

$$EMA_t = EMA_{t-1} + (SF \times (C_t - EMA_{t-1}))$$

where:

EMA_t = Current value of the exponential MA

SF = scoring factor (most common scoring factor): $2 \div (n + 1)$

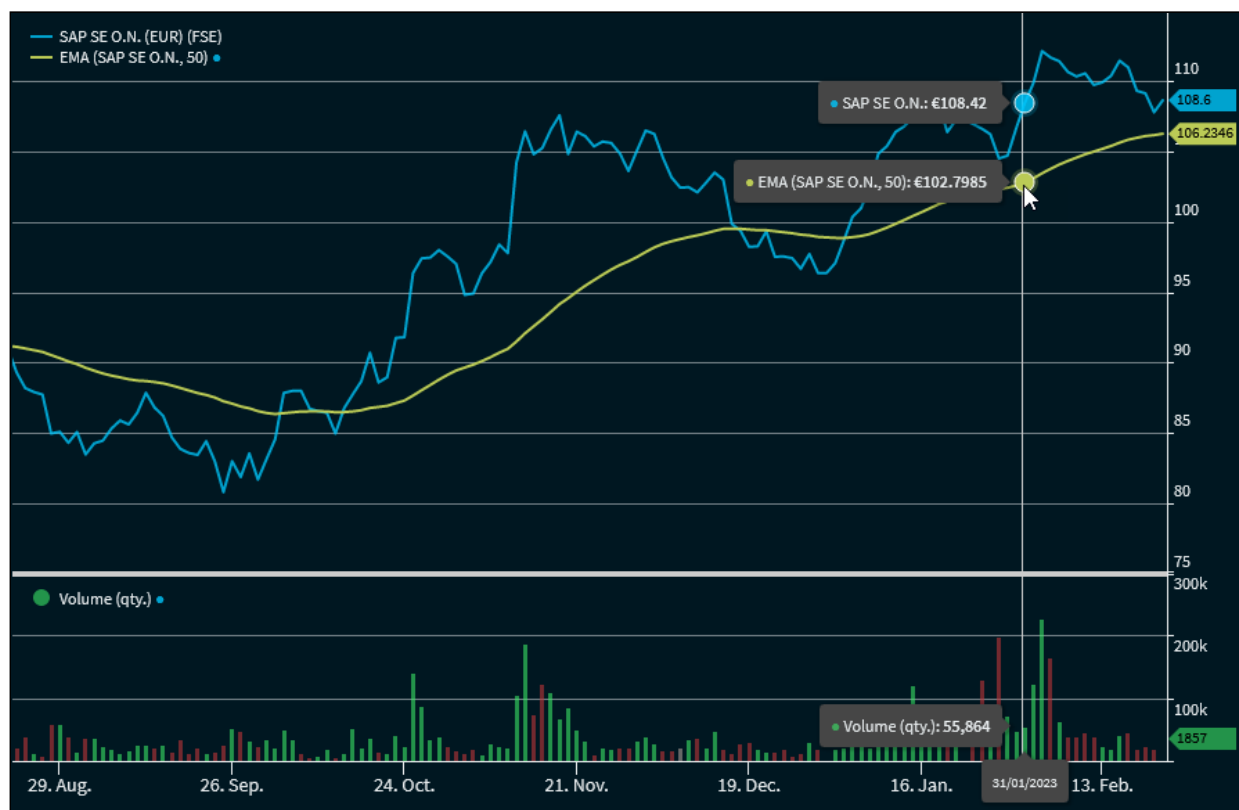
Interpretation

The EMA is helpful in confirming trends, but can also help to find a possible sale signal. As with all gliding averages, however, an EMA reacts with a delay. It uses past numbers which means that the price is always in motion before the EMA starts.

Default setting

- MA period: 50 periods

Example: Exponential Moving Average



Fast Stochastic

Type

Momentum oscillator

Short introduction

The "Fast Stochastic" indicator (or "Stochastic") was developed by George C. Lane and is one of the most common indicators. The Fast Stochastic is displayed in a separate chart.

Statement

The idea behind the stochastic is that in an uptrend the daily closing prices are closer to the high of the day, while in a downtrend the closing prices are closer to the low. A trend reversal is indicated by the fact that closing prices are increasingly moving in the opposite direction. If the value then closes at a daily high or low, the trend is considered to be over.

The stochastic is based on 2 lines, the %K line and the %D line. The %D line is a MA of the %K line. Both lines vary between 0 and 100. In addition to this Fast Stochastic indicator, the Slow Stochastic is also calculated. In this case, the %D line is taken as a basis and a MA is calculated on its basis.

Formula/calculation

$$\%K = ((C - L_n) \div (H_n - L_n)) * 100$$

$$\%D = 3\text{-day MA of \%K}$$

$$\%K = \text{Fast Stochastic}$$

$$\%D = \text{Slow Stochastic (moving average of \%K)}$$

where:

MA = Simple Moving Average

C = Close (current close price)

L_n = Low (lowest price in analysed period)

H_n = High (highest price in analysed period)

(%K is multiplied by 100 to shift the comma by two digits)

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

A value of 0 (zero) indicates that the current closing price is the lowest price in the observation period, conversely a value of 100 indicates that the closing price is the highest value. As with [RSI](#), values close to the maximum indicate overbought situations, values close to the minimum indicate oversold situations. A crossing of the upper extreme line (usually at 70-80%) from top to bottom generates a sell signal, a crossing of the lower extreme line (usually at 20-30%) from bottom to top generates a buy signal.

In addition to this most common interpretation, the crossing of the two lines, preferably within the extreme zones, also generates signals (similar to [MACD](#)).

Default setting

- %K: 14 periods (stochastic period)
- D period: 3 periods
- Smoothing: MA
- Overbought: 80%
- Oversold: 20%

Stochastic fast

%K:

14

%D:

3

%D smoothing:

SMA

Overbought:

20

Oversold:

80

Colour:

rgba(187, 203, 86, 1)

Colour oversold:

#005ac8

Colour overbought:

#005ac8

Colour signal:

rgba(228, 124, 255, 1)

BACK

ADD

Example: Fast Stochastic



Moving Average

Type

Trend indicator

Short introduction

Moving averages are among the oldest and by far the most widely used indicators. As a rule, they are abbreviated with "MA". MAs can be calculated in very different ways and can be used in many different ways. In addition to many independent analyses, many other indicators are also based on MAs. MAs form the basis of most technical analyses.

Statement

The term "moving average" expresses the two most important characteristics of the indicator. "Average" means that an average value of the prices is calculated over a certain number of days. "Moving" means that the calculation is moved forward by one day with each new price, that is, the last price is not considered in the calculation.

The average is "trend following" in the truest sense of the word, that is, the MA is of course the simplest (and probably also the most important) of all trend indicators.

In the course of the years, more and more different calculation types were introduced for the MA, for example, the weighted, geometrical, exponential or triangular calculation. Various other ideas were added, such as horizontal or vertical offset.

Formula/calculation

Simple MA:

$$MA_t = (C_t + C_{t-1} + C_{t-2} + \dots + C_{t-n+1}) \div n$$

where:

MA_t = Current value of the simple MA

Default calculation of the moving average; all prices are equally weighted in the calculation.

Interpretation

As indicated by smoothing, an MA moving upwards indicates an uptrend, an MA moving downwards indicates a downtrend. In principle, the inertia of MAs increases as the calculation period increases. Shorter analysis periods will return a new signal more quickly. In market phases with shorter trends, you should select shorter periods for the calculations.

In market phases with the strongest trends, you should use longer periods. The disadvantage of short calculation periods is that there are often false signals, whereas with a long calculation period, the signals are often only sent when a large part of the price movement is already upwards or downwards.

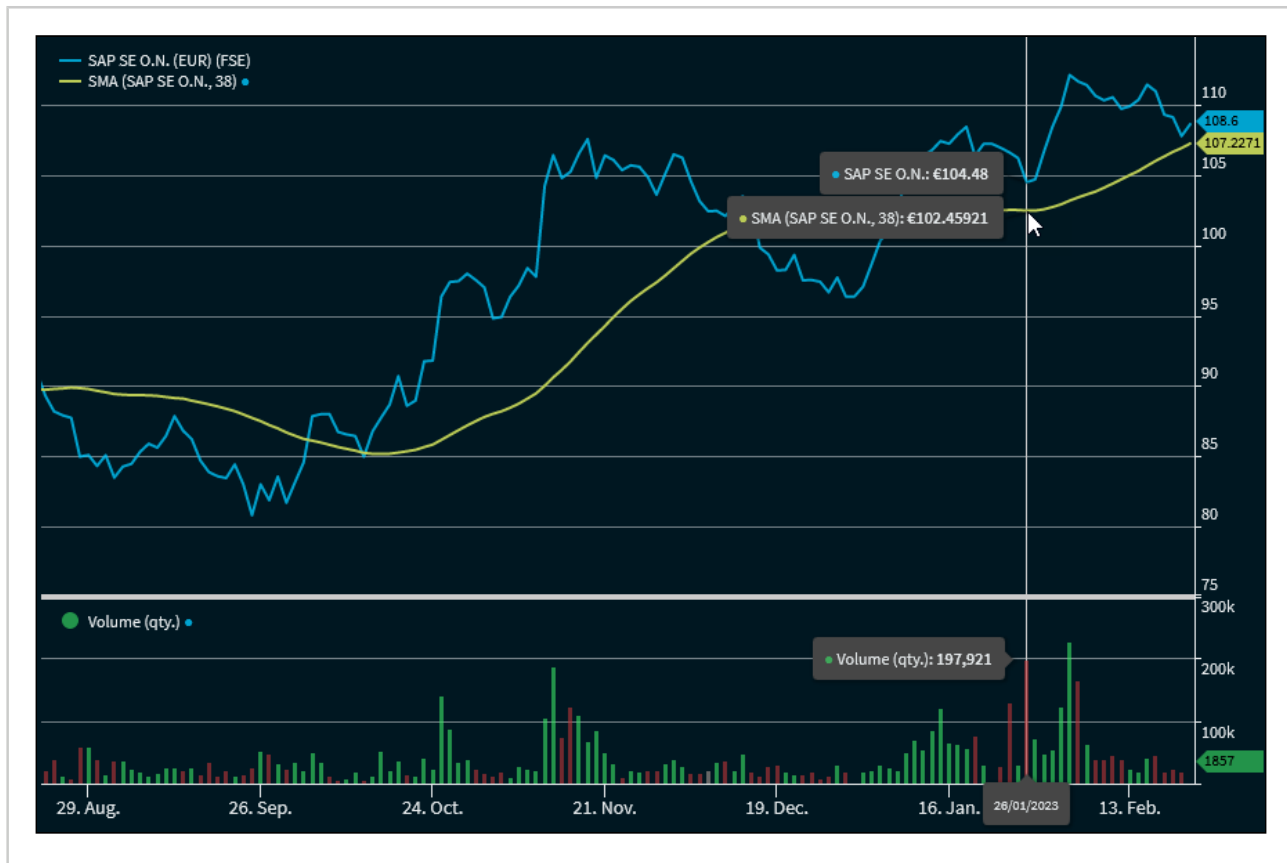
Like the calculation of the MAs, the interpretation is very varied. In the following, we present the most common interpretation.

The standard interpretation is the section of the MA with the underlying price development. A crossing up through this line may be used as a signal to buy, a crossing down through this line is a signal to sell. Because this procedure often leads to wrong decisions, many analysts also like to use filters. A typical filter is to define a percentage (about 2% or 3%) by which the MA is exceeded.

Default setting

- Short-term: 5 to 49 days
- Medium-term: 50 to 100 days
- Long-term: More than 100 days

Example: Moving Average (MA 38)



Heikin-Ashi candlesticks

Type

Other indicator

Short introduction

Heikin-Ashi candlesticks calculate candlesticks based on the open and close prices of the last period and the open, high, low and close prices of the current period. The resulting candlesticks filter out disturbances and facilitate the recognition of existing trends.

Formula/calculation

The Heikin-Ashi Close ("HA Close") is the average of the open, high, low and close of the current period:

$$\text{HA Close} = (\text{Open}(0) + \text{High}(0) + \text{Low}(0) + \text{Close}(0)) / 4$$

The Heikin-Ashi Open ("HA Open") is the average of the Heikin-Ashi Open and Heikin-Ashi Close of the last period:

$$\text{HA Open} = (\text{HA Open}(-1) + \text{HA Close}(-1)) / 2$$

The Heikin-Ashi High ("HA High") is the maximum of 3 values: Current High, Heikin-Ashi Open or Current Heikin-Ashi Close:

$$\text{HA High} = \text{Maximum from High}(0), \text{HA Open}(0) \text{ or } \text{HA Close}(0)$$

The Heikin-Ashi Low ("HA Low") is the minimum of 3 values: Current Low, Heikin-Ashi Open or current Heikin-Ashi Close:

HA Low = minimum from Low(0), HA Open(0) or HA Close(0)

Interpretation

Heikin-Ashi candlesticks use averages for smoothing, making them a better indicator of a general trend compared to "normal" candlesticks.

Example



Ichimoku Kinko Hyo

Type

Trend indicator

Short introduction

The Ichimoku Kinko Hyo (IKH) is an indicator developed in Japan. The IKH, often also called "Ichimoku", is a technical indicator based on [Candlestick charts](#) to improve the accuracy of price movement forecasts.

Statement

This indicator tries to provide information on trend direction and strength as well as support and resistance. The IKH consists of five lines, which are calculated from the mean value between the high and low of the last n periods.

Formula/calculation

Lines and elements of the IKH:

- Kijun Sen (standard line, mean value 26 periods)
- Chikou (delayed line, 26 periods delayed)
- Tenkan Sen (rotating line, average 9 periods)
- Senku span A (leading line A, mean of standard line and rotating line)
- Senku span B (leading line B, mean 52 periods)
- Kumo (cloud, 2 lines, 26 "future" periods based on senku ranges A and B)

The settings for the periods can be changed in the chart. For more information, see the section [Edit indicators](#).

Interpretation

The IKH provides five signals and two filters, which can strengthen or weaken the signals. This makes the interpretation more complex, but the elaborate presentation allows for a deeper interpretation. In practice, the IKH is often used together with other indicators to determine trends and price targets.

The indicator's strategy is to only act on signals that are moving in the direction of an overarching trend. In addition to the direction, the trend strength should also be displayed.

Weighting of the signals:

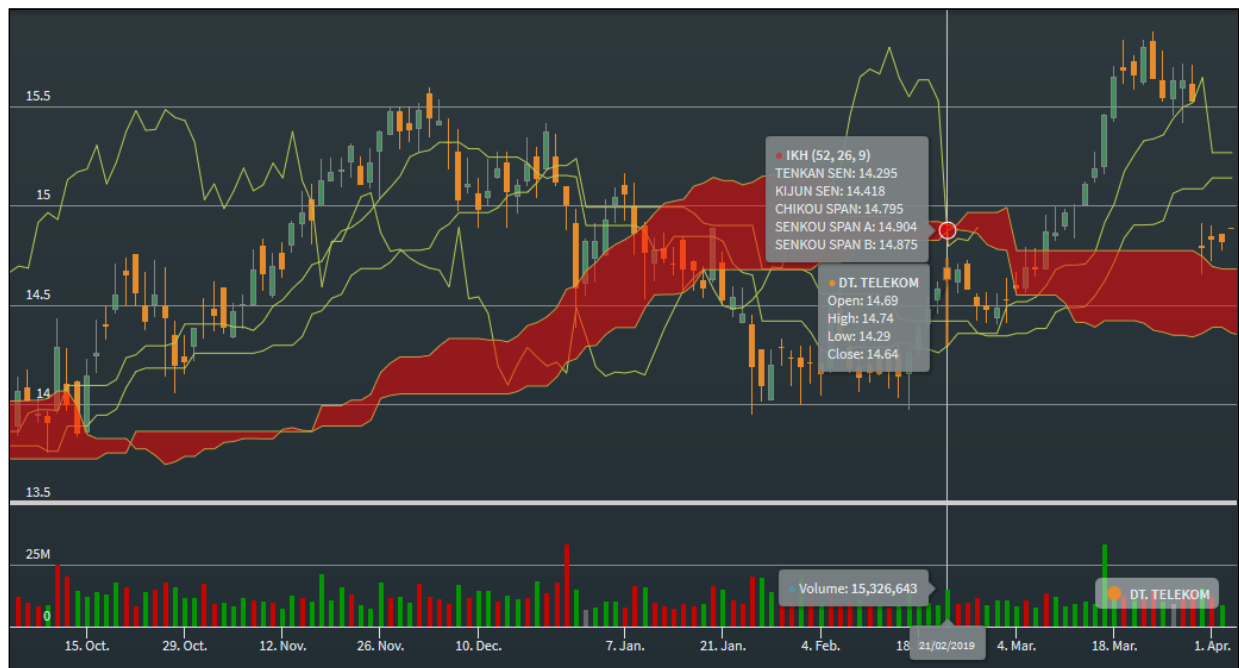
- A strong buy signal is generated when the crossing of Kijun Sen and Tenkan Sen takes place above the cloud (Kumo).
- A neutral buy signal is generated when the crossing of Kijun Sen and Tenkan Sen takes place within the cloud (Kumo).
- A weak buy signal is generated when the crossing of Kijun Sen and Tenkan Sen takes place below the cloud (Kumo).

The opposite applies to sell signals.

Default setting

- Period Kijun Sen: 26 periods
- Period Senku span B: 52 periods
- Tenkan period: 9 periods

Example: Ichimoku Kinko Hyo



Ideally, the IKH should be used together with [Candlesticks](#).

Keltner channel

Type

Other indicator

Short introduction

Keltner bands are a simple and less common band technique published by Chester Keltner in 1960. In general, the envelope technique tries to capture most of the prices within its bands to derive trading signals from the band breaches that are then considered unusual.

Statement

In general, a top exit is considered an overbought signal and a bottom exit is considered to be an oversold signal. In contrast, Keltner interprets the upward breakouts as buy signals on the assumption that they initiate a strong trend.

Formula/calculation

Similar to Bollinger Bands, the determination of the band distance in the Keltner channel is based on a volatility measure, which is defined here as the average range. Keltner channels exist in several variants which differ in the type of moving averages, the addition of a band factor, the price base used (close, typical price), the range term (range, true range) or the interpretation. In this online help, we limit ourselves to the classical calculation:

$$\text{Middle} = \text{SMA}_n ((C+H+L) \div 3)$$

$$\text{Keltner Channel} = \text{Middle} \pm \text{SMA}_n (H - L)$$

where:

C = Daily closing

H = Daily high

L = Daily low

n = Both the period number for the exchange rate average and the period number for the range average

Middle = The middle line of a Keltner channel, which represents a simple moving average of the "typical price" over n days. The "typical price" according to Keltner is the sum of the daily high, daily low and closing price of the last n days divided by 3.

In the classic variant, both period numbers are kept the same. In the literature, you will also find the formulas of the various variants, for example, the Stollers Average Range Channels (Starc).

Interpretation

When prices close above the upper Keltner band, a positive signal is generated because this indicates a breakout in upward volatility. Conversely, when prices fall below the Keltner band, a negative signal is generated, indicating further decline in prices. The bands thus function as support and resistance levels. The upper line marks the support area, whereas the lower line represents the resistance range. Extreme price movements occur when the price moves significantly from the centre line of moving average.

For example, a simple trading system on this indicator generates buy signals when the close breaches the upper band of the indicator from bottom to top, and sell signals when the close breaches the lower band of the indicator from top to bottom.

Default setting

- n = 10 periods

Covariance

Type

Comparison indicator

Description

The "Covariance" indicator calculates the covariance between two securities. This means that at least two securities (or at least two time series) must be displayed in the "Chart analysis" widget. In the indicator settings, select the corresponding time series or securities.

The covariance shows the relation of two values. A positive covariance means a positive dependence, a negative covariance means an inverse relationship of the two values.

Formula/calculation

$$\text{Cov}(x,y) = \sum [(x_i - x_m) * (y_i - y_m)] / (n - 1)$$

where:

x_i = one data point (expression)

x_m = The average of the x data points

y_i = a data point corresponding to data point x_i

y_m = The average of the y data points

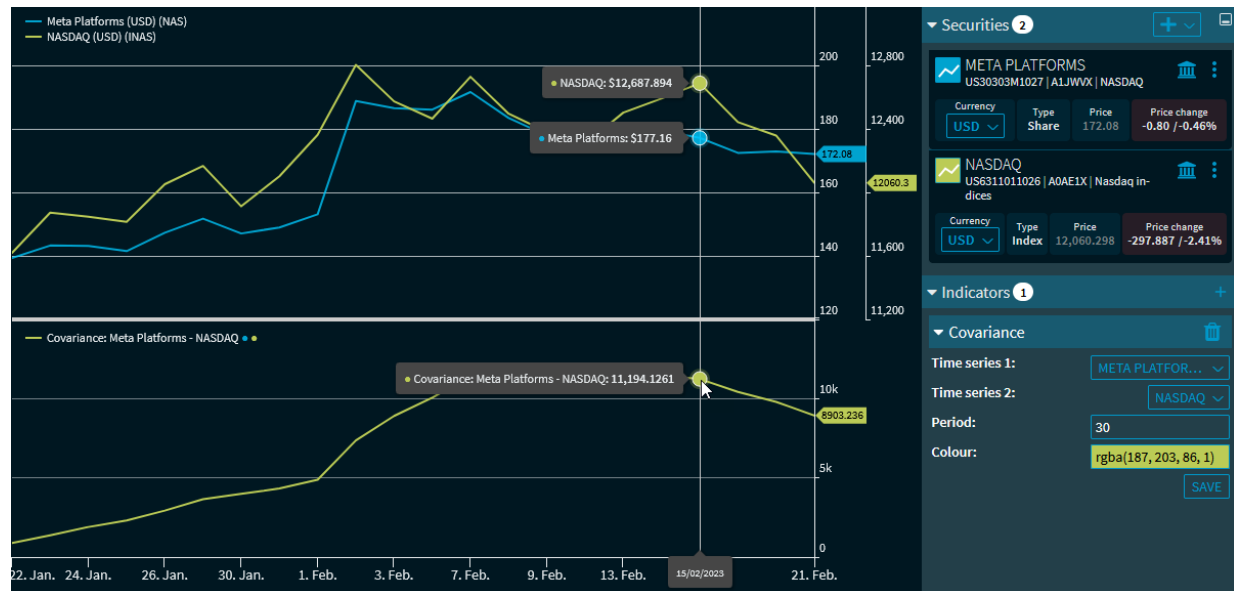
n = number of data points

Parameter

- Time series 1

- Time series 2
- Period: The default setting is 30 periods

Example: Covariance



Linear Regression

Type

Other indicator

Short introduction

Linear regression is used to determine trends. The prices are used as dependent variables and the time as independent variables. By using the Least Squares method, a straight line is drawn through the course of the price so that the distance between the price and the line is minimal. With this method, a trend between two points in time can be quantitatively represented. After the calculation, the regression line is in the middle of the price trend. The Linear Regression Indicator displays the end values of multiple linear regression trendlines. Each point along the indicator is a final value of a linear regression trendline. The result is similar to the moving average. However, unlike a moving average, the resulting line of the Linear Regression Indicator has less delay.

Interpretation

The Linear Regression Indicator is a forecast of the future price, which is already shown today. If the actual prices continue to be higher or lower than the forecast, it is expected that they will quickly return to a more realistic level. In other words: The indicator shows where the prices should be (according to statistical understanding). An excessive deviation from regression is likely to be short-lived and is expected to be corrected in the near future.

Default setting

- Period: 14 periods

In the indicator settings, you can also enter the corresponding "x-axis unit in milliseconds (86,400,000 ms = 1 day)".

Example: Chart with Linear Regression



Linear Regression Angle

Type

Other indicator

Short introduction

The Linear Regression Angle is designed to identify emerging and weakening trends. The angle of a regression channel is calculated and displayed.

Interpretation

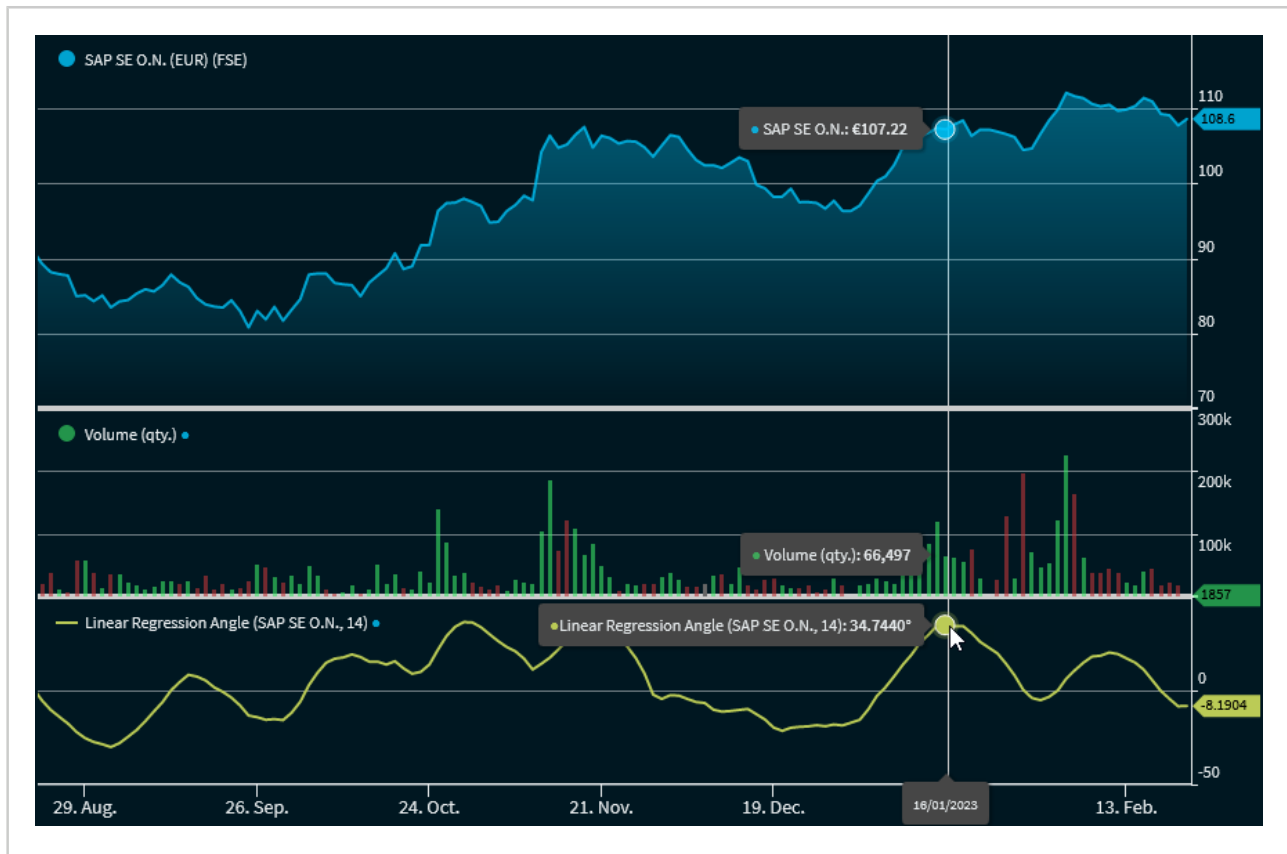
Angles above 0 (or values of the chart line of the indicator) are interpreted as upward trends. The higher the value, the stronger the trend. Angles below 0 indicate possible downward trends.

Default setting

- Period: 14 periods

In the indicator settings, you can also enter the corresponding "x-axis unit in milliseconds (86,400,000 ms = 1 day)".

Example: Chart with Linear Regression Angle



Linear Regression Intercept

Type

Other indicator

Short introduction

The Linear Regression provides the value of the regression constant, that is, the respective mathematical intersection of the regression line with the price axis. The two values "**Slope**" and "**Intercept**" clearly define a straight line.

Interpretation

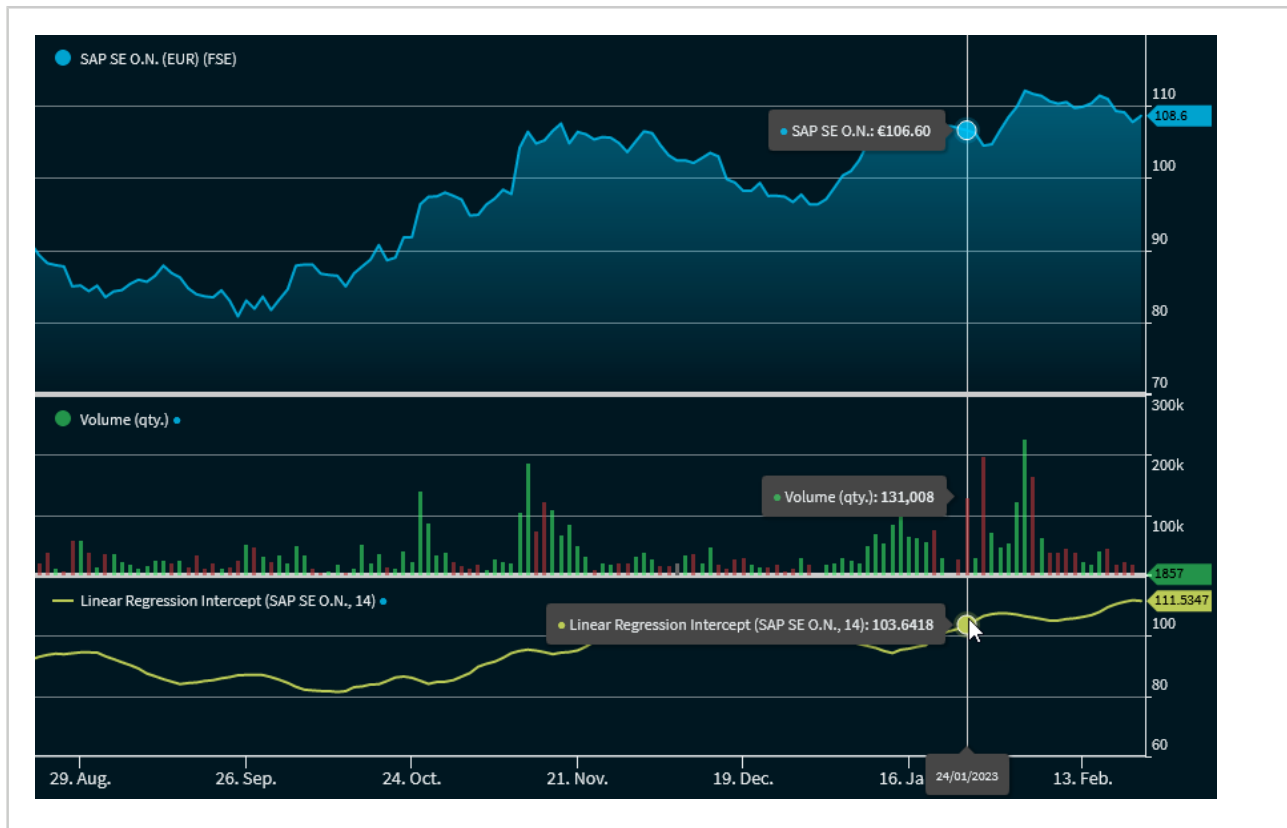
The indicator is generally not used independently, but is a component of trading systems that use linear regression to identify trends.

Default setting

- Period: 14 periods

In the indicator settings, you can also enter the corresponding "x-axis unit in milliseconds (86,400,000 ms = 1 day)".

Example: Chart with Linear Regression Intercept



Linear Regression Slope

Type

Other indicator

Short introduction

The Linear Regression Slope returns the slope of the linear regression line.

Interpretation

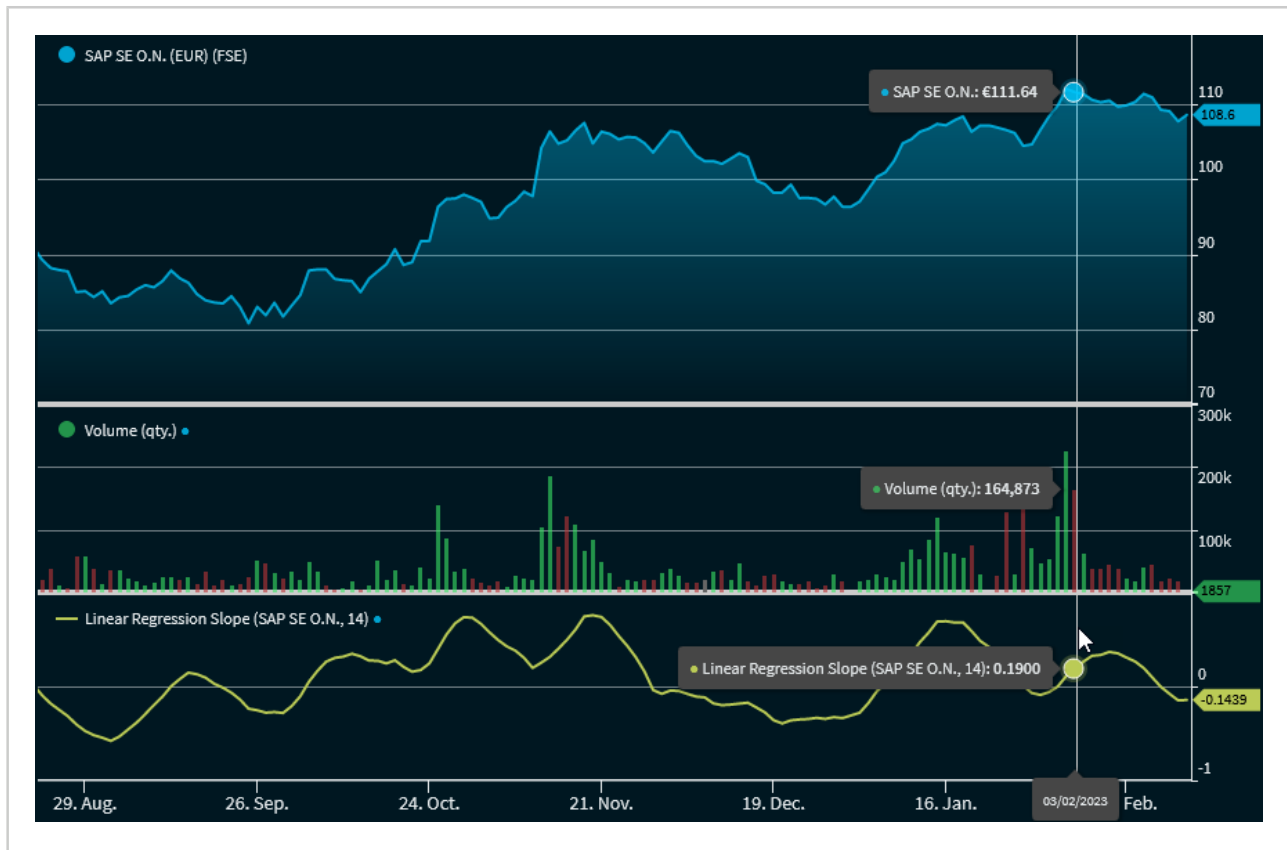
In upward trends, the rise is positive or upward, while in downward trends it is negative or downward. The Linear Regression Slope is not suited to indicate overbought or oversold areas, but can measure the direction and strength of a trend. It can also be used in combination with other indicators to identify potential entry points.

Default setting

- Period: 14 periods

In the indicator settings, you can also enter the corresponding "x-axis unit in milliseconds (86,400,000 ms = 1 day)".

Example: Chart with Linear Regression Slope



Modified Benchmark

Type

Comparison indicator

Description

The "Modified Benchmark" indicator is a special case. This **custom indicator** allows you to mathematically calculate two time series into a new price trend as a **reference value**. For two time series in the chart, a factor for the weighting in the new benchmark and the price type can be defined in the parameters. Use the "Operator" parameter to select the link type of the time series.

Parameter

Modified Benchmark

Time series 1:

META PLATFORMS

CLOSE

Factor 1:

1

Operator:

MINUS

Time series 2:

NASDAQ

CLOSE

Factor 2:

1

Percentage:

Rebase time series:

Colour:

rgba(187, 203, 86, 1)

BACK

ADD

The following parameters are available:

Parameter	Description
Time series 1	Select the corresponding time series from the drop-down list.
"Price type" drop-down list for time series 1	Select the relevant price type for the time series 1 from this drop-down list. The following price types are available: <ul style="list-style-type: none"> • Open • High • Low • Close
Factor 1	Enter weighting factor for time series 1 here. With the default setting 1, all time series are weighted equally.
Operator drop-down list	Select the relevant operator for linking the time series in the drop-down list. The following operators are available: <ul style="list-style-type: none"> • Minus • Plus • Multiplied by • Divided by
Time series 2	Select the corresponding time series from the drop-down list.

Parameter	Description
"Price type" drop-down list for time series 2	<p>Select the relevant price type for the time series 2 from this drop-down list. The following price types are available:</p> <ul style="list-style-type: none"> • Open • High • Low • Close
Factor 2	<p>Enter weighting factor for time series 2 here.</p> <p>With the default setting 1, all time series are weighted equally.</p>
Percentage	<p>Select this checkbox to show percentage display.</p>
Normalise time series	<p>[Selected by default]</p> <p>If, for example, shares or indices are combined that differ greatly in value or points, the relative percentage display becomes problematic. Therefore, use this setting to rebase the time series to the start date of the chart period for a meaningful benchmark.</p> <p>Clear this checkbox if you do not want to normalise the time series.</p>
Colour	<p>Select the colour for the chart line of the indicator here.</p>

Example: Modified Benchmark



Momentum

Type

Momentum oscillator

Short introduction

The momentum in the group of oscillators is certainly the most important and worldwide most widely used oscillator in this group of indicators. The calculation is trivial, but its many variations make it useful in many cases. The common abbreviation is "MOM".

Statement

The momentum tries to measure the force of a price movement by simply subtracting the price of a few days ago from the current price. Thus, the indicator oscillates around the zero line. The purpose of this subtraction is to identify new trends, which often try to establish themselves through large price movements. In the course of the trend, the power, and thus the absolute value of the momentum, often diminishes.

Instead of subtracting the prices, you can also divide the two prices, the statement remains identical, only the baseline changes from 0 (zero) to 100.

Formula/calculation

$$\text{MOM} = C_t - C_{t-n+1}$$

or:

$$\text{MOM} = (C_t \div C_{t-n+1}) \times 100$$

Interpretation

The momentum offers many possibilities for interpretation. Below, you find the principles on which you can base your own individual strategies.

A momentum always indicates a downward trend. If the momentum drops further, then the force of the downward movement also increases. A rising momentum below the zero line indicates a weakening of the downtrend, thus indicating a possible new uptrend.

A positive momentum indicates an uptrend in the underlying security, a rising momentum in this range continues to indicate a strengthening of the uptrend. If the momentum falls, the upward trend could soon come to an end.

The "classic" signal is provided by the breakthrough of the centre line. A crossing up through this line may be used as a signal to buy, a crossing down through this line as a signal to sell. To avoid false signals, you can also draw two auxiliary lines upwards or downwards. In this case, a signal should only be considered if one of these auxiliary lines is breached.

Default setting

- Depending on the application, the default settings for momentum are very different, but common values are 10 or 25 days.

Money Flow Index

Type

Volume indicator

Short introduction

In addition to the actual prices, the Money Flow Index also includes turnover in the calculation. It represents a kind of "turnover momentum". The common abbreviation is "MFI".

Statement

The MFI is based on the idea of investing in a security when the value closes near the daily high. If the closing price is near the daily low, money is withdrawn from the security. The calculation is based on the so-called "typical price", which we have also introduced in the case of the [Commodity Channel Index](#). If the current price is higher than the day before, then this is referred to as a positive cash flow ("money flow"). If the current price is lower, we speak of a negative money flow.

The money ratio is calculated on the basis of these two numbers. At the end, this ratio is standardised in order to obtain a clearer presentation that is easier to interpret. Due to the normalisation, the MFI always fluctuates around the 50 line with the maximum 100 and the minimum 0.

Formula/calculation

$$X_t = (H + L + C) \div 3$$

if $X_t \geq X_{t-1}$, then $+Y_t = X_t \times V$ and $-Y_t = 0$.

if $X_t \leq X_{t-1}$, then $+Y_t = 0$ and $-Y_t = X_t \times V$.

$$MR = ((+Y_t) + (+Y_{t-1}) + (+Y_{t-2}) + \dots + (+Y_{t-n+1})) \div ((-Y_t) + (-Y_{t-1}) + (-Y_{t-2}) + \dots + (-Y_{t-n+1}))$$

$$MFI = 100 - (100 \div (1 + MR))$$

where:

X = Typical price

+Y = Positive money flow

-Y = Negative Money Flow

MR = Money ratio

Interpretation

Based on its calculation, the MFI rises with rising prices and falls with falling prices. Since turnover also plays a role alongside prices, strong movements in the MFI always indicate particularly high turnover or very strong price changes compared with the previous day.

The standard signal is interpreted as crossing with the 50 line. A crossing up through this line may be used as a signal to buy, a crossing down through this line is a signal to sell. Alternatively, you can place a Moving Average over the MFI and interpret the intersections between MA and MFI as a signal, similar to the [MACD](#).

In addition to this interpretation, many analysts also use divergences between the underlying and the MFI to generate signals. If the price continues to rise, but the MFI is already falling, an imminent end to the upward movement is to be expected. The same applies vice versa when prices are still falling and MFIs are already rising.

Default setting

- Period: 20 days

Moving Average Convergence Divergence

Type

Trend indicator

Short introduction

The Moving Average Convergence Divergence Indicator (MACD) has become one of the most widely used technical indicators over the last few years. What is particularly interesting about this indicator is that its calculation and interpretation mean that it can be used in almost any market situation. Therefore, it can be described as a trend follower as well as an oscillator: its basis, 3 MAs, point to its trend-following character.

Statement

The MACD determines the delta of 2 MAs. However, the two MAs are always calculated on an exponential basis. Thus, it oscillates around the zero line. Values crossing above zero are considered bullish, while crossing below zero are bearish.

The convergence/divergence view contained in the name comes to bear by evaluating the distance between the zero line and the MACD curve. The further away the line is from the zero line, the stronger the divergence. A growing divergence indicates an intensification of the prevailing trend, a decrease indicates a weakening of the trend. So the decisive factor is the trend reversal in the MACD line. To get a grip on this, Gerald Appel, the inventor of the MACD, has introduced a second line, an MA of the MACD line. The signals are therefore generated when this line crosses the actual MACD line.

Formula/calculation

$$\text{MACD}_t = \text{EMA1}_t - \text{EMA2}_t$$

where:

$$\text{EMA1}_t = \text{EMA}_x(C_t) = \text{EMA}_{t-1} + ((2 \div (x + 1)) \times (C_t - \text{EMA}_{t-1}))$$

$$\text{EMA2}_t = \text{EMA}_y(C_t) = \text{EMA}_{t-1} + ((2 \div (y + 1)) \times (C_t - \text{EMA}_{t-1}))$$

$$\text{Trigger}_t = \text{EMA}_z(\text{MACD}_t) = \text{EMA}_{t-1} + ((2 \div (z + 1)) \times (\text{MACD}_t - \text{EMA}_{t-1}))$$

Interpretation

A crossing of the MACD line of the trigger up through this line generates a buy signal, a crossing down through this line generates a sell signal. The larger the divergence is or the further away the MACD curve is from the zero line, the signal stronger or more successful the signal.

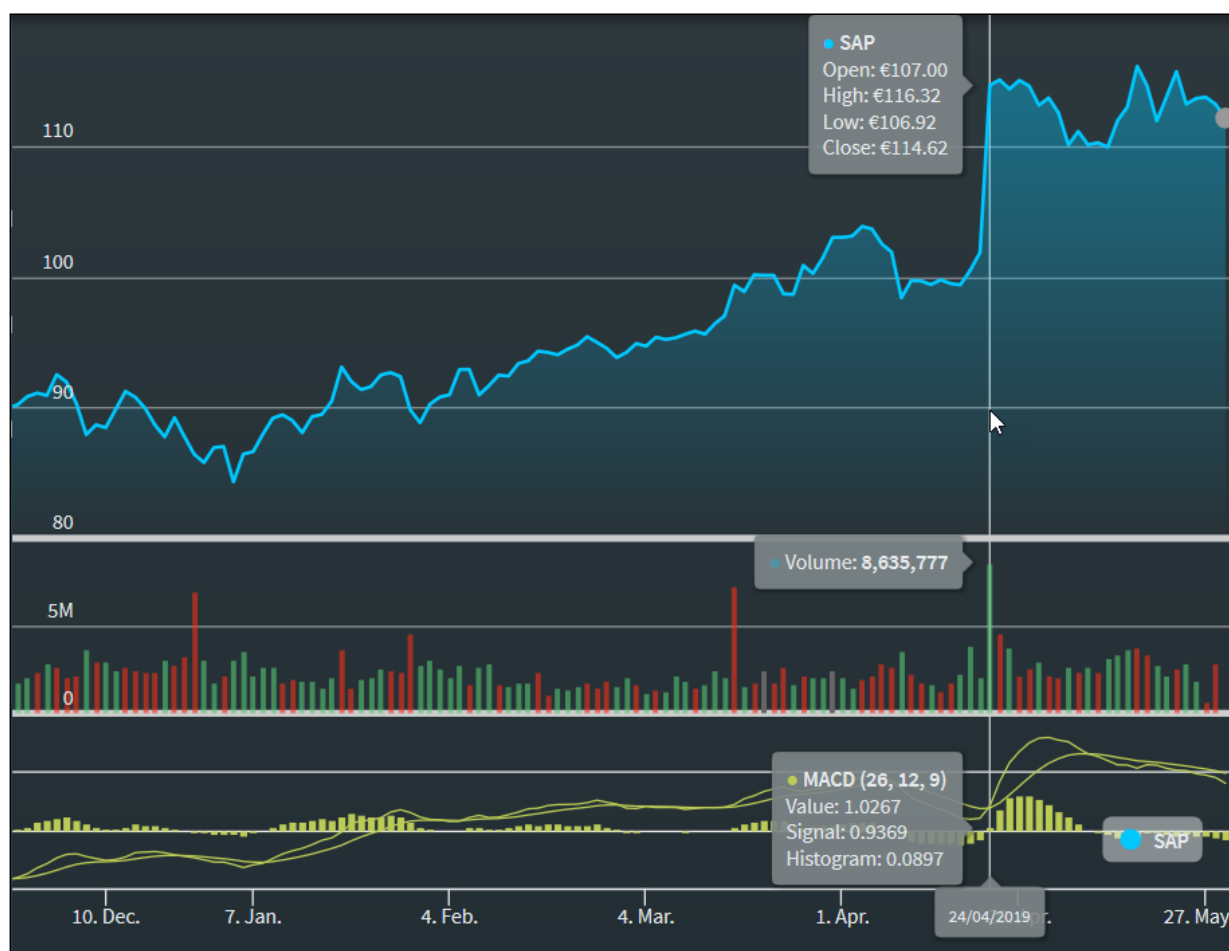
In addition to this standard use, you can also use the MACD as a simple trend indicator. If the MACD rises, the value is in the uptrend, if it falls, the value is in the downtrend.

A slightly more difficult application is to use the MACD to investigate divergences with the underlying. More difficult because in this case you have to draw your own trend lines to get a result. An example would be the formation of new highs in the underlying, while the highs in the MACD are already falling. In this case, a trend reversal, that is, a fall in the underlying asset, can be expected in the near future.

Default setting

- Actual MACD: 12 and 26 days
- Signal period (trigger line): 9 days

Example: MACD



Normalised Average True Range

Type

Other indicator

Short introduction

The normalised average true range ("NATR") is based on the [Average True Range](#).

Statement

The normalised average true range measures volatility. Due to the normalisation, the NATR is better suited for a comparison across different price levels than the average true range.

Formula/calculation

$$\text{NATR} = 100 \times \text{ATR}_n \div C$$

where:

C = Close

ATR_n = Average true range over n periods

Interpretation

The use of NATR is always useful to support decisions to select securities on the basis of their volatility over different periods of time.

Default setting

- Period: 14 periods

Example: Normalised Average True Range



Parabolic Stop And Reverse

Type

Trend indicator

Short introduction

Welles Wilder developed the Parabolic SAR (PSAR) around a stop mark. In addition to the stop mark, the price development and time are included in the indicator.

Statement

The PSAR is constantly in the market, which means that every time the PSAR cuts the price curve, a trading signal is triggered. Please note that the PSAR requires a certain "warm-up time" and therefore the first signals should be ignored.

Formula/calculation

$$SAR_n = SAR_{n-1} + (AF \times (EP_{last} - SAR_{n-1}))$$

where:

SAR_n = Current SAR value

SAR_{n-1} = SAR value of the previous day

EP_{last} = Extreme price of the last trend phase (high in uptrends, low in downtrends)

AF = Acceleration factor



The calculation of the PSAR is complex. We therefore recommend that you study the relevant literature.

Interpretation

The PSAR always fluctuates around the actual price trend. When a trend is formed, the PSAR approaches the price trend more and more, a cut of the PSAR with the price trend finally triggers the signal. The PSAR works primarily in very strong trend markets, in trendless markets the PSAR almost only provides false signals.

Default setting

- Daily
- Period 14 days
- Acceleration factor 0.02
- Maximum acceleration factor 0.2

Example: PSAR



Percentage Price Oscillator

Type

Other indicator

Short introduction

The percentage price oscillator ("PPO") is a momentum oscillator that calculates the difference between 2 MAs as a percentage of the longer of these MAs.

Statement

By forming the difference, the indicator fluctuates freely upwards and downwards around the zero line. A signal is generated by crossing the zero line. The calculation generally subtracts the longer, "slower" MA from the shorter, "faster" MA.

Formula/calculation

$$PPO = 100 \times ((MA_x - MA_y) \div MA_y)$$

where:

MA_x = moving average, shorter time period

MA_y = moving average, longer time period

Interpretation

Similar to the [MACD](#), the PPO is positive if the shorter MA is quoted above the longer one. If the shorter MA moves further away from the longer one, this is interpreted positively and vice versa.

Default setting

Depending on the analysed, that is:

- Short MA: 12 periods
- Long MA: 26 periods

Price Envelopes

Type

Other indicator

Short introduction

Price envelopes, like Bollinger Bands, are based on a moving average, but their calculation is somewhat simpler.

Statement

The statement with Price Envelopes is similar as with the [Bollinger Bands](#). A MA is calculated on the basis of which two (upper and lower) bands are calculated. The distance of the bands from the MA is usually identical. A large part of the prices is captured in an envelope.

Formula/calculation

Upper band = MA + Upper distance

Lower band = MA - Lower distance

Interpretation

Price envelopes offer some interpretation possibilities. The standard interpretation corresponds to that described for the Bollinger Bands. Because the envelopes are based on MAs, all possibilities offered there for the definition of the basic MA are available. Percentage values are also used instead of the absolute distances upwards and downwards.

Default setting

- MA period: 20 periods
- Distance to upper band: 0.1
- Distance to lower band: 0.1

Rate of Change

Type

Momentum oscillator

Short introduction

The rate of change ("ROC") indicator provides basically the same statement as the momentum. However, because of the different calculation, it may be useful to use the ROC instead of the momentum when generating trading systems.

Statement

Compare [Momentum](#). The calculation differs, however, in that the result of the subtraction is still divided by the price at n days ago.

Formula/calculation

$$ROC = ((C - C_{t-n+1}) \div C_{t-n+1}) \times 100$$

Interpretation

The rate of change offers a wide range of possible interpretations. Below, you find the principles on which you can base your own individual strategies.

A negative rate of change always indicates a downward trend. If the rate of change drops further, the force of the downward movement also increases. A rising rate of change below the zero line indicates a weakening of the downtrend, thus indicating a possible new uptrend.

A positive rate of change indicates an uptrend in the base stock, a rising ROC in this range continues to indicate a strengthening of the uptrend. If the rate of change falls, the upward trend could soon come to an end.

The "classic" signal is provided by the breakthrough of the centre line. A crossing up through this line may be used as a signal to buy, a crossing down through this line as a signal to sell. To avoid false signals, you can also draw two auxiliary lines upwards or downwards. In this case, a signal should only be considered if one of these auxiliary lines is broken.

Default setting

- Period: 9 periods

Example: Rate of Change



Relative Strength Comparative

Type

Comparison indicator

Short introduction/statement

The Relative Strength Comparative (abbreviation "RSC") enables the direct comparison of two securities or the comparison of a security with a benchmark.

Formula/calculation

The indicator is calculated by dividing the price of one security by the price of the second (underlying). The result of the division is the ratio between the two securities.

Interpretation

A rising RSC indicates that the security under consideration is outperforming the benchmark (underlying security). A sideways movement indicates identical price developments (for example, they rise by similar percentages). A falling RSC indicates that the security under consideration is performing worse than the benchmark (underlying).

Example: RSC



Relative Strength Index

Type

Momentum oscillator

Short introduction

The relative strength index developed by Welles Wilder is, together with the MA and momentum, one of the most frequently used indicators. The common abbreviation is "RSI". The Wilder RSI is not to be confused with the relative strength of a security in relation to another security or index. The RSI can assume values in the range from 0 to 100 percent.

Statement

The RSI tries to measure the inner strength as the development of the security within a certain number of days. In the RSI, a ratio is formed between the upward and downward movements of the respective daily prices. The indicator itself always fluctuates between 0 and 100. The advantage of this normalisation lies in the better comparability of individual values. By including all prices within the period, Wilder also achieves a certain smoothness, extreme prices do not distort the calculation as much.

Formula/calculation

The calculation of the RSI is done in several steps:

Within the observation period, the differences of the closing prices trading upwards (today's close > yesterday's close) and the downside closing prices (today's close < yesterday's close) are summed up and then divided by the number of observations minus one (n days can only result in n-1 changes). The result is the average daily value for the upward and downward force of the underlying security.

"Relative strength" (RS) is calculated by dividing the average upward force by the average downward force. The RSI is obtained by subtracting from 100 the quotient of 100 divided by the sum of one plus "relative strength".

If $C_t > C_{t-1}$, then $u = C_t - C_{t-1}$ and $d = 0$.

If $C_t < C_{t-1}$, then $d = C_{t-1} - C_t$ and $u = 0$.

$$U = ((n - 1) \times U_{t-1} + u) \div n$$

(U = Average of upside closing price movements over the last n days)

$$D = ((n - 1) \times D_{t-1} + d) \div n$$

(D = Average of downward closing price movements over the last n days)

$$RS = U \div D$$

$$RSI = 100 - 100 \div (1 + RS)$$

Interpretation

If the RSI reaches its minimum value of 0 (zero), then the instrument has no inner strength. The prices have therefore only fallen during the observation period. A value of 100 means that prices have only increased. Values close to 0 (zero) indicate an oversold underlying, values close to 100 indicate an overbought market. At such points, a counter-reaction is to be expected. However, the real signal is only generated when the indicator leaves the extreme range around the minimum or maximum again.

The RSI can also be studied on technical chart formations because the RSI forms these more often than the underlying. The interpretation is similar to that of the patterns in the underlying.

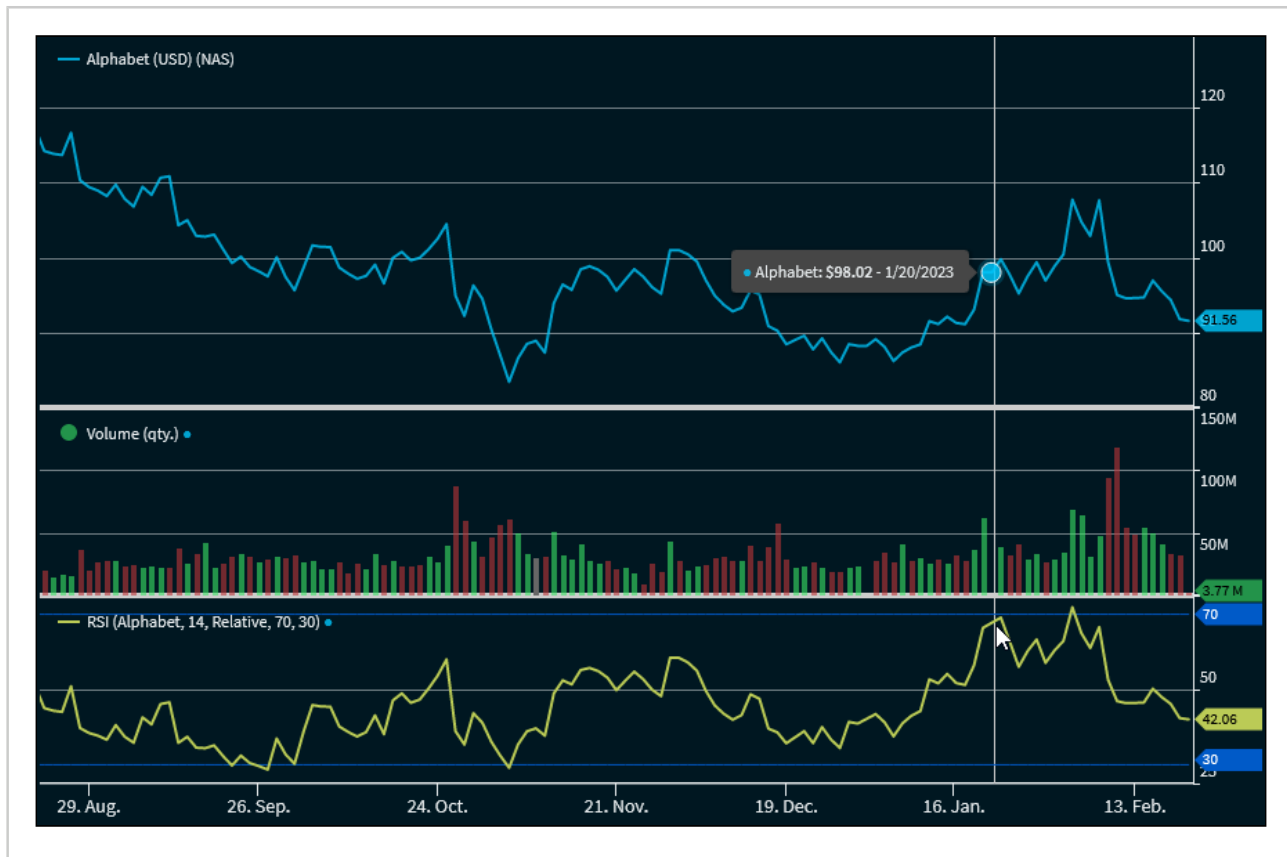
Default setting

- n = 14 days
- Overbought: over 70%
- Oversold: less than 30%

By using the parameters of the RSI, you can also change the display from relative (default) to absolute. To do this, clear the "Percentage" checkbox. The default settings are then:

- n = 14 days
- Overbought: over 0.7
- Oversold: under 0.3

Example: Chart with RSI in default setting



Relative Strength (Levy)

Type

Trend indicator

Short introduction

The Relative Strength (RSL) developed by Levy must not be confused with the Relative Strength Index (RSI). Levy's view assumes that prices that performed positively in the past will continue to perform positively in the future. Relative Strength therefore does not refer to a comparison with another security or index, but rather to the security itself.

Statement

To calculate the indicator, a MA is first formed and the current price is then divided by this MA. The result thus fluctuates steadily around the line at the "1" value.

Formula/calculation

$$\text{RSL} = \text{Close} / \text{Moving Average}$$

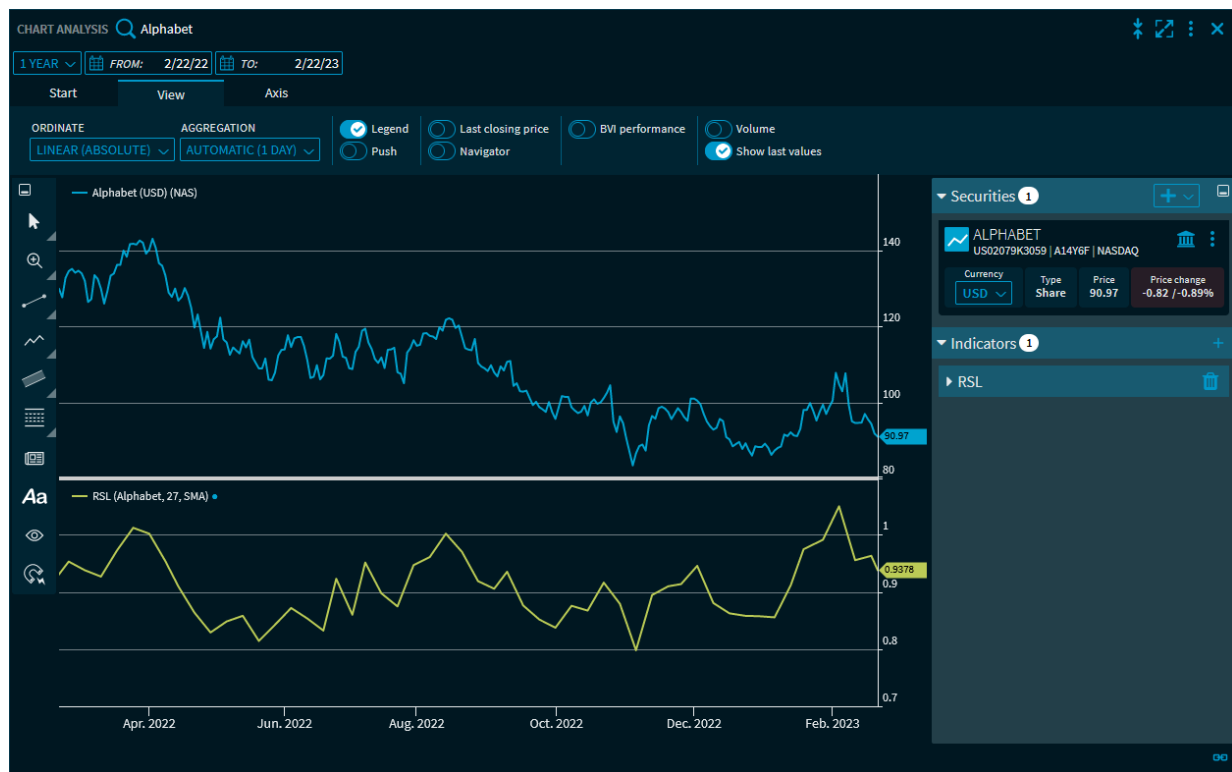
Interpretation

The current RSL value of a security alone is not very meaningful because it only compares the current performance with the past performance. A value greater than 1 indicates that the current performance is better, a value less than 1 indicates that the current performance is worse than in the past.

Default setting

27 weeks

Example: Chart with RSL



Slow Stochastic

Type

Momentum oscillator

Short introduction

Because the underlying "[Fast Stochastic](#)" indicator often reacts too fast to price changes, therefore the Slow Stochastic was introduced.

Statement

A 3-period GD on the Fast Stochastic reduces the number of supposed reversal points.

Formula/calculation

$\%D = \text{Slow } \%K = \text{MA}_n \text{ on } \%K$

$\text{Slow } \%D = \text{MA}_n \text{ on } \%D$

Interpretation

Trading rules:

- If the %D line and the Slow %D line fall below the 20% level, the market appears oversold.
- If the %D line crosses the Slow %D line from the bottom to the top, a buy signal is generated. Also, the intersection of the D% line with the 20% line from the bottom to the top generates a buy signal.
- The market appears to be overbought when both lines are above the 80% level.

Default setting

Stochastic slow

%K:

14

%D:

3

%D smoothing:

SMA

Slow %D:

3

Slow %D smoothing:

SMA

Overbought:

20

Oversold:

80

Colour:

rgba(187, 203, 86, 1)

Colour oversold:

#005ac8

Colour overbought:

#005ac8

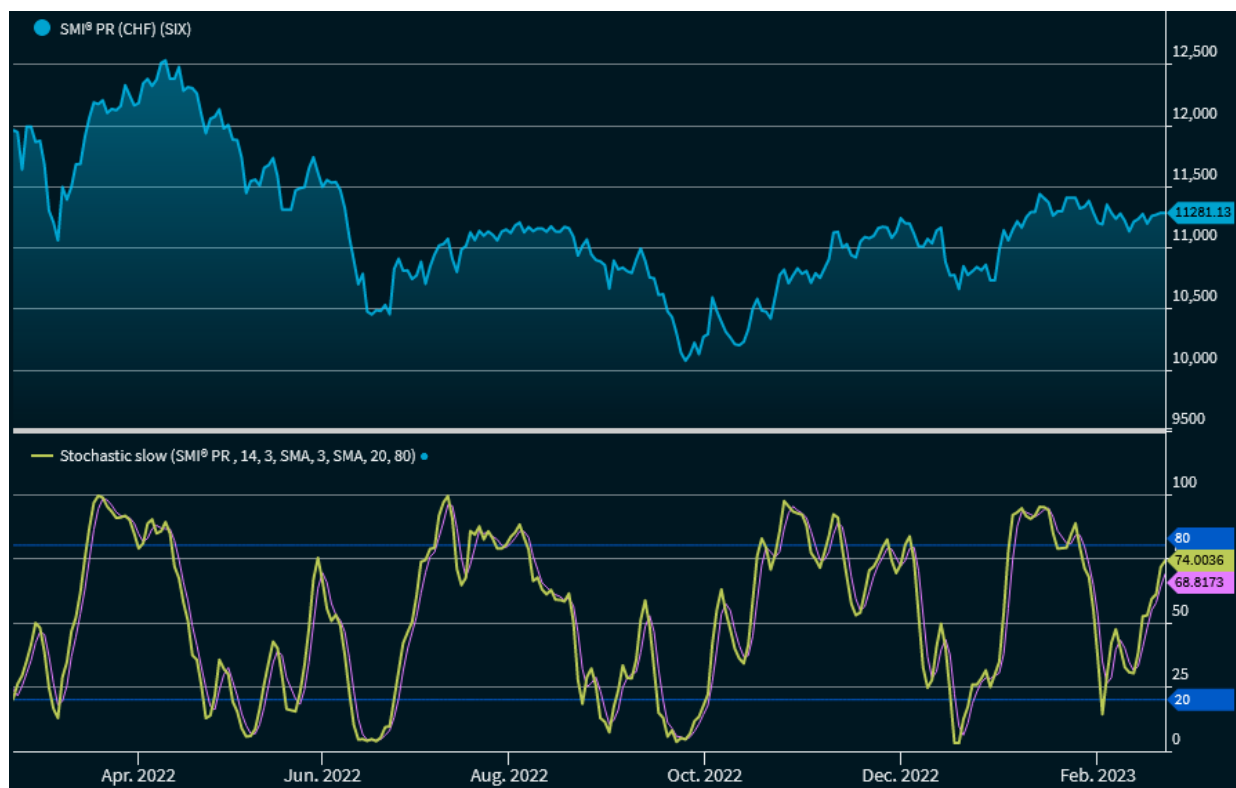
Colour signal:

rgba(228, 124, 255, 1)

BACK

ADD

Example: Slow Stochastic



Smoothed Rate of Change

Type

Momentum oscillator

Short introduction

The "Smoothed Rate of Change" ("SROC") indicator is a variant of the [Rate of Change](#) or the [Momentum](#) developed by Fred G. Schulman. It is based on the exponential MA (EMA - Exponential Moving Average) and helps identify market trends. The indicator is displayed in a separate chart.

Statement

The statement corresponds as far as possible to that of the [momentum](#), with the difference that the signals come somewhat slower, but also somewhat more accurately.

Formula/calculation

$$\text{SROC} = (\text{current EMA} - \text{previous EMA}) \div (\text{previous EMA}) \times 100$$

Signal line = MA of the SROC

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

The interpretation of the SROC follows the rules of momentum. According to Fred G. Schulman, the search for divergences between the SROC and the price development is of particular interest. A negative signal is generated when the underlying is still climbing new highs, while the SROC is no longer climbing new highs. A positive signal is generated when the underlying is still forming new lows, while the SROC is no longer forming new lows.

Default setting

Smoothed Rate of Change

Linked to series:

META PLATFORMS

Period MA:

13

Smoothing:

EMA

Period SROC:

21

Signal period:

9

Signal Smoothing Method:

SMA

Colour:

rgba(187, 203, 86, 1)

Colour signal:

rgba(228, 124, 255, 1)

BACK

ADD

Example: Smoothed Rate of Change



Spread

Type

Comparison indicator

Short introduction/statement

The "Spread" indicator compares two time series by subtracting prices. This means that at least two securities (or at least two time series) must be displayed in the "Chart analysis" widget. In the indicator settings, select the corresponding time series or securities:

Spread

Time series 1:

META PLATFORMS

Time series 2:

ALPHABET

Percentage:

☐

Colour:

rgba(187, 203, 86, 1)

BACK

ADD

In addition to the time series of the securities, the volume time series can also be selected. You can also use the "Percentage" checkbox to switch to a percentage calculation and display.

Formula/calculation

$$\text{Spread} = \text{TS}_1 - \text{TS}_2$$

where:

TS_1 = Time series 1 (1. security or volume)

TS_2 = Time series 2 (2. security or volume)

Example: Spread of two time series



Supertrend

Type

Trend indicator

Short introduction

The supertrend indicator is a volatility-based indicator derived from the average true range. This has the advantage that price gaps are included in the calculation of volatility. The indicator also reacts to the volatility of the underlying asset. This means that the supertrend line is further away at a higher volatility than at a lower one. In addition to volatility, the indicator also includes an average price in the calculation.

Statement

The most common use of the supertrend indicator is as a trailing stop loss. As soon as the price has moved in the desired direction, the stop loss self-adjusts to the value of the indicator. Depending on the factor and period, the indicator line is closer to the price or more distant. The advantage of the supertrend is that the indicator adapts to the market. The indicator moves sideways when volatility increases or the price moves in the opposite direction. Thus there is never an extension of the stop loss, but always only a reduction. This reduces the risk in a trade.

Formula/calculation

First, the distance between the high and low price of the current candle is determined. Furthermore, the distance between the closing price of the last candle and the current high and between the closing price of

the last candle and the current low is measured. Then these 3 distances are compared with each other. The largest distance (true range) is used for further calculation of the supertrend indicator. The true range is always summed up over exactly as many candles as it is set in the "Period" parameter. The average value is then calculated from this. The result is the average true range ("ATR").

In addition, the simple average price of the current candle is needed to calculate the supertrend indicator. This is calculated from the formula $(\text{High} + \text{Low} + \text{Close}) / 3$.

The "Multiplier" parameter is used to set how often the ATR is added to or subtracted from the mean rate. If the multiplier is set to "3", the 3-fold ATR is added to the average rate. At the same time, the 3-fold ATR is subtracted from the average exchange rate.

These two calculations produce volatility bands that run above and below all prices on the chart. The supertrend indicator always corresponds to one of these bands: In an upward trend, it corresponds to the lower band, in a downward trend, it corresponds to the upper band.

Interpretation

The "Supertrend" indicator works primarily with market volatility, since the average candlestick span of previous periods is added to or subtracted from the mean value of the individual candles. With a pure supertrend system, the trader is constantly invested.

The supertrend indicator does not change its value with smaller price movements in the opposite direction. In upward trends, it can only rise or move horizontally (green chart line in the example). In downward trends, the super trend indicator can only fall or run horizontally (red chart line in the example). The super trend indicator thus behaves like a trailing stop.

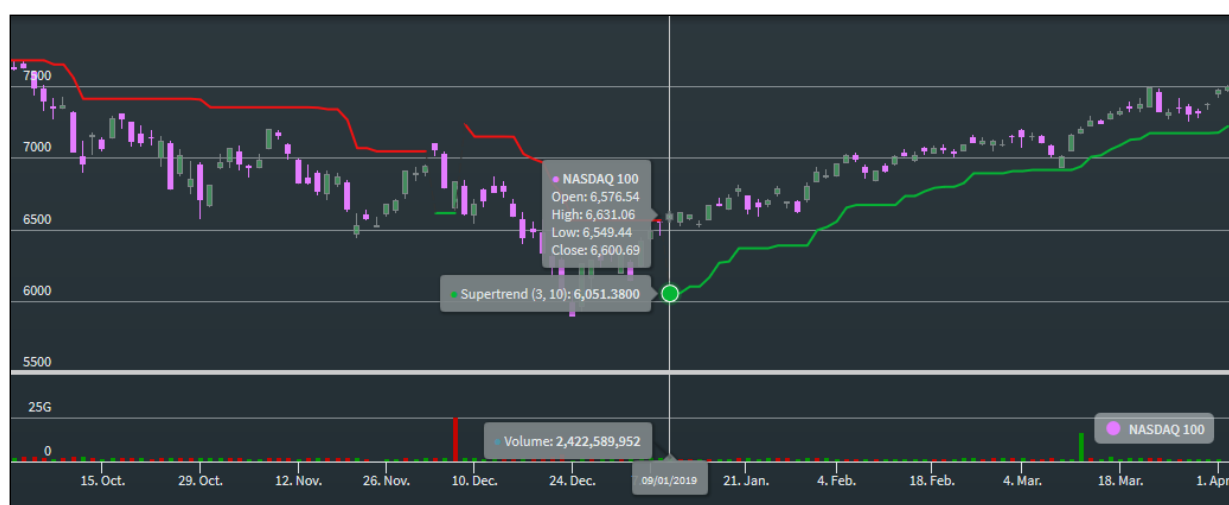


Additional filters can optimise this strategy. For example, an additional (longer-term) moving average makes it possible to identify an overarching trend.

Default setting

- Period: 10 periods
- Multiplier: 3

Example: Supertrend



Trend Confirmation

Type

Trend analysis indicator

Short introduction

The Trend Confirmation Indicator (TCI) is generated by dividing a short-term moving average by a longer-term moving average.

The result is multiplied by 100 to obtain an indicator that varies by 100.

Statement

The TCI divides two moving averages to generate trend change signals.

Formula/calculation

We calculate these values as follows:

$TCI = (MA_x / MA_y) * 100$, where MA_x = "Moving Average" shorter time period MA_y = "Moving Average" longer period.

The following parameters are available for calculating the TCI:

- [MA](#) - Moving Average
- [Example](#) - Triple Exponential Moving Average
- [WMA](#) - Weighted Moving Average

Interpretation

Potential trade rules:

- If the TCI cuts the 100 line from bottom to top, then there is a buy signal.
- If the TCI cuts the 100 line from top to bottom, then there is a sales signal.

Default setting

- Period short: 5 periods
- Period long: 10 periods

Triple Exponential Average

Type

Trend indicator

Short introduction

The Trix was developed by Jack K. Hutson and corresponds to a [Rate of Change \(ROC\)](#) of a **triple** smoothed Exponential Moving Average.

Statement

The triple smoothing really eliminates all non-significant "price outliers" from the chart's course. First an exponential MA is formed by an exponential MA by an exponential MA, thus a triple exponential MA. Normally, a one-day ROC is calculated for this course.

Formula/calculation

$T_t = EMA_t (EMA_t (EMA_t (\log(\text{Close}))))$

where the first EMA applies:

$$\text{EMA1}_t = a \times \log(\text{Close}_t) + (1-a) \times \text{EMA}_{t-1}$$

The TRIX itself is the percentage rate of change of the 3-fold exponentially smoothed moving average (T_t):

$$\text{TRIX}_t = 100 \times (T_t - T_{t-1}) \div T_{t-1}$$

Interpretation

The course of TRIX shows, just like a MA, the current trend in the underlying. Because the indicator reacts very slowly due to the multiple smoothing, it is not recommended to use the crossing of the zero line as a signal generator. It makes more sense to lay a MA over the actual TRIX again and to interpret the crossings as signals.

A buy signal is given when the TRIX indicator crosses its MA from bottom to top, a sell signal when the indicator crosses its MA from top to bottom.

Default setting

- There is no unique standard, but often quite short periods of max. 15 days are used for the MA of TRIX. In the literature, always a one-day ROC is used.
- For signal generation, a 5- or 9-day MA is often used.

Example: TRIX



Triple Exponential Moving Average

Type

Other indicator

Short introduction

The TEMA, like DEMA and DEMA2, was presented by Patrick G. Mulloy as a further modification of the exponential moving average. The DEMA, TEMA and DEMA2 variants differ in the trend model used. While DEMA is based on a linear regression model (that is, trend lines), TEMA is based on a quadratic regression model, so the trend term can still contain curved parts that depend quadratically on time.

Statement

TEMA and DEMA are linear combinations of single, double and triple exponential averages. The double and triple averages are used to estimate the trend-related correction.

Formula/calculation

$$\text{EMA1} = \text{EMA}_n(\text{S})$$

$$\text{EMA2} = \text{EMA}_n(\text{EMA}_n(\text{S}))$$

$$\text{EMA3} = \text{EMA}_n(\text{EMA}_n(\text{EMA}_n(\text{S})))$$

$$\text{DEMA} = \text{EMA1} + (\text{EMA1} - \text{EMA2})$$

$$= 2 \times \text{EMA1} - \text{EMA2}$$

$$\text{TEMA} = \text{EMA1} + \text{DEMA}(\text{S} - \text{EMA1})$$

$$= 3 \times \text{EMA1} - 3 \times \text{EMA2} + \text{EMA3}$$

where:

S = Time series to be smoothed

n = Period number for DEMA and TEMA

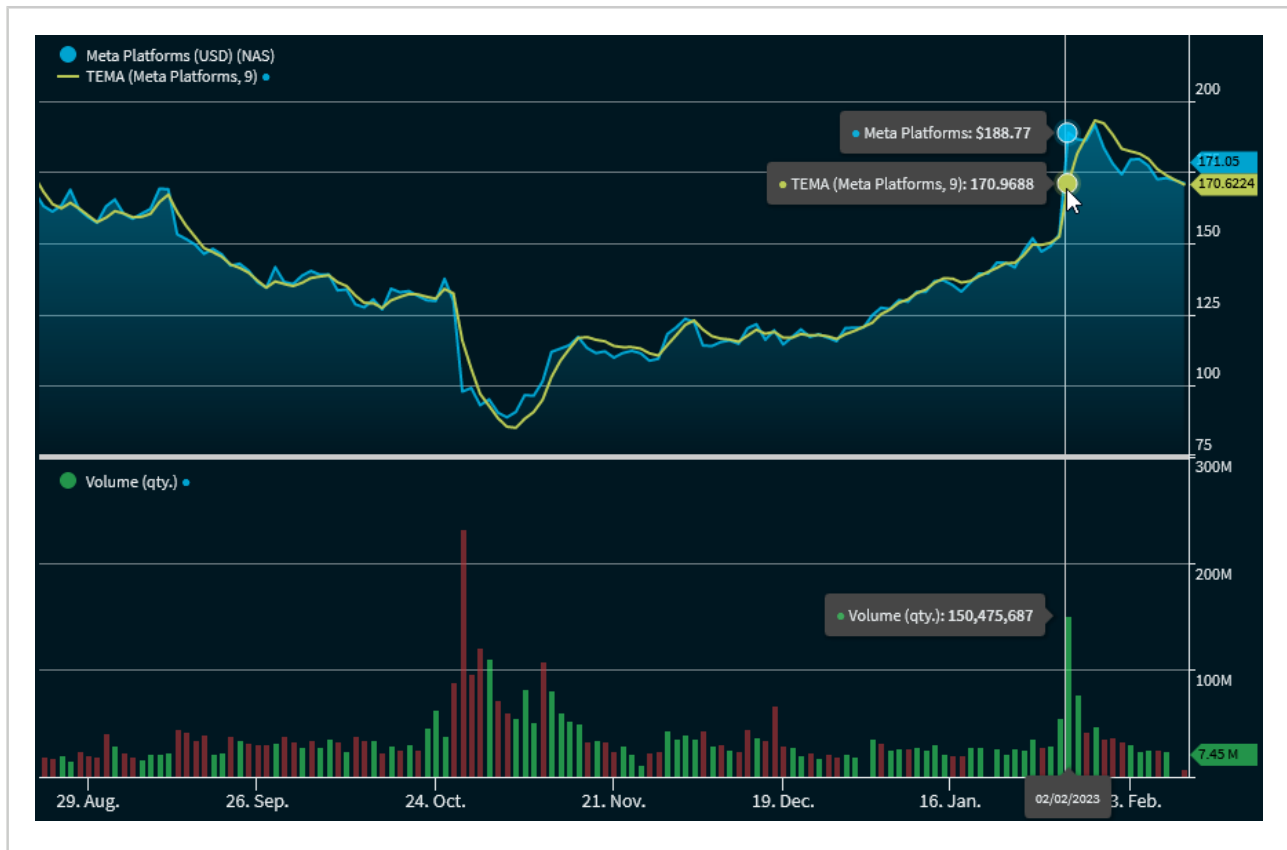
Interpretation

A basic "MACD-TEMA" trading system can apply the principle of linear combination of its exponential averages from TEMA to the MACD in its default setting (12/26/9). This basic trading system generates buy signals when the indicator breaches its trigger from bottom to top, and sell signals when it breaches its trigger from top to bottom.

Default setting

- Depending on trend periods, for example 9 periods

Example: TEMA



True Strength Index

Type

Momentum oscillator

Short introduction

The True Strength Index (TSI) developed by William Blau is a double smoothed momentum indicator. Basically, it is an extension of the RSI, with which it shares many characteristics and rules of interpretation. That said, the True Strength Index (TSI) is a "smoother" form of RSI. It aims to make trends and trend reversals visible.

The TSI is displayed in a separate chart.

Statement

The TSI looks at individual price changes (via the momentum) and smoothes them twice. A rising value therefore signals a rising price, a falling value a falling price. Due to the double smoothing, all price outliers are almost completely filtered out.

The indicator is calculated by dividing a double smoothed one-day momentum by the **amount of** a double smoothed one-day momentum. This result is usually multiplied by 100, so that the course varies between -100 and 100.

Formula/calculation

Double smoothing of price changes:

PC = Current rate minus previous rate

First smoothing = 25D EMA period of the PC

Second smoothing = 13D EMA period of the 25D EMA period of the PC

Double smoothing of the absolute price change:

Absolute price change (PC) = Absolute value of the current price minus the previous price

First smoothing = 25D EMA period of the PC

Second smoothing = 13D EMA period of the 25D EMA period of the PC

$TSI = 100 \times (\text{Double smoothed price change} \div \text{Double smoothed absolute price change})$

Signal line: 7-day EMA

where:

PC = Price change

EMA = Exponential Moving Average

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

According to William Blau, the primary purpose of the TSI is to find trend reversals in the price trend. Therefore, you should primarily look for divergences between the price and the indicator.

A negative signal is generated when the underlying is still climbing new highs while the indicator is not climbing any new highs. A positive signal is generated when the actual price trend is still establishing new lows but the indicator is no longer establishing new lows.

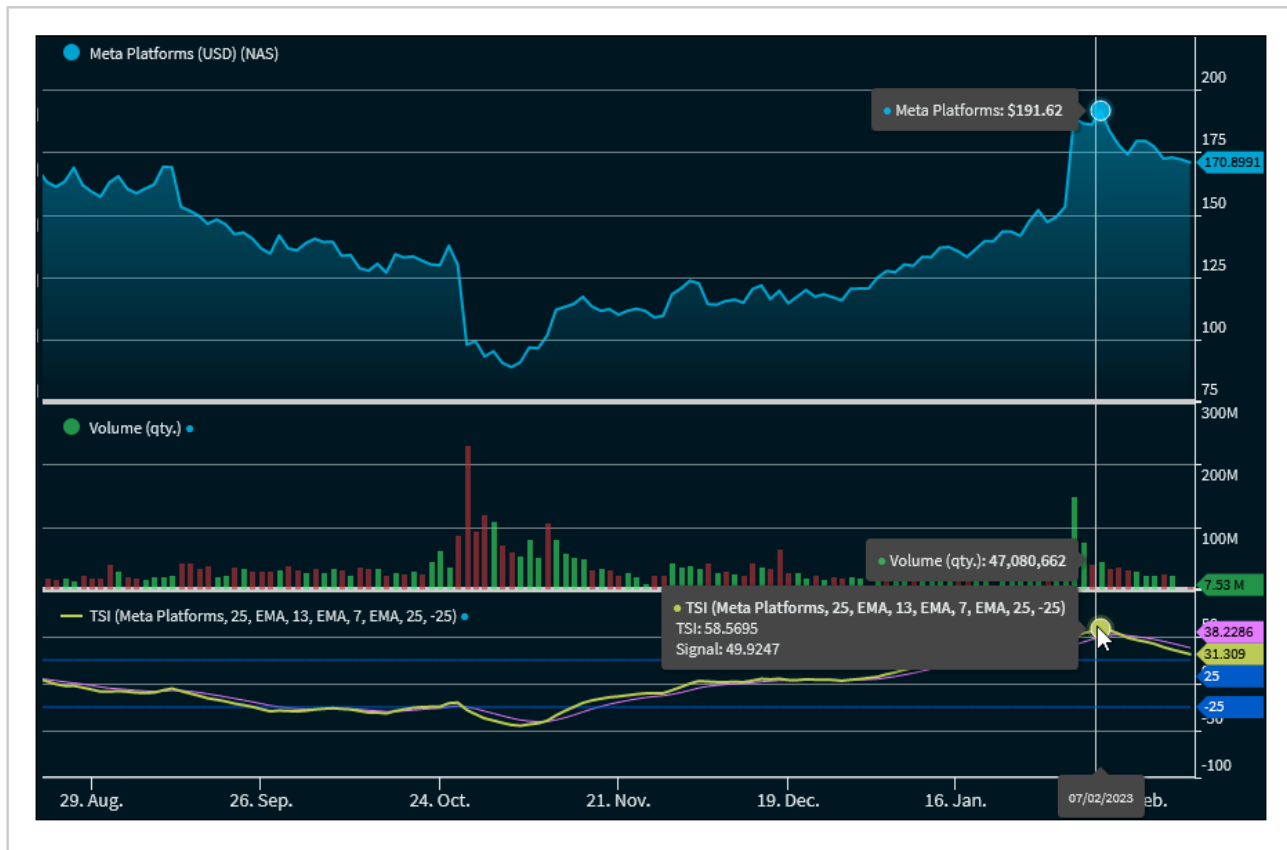
On the other hand, there is the possibility to calculate an MA for the TSI and to use the intersection of the two lines as a signal generator. A buy signal is given when the TSI indicator crosses its MA from bottom to top, a sell signal when the indicator crosses its MA from top to bottom.

A third possibility is to enter extreme zones, similar to the RSI, such as 70 to 75 and -70 to -75. Leaving the upper extreme range is a sell signal, leaving the lower extreme range is a buy signal.

Default setting

- Smoothing period 1: 25 days
- Smoothing method 1: EMA
- Smoothing period 2: 13 days
- Smoothing method 2: EMA
- Signal period: 7 days
- Signal method: EMA
- Overbought: +25
- Oversold: -25

Example: TSI



Ultimate Oscillator

Type

Momentum oscillator

Short introduction

Larry Williams developed the Ultimate Oscillator. It is a combination of his Accumulation/Distribution Oscillator and Wilder's RSI. With this combination, Williams tries to limit exaggerated phases more exactly.

Statement

Oscillators generally have the disadvantage that they show exaggerations up or down too early. The Ultimate Oscillator tries to eliminate this disadvantage by calculating and adding three different time periods with different weightings. The result is an indicator that fluctuates between 0 and 100, with the 50 as the centreline. The calculation is so complicated that no derivation is made here. You can find the formulas in the next section.

Formula/calculation

$$B_t = C_t - TL_t$$

$$TR_t = TH_t - TL_t$$

$$SB_x = B_t + B_{t-1} + \dots + B_{t-x+1}$$

$$SB_y = B_t + B_{t-1} + \dots + B_{t-y+1}$$

$$SB_z = TR_t + TR_{t-1} + \dots + TR_{t-z+1}$$

$$STR_x = TR_t + TR_{t-1} + \dots + TR_{t-x+1}$$

$$STR_y = TR_t + TR_{t-1} + \dots + TR_{t-y+1}$$

$$STR_z = TR_t + TR_{t-1} + \dots + TR_{t-z+1}$$

$$ULT = (SB_x \div STR_x) \times 4 + (SB_y \div STR_y) \times 2 + (SB_z \div STR_z)$$

where:

B_t = Buying pressure at time t

C_t = Close at time t

TL_t True low at time t; daily low or previous day's close, depending on which price is the lower one

TH_t = True high at time t; daily high or previous day's close, depending on which price is the higher one

TR_t = True range at time t

SB = The sum of the buying pressure values for the periods x, y and z

STR = The sum of the true range values for the periods x, y and z

ULT = Ultimate Oscillator

Interpretation

There are three interpretations:

- First, the section with the centre line. If the indicator crosses the centre line from bottom to top, this is a buy signal. If the indicator crosses the midpoint line from top to bottom, this is a sell signal.
- Secondly, when leaving extreme zones. The extreme zones are usually 30 and 65. Leaving the upper extreme range is a sell signal, leaving the lower extreme range is a buy signal.
- And thirdly, the search for divergences. A negative signal is generated when the underlying is still climbing new highs while the indicator is not climbing any new highs. A positive signal is generated when the actual price trend is still establishing new lows but the indicator is no longer establishing new lows.

Default setting

Median (centre line): 50

The three calculation periods are 7, 14, and 28 days by default. As a rule, the extreme zones are indicated at 30 and 65.

Pivot Points

Type

Other indicator

Statement

The "Pivot Point" indicator attempts to identify global trends at different time intervals. The basis is the determination of the reversal points or "pivot points". In addition, resistance lines (R1, R2) and support lines (S1, S2) are plotted for the time series.

Pivot point analysis is a technique for determining key levels to which the course can respond. Pivot points tend to act as support or resistance indicating possibilities of reversals.

Interpretation

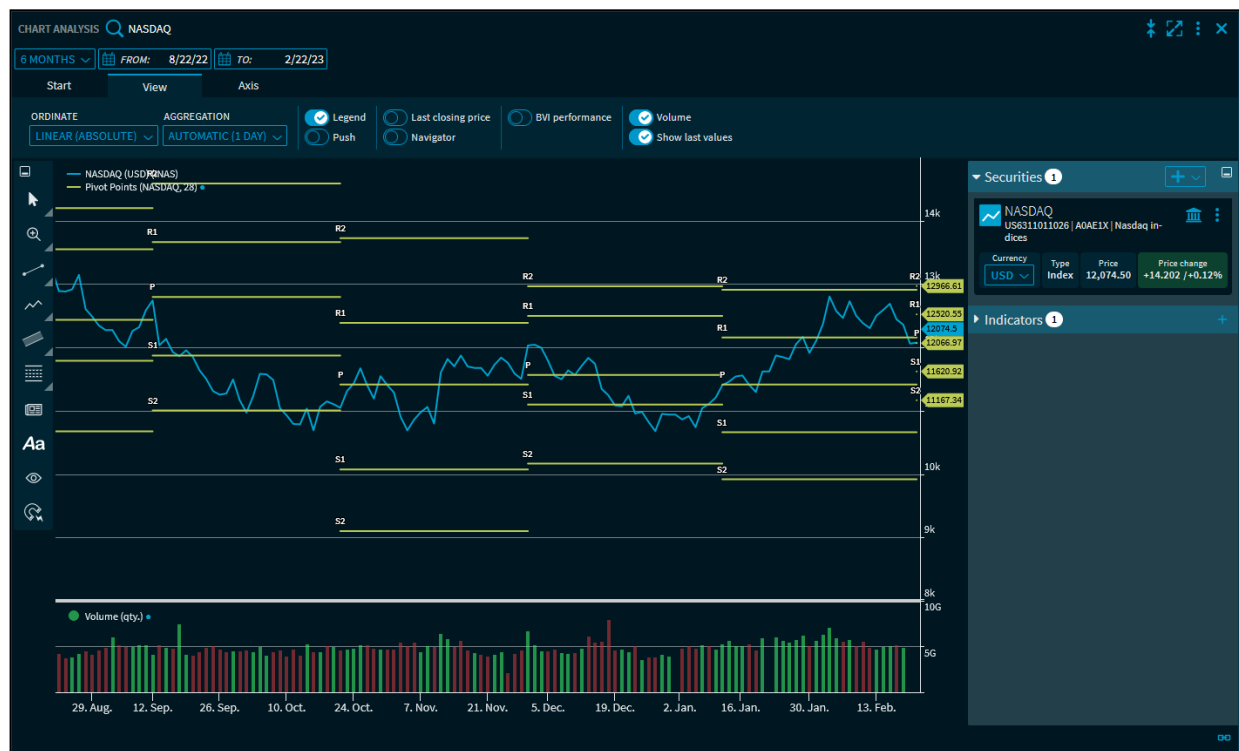
The calculated support and resistance levels to the reversal points can be used to determine when to open or close a position. They also serve to determine the range of a market. Conservative traders are looking for

an additional confirmation before they enter a position. But regardless of whether reversal points are used alone or in combination with other techniques, they are a useful tool for technical traders.

Default setting

- Period: 28 periods

Example: Pivot Points



Volatility (VOLA)

Type

Volatility indicator

Statement

Volatility is an indicator that quantifies the fluctuations of a value. The higher the fluctuation, the higher the volatility.

Formula/calculation

1. Calculation of the MA for the number of periods or observation points
2. Determination of the deviation (Close - MA) of each period
3. Squaring of the period deviations
4. Totalling the squared period deviations
5. Divide the sum by the number of observation points
6. The standard deviation is then the square root of this value

Interpretation

The faster the prices change, the higher the volatility. The slower prices change, the lower the volatility. It is calculated on the basis of historical rates and can be used to identify trends. It also typically signals when a market is overbought or oversold (that is, the price is disproportionately high or disproportionately low), which may indicate a delay or reversal of the trend.

The volatility does not generate buy or sell signals, but it helps with exit or re-entry strategies.

Default setting

- Observation period: 90 periods
- Extrapolation period: 250 periods

Example: Volatility (VOLA)



Volume Oscillator

Type

Volume indicator

Statement

The "Volume Oscillator" ("VO") indicator helps to identify breakthroughs of support and resistance. By forming the difference, the indicator fluctuates freely upwards and downwards around the zero line. A signal is generated by crossing the zero line.

Formula/calculation

The Volume Oscillator consists of two MAs on a volume basis, a shorter and a longer MA. The calculation generally subtracts the longer, "slower" MA from the shorter, "faster" MA.

$$\text{Volume Oscillator} = [(\text{short MA}(V) - \text{long MA}(V)) / \text{long MA}(V)] * 100$$

Interpretation

Because the indicator is generally formed on the basis of two MAs, we also limit our interpretation to this case.

A value above the zero line indicates that the shorter MA is above the longer one and thus the turnover volume is increasing. Conversely, a value below the zero line indicates that the shorter MA is below the longer one and thus the volume of sales is decreasing. The indicator does not provide a direct signal, but it is interesting to see whether the rising turnover is also accompanied by falling or rising prices.

If this is the case, then the trend prevailing in the underlying is definitely in order. If divergences arise, a trend reversal is to be expected.

Default setting

Volume Oscillator

Linked to series:

ALPHABET

Short period:

14

Short Smoothing:

SMA

Long period:

28

Long Smoothing:

SMA

Signal period:

Signal Smoothing Method:

SMA

Colour:

rgba(187, 203, 86, 1)

Colour signal:

rgba(228, 124, 255, 1)

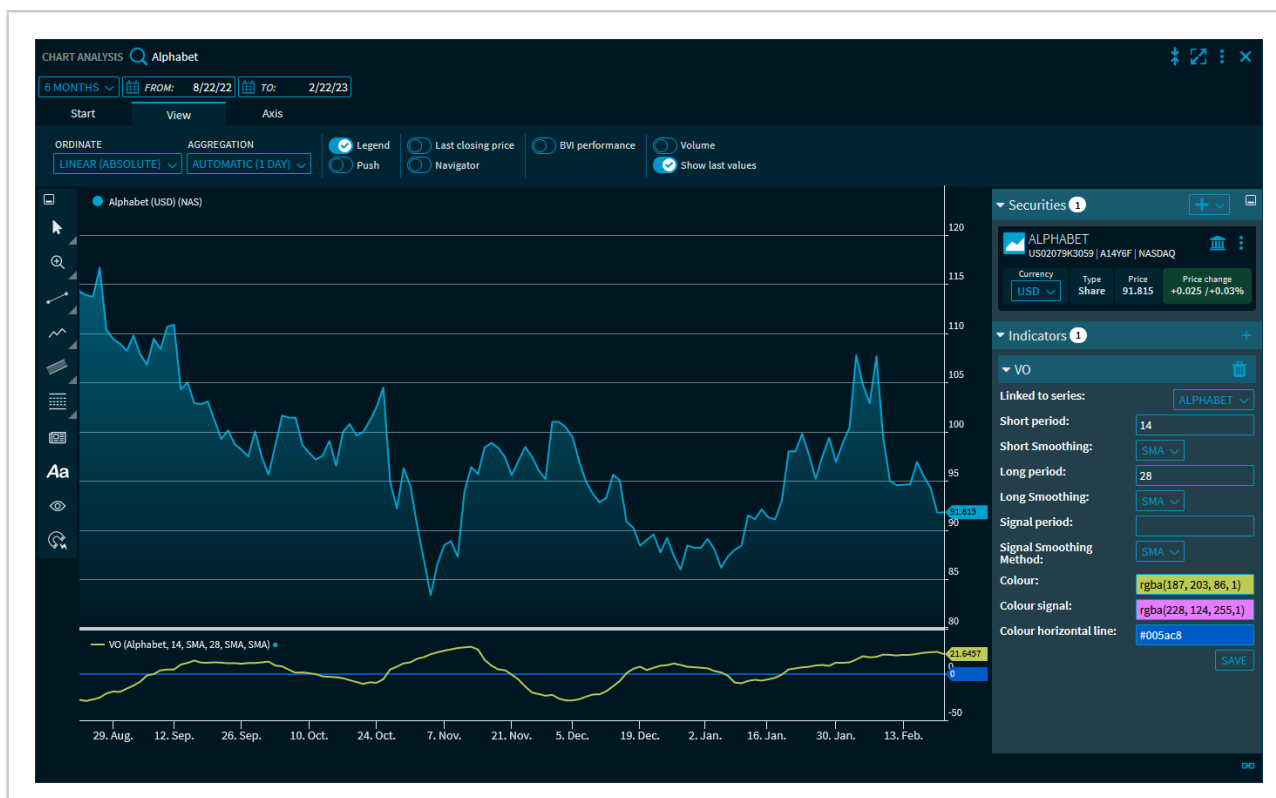
Colour horizontal line:

#005ac8

BACK

ADD

Example: Volume Oscillator



Volume Price Trend

Type

Volume indicator

Statement

The "Volume Price Trend" ("VPT") indicator helps to better assess price trends and the quality of price changes. The VPT consists of a "cumulative" turnover line to which values are added (price increase) or subtracted (price decrease) for the current turnover and price changes.

The VPT is related to the "On Balance Volume" indicator, but in addition to the direction of the development, it also takes into account the strength of this development.

Formula/calculation

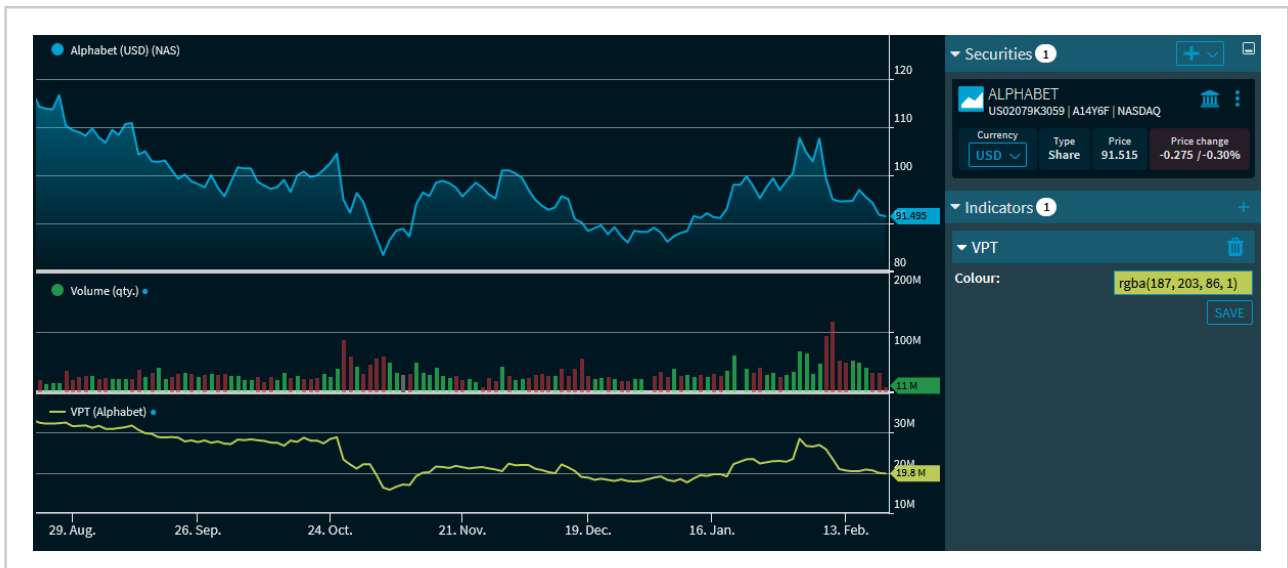
$$VPT = \text{Previous VPT} + ((\text{Volume} * (\text{Today's Close} - \text{Last Close}) / \text{Last Close}))$$

Interpretation

The interpretation is primarily done via trend changes in the indicator, sometimes also via the calculation of a MA on the VPT.

When the indicator is in the positive zone but turns downwards, it shows that the upward momentum is weakening, making it likely that the price will fall. Conversely, when the indicator is in the negative zone and turns upwards, this indicates a weakening downtrend, and thus a rising price is to be expected soon.

Example: Volume Price Trend



Weighted Moving Average

Type

Trend indicator

Short introduction

In contrast to the simple moving average (MA), the Weighted Moving Average (WMA) assigns a higher importance to the current prices compared to older values. The idea behind this is that the current development will have a stronger impact on the future development than values in the past.

Statement

To give greater importance to recent developments, the increase and decrease of the weighting factor is linear. The WMA is determined by multiplying each previous day by a weighting factor. For a calculation over 5 days, for example, the first day is multiplied by a factor of 5, the second day by 4, and so on.

The last day then has a weighting factor of 1. The sum of the individual results is then divided by the sum of the weighting factors.

The weighted MA is thus closer to the current price trend than the simple MA, and thus indicates changes in direction more quickly.

Formula/calculation

$$WMA_t = (W_1 C_t + W_2 C_{t-1} + W_3 C_{t-2} + \dots + W_n C_{t-n+1}) \div (W_1 + W_2 + \dots + W_n)$$

where:

WMA_t = Current value of the weighted MA

Interpretation

Default setting

- MA period: 9 periods

Williams %R

Type

Momentum oscillator

Short introduction

The Williams %R was developed by Larry Williams to indicate overbought and oversold situations. The Williams %R is strongly based on the "Stochastic" indicator.

Statement

The Williams %R is intended to represent the force inherent in upward or downward prices. The indicator relates the current price to the trading margin, that is, the difference between the highest and lowest price, by means of quotient formation.

Like almost every oscillator, the Williams %R is listed in the range between 0 and 100. A value of 100 indicates that the current price corresponds to the low of the period, a value of 0 indicates that the current price corresponds to the highest price in the observation period. Because in this case the buy signal would be generated in the upper range and the sell signal in the lower range, the display is usually reversed and thus corresponds to the "normal" display of indicators.

Formula/calculation

$$\%R = ((H_n - C) \div (H_n - L_n)) \times 100$$

where:

C = Current close price

H_n = High of the last period

L_n = Low of the last period

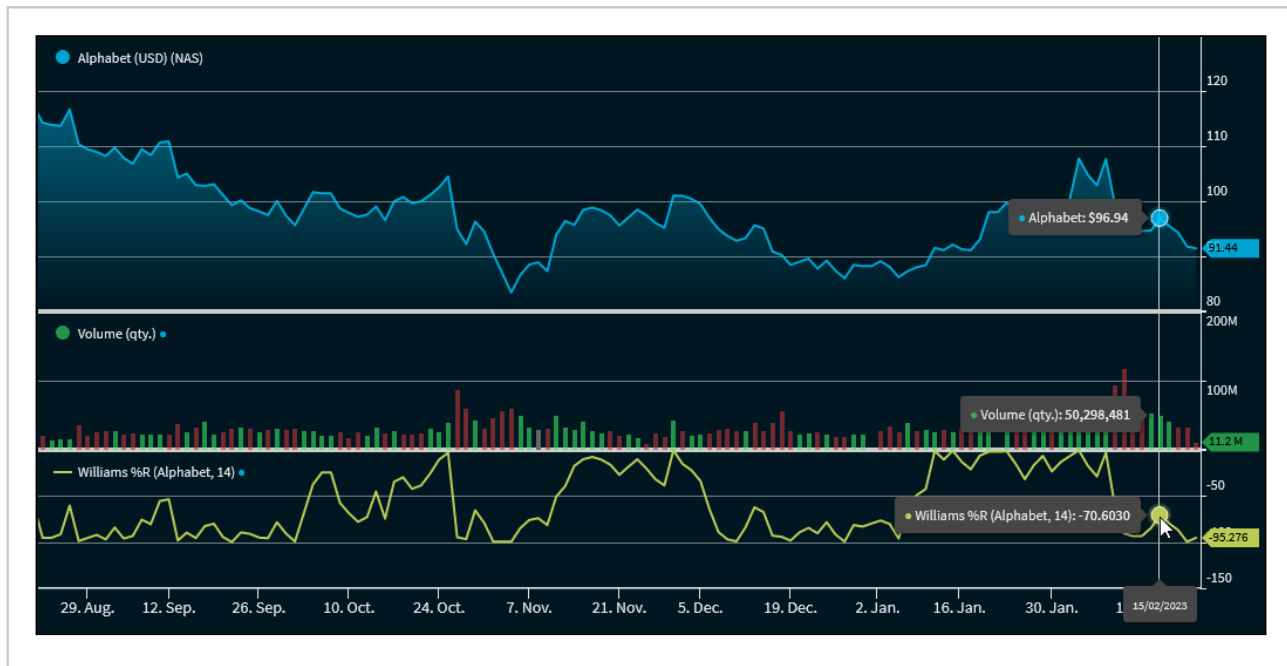
Interpretation

The extreme zones in Williams %R are usually between 0 and 20 and between 80 and 100. If the indicator leaves the extreme range (oversold) between 100 and 80 from below to above, then this is considered a buy signal. If the indicator leaves the range between 0 and 20 (oversold) from above to below, this is considered a sell signal. Because of its extreme speed, the Williams %R is particularly suitable for defining entry signals. However, Williams recommends restricting the indicator to already existing trends.

Default setting

- Extremely short-term: 5 days
- Medium-term: 14 days
- Long-term: 28 days

Example: Chart with Williams %R



Williams' Accumulation/Distribution

Type

Trend indicator

Short introduction

Larry Williams developed the Williams Accumulation / Distribution (WAD) to measure price changes. The aim of the indicator is to generate signals through divergences to the price trend.

Statement

As with other indicators, Williams not only refers to the prices of the current day to form the difference between the close and the daily low or high, but also includes the closing prices of the previous day in the calculation. In this way, a true high or true low is to be identified. The sum of the individual price changes is added to the previous day's value day by day. This results in an indicator curve that is open at the top and bottom and fluctuates around the zero line. If the close prices of the last two days are the same, then the indicator value does not change, because the value 0 is added to the old value.

Formula/calculation

if $C_t > C_{t-1}$ then $X = C - TL$

if $C_t < C_{t-1}$ then $X = C - TH$

if $C_t = C_{t-1}$ then $X = 0$

and

Williams A/D = $(X_t + X_{t-1} + X_{t-2} + \dots + X_{t-n+1})$

where:

TL = "True Low", that is, today's low or the previous day's close, whichever is the smaller.

TH = "True High", that is, today's high or the previous day's close, whichever is greater.

Interpretation

The actual object of analysis in the WAD is the change in prices, which is measured by the indicator. There are two possible interpretations:

First, there is the search for divergences. A negative signal is generated when the underlying is still climbing new highs while the WAD is not climbing any new highs. A positive signal is generated when the actual price trend is still establishing new lows but the indicator is no longer establishing new lows.

On the other hand, there is the possibility to calculate an MA for the WAD and to use the intersection of the two lines as a signal generator. A buy signal is generated when the WAD indicator crosses its MA from bottom to top, a sell signal generated when the WAD crosses its MA from top to bottom.

Example: Chart with WAD



Williams Shadow Line

Type

Trend indicator

Short introduction

The shadow lines developed by Larry Williams are based on a modified concept of moving averages.

Statement

Williams first calculates an MA. Then he additionally plots this MA in the chart offset to the right. This offset "MA" practically represents a "shadow line" of the original one. Buy and sell signals are generated at the intersections of these two lines.

Formula/calculation

Williams Shadow Line = MA + SD

where

SD = Shadow Delay

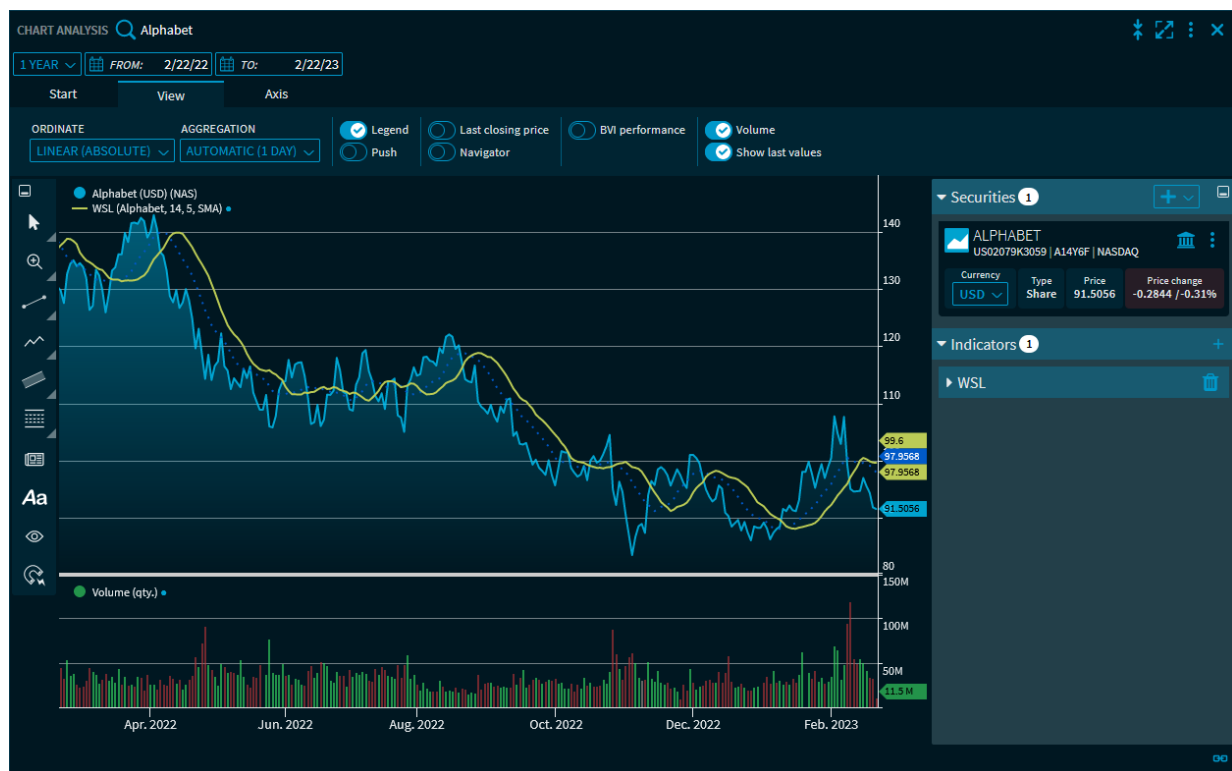
Interpretation

The direction of the MA indicates the prevailing trend in the underlying instrument. The intersections should generate trading signals at trend changes in the underlying instrument. If the MA cuts its shadow line from bottom to top, then this generates a buy signal. If the MA cuts its shadow from top to bottom, then this generates a sell signal.

Default setting

- Period: 14 days
- SD = Shadow Delay: 5 days
- Smoothing: MA

Example: Chart with Williams Shadow Line



Williams Variable Accumulation Distribution Index

Type

Volume indicator

Short introduction

Larry Williams developed the Williams Variable Accumulation Distribution Index (WVAD) as a turnover indicator to measure upward or downward pressure.

Statement

The WVAD fluctuates openly up and down around the zero line. The calculation is made by dividing the difference between the close and open price by the difference between the daily high and low (always greater than or equal to zero). This quotient must be between -1 and +1, this results from the rates used. Because the difference between close and open can be positive and negative, the result can also be positive or negative. This value is first multiplied by the daily turnover and then continuously added to the value of the previous day.

Formula/calculation

$$WVAD = (((C-O)/(H-L))*V)+I$$

where:

I = WVAD value previous day

Interpretation

The WVAD is a simple oscillator over price weighted by turnover. Because of this weighting, one can also speak of a trend follower to a certain extent. The results in the following possible interpretations:

A buy signal is generated when the WVAD crosses the zero line from below, a sell signal is generated when the WVAD crosses the zero line from above.

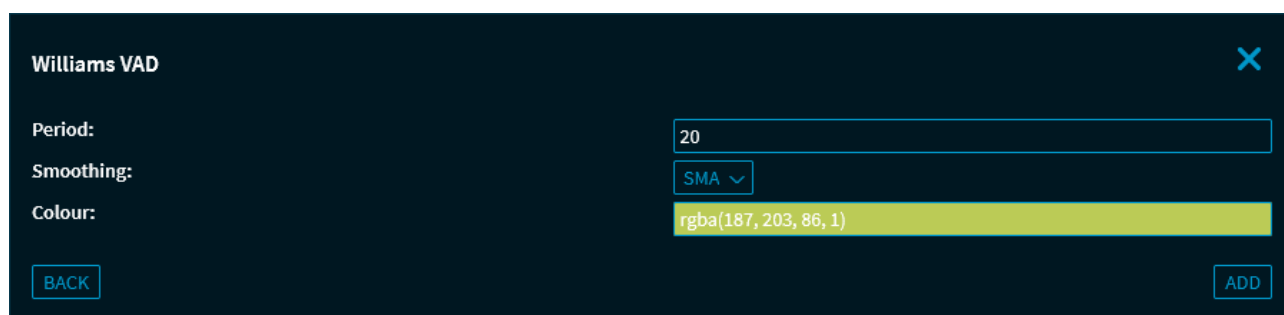
Another possibility is to calculate a MA via the WVAD and use the intersection of the two lines as a signal generator. A buy signal is generated when the WVAD indicator crosses its MA from bottom to top, a sell signal generated when the indicator crosses its MA from top to bottom.

As with other oscillators, leaving extreme zones can be used as a signal generator. However, it is problematic that the WVAD has no fixed limits, so you have to define the extreme zones yourself, which requires some experience! Leaving the upper extreme range is a sell signal, leaving the lower extreme range is a buy signal.

The first values calculated by the indicator should be ignored because it has to settle down first. What is particularly interesting about this indicator is that it also includes turnover in the interpretation. It can therefore provide quite early signals because falling turnover often indicates a change in trend.

Default setting

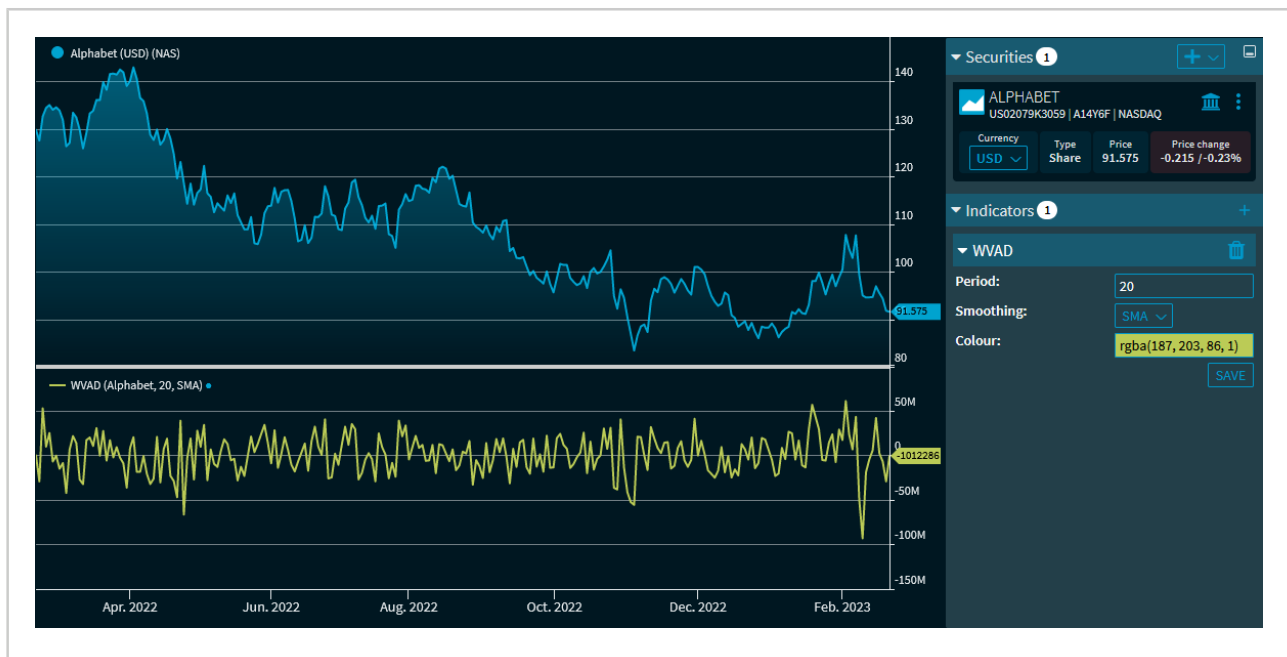
- Period: 20 periods
- Smoothing method: MA (Simple MA)



Smoothing methods you can select:

- MA (moving average) (default setting)
- EMA (exponential moving average)
- WMA (weighted moving average)

Example: Williams Variable Accumulation Distribution Index



ZigZag

Type

Other indicator

Short introduction

The ZigZag is neither an oscillator nor a trend follower, but a kind of "filter" that ignores price movements below a defined limit.

Statement

A ZigZag of "x%" only draws changes that are greater than "x%", measured from high to low or analogous from low to high, while smaller changes are ignored. It connects the reversal points with a line. The direction of the line does not change until an upward or downward trend phase corresponding to the set percentage has ended. Predictions, however, do not seem possible.

Formula/calculation

$$D = ((C_t - E) \div E) * 100$$

where:

D = Current value (last point) of the ZigZag

E = Last reversal point

The last ZigZag line is therefore down for $D < 0$ and up for $D > 0$. However, D is only a new reversal point if prices do not rise (or fall) further in the future, taking into account the fixed limit.

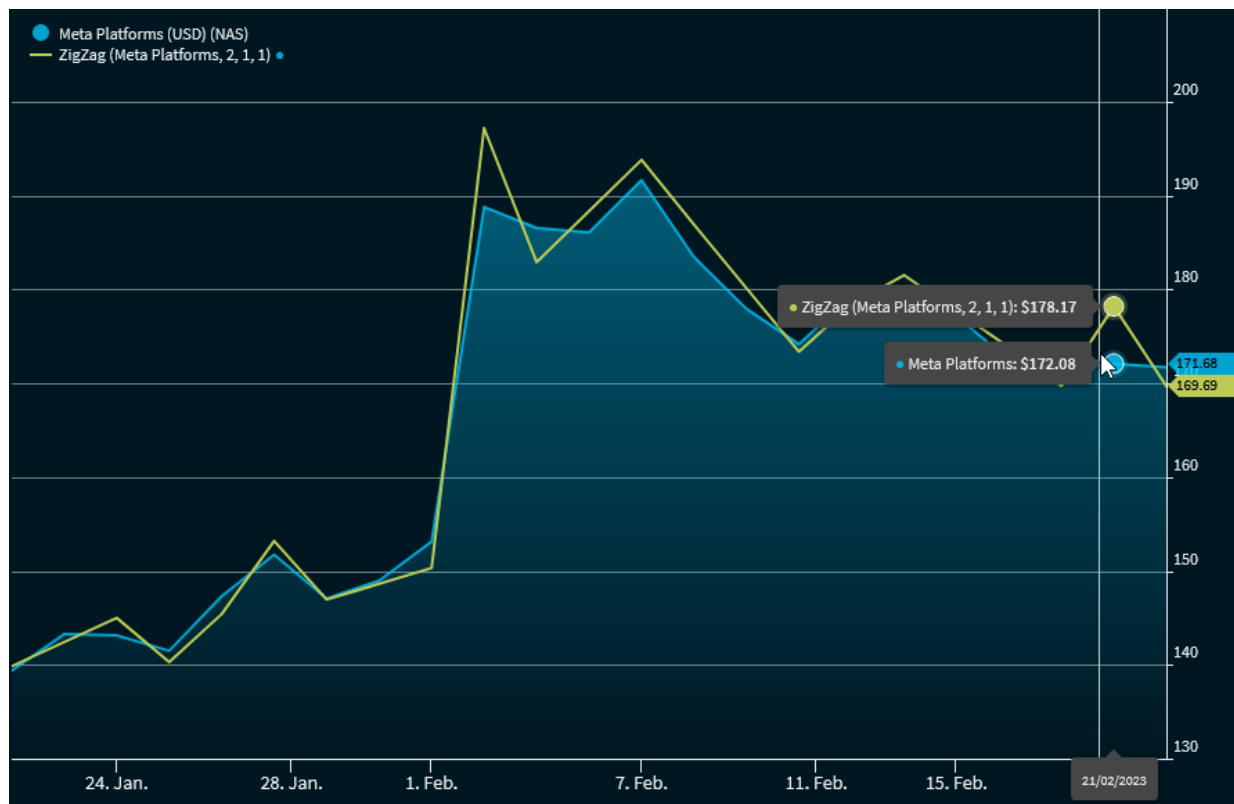
Interpretation

The ZigZag shows the trend of the past and indicates the direction of the current trend phase. Forecasts should not be derived from this "filter", it merely shows the behaviour of a security or an indicator.

Default setting

- Limit: 5%

ZigZag



Elder Ray Bull Index

Type

Momentum oscillator

Short introduction

The "Elder Ray", in Infront Investment Manager implemented as separate indicators "Elder Ray Bull Index" and "Elder Ray Bear Index", actually represents a combination of trend follower and oscillator. The creator, Dr. Alexander Elder, developed this indicator to screen the market, similar to what doctors do with X-rays. The term "Elder Ray" is only the generic term for the two actual indicators.

The Elder Ray Bull Index indicates the so-called "Bull Power" and thus sets corresponding trading signals. Elder Ray curves are displayed in separate charts.

Statement

For both indicators, an exponential MA is first calculated, in the case of Bull Power the MA is subtracted from the daily high. A value above the zero line in the Bull Power indicates that the daily high is above the MA, a negative value indicates that the daily high (and thus all prices of the day) is below the MA.

Formula/calculation

$$\text{Bull Power} = \text{Daily high} - \text{EMA}_n$$

where:

EMA_n = Exponential Moving Average over n periods

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

The interpretation is primarily based on the search for divergences between the actual share price performance and the two elder-ray indicators. A negative signal is generated when the underlying is still climbing new highs while the indicator is not climbing any new highs. A positive signal is generated when the actual price trend is still establishing new lows but the indicator is no longer establishing new lows.

Default setting

- Period n: 13 periods
- Signal: 13 periods
- Smoothing: MA

Example: Elder Ray Bull Index



Elder Ray Bear Index

Type

Momentum oscillator

Short introduction

The "Elder Ray", in Infront Investment Manager implemented as separate indicators "Elder Ray Bull Index" and "Elder Ray Bear Index", actually represents a combination of trend follower and oscillator. The creator,

Dr. Alexander Elder, developed this indicator to screen the market, similar to what doctors do with X-rays. The term "Elder Ray" is only the generic term for the two actual indicators.

The Elder Ray Bear Index indicates the so-called "Bear Power" and thus sets corresponding trading signals. Elder-Ray curves are displayed in separate charts.

Statement

For both indicators, an exponential MA is first calculated, in the case of Bear Power the MA is subtracted from the daily low. In Bear Power, a negative value means that the daily low is below the MA, while a positive value indicates that the daily low (and thus all prices of the day) is above the MA.

Formula/calculation

Bear Power = Day low - EMA_n

where:

EMA_n = Exponential Moving Average over n periods

The following MA variants can be used for smoothing via the parameters:

- Simple MA (SMA) - Default setting
- Exponential MA (EMA)
- Weighted MA (WMA)

Interpretation

The interpretation is primarily based on the search for divergences between the actual share price performance and the two elder-ray indicators. A negative signal is generated when the underlying is still climbing new highs while the indicator is not climbing any new highs. A positive signal is generated when the actual price trend is still establishing new lows but the indicator is no longer establishing new lows.

Default setting

- Period n: 13 periods
- Signal: 13 periods
- Smoothing: MA

Example: Elder Ray Bear Index



5.9.7 Show drawing elements

In the "Chart analysis" widget, you can add various drawing elements. Use the buttons on the left side to draw the elements described in the following sections.

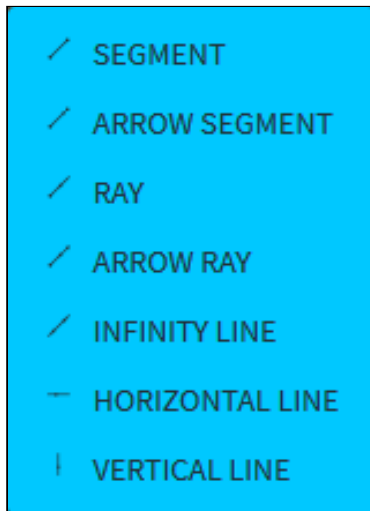
See also:

- [Lines](#)
- [Curved lines](#)
- [Other drawing elements](#)
- [Fibonacci drawing elements](#)
- [Labels](#)
- [Show or hide annotations](#)
- [Magnetic tools](#)
- [Edit drawing elements](#)
- [Delete drawing elements](#)

Lines



To draw lines, click the "Lines" button, and then select the line type from the menu.



See also:

- [Segment](#)
- [Arrow segment](#)
- [Ray](#)
- [Arrow ray](#)
- [Infinity line](#)
- [Horizontal line](#)
- [Vertical line](#)

Segment

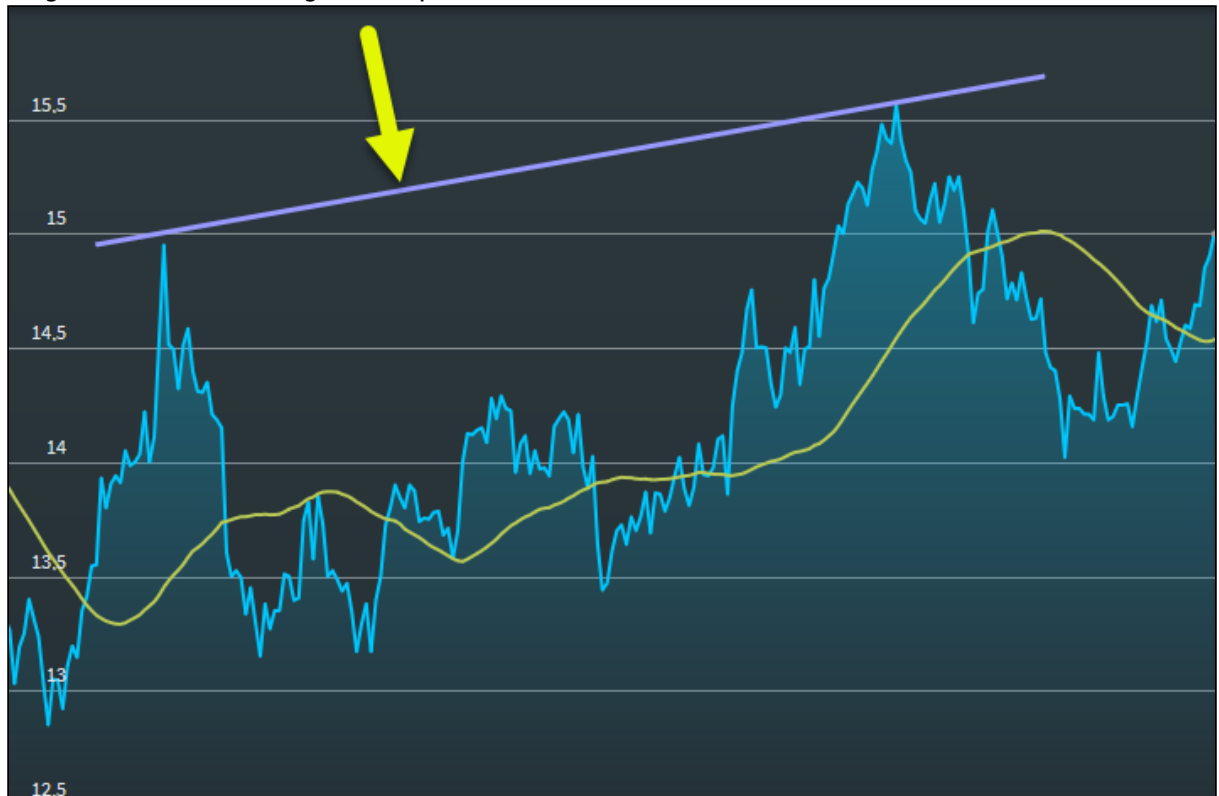


Use this tool to draw a finite line in the chart. To do this, follow these steps:

1. From the "Line" button menu, select the "Segment" entry.
2. In the chart, click where you want the line to start and release the mouse button.
3. Then, move the mouse pointer to the corresponding location in the chart.
4. Finally, double-click to create the end point.

The line is now drawn. You can now select and move it or drag at one of the end points to make it

longer or shorter or change the slope.



For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Arrow segment

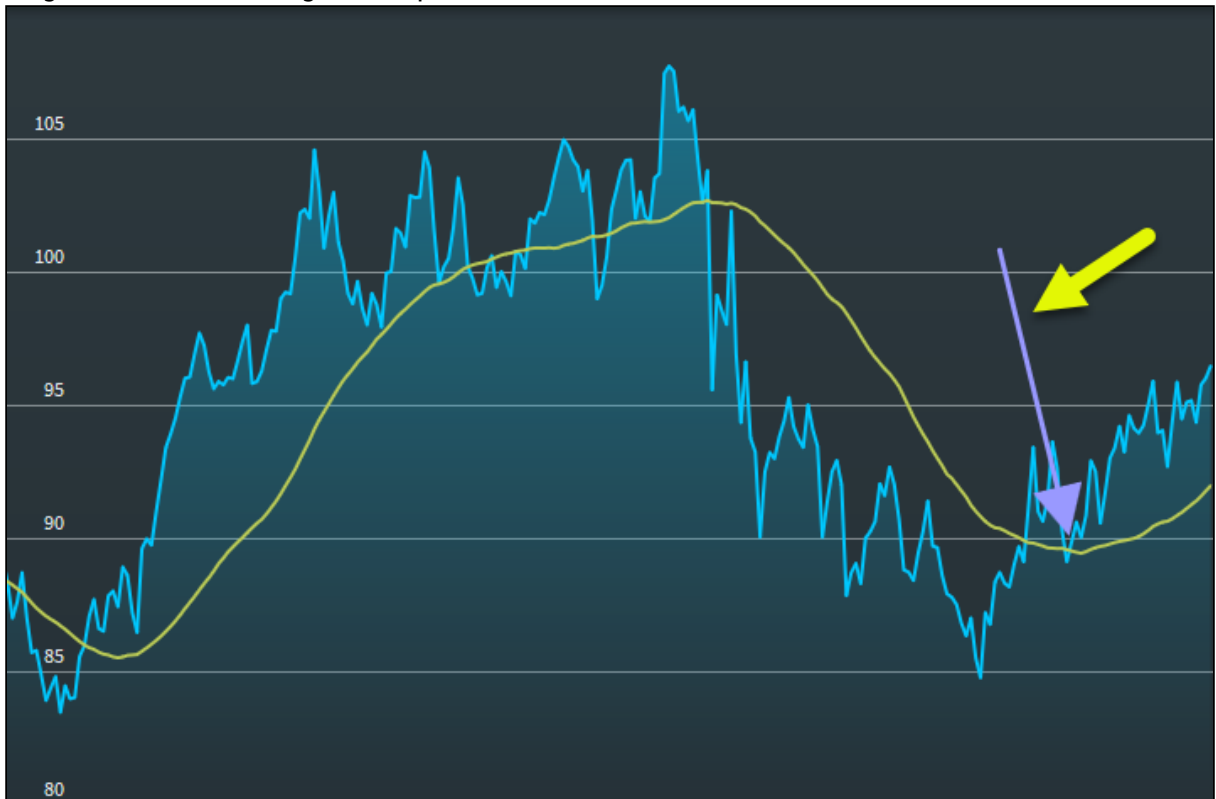


Use this tool to draw an arrow in the chart. To do this, follow these steps:

1. From the "Lines" button menu, select the "Arrow segment" entry.
2. In the chart, click where you want the arrow to start and release the mouse button.
3. Then, move the arrow to the corresponding location in the chart.
4. Finally, double-click to create the end point.

The arrow is created. You can now select and move it or drag at one of the end points to make it

longer or shorter or change the slope.



For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Ray

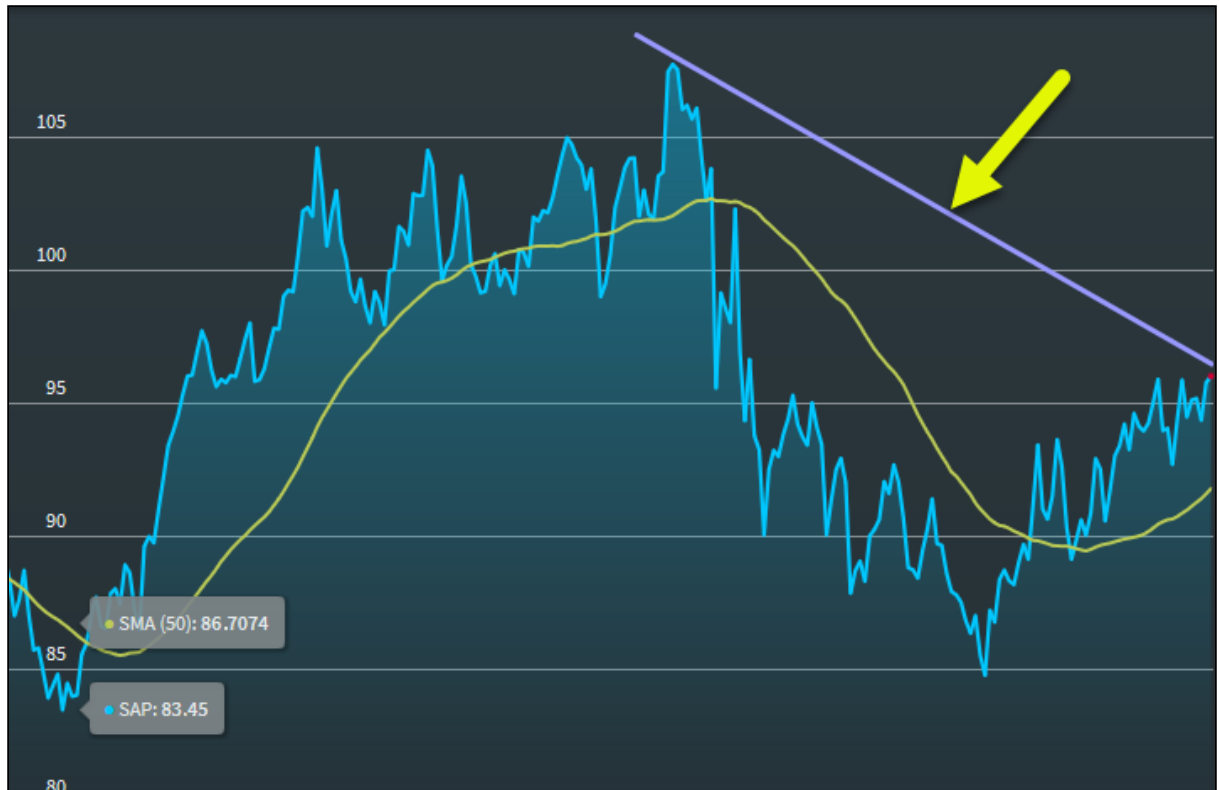


Use this tool to draw a ray in the chart. To do this, follow these steps:

1. From the "Lines" button menu, select the "Ray" entry.
2. In the chart, click where you want the ray to start and release the mouse button.
3. Then, move the ray in the corresponding direction in the chart and release the mouse button.

The ray is created. Unlike the "[Segment](#)" drawing element, the ray is limited only on one side. You can now select and move it in parallel or drag at one of the end points to change the start point or the

direction.



For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

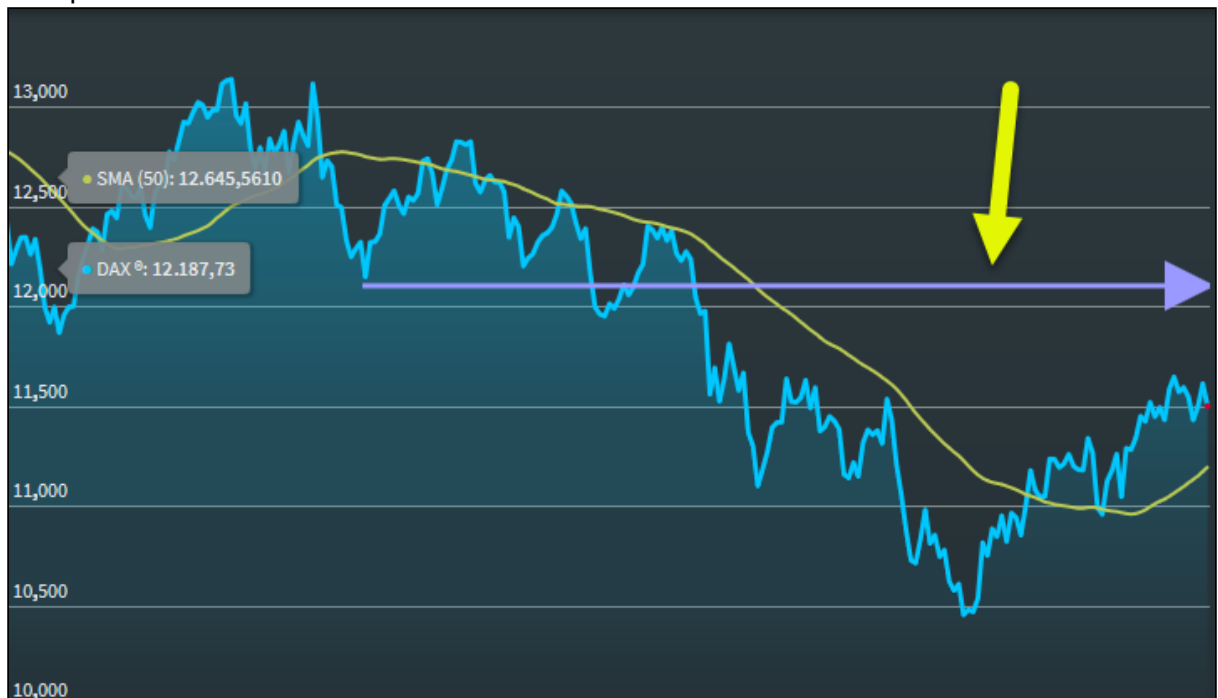
Arrow ray



Use this tool to draw an arrow ray in the chart. To do this, follow these steps:

1. From the "Lines" button menu, select the "Arrow ray" entry.
 2. In the chart, click where you want the arrow ray to start and release the mouse button.
 3. Then, move the arrow ray in the corresponding direction in the chart and release the mouse button.
- The arrow ray is created. Unlike the "[Arrow segment](#)" drawing element, the arrow ray is limited only on one side. You can now select and move it in parallel or drag at one of the end points to change the

start point or the direction.



For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Infinity line

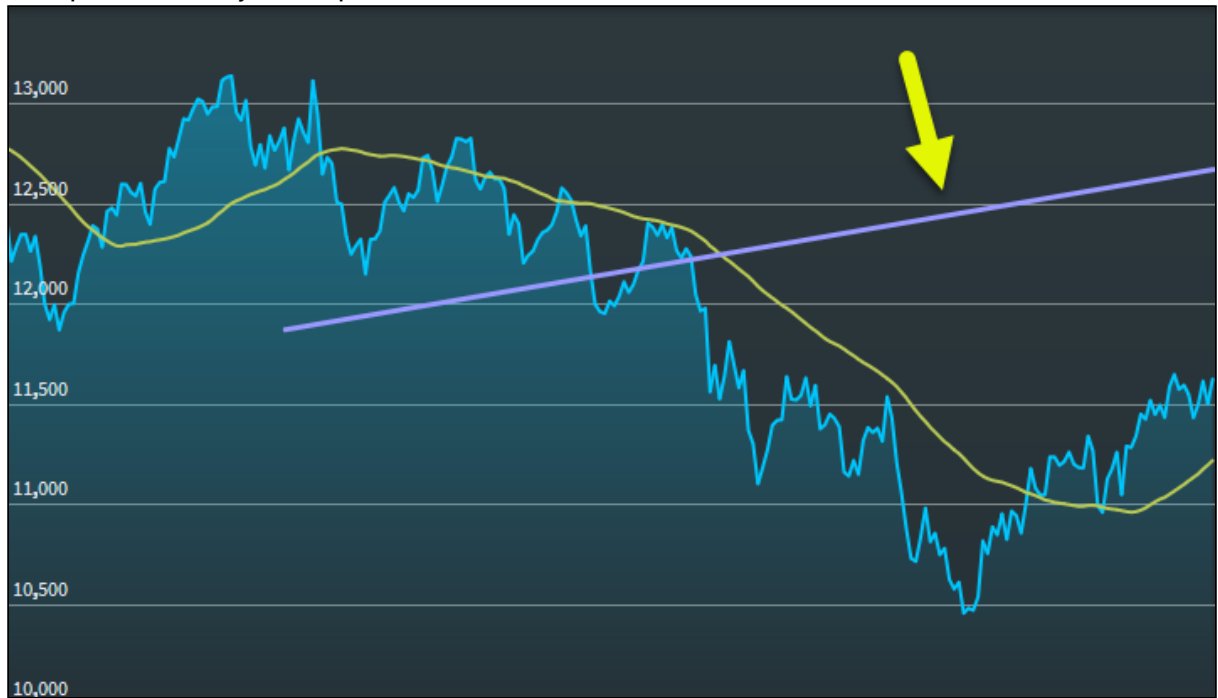


Use this tool to draw an infinite line in the chart. To do this, follow these steps:

1. From the "Line" button menu, select the "Infinity line" entry.
2. In the chart, click where you want the line to start and release the mouse button.
3. Then, drag the line to the corresponding direction.
4. Click to place the line.

The line is created. You can now select and move it or drag at one of the end points to change the

start point or modify the slope.



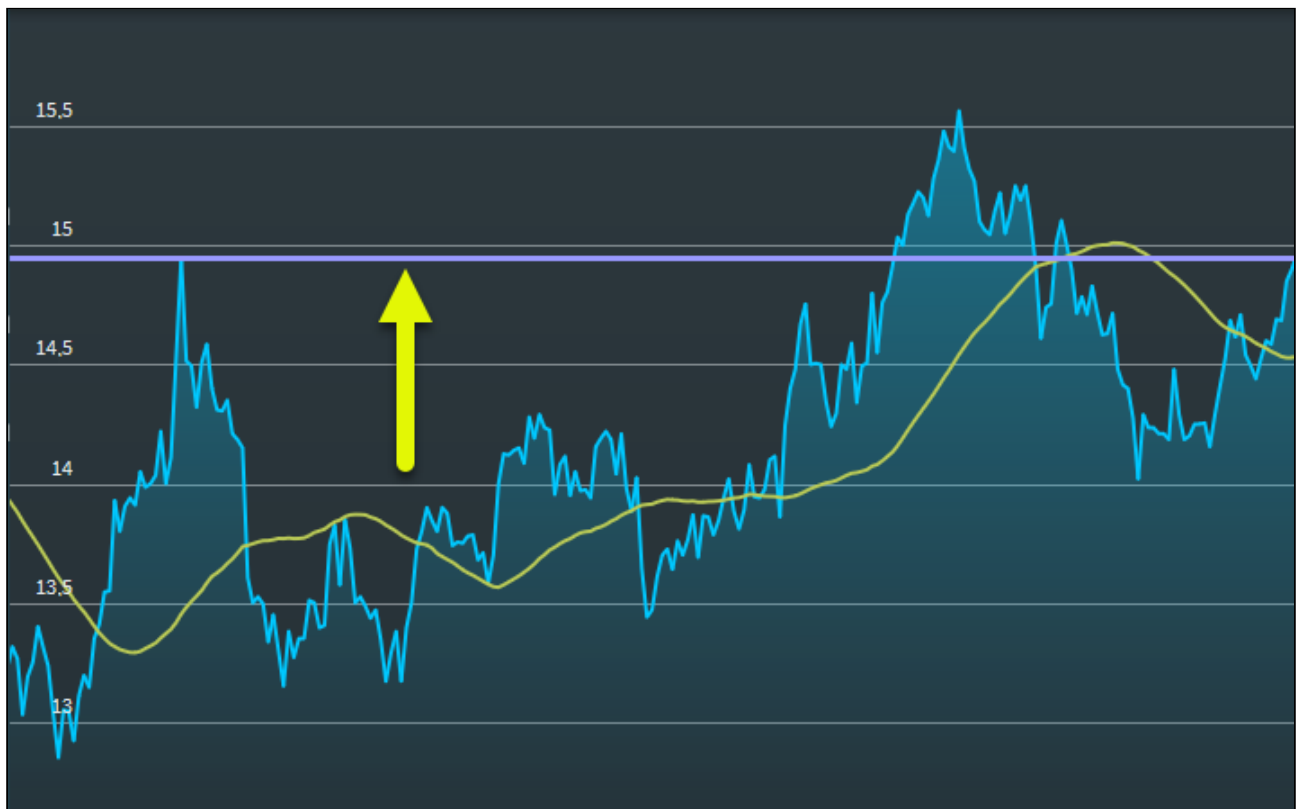
For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Horizontal line



With this tool, you draw horizontal lines to visually support your analyses in the chart. You can draw any number of horizontal support or resistance lines.

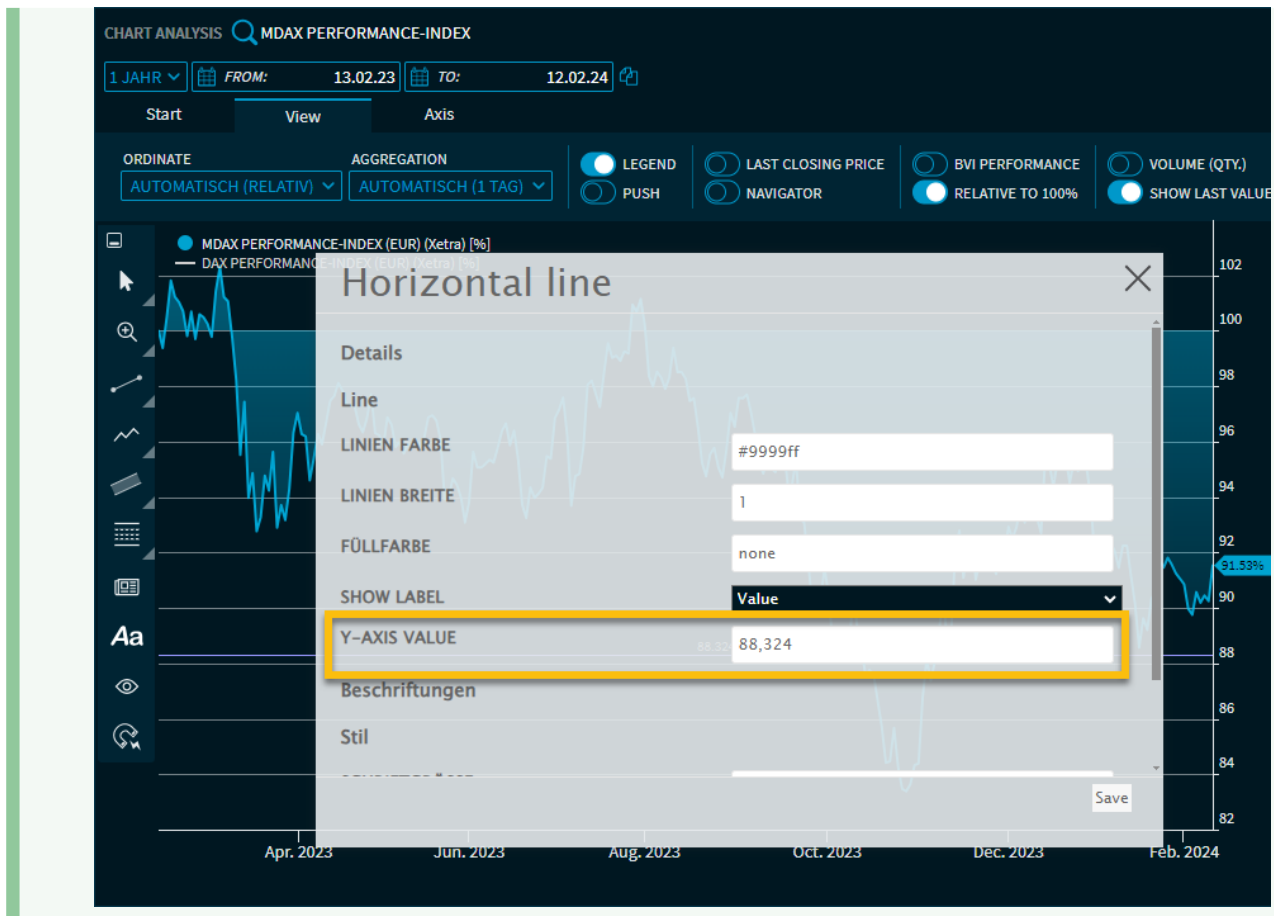
To draw a horizontal line, open the menu of the "Lines" button, select the "Horizontal line" entry, and then click in the chart.



Select the line to move it to the corresponding position. You can use the properties to hide the value displayed on the horizontal line.



With the "Horizontal line" drawing tool, an exact y-axis value can be entered in the editing dialogue:



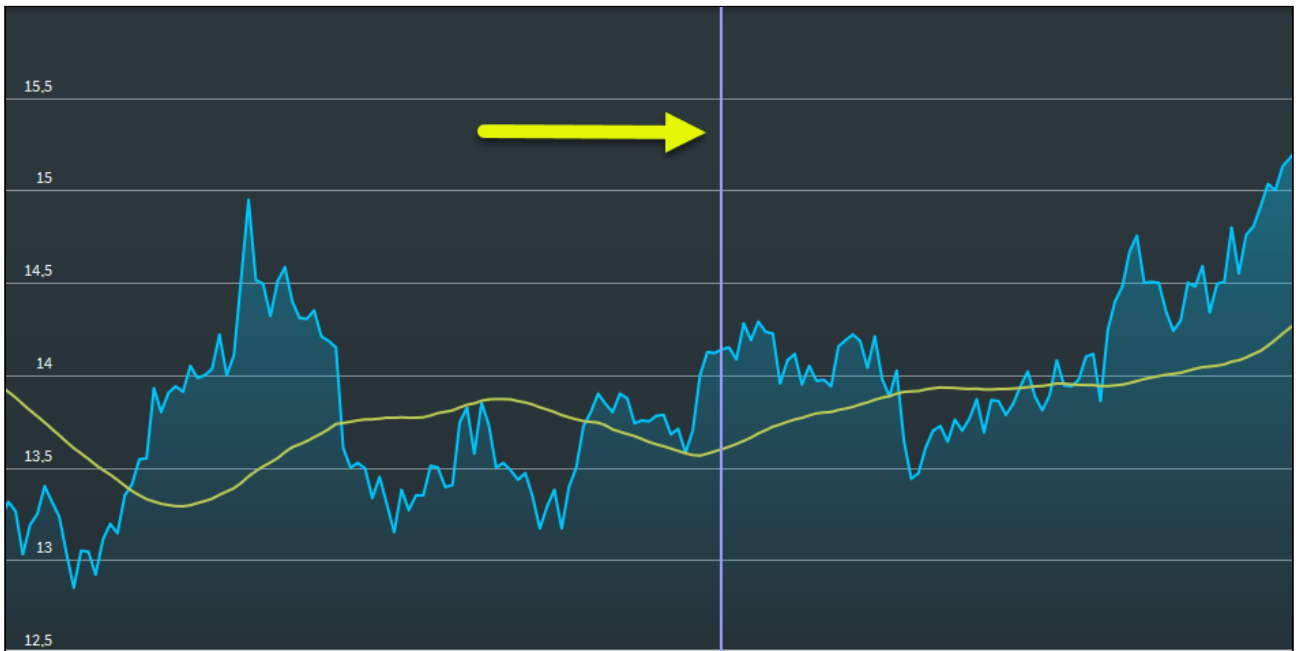
For more information about working drawing elements, see [29664813](#) and [29664814](#).

Vertical line

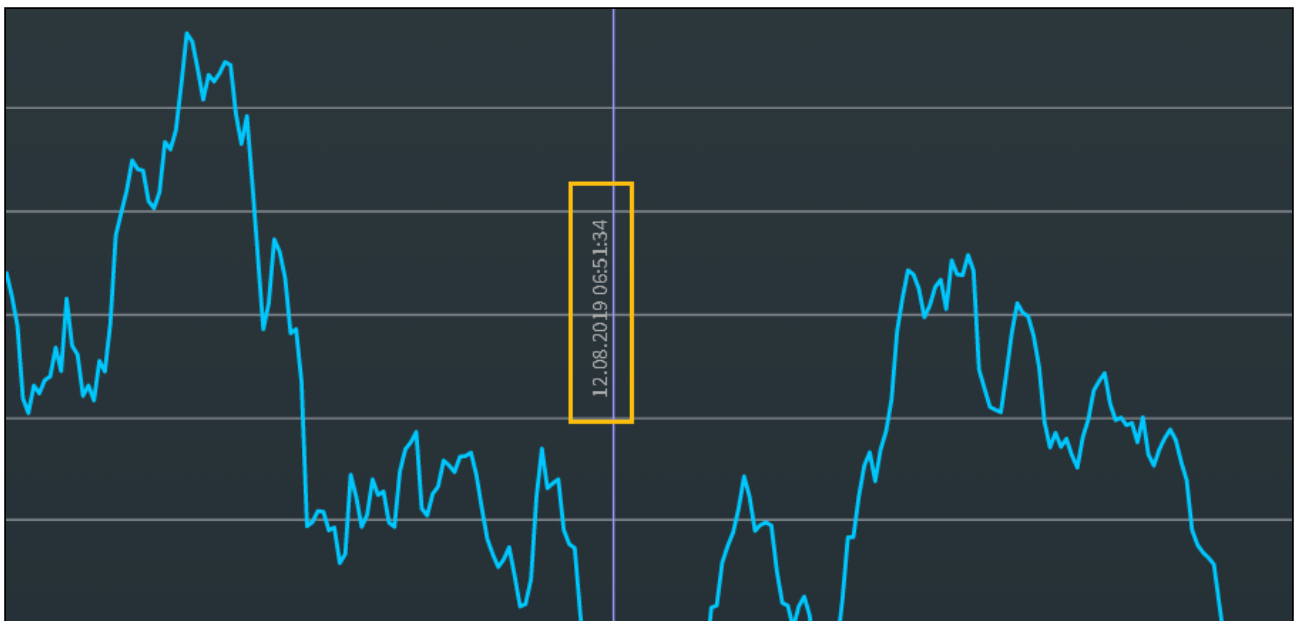


With this tool, you draw vertical lines to visually support your analyses in the chart. You can draw any number of vertical lines.

To draw a vertical line, open the menu of the "Lines" button, select the "Vertical line" entry, and then click in the chart.



Select the line to move it to the corresponding position. In the properties, you can choose whether to display the date and time or the value of the crossing with the time series on the vertical line:



For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Curved lines



To draw curved lines, click the "Curved lines" button, and then select the line type from the menu.

- ^ CROOKED LINES (3 POINTS)
- ~ CROOKED LINES (5 POINTS)
- ⤴ ELLIOTT LINES (3 POINTS)
- ⤴ ELLIOTT LINES (5 POINTS)

See also:

- [Curved lines \(3 points\)](#)
- [Curved lines \(5 points\)](#)
- [Elliott lines \(3 points\)](#)
- [Elliott lines \(5 points\)](#)

Curved lines (3 points)



Use this tool to draw "curved" lines in the chart. To draw Elliott lines connecting 3 points:

1. From the "Curved lines" button menu, select the "Curved lines (3 points)" entry.
2. In the chart, click where you want the line to start and release the mouse button.
3. Move the line in the corresponding direction, and then click to specify the end point of the first part.
4. Drag the second part of the line in the corresponding direction and location, and then click again to set the end point of the curved line.

The Elliott lines are drawn. You can now select and move it or drag at one of the end points to make it longer or shorter or change the slope. You can also drag the middle point in all directions and change the curved line as you wish.



If you want to create even more complex patterns with curved lines, use the "[Crooked lines \(5](#)

points)" drawing element.

For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Curved lines (5 points)



Use this tool to draw "curved" lines in the chart. To draw lines with 4 sections connecting 5 points:

1. From the "Curved lines" button menu, select the "Curved lines (5 points)" entry.
2. In the chart, click where you want the line to start and release the mouse button.
3. Move the line in the corresponding direction, and then click to specify the end point of the first part.
4. Drag the second part of the line in the corresponding direction and location, and then click again to set the end point of the Elliott lines (B) and so on.

Once you have set all points and sections, the curved line is drawn. You can now select and move it or drag at one of the end points to make it longer or shorter or change the slope. You can also drag the other points in all directions and thus change the Elliott lines as you like.



For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Elliott lines (3 points)



Use this tool to draw Elliott lines in the chart. To draw Elliott lines connecting 3 points:

1. From the "Curved lines" button menu, select the "Elliott lines (3 points)" entry.
2. In the chart, click where you want the Elliott line to start, that is, the start position "0", and then release the mouse button.
3. Move the line in the corresponding direction, and then click to specify the end point of the first part (A).
4. Drag the second part of the line in the corresponding direction and location, and then click again to set the end point of the Elliott lines (B).

The Elliott lines are drawn. You can now select and move it or drag at one of the end points to make it longer or shorter or change the slope. You can also drag the middle point in all directions and change the Elliott lines as you wish.



If you want to create even more complex patterns with Elliott lines, use the ["Elliott lines \(5 points\)"](#) drawing element.

For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Elliott lines (5 points)



Use this tool to draw Elliott lines in the chart. To draw Elliott lines connecting 5 points:

1. From the "Curved lines" button menu, select the "Elliott lines (5 points)" entry.
2. In the chart, click where you want the line to start, that is, the start position "0", and then release the mouse button.
3. Move the line in the corresponding direction, and then click to specify the end point of the first part (A).
4. Proceed in the same way to set the points (B), (C) and end point (D).

The Elliott lines are drawn. You can now select and move it or drag at one of the end points to make it longer or shorter or change the slope. You can also drag the other points in all directions and thus

change the Elliott lines as you like.

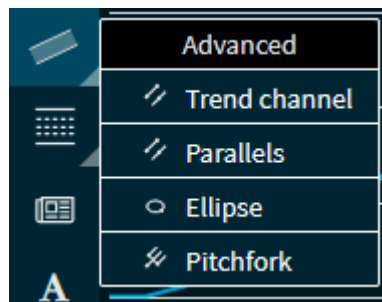


For more information about working with drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Other drawing elements



To use other drawing elements, click the "Advanced" button, and then select the element from the menu.



See also:

- [Trend channel](#)
- [Parallel](#)
- [Ellipse](#)
- [Fork](#)

Trend channel

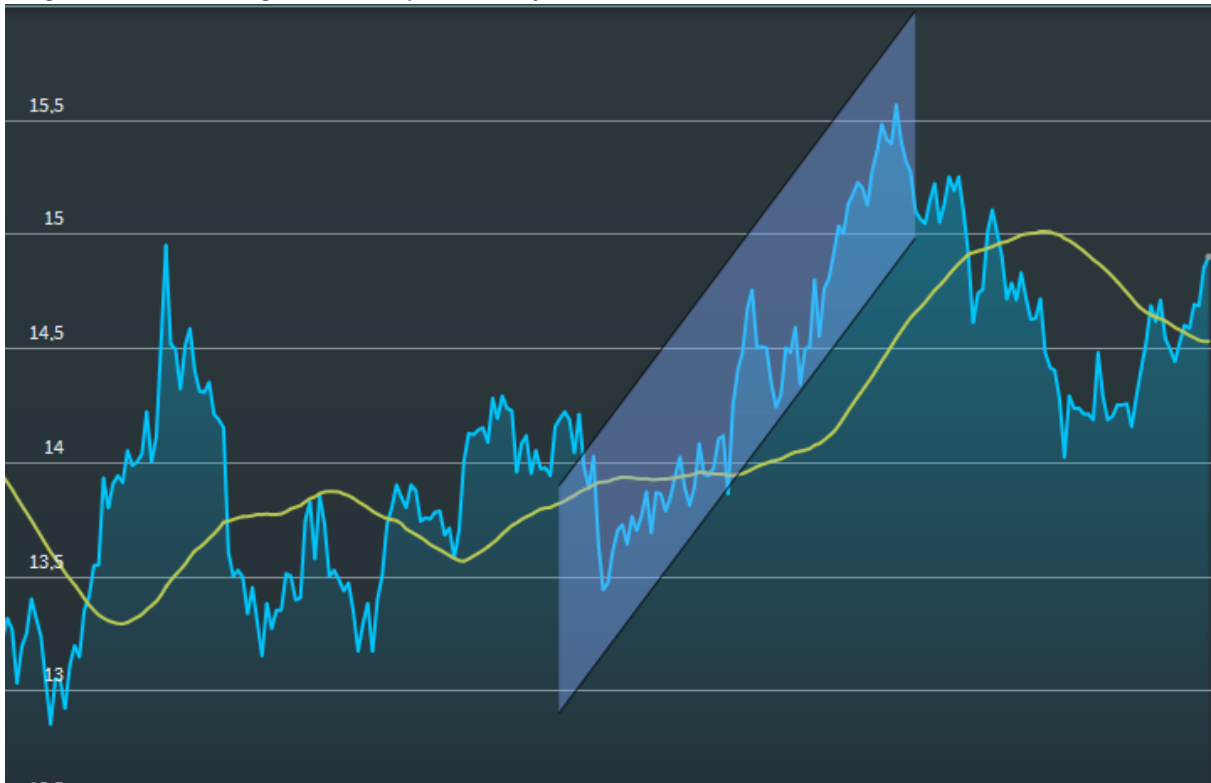


Use this tool to draw a trend channel in the chart. To do this, follow these steps:

1. From the "Advanced" button menu, select the "Trend channel" entry.

2. Then click the starting position of the element in the chart.
3. Then, move the line that appears to the desired location in the chart.
4. Click at the end point and fan out the trend channel with the mouse by dragging the line.
5. Click when you reach the desired width.

The channel is drawn. You can now select and move it or drag at one of the touch points to make it longer or shorter. Drag the centre point to adjust the width of the trend channel.



Using the properties of the selected drawing element (edit mode), you can edit the trend channel and, for example, extend the lines beyond the start and end points.

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Parallel

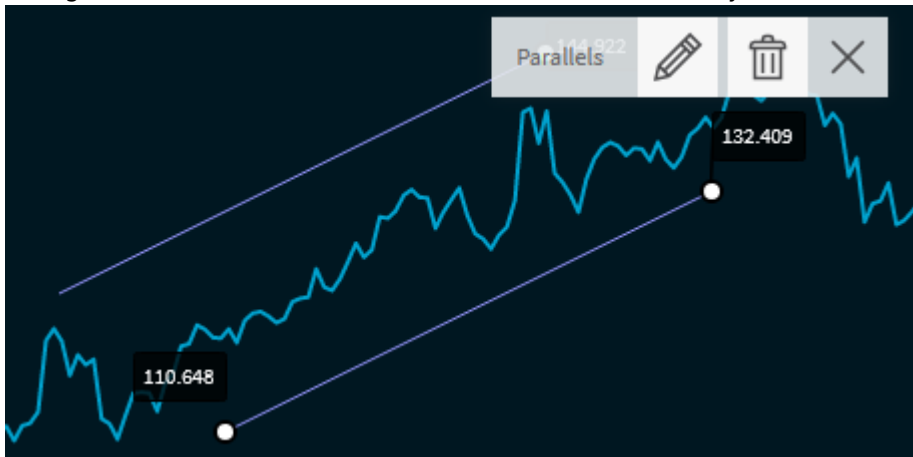


Use this tool to draw parallel lines in the chart. To do this, follow these steps:

1. From the "Advanced" button menu, select the "Parallel" entry.
2. Then click in the chart on the relevant starting position of the first line of the element.
3. Then, move the line that appears to the desired location in the chart.
4. Click at the end point
5. Now draw the second and if necessary further lines parallel to the first.
6. Click when you reach the relevant position.

This draws the parallels. You can now select and move it or drag at one of the touch points to make

it longer or shorter. You can hide the values that are shown by default in edit mode.



Parallels



By using the properties of the selected drawing element (edit mode), you can show more parallel lines or extend the lines beyond the start and end points.

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

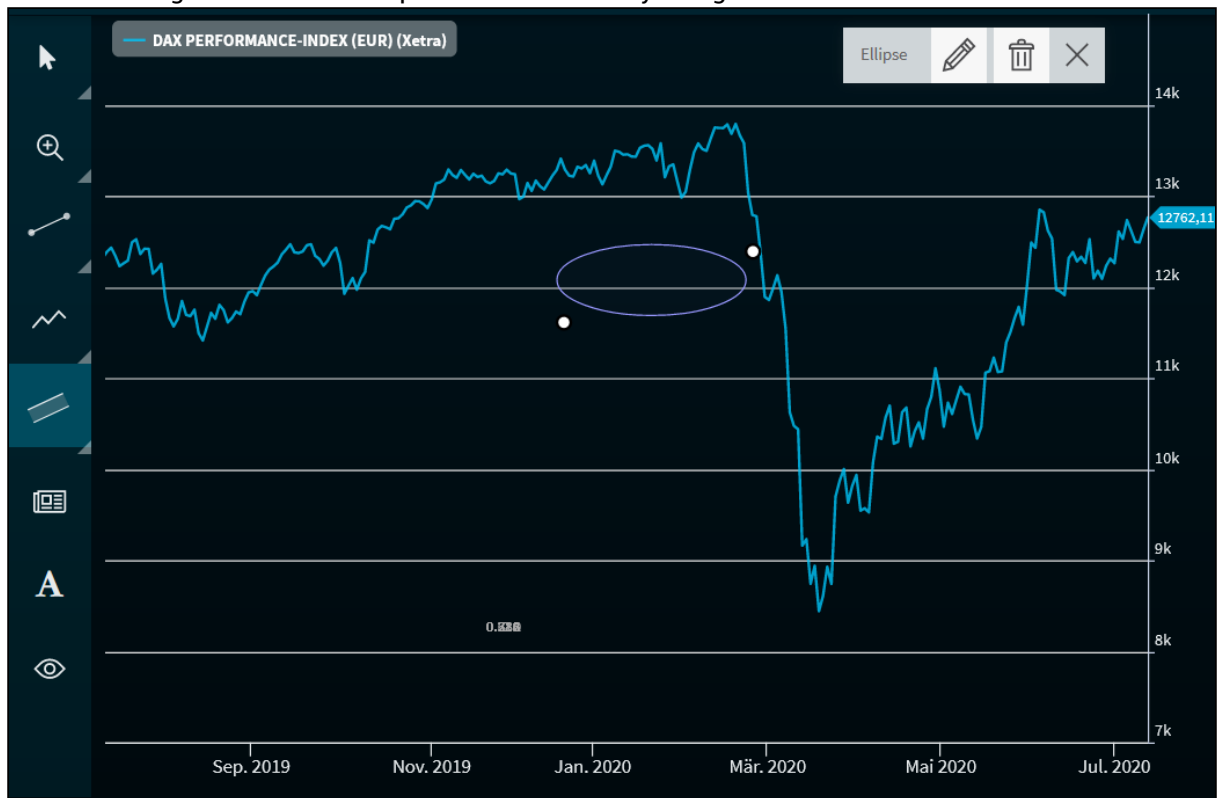
Ellipse



Use this tool to draw a vertical Fibonacci segment in the chart. To do this, follow these steps:

1. From the "Advanced" button menu, select the "Ellipse" entry.
2. Then click the starting position of the element in the chart.
3. Then, move the ellipse that appears to the corresponding location in the chart.
4. Click the end point to draw the ellipse.

5. You can change the size and shape with the mouse by using the two handles.



For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Fork

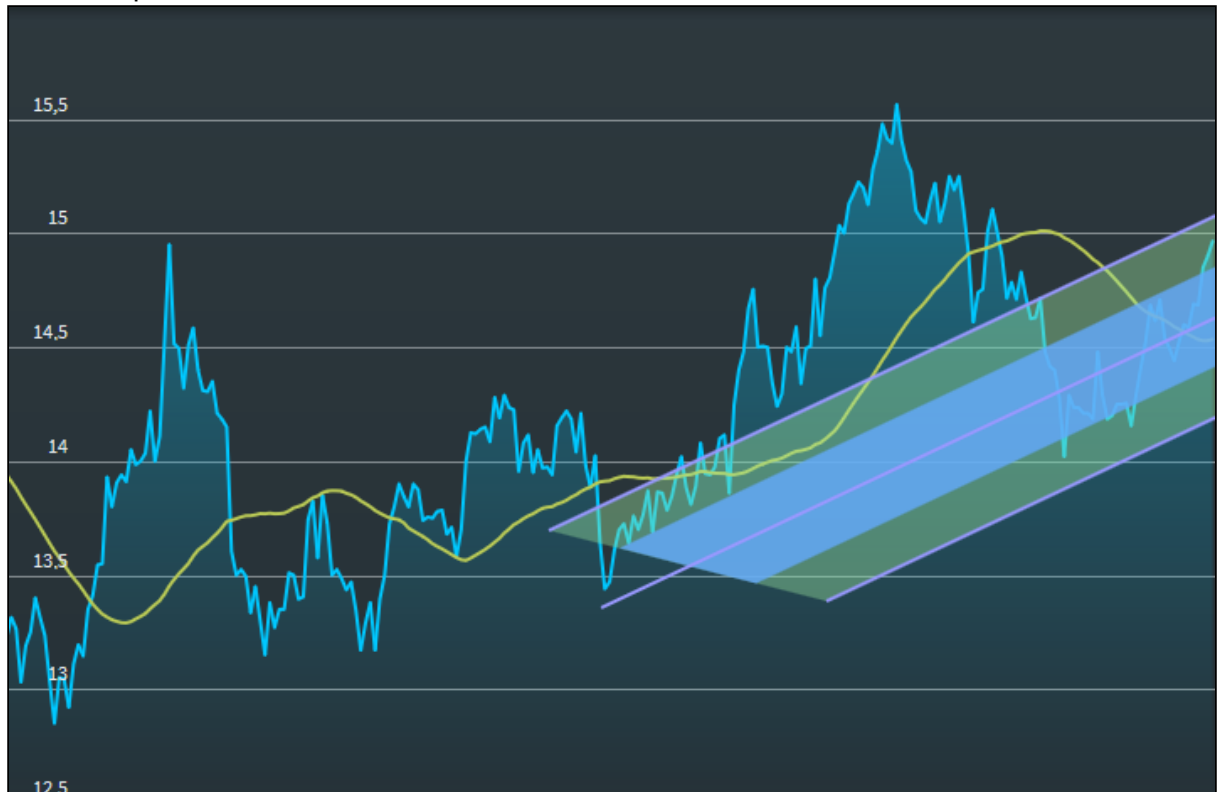


Use this tool to draw a "Pitchfork" in the chart. To do this, follow these steps:

1. From the "Advanced" button menu, select the "Pitchfork" entry.
2. Then click the starting position of the element in the chart.
3. Then, move the line that appears to the desired location in the chart.
4. Click at the end point and fan out the pitchfork with the mouse by dragging the line.
5. Click when you reach the desired width.

The pitchfork lines are drawn. You can now also select and move them or "drag" them at one of the

two touch points and thus stretch or contract the lines.

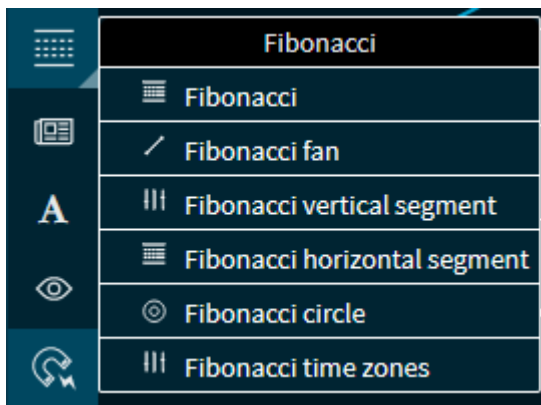


For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Fibonacci drawing elements



To use particular drawing elements, click the "Fibonacci" button, and then select the relevant element from the menu.



See also:

- [Fibonacci](#)
- [Fibonacci fan](#)
- [Fibonacci vertical segment](#)
- [Fibonacci horizontal segment](#)

- [Fibonacci circle](#)
- [Fibonacci Time Zones](#)

Fibonacci

Fibonacci numbers are named after the Italian mathematician Leonardo of Pisa, later known as Fibonacci. Each number is the sum of the two preceding ones, starting from one. The beginning of the sequence is thus 1, 2, 3, 5, 8, 13, 21, 34 ... The ratio of the two nearest neighbours tends to 1.618.

The ratios of the following numbers are also important. It was discovered that many natural processes develop following these ratios, that is, they appear in biological settings, such as branching in trees or the arrangement of leaves on a stem. This is known as the "golden ratio". Assuming that price cycles follow similar rules, we can derive a series of new indicators for price/time intervals.

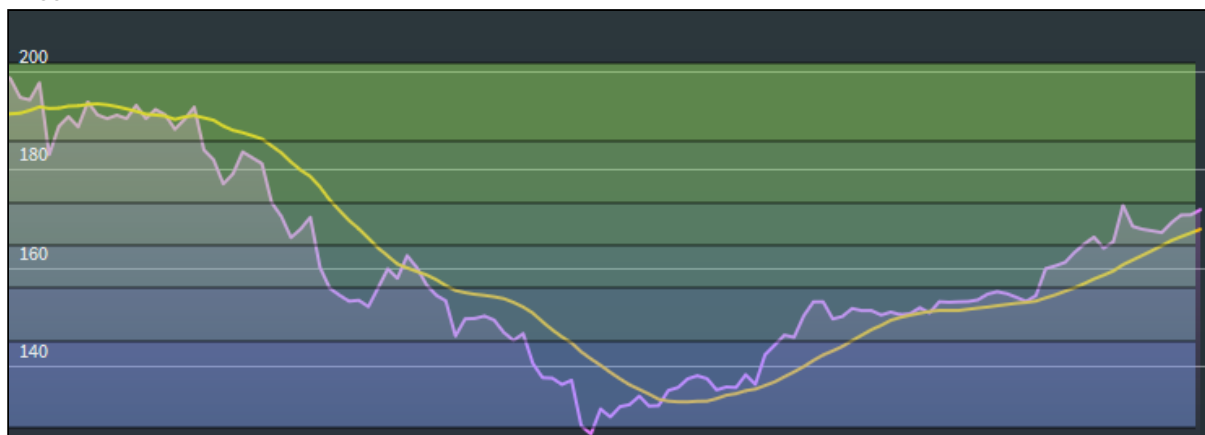
Using Fibonacci ratios, we can determine areas of support or resistance.



Use this tool to draw Fibonacci retracements in the chart. To do this, follow these steps:

1. From the "Fibonacci" button menu, select the "Fibonacci entry".
2. Then click the starting position of the element in the chart.
3. Then, move the line that appears to the desired location in the chart.
4. Click at the end point and fan out the Fibonacci retracements with the mouse by dragging the line.
5. Click when you reach the desired width.

The Fibonacci lines are drawn. You can now select and move it or drag at one of the end points to make it longer or shorter or change the slope. Use the centre touch point to stretch or contract the lines.



In the chart, parallel lines are drawn for the following values (Fibonacci retracements)

- 0
- 0.236
- 0.382
- 0.5
- 0.618
- 0.786
- 1

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Fibonacci fan



Use this tool to draw trend channels in the chart. To do this, follow these steps:

- The channel is drawn. You can now select and move it or drag at one of the touch points to make it longer or shorter. Drag the handle point in the centre to adjust the width of the trend channel.

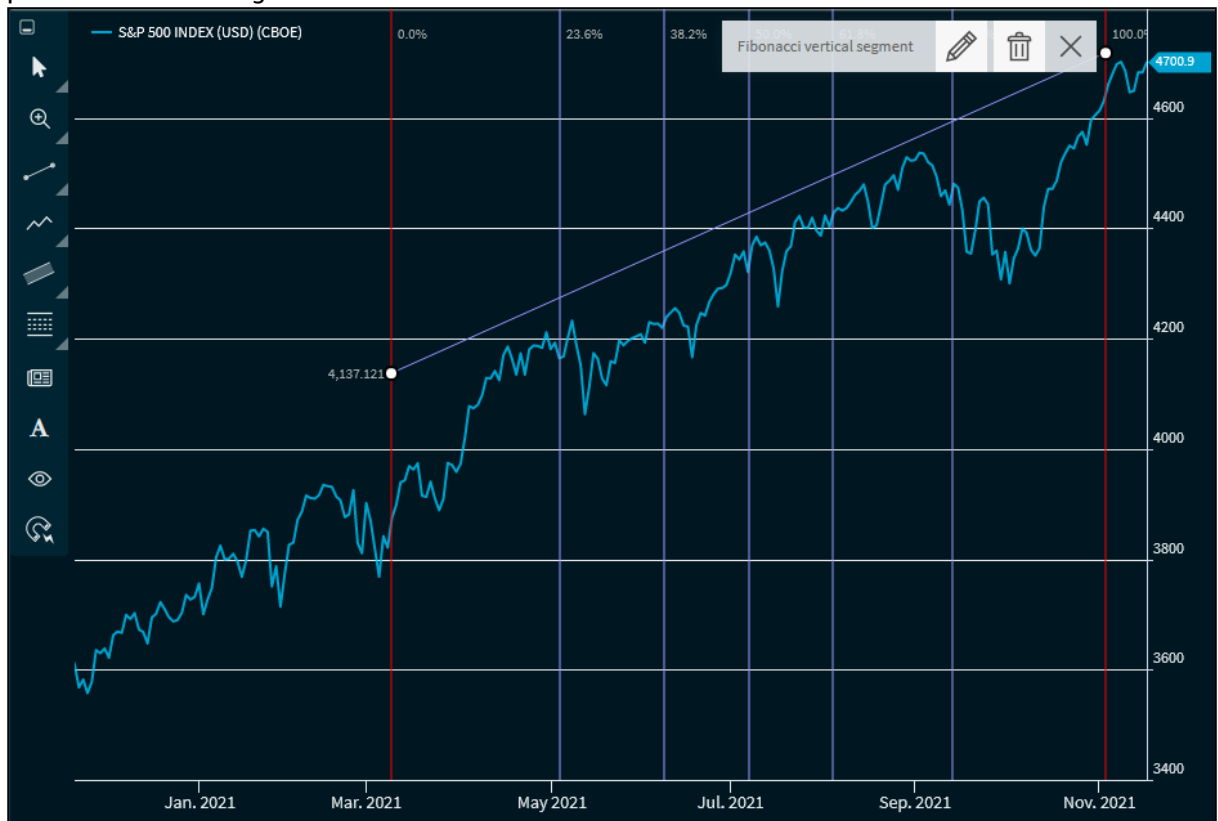


Fibonacci vertical segment



- The Fibonacci vertical segment is drawn. You can now select and move it or drag at one of the touch

points to make it longer or shorter.



i The vertical Fibonacci lines are plotted at 0% - 23.6% - 38.2% - 50% - 61.8% - 78.6% - 100% - 123.6% - 138.2%... are drawn.

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

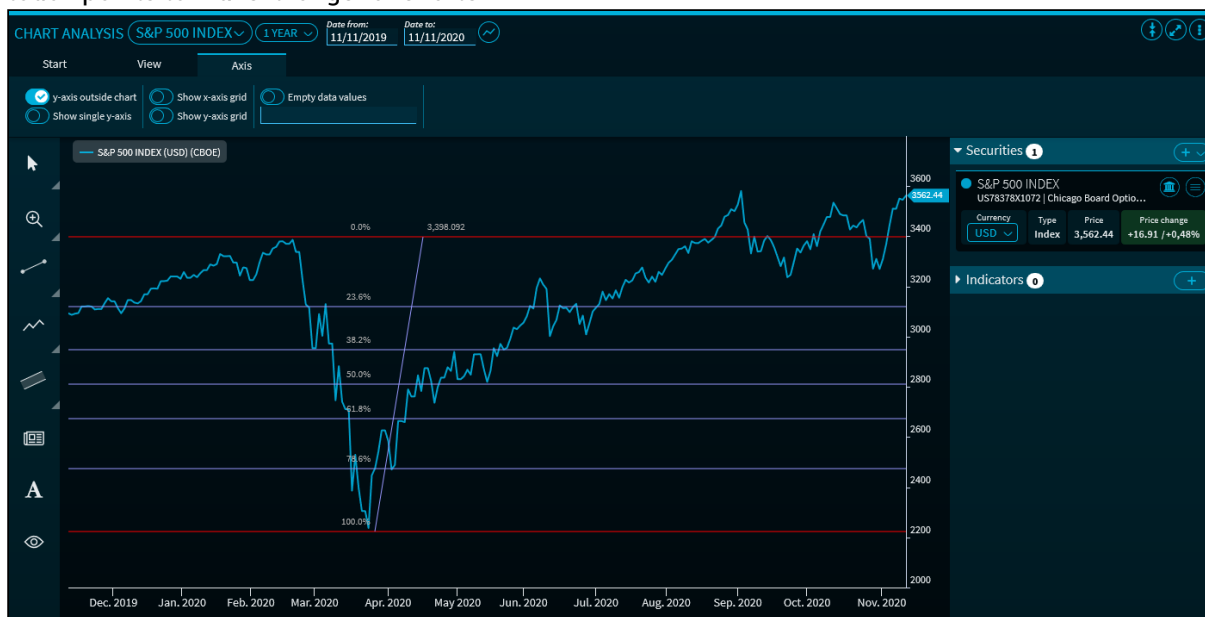
Fibonacci horizontal segment



Use this tool to draw a horizontal Fibonacci segment in the chart. To do this, follow these steps:

1. From the "Fibonacci" button menu, select the "Fibonacci horizontal segment" entry.
 2. Then click the starting position of the element in the chart.
 3. Change the element that appears to the size you need. Click the end point for the segment.
- This draws the Fibonacci horizontal segment. You can now select and move it or drag at one of the

touch points to make it longer or shorter.



The vertical Fibonacci lines are plotted at 0% - 23.6% - 38.2% - 50% - 61.8% - 78.6% - 100% - 123.6% - 138.2%...

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

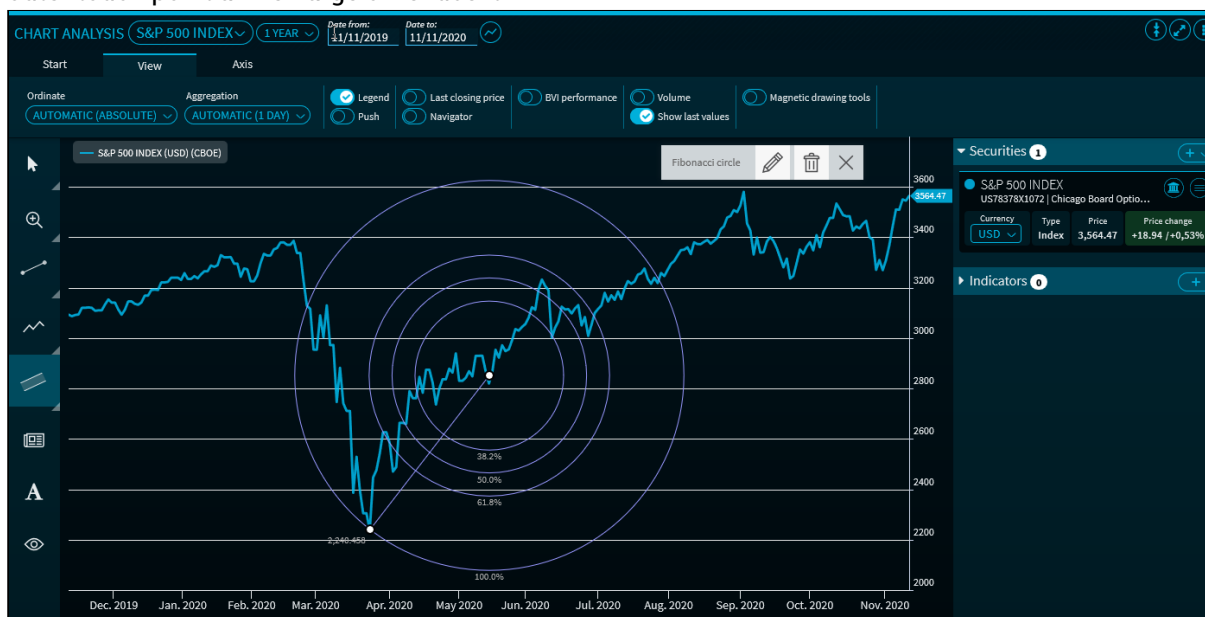
Fibonacci circle




Use this tool to draw Fibonacci circle in the chart. To do this, follow these steps:

1. From the "Fibonacci" button menu, select the "Fibonacci circle" entry.
2. Then click the starting position of the element in the chart.
3. Change the circle to the size you need. Next, click the end point for the radius.

This draws the Fibonacci circle. You can now also select and move it (middle touch point) or drag the outer touch point and enlarge or reduce it.



 The Fibonacci circles are plotted at 38.2% - 50% - 61.8% - 78.6% - 100%.

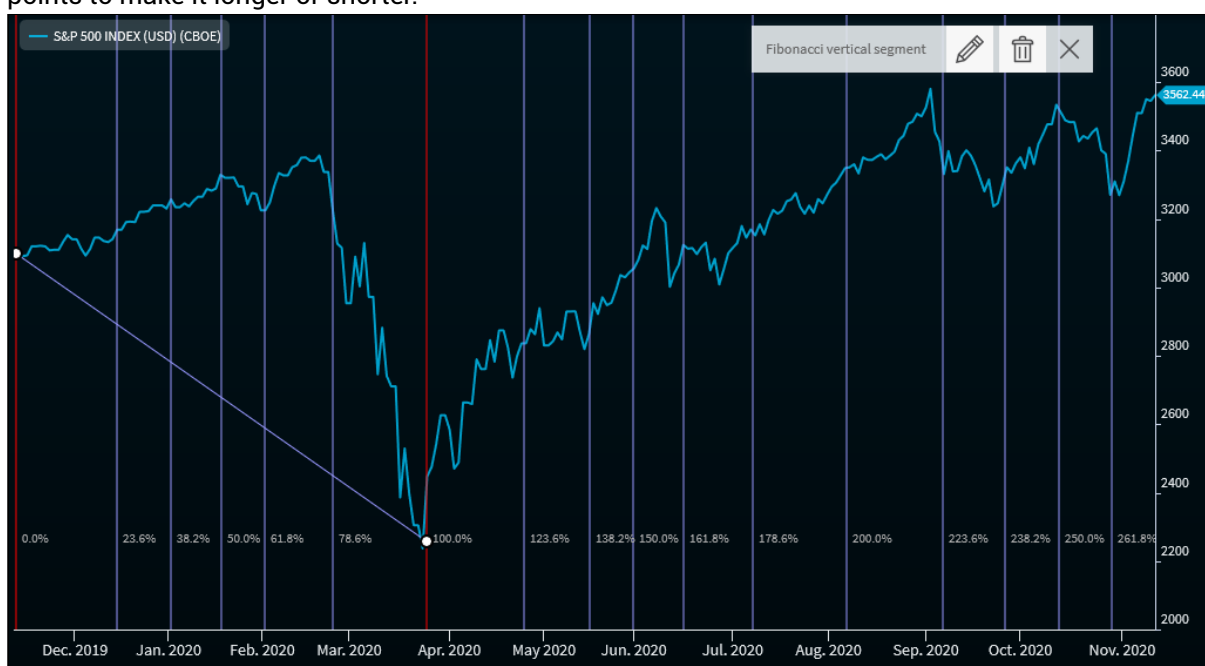
For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).


Fibonacci Time Zones



Use this tool to draw Fibonacci time zones in the chart. To do this, follow these steps:

1. From the "Fibonacci time zones" button menu, select the "Fibonacci time zones" entry.
2. Then click the starting position of the element in the chart.
3. Change element that appears to the size you need. Next, click the end point for the segment.
This draws the Fibonacci time zones. You can now select and move them or drag at one of the touch points to make it longer or shorter.



 Fibonacci Time Zones are a set of vertical lines. They are drawn into the chart, by clicking with your mouse on the start point for the first time zone. The time zones are drawn in, spaced at the Fibonacci intervals of 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233 and so on. Using the Fibonacci interpretation you look for substantial price changes close to the lines.

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

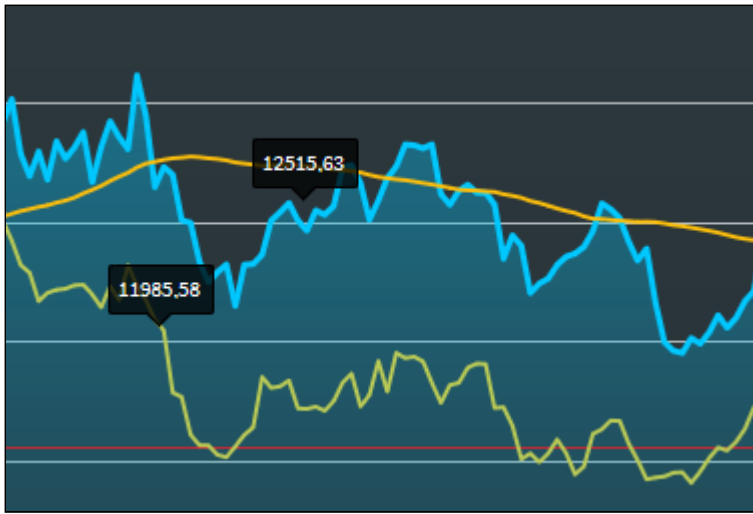
Labels



In the "Chart Analysis" widget, you can select values and display them in text boxes. To do this, follow these steps:

1. Go to the "Chart Analysis" widget.
2. Click the "Label" button on the left side of the widget.
3. In the chart, click the corresponding point in the time series to add a label.
Click the button again to add another label in the widget.

Chart with displayed labels



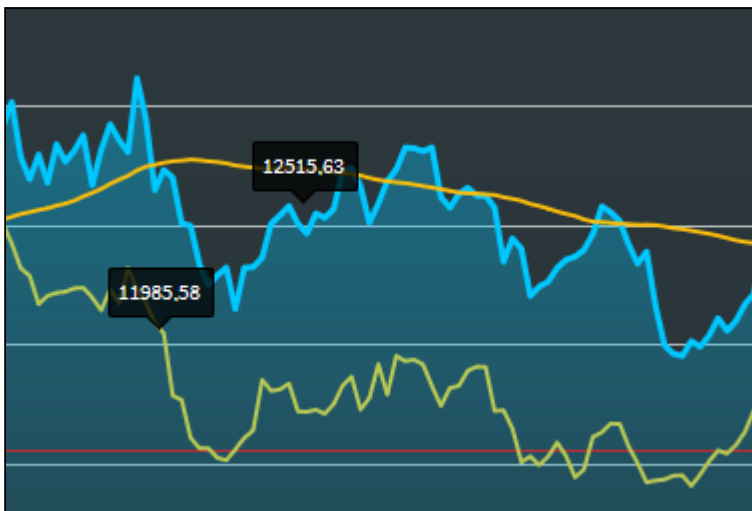
To learn how to show or hide the labels, see [Show or hide annotations](#).

For more information about working drawing elements, see [Edit drawing elements](#) and [Delete drawing elements](#).

Show or hide annotations



Select this button to hide **all drawing elements and labels** in the Chart Analysis widget or to show currently hidden ones again.



The button indicates if the annotation information and/or drawing elements are hidden or not: Button in case of hidden elements:

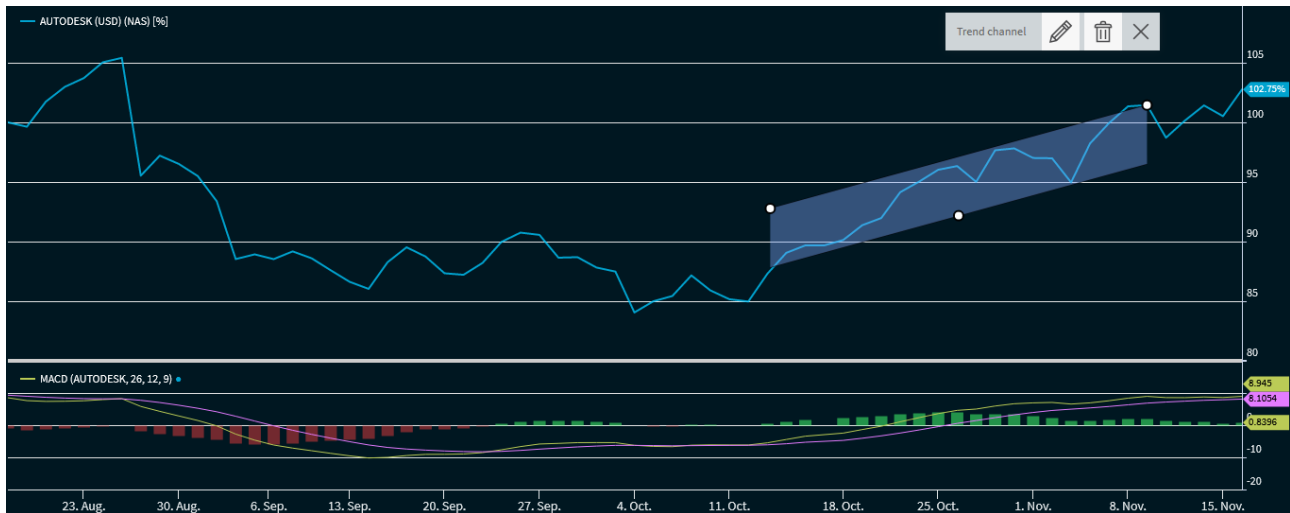


Magnetic tools



To draw in the magnetic drawing elements, select the "Magnetic drawing tools" button.

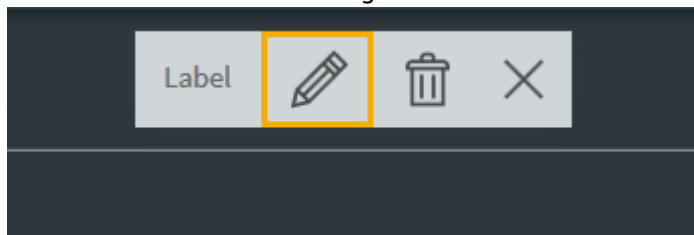
If this function is enabled, you can "magnetically" connect the drawing elements with adjacent chart lines when drawing or moving them.



Edit drawing elements

You can edit displayed drawing elements and labels at any time. To do this, follow these steps:

1. Select the drawing element or label in the chart.
2. Click the "Edit" icon in the widget menu.



3. Make the required changes in the dialogue box that appears



The dialog box is titled 'Label' and has a close button (X) in the top right corner. It contains the following sections and fields:

- Text**: A text input field containing '54.98'.
- Color**: A text input field containing 'contrast'.
- Font size**: A text input field containing '11px'.
- Style**: A section header.
- Background color**: A text input field containing 'rgba(0, 0, 0, 0.75)'.
- Label options**: A section header.
- Save**: A button in the bottom right corner.

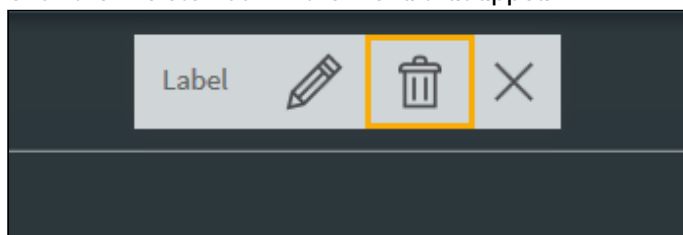
Depending on the element, a wide variety of settings is available, such as for colours, text or font size, allowing you optimally configure your drawings.

4. Click the "Save" button to save the changes.
The display is changed accordingly.

Delete drawing elements

You can delete displayed drawing elements and labels at any time. To do this, follow these steps:

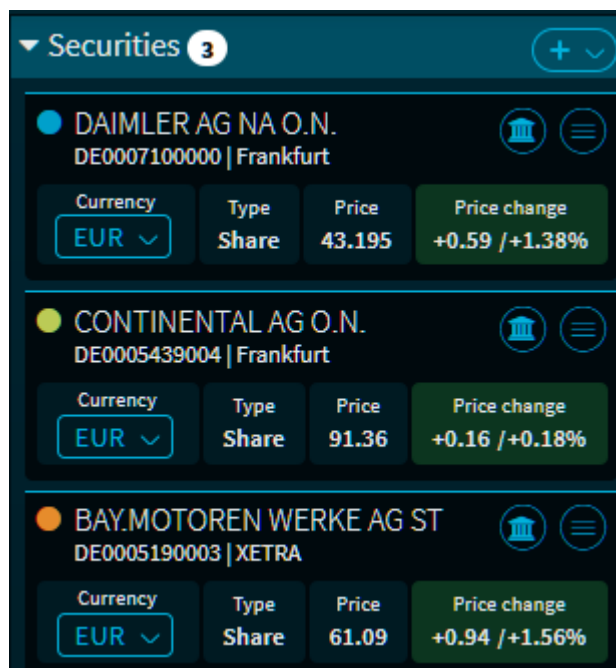
1. Select the drawing element or label in the chart.
2. Click the "Delete" icon in the menu that appear.



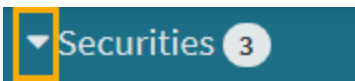


The element is removed from the chart window.

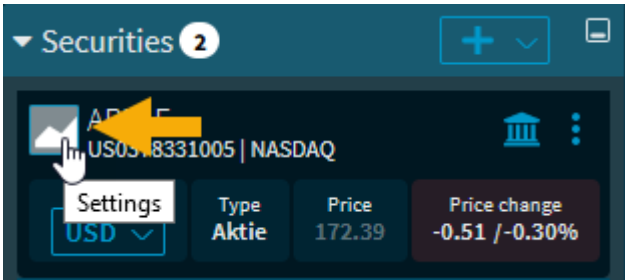
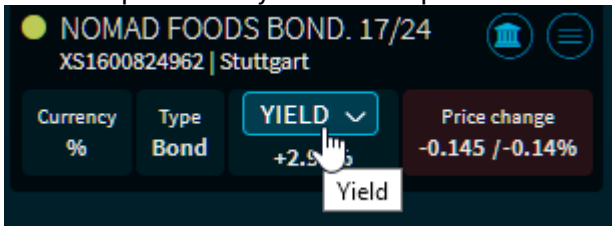


5.9.8 Show and manage securities



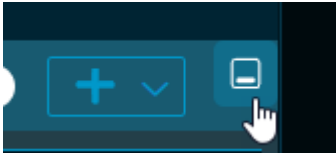
With the securities selection window on the right side of the "Chart Analysis" widget, you can display and manage further instruments to compare against (in addition to the securities selected as standard securities in the widget above). You can also see the most important price and master data for the securities currently displayed here.

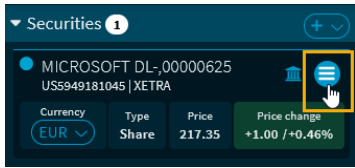
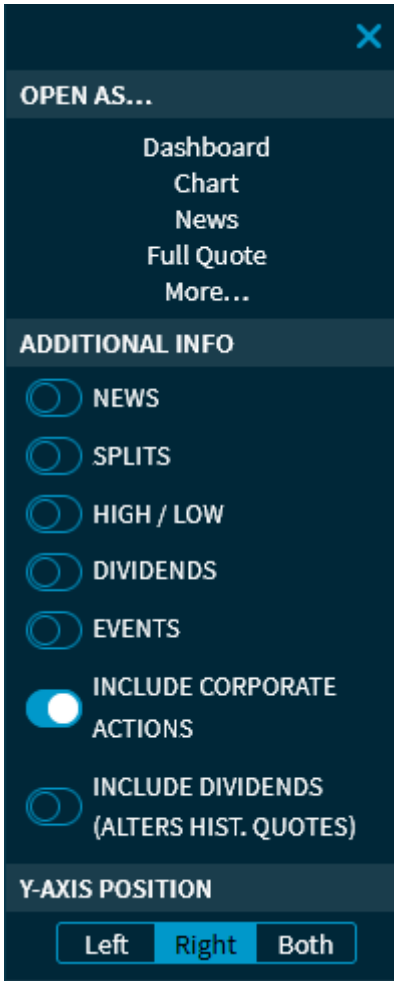


The following functions are available here:

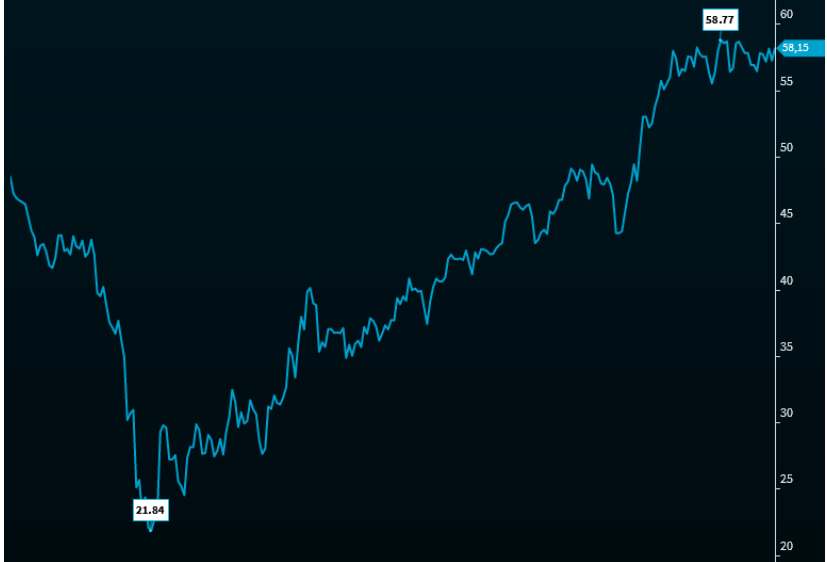
Element	Description
 Extend or collapse securities selection window	Click the title of the securities selection window to extend or collapse the window.
 Number of currently displayed securities	In the title bar, you see the number of securities currently displayed (even if the securities selection window is closed).
 "Add security" icon	Click this icon on the far right of the title bar in the securities selection window to add a security via the appearing Search .



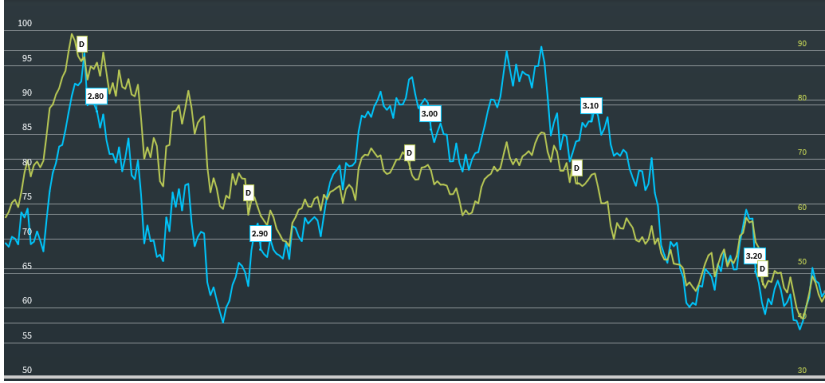
Element	Description
Chart type and colour selection	 <p>Click the "Settings" icon to the left of the security name to choose a different colour or chart type for the price time series of this security in the chart from the drop-down list that appears.</p> <p>For more information, see Show and manage securities.</p>
Select currency	<p>Select the corresponding currency for the instrument from the drop-down list on the left.</p> <p>You can also select a different currency for indices if corresponding reference currencies are specified.</p>
Security information	<p>The securities selection window offers the following details for each security in the chart:</p> <ul style="list-style-type: none"> • Name • ISIN, WKN, symbol, valor • Trading venue • Currency • Security type • Price <p>For suitable security types (for example bonds), you can choose between "price" and "yield" for this price indication:</p>  <ul style="list-style-type: none"> • Absolute and relative price change compared to previous day's closing <p>These details are also highlighted in green if the sign is positive or in red if the sign is negative, as is usual with many other widgets.</p> <div>  You can define the order of the ISIN, WKN, symbol and valor in the user settings for each tenant. </div>
 Select trading venue	<p>Click this icon of a security in the securities selection window to select another trading venue from the menu that appears.</p>

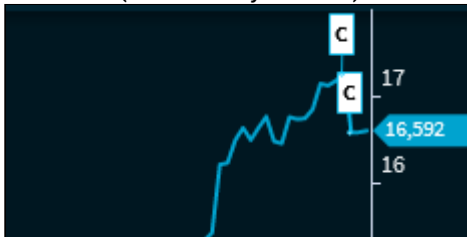
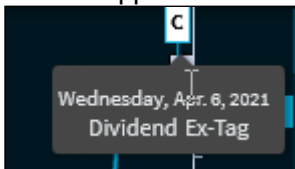
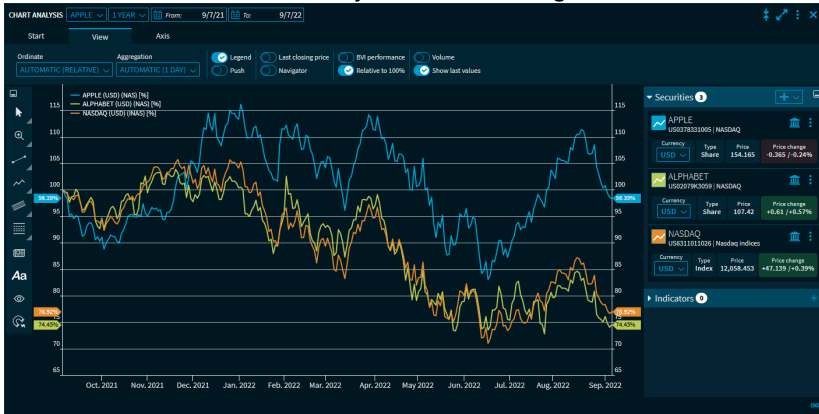
Element	Description
Quote type selection	<p>If you have selected an intraday period, you can also select the quote type for the chart display for suitable securities.</p>  <p>The following options are available:</p> <ul style="list-style-type: none"> • Price (default setting) • Bid/Ask • Bid • Ask 
 <p>Hide/show security selection window</p>	<p>You can hide and show them by using the top button of the bar on the right-hand side.</p>

Element	Description
 <p>Menu icon of security</p>	 <p>Use the menu icon of a security in the security selection window to open a menu that provides you the following functions and additional information:</p> <ul style="list-style-type: none"> • Open as This menu item allows you to quickly open the security as a dashboard or in other widgets as you are used to in other menus.

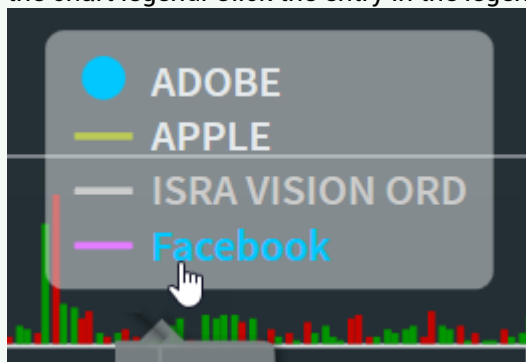
Element	Description
	<ul style="list-style-type: none"> Toggle news Move the "News" switch to the right to show news for this security in the chart.  Toggle splits Move the "Splits" switch to the right to show splits for this security in the chart. 

Element	Description
	<ul style="list-style-type: none"> • Toggle highs/lows Drag the "High/Low" toggle to the right to show high and low rates on the chart. 

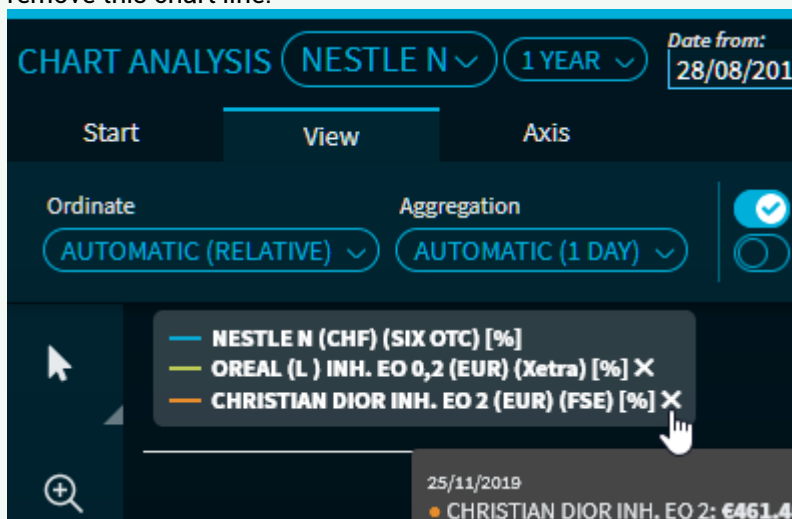
Element	Description
	<ul style="list-style-type: none"> Toggle dividends Move the "Dividends" switch to the right to show dividends for this security in the chart.  <p>Dividends appear as small symbols at the corresponding time in the chart. If you point to a dividend symbol, a tooltip appears showing the amount of the dividend:</p>  <p>If you click one of the dividend symbols ("D"), all values of the dividends currently available in the chart of this security will be displayed:</p> 

Element	Description
	<ul style="list-style-type: none"> Toggle dates Drag the "Dates" slider to the right to show dates ("Events") of this security (or this company) from the "Exchange Calendar" widget in the chart (disabled by default).  <p>Displayed events appear as small symbols ("C") at the corresponding time. If you point to an event with the mouse, an info window appears with the details of the event:</p>  Include corporate actions Move this switch to the right to show to include any corporate actions in the chart (enabled by default). Include dividends (alters hist. quotes) Move this slider to the right to include the dividends paid in the calculated chart (enabled by default). y-axis position Use this command to set the y-axis: "Left", "Right" or "Both".  <p>In the picture above, the values of the y-axis can be read on the left as well as on the right side for the three time series (setting "Both" for y-axis position).</p> Delete Select this command to remove this (comparison) instrument from the chart. The default security selected at the top of the widget's security selection drop-down list cannot be removed here.

- ✓ You can temporarily hide the time series of the currently displayed securities in the chart without removing them from the widget. To do this, click the name of the security that you want to hide in the chart legend. Click the entry in the legend again to display the time series.



You can also quickly remove displayed benchmarks or indicators from the legend: Point to the legend entry you want to remove. This displays a remove icon behind it, which you can use to remove this chart line.



See also:

- [Drag securities from the "Chart Analysis" widget to other widgets](#)

Drag securities from the "Chart Analysis" widget to other widgets

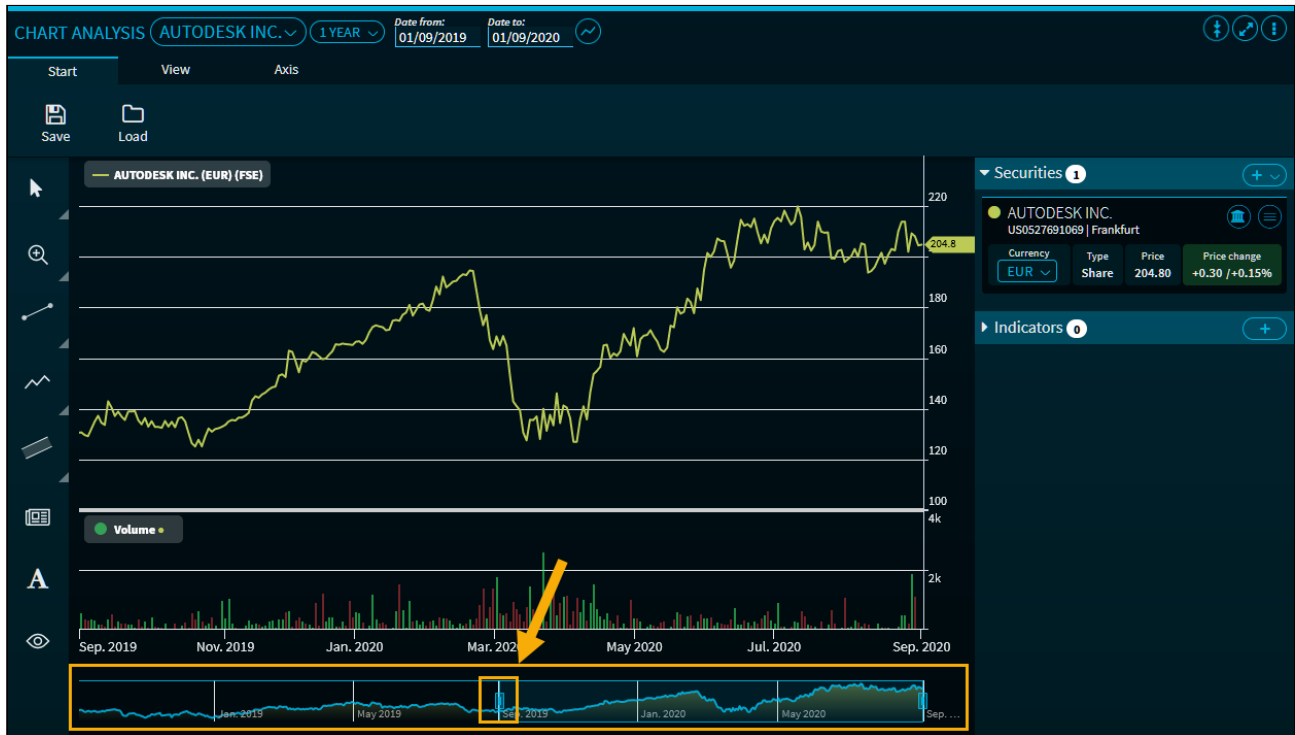
You can drag and drop the securities from the "Chart Analysis" widget into other widgets in the same way as the results list of the quick search.

To do this, simply drag the relevant security from the list of securities on the right-hand side directly into the desired target widget by holding down the left mouse button.

5.9.9 Zoom function in the "Chart Analysis" widget

At the bottom of the chart window of the "Chart Analysis" widget, you will find a zoom bar. Zooming into a selected period is done by moving the mouse (or swiping on mobile devices). You can also zoom several times.

Within the set period (1 hour to max.), the selected zoom period is then displayed in the date fields at the top ("Date from" and "Date to").



With this button, you can choose between different zoom types:

- Zoom X (standard zoom, horizontal zoom)
- Zoom Y (vertical zoom)
- Zoom XY (zoom in both directions)

Use the "Reset zoom" button, which appears in the upper right corner of the chart, to reset the set time period.

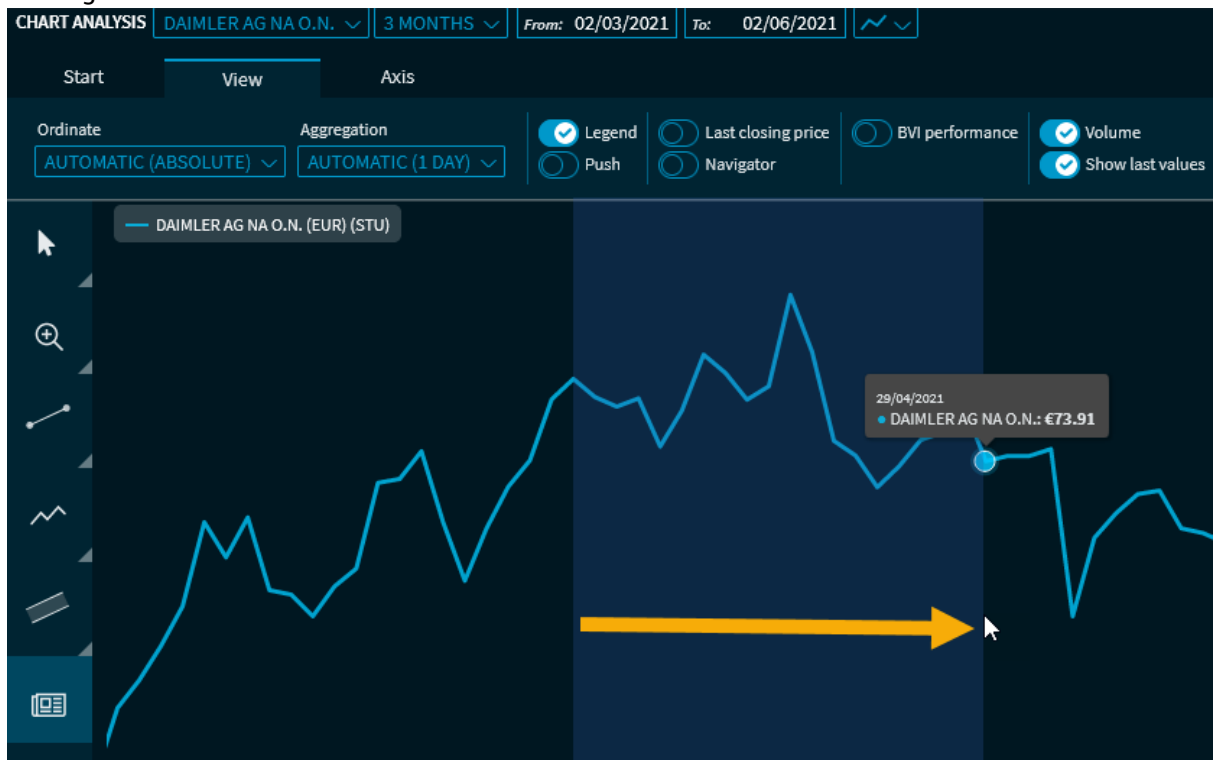
5.9.10 Start news search from the chart

For the main instrument in the "Chart Analysis" widget, you can directly start a news search. To do this, follow these steps:

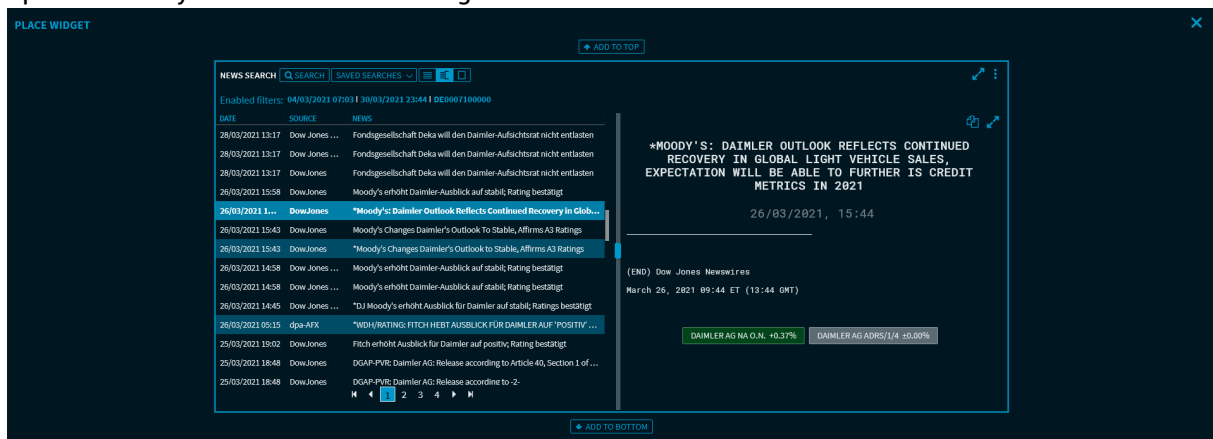
1. Select the "News search" button on the left side of the widget.



- Then click in the chart at the relevant start date and drag the interval to the relevant end date while holding down the mouse button.



- If you release the mouse button, a "News Search" widget for the security for this period will be opened directly. Decide where the widget should be inserted in the dashboard.



This adds the new "News Search" widget.

5.9.11 Settings in the "Chart analysis" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.

"General" area

SETTINGS

General

Periods

GENERAL SETTINGS

Show quote information:

☒ IN LEGEND
 ☐ IN TOOLTIP

Highlight chart-lines:

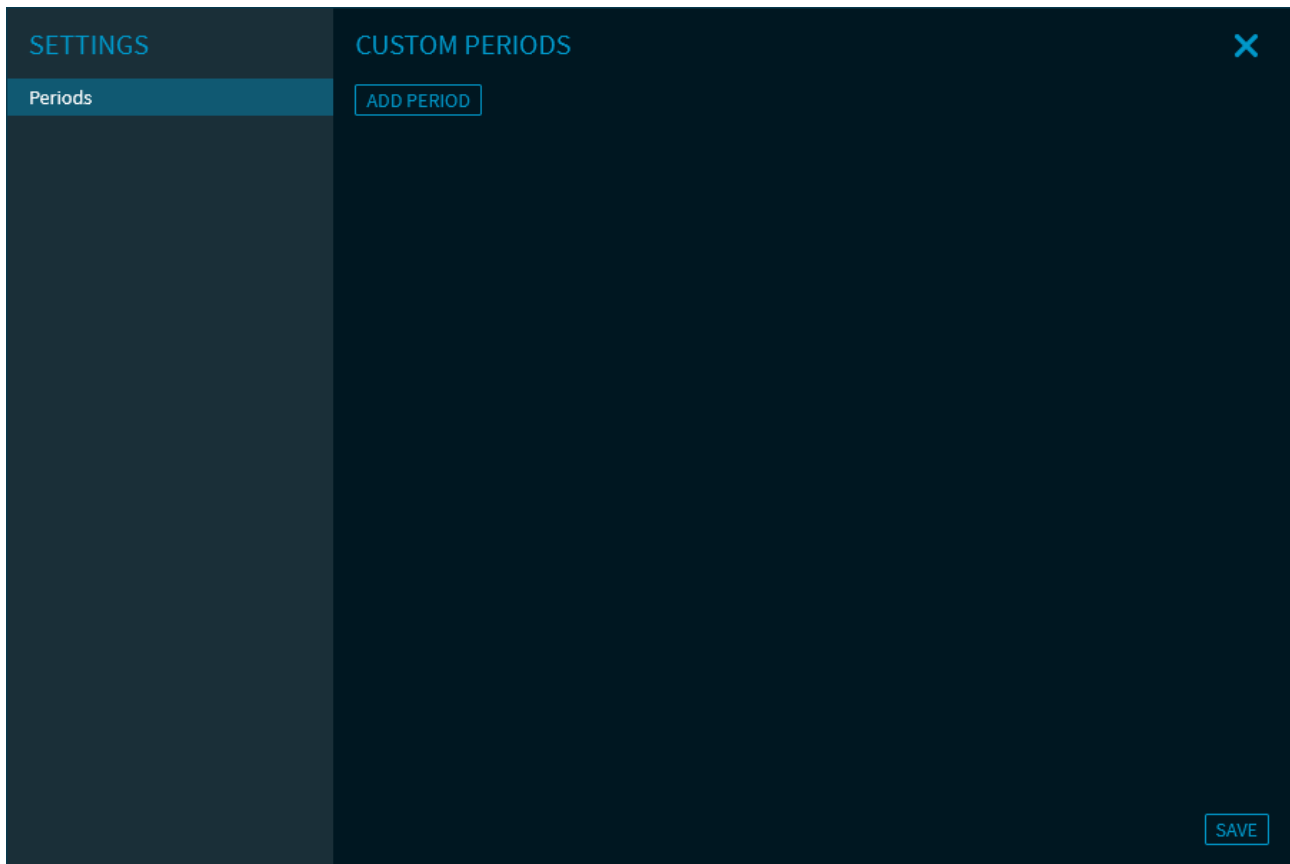
☐ ENABLED

SAVE

In this area, you can find the following settings:

Field	Description
Show prices	In this area, you can select whether you want to show the price display in the legend (default setting) or as a tooltip hovering over the chart lines. Select the relevant checkboxes.
Highlight chart line	Select this checkbox to switch on the "highlighting" of the chart lines (when pointing to the lines in the chart or in the legend). This setting is disabled by default.

"Periods" area



In this section of the settings, you can define individual, custom display periods for your charts. To do this, follow these steps:

1. Click the "Add period" button.
2. Enter the relevant name for the first custom period in the "Name" input field.
3. Then click the "Settings" button for this period.
4. Configure the new time period. The table below contains descriptions of the individual setting options.

SETTINGS

Periods

CUSTOM PERIODS

Name

1M Now

Automatic naming

☒

Select period

24 Jul 2021 - 24 Aug 2021

SELECT START DATE

☐ Date from

24/07/2021

☐ Relative

START OF THE MONTH

☒ Period starting from the end date

1 MONTH(S)

SELECT END DATE

☐ Date to

24/08/2021

☒ Now

☐ Relative start from

END OF THE CURRENT MONTH

Go back in the past

0 MONTH(S)

BACK

SAVE

- Then click the "Save" button. (Use the "Back" button to exit the settings for the period without saving any changes you may have made).
- If you want to add further columns, then select the "Add period" button in the "Periods" area and proceed in the same way.
You can delete your own time periods by clicking the respective "Delete" buttons.

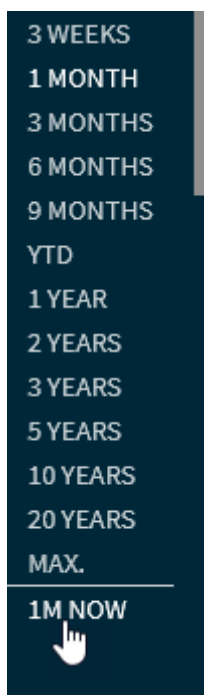
The settings of the custom time periods in detail:

General	
Field	Description
Name	<p>Enter the relevant name for the period here.</p> <p>You can freely define the name of a period - or leave it blank for the time being and use the automatic name generation. The name of the column is then automatically generated by the system according to the time periods you set. The name of the period can be changed later.</p>
Automatic naming	<p>Select this setting to automatically generate the name of the period. The name is generate depending on the time periods and start and end times set below.</p>

Selected period	<p>Here, you can see the always updated period resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year
Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>

Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>
Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div> <p>Example</p> <p>In August 2021, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2021".</p> </div>

The defined and saved time periods are then available for selection in the widget in the drop-down list of time periods. The user-defined periods are added at the bottom of the drop-down list.

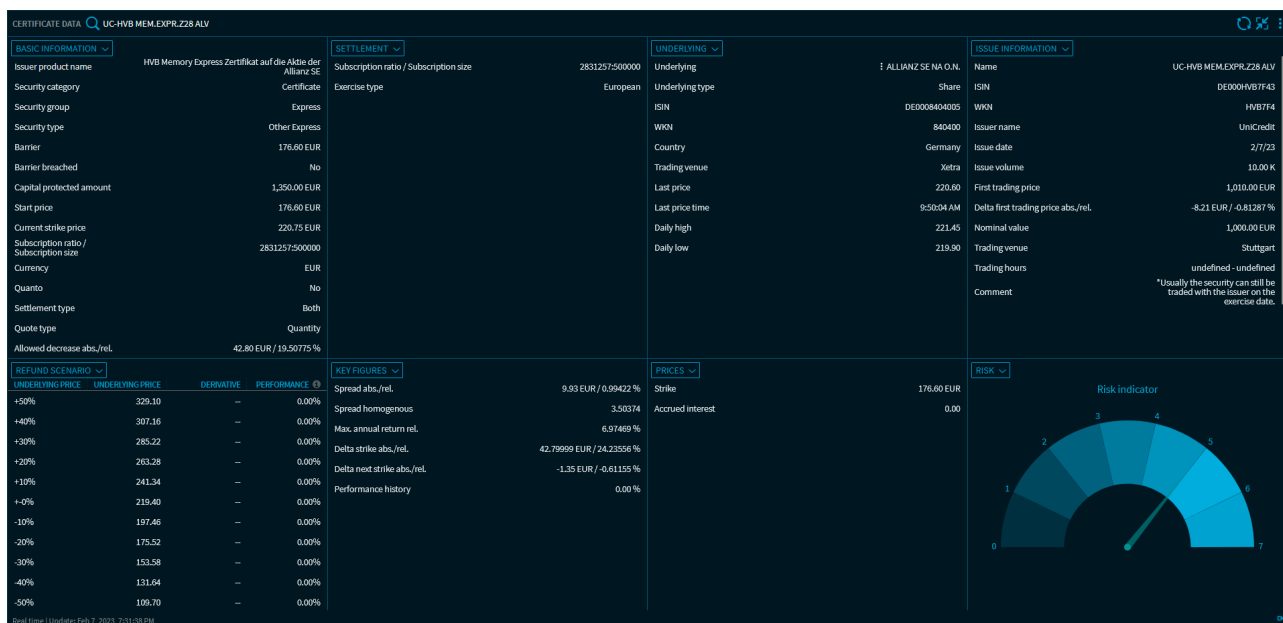


For more information about the widget settings, see [Commands in the widget menu](#).


5.10 Certificate Data

The "Certificate Data" widget shows you all important information about certificates. Select a certificate from the quick search in the upper part of the widget. The drop-down list allows you to select from the following sections containing securities data described below. Depending on the currently selected certificate, not all ranges are always available.

If the widget "Certificate Data" is maximised and displayed in the dashboard, then several areas are displayed next to each other:



You can select and swap each area. This arrangement is saved and applied when you copy the widget, for example.

 Depending on the security type of the certificate selected, you find the type specific characteristic in the corresponding categories.

See also:

- "Settlement" area in the "Certificate Data" widget
- "Investment idea" area in the "Certificate Data" widget
- "Underlying" area in the "Certificate Data" widget
- "Issue dates" area in the "Certificate Data" widget
- "Refund scenario" area in the "Certificate Data" widget
- "Key figures" area in the "Certificate Data" widget
- "Cost" area in the "Certificate Data" widget
- "Prices" area in the "Certificate Data" widget
- "Risk" area in the "Certificate Data" widget
- "Basic information" area in the "Certificate Data" widget
- "Other basic information" area in the "Certificate Data" widget
- "Dates" area in the "Certificate Data" widget

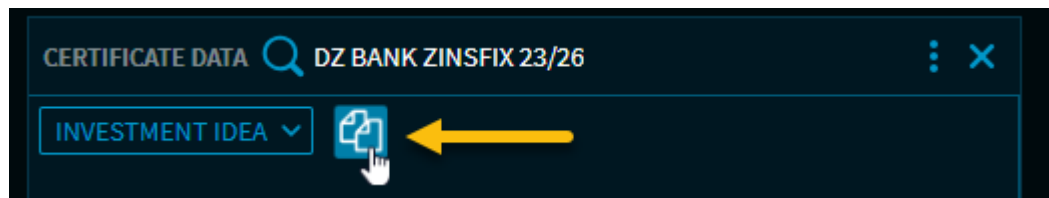
5.10.1 "Settlement" area in the "Certificate Data" widget


The following data is shown when you select the "Settlement" category:

Characteristic	Description
Subscription ratio/ Subscription size	The subscription ratio of the derivative, for example "0.1" or "0.01".
Exercise type	The subscription ratio of the derivative, for example "American" or "Bermuda".
Nominal value	[Only for bonds] For bonds, the "Settlement category" shows the nominal value.

5.10.2 "Investment idea" area in the "Certificate Data" widget

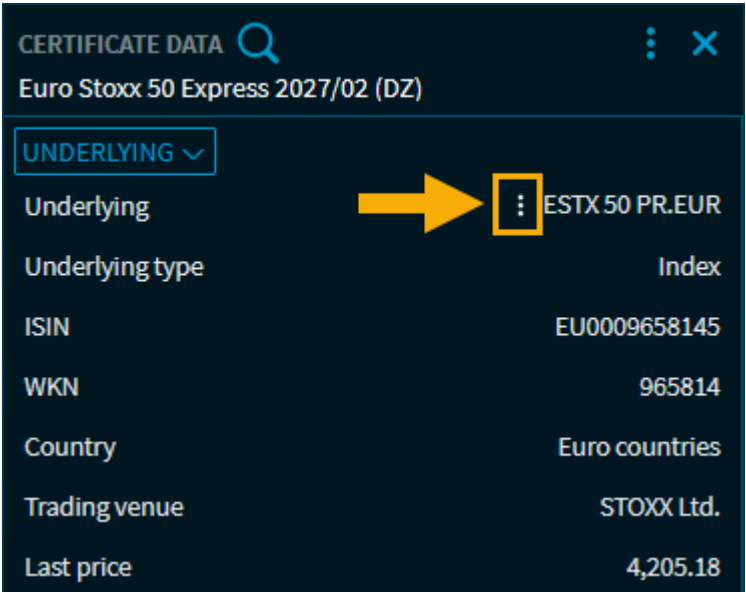
From the drop-down list, select the "Investment strategy" area to see an explanation of the certificate's investment strategy:



 You can use the "Copy to clipboard" icon to copy the text in the "Investment strategy" view and paste it into external applications.

5.10.3 "Underlying" area in the "Certificate Data" widget

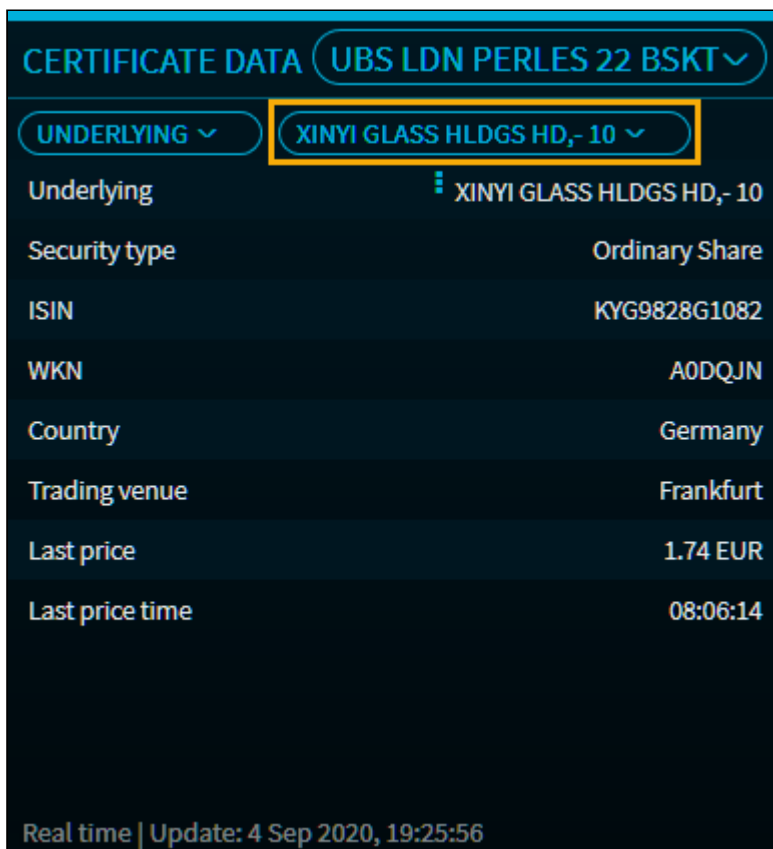
The following is shown when you select the "Underlying" category:

Characteristic	Description
Underlying	<p>The underlying of the derivative.</p> <p>With the menu icon in front of the underlying, you open a context menu allowing you to, for example, open the underlying value as Full Quote or Chart:</p> 
Underlying type	The security type of the underlying, for example "Index" or "Preferred share".
ISIN	The ISIN of the underlying.
WKN	The German security identification number of the underlying.
Country	The country of the underlying.
Trading venue	The trading venue of the underlying.
Price	The most current price of the underlying.
Last price time	The time of the most recent price of the underlying.
Daily high	<p>The trading daily high of the underlying.</p> <p>Point to the price to display the price time of the day's high.</p>
Daily low	<p>The trading daily low of the underlying.</p> <p>Point to the price to display the price time of the daily low.</p>

Characteristic	Description
Performance index	If the underlying is an index, you will find the information here whether it is a performance or a price index.

Certificates with multiple underlyings

If a certificate with several underlyings is open in the widget, an additional drop-down list for selecting the relevant underlying value appears in the upper part of the widget:



CERTIFICATE DATA UBS LDN PERLES 22 BSKT

UNDERLYING XINYI GLASS HLDGS HD,- 10

Underlying XINYI GLASS HLDGS HD,- 10

Security type Ordinary Share

ISIN KYG9828G1082

WKN A0DQJN

Country Germany

Trading venue Frankfurt

Last price 1.74 EUR

Last price time 08:06:14

Real time | Update: 4 Sep 2020, 19:25:56

5.10.4 "Issue dates" area in the "Certificate Data" widget

The following details are shown in the widget when you select the "Issuer data" category:

Characteristic	Description
Name	The name of the certificate.
ISIN	The ISIN of the certificate.
Issuer	The issuer of the certificate.
Issue date	The issue date of the certificate.

Characteristic	Description
Issue volume	The issue volume of the certificate.
First trading price	The first trading price of the certificate after it is issued.
Nominal amount	The nominal amount value of the issue.
Trading venue	The standard trading venue of the certificate.
Trading times	The trading hours of the certificate (at the trading venue)
Comment	Here, you can see any comments for the issue, for example, whether the security can still be traded with the issuer on the exercise date, or similar.


5.10.5 "Refund scenario" area in the "Certificate Data" widget

Select the "Refund Scenario" area in the drop-down list, then the following data, for example, is displayed for the correspondingly equipped certificates:

REFUND SCENARIO ▾			
UNDERLYING PRICE	UNDERLYING PRICE	DERIVATIVE	PERFORMANCE ⓘ
+10%	16,750.25	99.97	17.82%
+7,5%	16,369.56	96.17	13.34%
+5%	15,988.88	92.36	8.85%
+2,5%	15,608.19	88.55	4.36%
+1%	15,379.78	86.27	1.67%
+0%	15,227.50	84.75	-0.12%
-1%	15,075.23	83.22	-1.92%
-2,5%	14,846.81	80.94	-4.61%
-5%	14,466.13	77.13	-9.09%
-7,5%	14,085.44	73.33	-13.58%
-10%	13,704.75	69.52	-18.07%

Real time | Update: 22 Mar 2023, 13:03:18

Column	Description
Underlying price [%]	The assumed change in percent of the underlying price on the maturity date.
Price of underlying	The assumed absolute change in terms of the underlying price on the maturity date.
Derivative	The price of the derivative on the maturity date in the corresponding scenario.
Performance	The performance of the derivative on the maturity date.

 For the assumed changes of the underlying, the exemplary price changes allow you to derive the redemption price of the certificate on the maturity date compared to how a direct investment in the underlying would perform (not taking the costs into account). The changes of the underlying and certificate are based on the current price of the underlying.

5.10.6 "Key figures" area in the "Certificate Data" widget

Depending on the certificate type, the following is shown when you select the "Key figures" category:

Characteristic	Description
Spread abs./rel.	The absolute and relative spread of the certificate.
Spread homogenised	The homogenised spread of the certificate.
Leverage	The leverage of the certificate.
Delta stop-loss abs./rel.	The absolute and relative distance to the stop-loss barrier.
Delta strike price abs./rel.	The absolute and relative distance to the strike price.
Delta first trading price abs./rel.	The absolute and relative distance to the fixing price.
Max. annual yield rel.	The maximum annual return in percent.
Sideways return abs./rel.	The absolute and relative sideways return.
Performance since launch	The relative development of the certificate since it was issued.
Intrinsic value	The internal value of the certificate.
Premium abs./rel.	The absolute and the percentage premium.

Characteristic	Description
Premium annual rel.	The annual percentage premium.

5.10.7 "Cost" area in the "Certificate Data" widget

Select the "Costs" area from the drop-down list to display the following cost information:

- With fair value
- With ongoing charges
- Ongoing charges
- Ongoing charges currency
- Ongoing charges date
- Entry costs
- Entry costs currency
- Entry costs date
- Exit costs
- Exit costs currency
- Exit costs date
- Ongoing incremental costs
- Ongoing incremental currency date
- Ongoing incremental costs date

Example

CERTIFICATE DATA BNP PAR.ARB. O.E. ETC	
COST	
Has fair value	✓
Has ongoing costs	✓
Ongoing costs	0.488 USD
Ongoing costs currency	USD
Ongoing costs date	16/07/2020
Entry costs	0.22977 USD
Entry costs currency	USD
Entry costs date	16/07/2020
Exit costs	0.21423 USD
Exit costs currency	USD
Exit costs date	16/07/2020
Ongoing incremental costs	0.28528 USD
Ongoing incremental costs currency	USD
Ongoing incremental costs date	16/07/2020

5.10.8 "Prices" area in the "Certificate Data" widget

The following is shown when you select the "Prices" category:

Characteristic	Description
Strike price	The strike or exercise price of the derivative.

5.10.9 "Risk" area in the "Certificate Data" widget

If you select the "Risk" area from the drop-down list, then the SRI risk class of the certificate is shown as risk indicator in a chart.

5.10.10 "Basic information" area in the "Certificate Data" widget

BASIC INFORMATION ▾	
Issuer product name	Mini Long DAX / X-DAX emittiert von Morgan Stanley & Co. Int. plc
Security category	Leverage Products
Security group	Knock-out
Security type	X-Mini-Future Open End
Start price	10,821.1289 Pkt.
Subscription ratio / Subscription size	1:100
Currency	EUR
Quanto	No
Settlement type	Cash
Quote type	Quantity
Real time Update: 22 Mar 2023, 13:50:32	

You find the following data when you select the "Basic information" category:

Characteristic	Description
Issuer product name	The exact name of the certificate as specified by the issuer.
Security category	The security category, for example bond, certificate, knock-out...
Security group	The security group within the category, for example express, index certificate and so on.
Security type	The security type, for example, Index Factor, Bond of German Issuer and so on.
Barrier	The level of the barrier from the characteristics of the certificate.
Barrier breached	Is the barrier hit?
Subscription ratio / Subscription size	The subscription ratio of the certificate.
Maximum redemption price	The maximum redemption price of the certificate.

Characteristic	Description
Strike price	The current price of the underlying.
Currency	The currency of the derivative, "Percent" for bonds.
Quanto	Shows if the derivative is a quanto derivative.
Settlement type	The Settlement type of the certificate, for example, "Cash".
Exercise type	The exercise type of the certificate, for example "European", "American" or "Bermuda".
Quote type	The quotation of the certificate, for example "Unit".
Interest rate	The interest rate of the certificate.

5.10.11 "Other basic information" area in the "Certificate Data" widget

The following is shown when you select the "Other basic information" category:

Characteristic	Description
Stop Loss	The specified stop-loss barrier of a certificate.
Barrier touched	Information whether a certificate touched a specified barrier or not.
Knock-out barrier hit	Information whether a knock-out was knocked out or not.
Type	The security type of the certificate, for example "Rise".

5.10.12 "Dates" area in the "Certificate Data" widget

Depending on the certificate, the following is shown when you select the "Dates" category:

- Issue date
- First trading day
- Last trading day
- Maturity date
- Days until maturity
- Observation start
- Within barrier observation (Yes/No)
- Settlement date
- Pay date
- No. of observation dates



- Observation date/Deadlines
- Observation date/interest
- Repayment date/Redemption

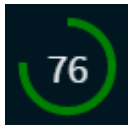
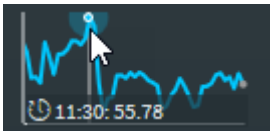
5.11 Full Quote

The "Full Quote" widget of a security provides all basic information about an instrument. The widget shows the most important market and master data optimised for a security type.



You can find the following standard elements on the "Full Quote" widget:

Element	Description
Select security  OREAL (L') INH. EO 0,2	The selection in the upper left corner of the "Full Quote" widget shows the name of the selected instrument. Open the menu to select a security. In addition to an input field for searching securities, the list below shows you the previously selected securities for a quick reselection.
Select trading venue FRANKFURT (EUR) ▾	The drop-down list lets you select the most important trading venues for this security, sorted in descending order by market volume of the stock exchange for this security (turnover multiplied by price, converted to euro). Open the menu to select an entry from the list. <div>  Double entries in this list are not errors but indicate different quotes of the instruments in various instruments. </div>

Element	Description
Security information	<p>Below the security selection, you find the following information about the currently selected security:</p> <ul style="list-style-type: none"> • Security name • ISIN • WKN • Symbol • Security type • Subcategories of security type • Asset class (for example, the "Automotive" sector for shares or "Equity Germany" for funds)
Price	The last traded price of the security with the currency at the trading venue selected.
Price change	The absolute and percentage change to the close price of the previous day. The direction and colour of the arrow next to the price illustrate the current price development.
Quantity	Number of units traded at the last price.
ESG score 	<p>The ESG score of the security.</p> <p>The ESG score is only displayed if a score is provided for this security and a corresponding activation exists.</p>
Chart	<p>On the right side of the "Full Quote" widget, you see a small intraday chart of the currently selected security. Point to a chart line to view the price details.</p> 
Footer	<p>In the footer of the widget, you find the following information:</p> <ul style="list-style-type: none"> • Type of data supply (real-time or delayed?) • Last update time of the widget • Last price update • Last key figure calculation • For shares and funds, the addition of "Performance ratios incl. dividends/distributions" was included.



Pointing to the values in a "Full Quote" widget display additional information such as the times for prices or additional decimal places in a tooltip.

Spread	1.34 / 1.11%	Type
Open / Close	120.632 / 119.	1.11283665384967 convention (coupon)
High / Low	120.659 / 120.632	
Cum. volume	0.00	



The descriptions of the data fields and key figures on the "Single Price" widget can be found in the following subchapters for the various security types.

See also:

- [Full Quote - share](#)
- [Full Quote - bond](#)
- [Full Quote - currency](#)
- [Full Quote - ETC/ETN](#)
- [Full Quote ETF](#)
- [Full Quote - fund](#)
- [Full Quote - future](#)
- [Full Quote - index](#)
- [Full Quote - certificate](#)
- [Settings in the "Full Quote" widget](#)
- [Full Quote - warrant/option](#)

5.11.1 Full Quote - share

Below the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for shares also shows the following data:

Prices

Field	Description
Bid/ask price	<p>The current bid and ask price at the trading venue selected.</p> <p>The arrow next to a particular price flashes to indicate updated prices. The direction and colour of the arrow next to the price illustrate the current price development.</p> <p>For current bid/ask prices of "0.000", you can view the last bid/ask price greater than zero including time in a tooltip.</p> <p>If no current bid or ask prices or bid or ask quantities are available, then additional rows are displayed in the widget showing the date and time stamp of the last price or quantity.</p>
Bid/ask quantity	The quantity for the bid and ask price indicated above.
Bid/ask time	The time for the bid and ask prices indicated above.

Field	Description
Spread	The absolute and relative spread.
Open/ Close	Current open price and the last close price (during trading hours, the price of the previous day's close).
High/Low	The daily highest and lowest price at the trading venue selected.
Cum. volume	The volume of the share at the trading venue selected.
VWAP	The VWAP (Volume Weighted Average Price) of the share.

Dividends

Field	Description
Div. yield (2023e)	The estimate of the dividend yield for the next year in percent (year in brackets, here 2022)
Dividend (2023e)	The dividend estimate for next year (year in brackets, here 2022).
Div. yield (2022)	The percentage dividend yield of the year indicated.
Dividend (dd.mm.yyyy)	The amount of the last dividend and the corresponding date. Dividends are displayed in their native currency.
Payment frequency	The frequency in which the dividends are distributed, that is, "Annually" or "Quarterly".
1Y growth	The annualised change of the dividend in percent.
HV date	The date of the next Annual General Meeting.
Pay. date	The date of the dividend distribution.

Stats

Field	Description
Currency	The currency of the share on the trading venue.

Field	Description
Auction	The auction price.
90D vola.	The 90 days volatility of the share.
PE ratio (year)	The price-earnings ratio of the share in the given year.
Earnings per share (year)	The earnings per share (EPS) is the company's profit divided by the number of shares in the given year.
Market cap	The current market capitalisation of the share.
Market cap. (year)	The market capitalisation of the share in the given year.
1Y/5Y benchmark perf.	The percentage performance of the comparison index for 1 year and for 5 years.

Further statistics

Field	Description
YTD perf.	The absolute and relative performance in the current calendar year.
1Y perf.	The absolute and relative 1-year performance.
3Y perf.	The absolute and relative 3-year performance.
5Y perf.	The absolute and relative 5-year performance.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price at the trading venue selected.

The performance indicators for shares are calculated by default including dividends in the "Full Quote" widget.

5.11.2 Full Quote - bond

Below the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for bonds also shows the following data:

Prices

Field	Description
Bid/ask price	The current bid and ask price at the trading venue selected. The arrow next to a particular price flashes to indicate updated prices. The direction and colour of the arrow next to the price illustrate the current price development.
Bid/ask quantity	The quantity for the bid and ask price indicated above.
Bid/ask time	The time for the bid and ask prices indicated above.
Open/Close	The current open and close price of the bond.
High/Low	The daily highest and lowest price at the trading venue selected.
Cum. volume	The total volume of the bond at the trading venue selected on the current day.
Paid price supplement	The rate supplement to the paid price.
Close previous day	The previous day's date.
Total turnover of the previous day	The total volume of the bond at the trading venue selected on the previous day.

Interest rate

Field	Description
Interest rate	The interest rate of the bond.
Maturity date	The date when the bond matures.
Coupon frequency	The coupon frequency of the bond.
Type	The interest rate type, for example, "fixed" or "variable".
Calculation method	The yield calculation method used for the bond, for example: <ul style="list-style-type: none"> • ISMA (International Securities Market Association) • Moosmüller & Knauf • US SIA (Securities Industry Association) • US Treasury

Indicators

Field	Description
Currency	The accrued interest days of the bond.
Yield	The yield of the bond.
ISMA	The ISMA yield of the bond.
Accrued interest	The current interest rates of the bond.
Duration	<p>The duration of the bond.</p> <p>The duration is the weighted average of all future payment streams resulting from an investment. Furthermore, they express the average commitment period of the capital invested and is influenced by the nominal interest rate and the market interest rate.</p>
Convexity	The convexity of the bond.

Further statistics

Field	Description
Issue date	The issue date of the bond.
Issue volume	The issue volume of the bond.
90D vola.	The 90 days volatility of the bond.
Min. traded vol.	The minimum traded volume of the bond.
Min. amount traded vol.	The value of the "Minimum amount traded volume" field for the bond.
BPV	The basis point value of the bond. The basis point value is the change in bond price for one basis point change in the bond yield.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price at the trading venue selected.

5.11.3 Full Quote - currency

In addition to the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for a currency also shows the following data:

Prices

Field	Description
Bid/ask price	The current bid and ask price at the trading venue selected. The arrow next to a particular price flashes to indicate updated prices. The direction and colour of the arrow next to the price illustrate the current price development.
Open/Close	Current open price and the last close price (during trading hours, the price of the previous day's close).
High/Low	The highest and lowest price of the day.
Distance all-time high	The distance in percent to the all-time high of the exchange rate.

Characteristics

Field	Description
FX reverse	The reversed foreign exchange rate. <div> Example For example, if the "USD/EUR" exchange rate is currently 0.85306, then this results in a reverse rate of 1.17225 for "EUR/USD". </div>

Stats

Field	Description
1W perf.	The absolute and relative 1 week performance of the exchange rate.
1M perf.	The absolute and relative 1 month performance of the exchange rate.
6M perf.	The absolute and relative 6 month performance of the exchange rate.

Field	Description
YTD perf.	The absolute and relative of the exchange rate.
1Y perf.	The absolute and relative 1 year performance of the exchange rate.
3Y perf.	The absolute and relative 3 year performance of the exchange rate.

Further statistics

Field	Description
1Y vola.	The 1 year volatility of the exchange rate.
3Y vola.	The 3 year volatility of the exchange rate.
5Y vola.	The 5 year volatility of the exchange rate.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price at the trading venue selected.

5.11.4 Full Quote - ETC/ETN

Below the elements explained in the general [Full Quote](#) section, the Full Quote widget for ETCs (Exchange Traded Commodities) and ETNs (Exchange Traded Notes), also shows the following data:

Prices

Field	Description
Bid/ask price	The current bid or ask price of the ETF.
Bid/ask quantity	The quantity for the bid and ask price indicated above.
Spread	The absolute and relative spread.
High/Low	The daily highest and lowest price at the trading venue selected.

Characteristics

Here you will see different data depending on the selected instrument.

Field	Description
Strategy	The group of the instrument, for example, "Classic".
Company	The issuer of the instrument.
Country	The home country of the issuer.
Type	The more precise security type, for example "equity index".
Commodity	The category of the instrument, for example, "Commodity/Energy".
Distribution	The distribution type of the instrument, for example "Accumulating".
Benchmark	The group of the instrument, for example, "SMI".

Indicators

Field	Description
Currency	The currency of the security.
1Y perf.	The absolute and relative 1 year performance of the instrument.
3Y perf.	The absolute and relative 3 year performance of the instrument.
5Y perf.	The absolute and relative 5 year performance of the instrument.
1Y vola.	The 1 year volatility of the instrument.

Further statistics

Field	Description
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.

Field	Description
All-time high/low	The highest and lowest price at the trading venue selected.

5.11.5 Full Quote ETF

In addition to the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for an ETFs also shows the following data:

Prices

Field	Description
Bid/ask price	The current bid or ask price of the ETF.
Bid/ask quantity	The quantity for the bid and ask price indicated above.
Bid/ask time	The time for the bid and ask prices indicated above.
Spread	The absolute and relative spread.
High/Low	The daily highest and lowest price at the trading venue selected.
Fund volume	The fund volume of the ETF.
Fund volume date	The date on which the fund volume of the ETF was determined.

Characteristics

Field	Description
Security category	The category of the instrument, for example, "ETF".
Company	The corresponding fund company of the ETF.
Company country	The country of the issuer.
Allocation	The type or composition of the ETFs.
Date/Payment	The date and payment amount of the distribution.

Field	Description
UCITS/AIF	<p>Shows if it is a UCITS (Undertakings for Collective Investment in Transferable Securities) or an AIF (Alternative Investment Fund)</p> <p>OGAW: The UCITS Directive defines the specific requirements for funds and their fund management companies. One of the key issues is the regulation of the eligible assets in which a fund company may invest.</p> <p>AIF: Funds which are not undertakings for collective investment in transferable securities (UCITS) within the meaning of the UCITS Directive: for example, real estate funds, hedge funds or private equity funds.</p>

Key figures

Field	Description
Issue date	The issue date of the ETF.
1Y perf.	The 1-year performance of the ETF.
3Y perf.	The 3-year performance of the ETF.
5Y perf.	The 5-year performance of the ETF.
1Y vola.	The 1-year volatility of the ETF.
Benchmark	The benchmark of the ETFs (if specified), for example DAX.

Further statistics


Field	Description
Ongoing charges	The percentage of ongoing charges of the ETF.
Total Expense Ratio	<p>The Total Expense Ratio of ETF.</p> <p>The Total Expense Ratio is a key figure that provides information about the annual costs of a fund. All fees such as management fees or custodian bank fees are taken into account, but not transaction costs or front-end loads.</p>
Transaction costs	The (percentage) transaction costs of the ETF.
Mgmt. fee	The (percentage) asset management fees of the ETF.

Field	Description
SRRI	The "SRRI" (Synthetic Risk and Reward Indicator of the ETF.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price price at the trading venue selected.

5.11.6 Full Quote - fund

In addition to the elements explained in the general [Full Quote](#) section, the Full Quote for a fund also shows the following data:

Prices

Field	Description
Bid/ask price or Redemption/Issue	The current bid or ask price of the fund. <div> At the "Investment fund" trading venue, "Redemption" and "Issue" are displayed instead.</div>
NAV	The net asset value of a fund unit.
Fund volume subfund level	The fund volume of the subfund level in the displayed currency.
Fund volume subfund date	The date on which the fund volume of the subfund level was determined.
Fund volume shareclass level	The fund volume of the asset class level in the displayed currency.

Characteristics

Field	Description
Security category	The category of the fund.
Company	The corresponding fund company.

Field	Description
Company country	The country of the fund issuer.
Allocation	The type or composition of the fund.
Distribution type	The distribution type of the fund, that is, "Accumulating" or "Distributing".
Distribution frequency	The distribution frequency type of the fund, for example "Annually".
Date/Payment	The date and payment amount of the distribution.
UCITS/AIF	<p>Shows if it is a UCITS (Undertakings for Collective Investment in Transferable Securities) or an AIF (Alternative Investment Fund)</p> <p>UCITS: The UCITS Directive defines the specific requirements for funds and their fund management companies. One of the key issues is the regulation of the eligible assets in which a fund company may invest.</p> <p>AIF: Funds which are not undertakings for collective investment in transferable securities (UCITS) within the meaning of the UCITS Directive: for example, real estate funds, hedge funds or private equity funds.</p>

Key Figures

Field	Description
Issue date	The fund's launch date.
1Y perf.	The 1 year performance of the fund.
3Y perf.	The 3 year performance of the fund.
5Y perf.	The 5 year performance of the fund.
1Y vola.	The 1 year volatility of the fund.
Category benchmark	<p>The category benchmark of the fund (if specified), for example Dow Jones.</p> <p>For the benchmark, the familiar menu for quick opening in other widgets is available via the icon.</p>

The performance figures for funds are calculated in the "Full Quote" widget by default including distributions.

Further statistics

Field	Description
Ongoing charges	The percentage of ongoing charges of the fund.
Front-end load	The percentage front-end load of the fund.
Transaction costs	The (percentage) transaction costs of the fund.
Mgmt. fee	The (percentage) management fees of the fund.
SRI	The fund's "SRI" ("Socially Responsible Investment").
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price price at the trading venue selected.

5.11.7 Full Quote - future

In addition to the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for a future shows the following data:

Prices

Field	Description
Bid/ask price	The bid and ask price at the trading venue selected. The arrow next to a particular price flashes to indicate updated prices. The direction and colour of the arrow next to the price illustrate the current price development.
Bid/ask quantity	The quantity for the last bid and ask price indicated above.
Open/Close	Current open price and the last close price (during trading hours, the price of the previous day's close).
High/Low	The daily highest and lowest price at the trading venue selected.
Cum. volume	The total volume of the future at the trading venue selected.

Contract

Field	Description
Contract unit	The contract unit of a future, for example 1000 (barrel) for one oil future.
Value of 1 pt.	The "currency" of the future.
Ticket size	The tick size and tick value of the future. The tick size is the minimum possible unit of price change. The tick value is the minimum possible (monetary) value unit.
Pricing unit	The pricing unit of the future, for example cent.
Contract size unit	The contract size unit of a future, for example barrel ("bl") for one oil future.
Contract volume	The contract volume is determined based on the current price: Current price * value of 1 pt.

Key indicators

Field	Description
Underlying	The underlying of the future.
Maturity date	The maturity date of the future.
Open Interest	The open Interest of the future. Open interest refers to the total of all open positions in a forward or option contract.
Pre-market auction	The pre-market auction price of the future.
Auction	The auction price of the future.
Settlement	The settlement price of the future.

Further statistics

Field	Description
1M perf.	The absolute and relative 1-month performance of the future.

Field	Description
3M perf.	The absolute and relative 3-month performance of the future.
6M perf.	The absolute and relative 6-month performance of the future.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price at the trading venue selected.

5.11.8 Full Quote - index

In addition to the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for an index also shows the following data:

Prices

Field	Description
Open/Close	Current open price and the last close price (during trading hours, the price of the previous day's close).
High/Low	The daily highest and lowest price of the index at the trading venue selected.
Turnover	The turnover of the index at the trading venue selected.
Number of trades	The number of trades in the index.

Characteristics

Field	Description
Country	The country of the index.
Index type	The type of the index, for example performance or price index.
Number of Securities	The number of the index values, for example "30" for the Dow Jones.
Up/Down/Equal	How many index members advanced, declined or remained unchanged (today)?

Field	Description
Domestic stock exchange	This field returns "Yes" if a domestic stock exchange exists for the index.

Key indicators

Field	Description
90D vola.	The 90 days volatility of the index.
1Y vola.	The 1-year volatility of the index.
3Y vola.	The 3-year volatility of the index.
5Y vola.	The 5-year volatility of the index.
3M Sharpe	The 3 month Sharpe ratio of the index. The Sharpe ratio measures the excess return of a security above the return of a risk-free money market investment, per risk unit.
Div. yld.	The dividend yield of the index.

Further statistics

Field	Description
YTD perf.	The absolute or percentage change of the index since the beginning of the year.
1Y perf.	The absolute and relative 1-year performance of the index.
3Y perf.	The absolute and relative 3-year performance of the index.
5Y perf.	The absolute and relative 5-year performance of the index.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and the lowest price to date at the selected trading venue.

5.11.9 Full Quote - certificate

In addition to the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for a certificate shows, for example, the following data:

Prices

Field	Description
Bid/ask price	The current bid and ask price at the trading venue selected. The arrow next to a particular price flashes to indicate updated prices. The direction and colour of the arrow next to the price illustrate the current price development.
Bid/ask quantity	The quantity for the bid and ask price indicated above.
Bid/ask time	The time for the bid and ask prices indicated above.
Spread	The absolute and relative spread.
Open/Close	Current open price and the last close price (during trading hours, the price of the previous day's close).
High/Low	The daily highest and lowest price at the trading venue selected.
Total volume	The volume of the certificate at the trading venue selected.
Distance all-time high	The distance in percent to the all-time high of the certificate.

Characteristics

Field	Description
Underlying	The underlying of the certificate. Next to the name of the underlying, you find a menu icon allowing you to open the underlying in a new widget. For more information, see Commands in the widget menu .
Underlying type	The category of the underlying, for example "Share" or "Index".

Further characteristics

Field	Description
Maturity date	The maturity date of the certificate.
Issue	The issue date of the certificate. The issue date is the date when the trading of the certificate started.
Subscription ratio	The subscription ratio of the certificate to the underlying. The subscription ratio is the ratio of the underlying quantity to one certificate, that is, the percentage of the underlying that a certificate can be obtained with.
Quanto	Shows if the certificate is a quanto certificate. Quanto certificates are derivatives that hedge against currency risk if you speculate on an underlying noted in a foreign currency. For this purpose, the exchange rate is fixed when the certificate is issued. This exchange rate is used when the certificate matures to calculate the internal value. Therefore, the amount paid out when the certificate matures depends only on the price of the underlying.

Key figures

Field	Description
1M perf.	The absolute and relative 1-month performance of the certificate.
1Y perf.	The absolute and relative 1-year performance of the certificate.
3Y perf.	The absolute and relative 3-year performance of the certificate.
1Y vola.	The 1-year volatility of the certificate.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price at the trading venue selected.

Depending on the certificate type, you find various data in the "Characteristics" area. See the following sections to learn more about the individual characteristics of the various certificates.

See also:

- [Bonus certificate characteristics](#)
- [Discount certificate characteristics](#)
- [Factor certificate characteristics](#)
- [Express certificate characteristics](#)
- [Outperformance certificate characteristics](#)
- [Guarantee and capital protection certificate characteristics](#)
- [Index certificate characteristics](#)
- [Reverse convertible bond characteristics](#)
- [Turbo, leverage or knock-out certificate characteristics](#)

Bonus certificate characteristics

In the "Full Quote" widget for a bonus certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Certificate group	The certificate type, here "Bonus".
Certificate type	<p>The certificate type.</p> <p>The type is used to categorise bonus certificates more precisely, for example, "Bonus Cap" or "Reverse Cap".</p>
Bonus level	<p>The bonus level of a certificate.</p> <p>A bonus level is specified when the certificate is issued and remains unchanged during the entire term to maturity. By default, it is about the price of the underlying when the certificate is issued. If the underlying closes below the bonus level on the final fixing date, then the investor receives a guaranteed amount specified in the terms of issue. This corresponds to the bonus level (market value of the underlying instrument at issue of the certificate regarding the bonus payment), provided that the safety level specified in the issue conditions is still intact. If the underlying closes above the bonus level at maturity, then the holder also participates in the price development of the underlying instrument above this level. As a rule, the participation is complete and unlimited, but can be partial or continue up to a certain cap.</p>
Barrier	<p>The barrier of the certificate.</p> <p>Bonus certificates provide an additional safety if the underlying reaches or exceeds the barrier between the knock-in date and the maturity date. If the underlying reaches or exceeds the barrier during this period, the repayment is like in case of an index certificate. The repayment is dependent on the price development of the underlying instrument since it has been issued.</p>

Field	Description
Cap	The cap of the certificate. Some bonus certificates also have a cap, that is, the specified maximum amount up to which the investor can profit from a price increase of the underlying.
Strike	The strike or exercise price of the certificate.

Discount certificate characteristics

In the "Full Quote" widget of a discount certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Certificate group	The certificate type, here "Discount".
Certificate type	The certificate type. The type is used to categorise discount certificates more precisely, for example, "Discount Classic".
Cap	The cap of the discount certificate. A cap is the specified maximum amount up to which the investor can profit from a price increase of the underlying. This limitation is compensated by the discount that is built in the discount certificates.
Discount (abs./rel.)	The absolute and relative discount of the certificate. For discount certificates, a discount is granted to the holder for the underlying instrument. This discount acts as an additional risk buffer that the holder "pays" with a limitation of the possible profit chances (see also: Cap).
Max. return (abs./rel.)	The absolute and relative highest yield of the certificate.
Distance to cap (abs./rel.)	The absolute and relative distance to the cap of the certificate.

Factor certificate characteristics

In the "Full Quote" widget of a factor certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Security type	<p>The certificate type, here "Factor certificate".</p> <p>Factor certificates are suitable for investors that have a certain short-term expectation for an underlying, for example a share, an index, commodity or currency. Factor certificates allow you to participate either in rising (long strategy) or declining (short strategy) prices.</p>
Type	<p>The certificate type.</p> <p>The type is used to categorise discount certificates more precisely, for example, "Index factor".</p>
Mgmt. fee	The amount of the management fee.
Warrant option	The type of the certificate, that is, call or put.
Leveraged product	Shows whether or not the certificate is a leveraged product.
Factor	<p>The factor of the certificate.</p> <div> <p>Example: "Factor 3"</p> <p>If the underlying price rises during the day by 1%, then the corresponding factor certificate rises by 3%.</p> </div>

Express certificate characteristics

In the "Full Quote" widget of an express certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Certificate group	<p>The certificate type, here "Express".</p> <p>Express certificates allow you to achieve high yields even in sideways markets. At the end of an observation period (for example, a quarter or year), the investors can receive the capital invested plus income before the maturity date. For this case, only one condition must be met: At this point, the underlying index or share should be at or above its starting point or not have touched a certain level. If this condition is not fulfilled in the first period, then the investor has a chance of early repayment in each of the following periods. The repayment amount increases in each period. The risk buffer of express certificates protects investors from price declines at maturity. If the index or the share declined during the total time to maturity and if no premature repayment was triggered, then the capital invested is partially or completely protected at maturity (depending on the structure of the certificate).</p>
Certificate type	<p>The certificate type.</p> <p>The type is used to categorise express certificates more precisely, for example, "Express Relax" or "Express reverse".</p>
Strike	The strike or exercise price of the certificate.
Barrier	The barrier of the certificate.
Distance to barrier (abs./rel.)	The absolute and relative distance to the security level of the certificate.
No. of observation dates	<p>The number of observation dates of the certificate.</p> <p>For example, an express certificate with a time to maturity of 4 years can have 4 valuation or observation dates at the end of each year.</p>

Outperformance certificate characteristics

In the "Full Quote" widget of an outperformance certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Certificate group	<p>The certificate type, here "Outperformance".</p> <p>An outperformance certificate is a structured financial product. Above a certain underlying price, the certificate allows you to participate disproportionately (leveraged) in price developments of an underlying instrument. Underlying instruments of outperformance certificates are usually equities or indices.</p>

Field	Description
Certificate type	The certificate type. The type is used to categorise outperformance certificates more precisely, for example, "Outperformance Classic" or "Sprint Classic".
Factor	The factor of the outperformance certificate. The (participation) factor is the percentage by which the holder profits from price increases of the underlying instrument.
Strike	The exercise price of the outperformance certificate.
Cap	The cap of the (sprint) certificate.
Spectrum	The spectrum of the (sprint) certificate: "above" or "below".

Guarantee and capital protection certificate characteristics

In the "Full Quote" widget of a guarantee or capital protection certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Certificate group	The certificate type, here "Guarantee". The guarantee certificate guarantees a certain repayment amount as a percentage of the nominal value of the certificate. The capital guarantee and the clearly defined win chance apply only at the maturity of the certificate. Therefore, these certificates are not intended as short-term investments.
Certificate type	The certificate type. The type is used to categorise bonus certificates more precisely, for example, "Cap" or "Guarantee classic".
Capital guarantee	The percentage up to which the capital is protected, for example "100%".
Capital protected amount	The maximum protected amount.

Index certificate characteristics

In the "Full Quote" widget of an index certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Certificate group	The certificate type, here "Index".
Certificate type	The certificate type. The type is used to categorise discount certificates more precisely, for example, "Index Classic".
Mgmt. fee	The amount of the management fee.
Barrier	The barrier of the certificate.
90D vola/3M Sharpe	The 3 month volatility and the 3 month Sharpe ratio of the certificate. The Sharpe ratio measures the excess return of a security above the return of a risk-free money market investment, per risk unit.

Reverse convertible bond characteristics

In the "Full Quote" widget of a reverse convertible bond, you find the following data in the "Characteristics" area:

Field	Description
Certificate group	The certificate type, here "Reverse convertible bond". A reverse convertible bond is a structured financial product. The most important characteristic of these products is that at maturity the issuer has the option to either repay 100% of the nominal amount or deliver a pre-specified amount of shares. In addition, the investor receives one or more coupon payments during the lifetime of the certificate. The coupon is usually significantly higher than that of a normal bond.
Certificate type	The certificate type. The type is used to categorise reverse convertible bonds more precisely, for example, "Reverse Convertible Classic" or "Reverse Convertible Pro".
Interest rate p.a.	The annual interest rate or coupon of the reverse convertible bond.
Strike	The strike or exercise price of the reverse convertible bond.
Nominal value	The nominal value of the reverse convertible bond.
Security level	The security level or barrier of the reverse convertible bond.

Turbo, leverage or knock-out certificate characteristics

In the "Full Quote" widget of a turbo, leverage or knock-out certificate, you find the following data in the "Characteristics" area:

Characteristics

Field	Description
Security type	The security type of the certificate, for example, "Knock-out".
Type	The more precise classification of the certificate within the security type, for example, "Turbos".
Type	"Long" or "Short".
Strike price	The strike or exercise price of the instrument.
Stop Loss	The stop-loss barrier of the instrument (if available).
Company	The issuer of the instrument.

Further statistics

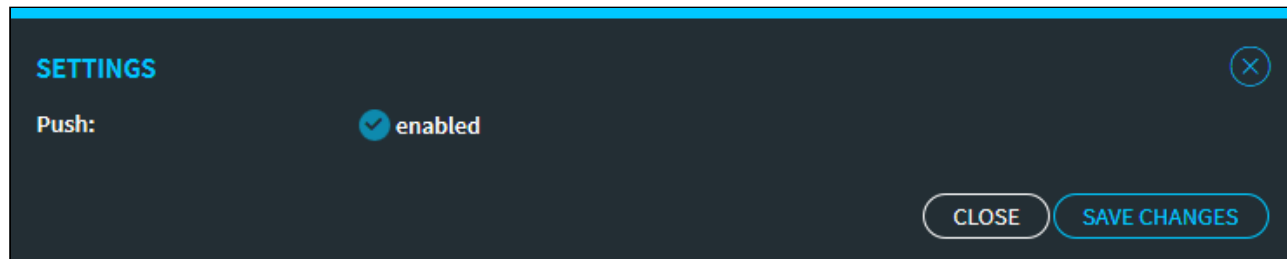
Field	Description
Leverage	<p>The leverage of the certificate.</p> <p>The leverage shows how the certificate would behave on a purely calculated basis with a price change in the underlying instrument. However, this value is not particularly informative.</p>
Premium/ premium p.a.	<p>The premium and the premium p. a. of the certificate.</p> <p>The premium is the percentage by which the subscription of the underlying instrument of the certificate is higher (that is, more expensive) than buying it directly on the stock exchange. The reverse applies to put options.</p> <p>The premium p.a. is the annualised premium. This value makes for a better comparison of leveraged products with different expiration dates.</p>
Intrinsic value	<p>The internal value of the certificate.</p> <p>The intrinsic value of a certificate is the difference between the current share price and the strike price. It indicates the amount that would be achievable by exercising the instrument.</p>
Spread abs.	The absolute spread of the certificate at the trading venue selected.
Spread rel.	The relative spread of the certificate at the trading venue selected.

5.11.10 Settings in the "Full Quote" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here, you can use the checkbox to change the following setting:

- Enable or disable the push data feed

For more information about the widget settings, see [Commands in the widget menu](#).

5.11.11 Full Quote - warrant/option

In addition to the elements explained in the general [Full Quote](#) section, the "Full Quote" widget for a warrant shows the following data:

Prices

Field	Description
Bid/ask price	The current bid and ask price at the trading venue selected. The arrow next to a particular price flashes to indicate updated prices. The direction and colour of the arrow next to the price illustrate the current price development.
Bid/ask quantity	The quantity for the bid and ask price indicated above.
Bid/ask time	The time for the bid and ask prices indicated above.
Open/Close	Current open price and the last close price (during trading hours, the price of the previous day's close).
High/Low	The daily highest and lowest price at the trading venue selected.
Total volume	The volume of the future at the trading venue selected.
Distance all-time high	The distance in percent to the all-time high of the warrant.

Characteristics

Field	Description
Instrument Key	<only for options> ID of the option.
Type	The warrant type, for example "Warrant", "Option" or "Classic".
Warrant option	The warrant option, for example "Call" or "Put".
Exercise type	The exercise type of the warrant, for example "American".
Exercise price	The strike or exercise price of the warrant.
Impl. Volatility	The implied volatility of the warrant. The implied volatility is the volatility that the warrant effectively allows for a security. Assuming that the effective price is identical to the fair price, you can calculate which volatility needs to be set for this price.
Moneyness	The moneyness of the warrant. This indicator describes the relation of the underlying asset to the strike and thus the value of the warrant (in the money or out of the money). For example, a moneyness of 1.1 indicates a profit of 10%.
Underlying	The underlying of the warrant. You can open the underlying directly in a dashboard or widget of your choice by using the menu icon of the underlying name. For more information, see Commands in the widget menu .
Underlying type	The security type of the underlying, for example "index" or "equity".

Further characteristics

Field	Description
Maturity date	The maturity date of the warrant.
Issue date	The issue date of the warrant. The issue date of the warrant is the date when the warrant was traded for the first time.

Field	Description
Subscription ratio	<p>The subscription ratio of the warrant to the underlying.</p> <p>The subscription ratio is the ratio of the underlying quantity to one warrant, that is, the percentage of the underlying that a certificate can be obtained with.</p>
Quanto	<p>Shows if the certificate is a quanto warrant.</p> <p>Quanto warrants are derivatives that hedge against currency risk if you speculate on an underlying noted in a foreign currency. For this purpose, the exchange rate is fixed when the certificate is issued. This exchange rate is used when the certificate matures to calculate the internal value. Therefore, the amount paid out when the certificate matures depends only on the price of the underlying.</p>
Contract size	Shows the contract size for options.


Key figures

Field	Description
Omega	<p>The omega of the warrant.</p> <p>The omega indicates the percentage change of the value of the option when the equity price changes by one percent. Omega is an indicator that estimates the future leverage of a warrant. Because of its lower price, the option reacts stronger in value in percentage terms than the underlying.</p>
Delta	<p>The delta of the warrant.</p> <p>The delta refers to the dependency of the option price on the equity price. If the price of the underlying rises by one euro, then the option price should theoretically rise by the delta value. For calls, the delta is always between 0 and 1, and for puts between -1 and 0.</p>
Gamma	<p>The gamma of the warrant.</p> <p>The gamma measures the sensitivity of the delta in relation to changes of the underlying price. The gamma shows by what amount the delta has changed when there is change in the underlying price. The Gamma must always be positive.</p>
Vega	<p>The vega of the warrant.</p> <p>The vega (sometimes referred to as "eta") shows the dependency of the fair price on the volatility. The higher the volatility of an equity, the greater the value of the warrant for the share. If the volatility of a share increases, then the value of the warrant increases by the value called vega.</p>

Field	Description
Rho	The rho of the warrant. Rho (sometimes referred to as "epsilon") indicates how the value of an warrant behaves when the interest rate changes by one percent. Because the interest on risk-free investments is also taken into account in the fair price calculation, you can also calculate the change in a warrant's value given a change in the interest rate.
Theta	The theta of the warrant. The theta of a warrant shows by what amount the time value decreases daily. Warrants lose their premium over time until they have only their intrinsic value on the expiration date. The theta increases as the expiration date of the warrant approaches.
Annual high/low	The highest and lowest price in the current year at the trading venue selected.
52W High/Low	The highest and lowest price in the last 52 weeks at the trading venue selected.
All-time high/low	The highest and lowest price at the trading venue selected.

5.12 MiFID

This widget shows all relevant MiFID II data for a security. In the upper left corner, select the widget and the corresponding area.

MIFID  APPLE INC. MIFID ▾ ⋮ ✕	
Capital class	Equity Instruments
Asset class (MiFID II)	Equity Instruments
Supplement: Asset class (MiFID II)	no specific classification
RTS 28 class	Equities – Shares & Depositary Receipts - Tick size liquidity bands 5 and 6
Leveraged product identifier	Non-Leverage product, deduced by WM from the asset class
Tick size	–
Product category (K+E)	Shares
Product approval process identifier	no information available from the issuer

The following sections provide details on the data fields.

See also:

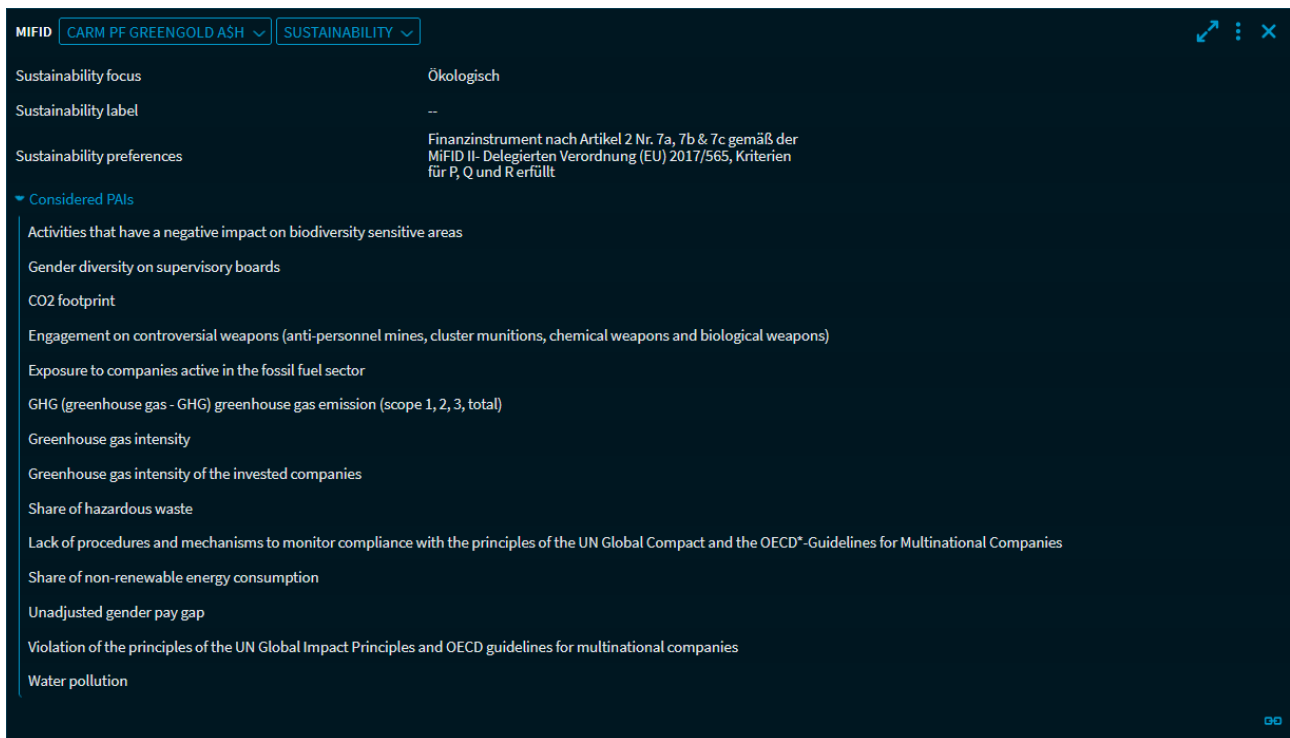
- [General MiFID II data](#)
- [Sustainability](#)
- [Sustainable investments](#)
- [Negative target market](#)
- [Costs \(MiFID\)](#)
- [Target market](#)

5.12.1 General MiFID II data

When you select the "MiFID" entry from the drop-down list in the upper part of the widget, you see the following data fields:

Field	Description
Asset class (MiFID II)	Classification of financial instruments to satisfy the transparency requirements. Shows if the instrument is an equity instrument or a non-equity instrument.
Asset class (MiFID II)	Shows the asset class of the instrument (shares, fund investment focuses, securitised derivatives...).
Supplement: Asset class (MiFID II)	The supplement to the asset class information.
RTS 28 class	Classification of financial instruments necessary for the publication of information by investment companies ("Best execution"): Classification of financials instruments by "RTS 28".
Leveraged product	Shows if the instrument is a leveraged product according to MiFID II/MiFIR
Tick size	This field contains a code for the regulation according to Article 49 requiring that a minimum ticket size is specified for the security.
Product category (Knowledge and experience)	This field contains the classification of the instrument in product categories (structured investment products, shares, investment funds...).
Product approval process	Shows whether a financial instrument has undergone a product approval process and according to which regulation this process was carried out.

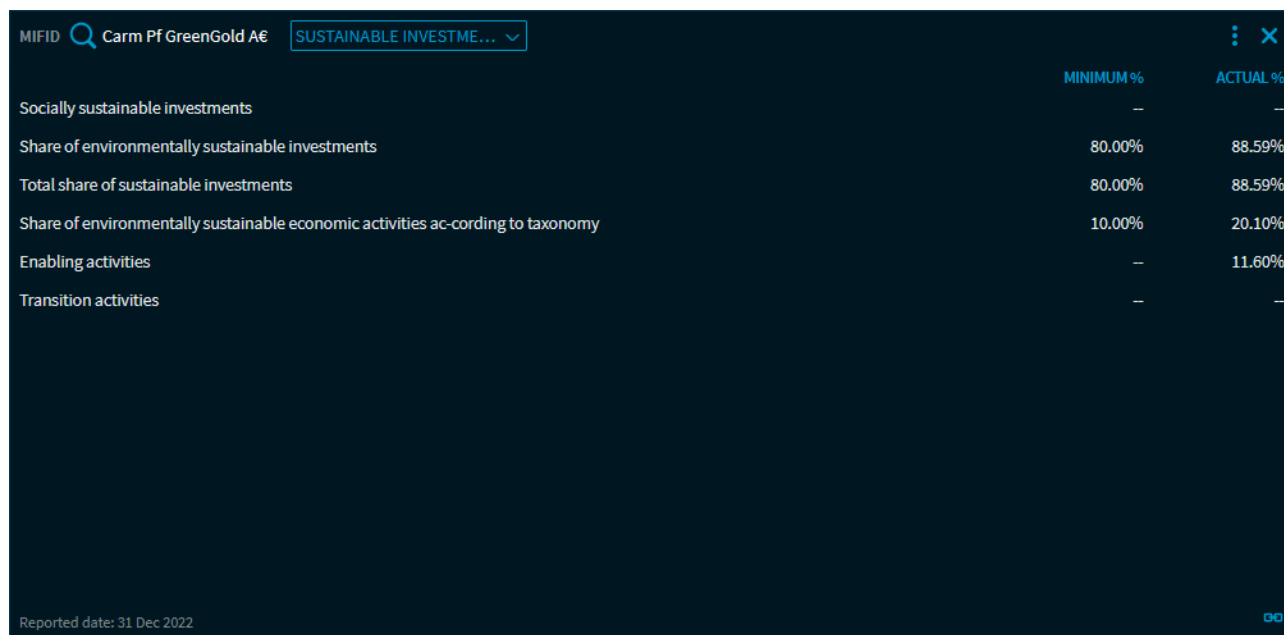
5.12.2 Sustainability



When you select the "Sustainability" entry from the drop-down list in the upper part of the widget, you find the following data fields:

Field	Description
Sustainability focus	The sustainability focus of the security from the "WM data".
Sustainability seal	The sustainability seal of the security from the "WM data".
Sustainability preferences	The sustainability preferences of the security from the "WM data".
Considered PAIs	<p>Here, you can find the list of PAIs ("Principal Adverse Impacts") considered.</p> <p>You can open and close this list by using the arrow icon on the left side.</p>

5.12.3 Sustainable investments



The screenshot shows a widget titled "SUSTAINABLE INVESTME..." with a search bar containing "Carm Pf GreenGold A€". The widget displays a table of sustainable investment metrics. The table has two columns: "MINIMUM%" and "ACTUAL%". The data is as follows:

	MINIMUM%	ACTUAL%
Socially sustainable investments	—	—
Share of environmentally sustainable investments	80.00%	88.59%
Total share of sustainable investments	80.00%	88.59%
Share of environmentally sustainable economic activities according to taxonomy	10.00%	20.10%
Enabling activities	—	11.60%
Transition activities	—	—

Reported date: 31 Dec 2022

When you select the "Sustainable investments" entry from the drop-down list in the upper part of the widget, you find the following data fields:

- Share of socially sustainable investments
- Share of environmentally sustainable investments
- Total share of sustainable investments
- Share of environmentally sustainable economic activities n. Taxonomy
- Enabling activities
- Transition activities

For all data, you can see the required minimum percentage and the current percentage on the right-hand side.

5.12.4 Negative target market

If you select the "Negative target market" entry from the drop-down list in the upper part of the widget, you see the classification of the negative target market here (similar to those described in [Target market](#)).

5.12.5 Costs (MiFID)

If you have selected the "Costs" entry in the drop-down list at the top, you will see a detailed list of the available cost items for investments in this security.

MIFID	Q	Carm Pf GreenGold A€	COSTS ▾	⋮	×
Entry costs					—
Entry costs date					—
Entry costs %					—
Exit costs					0
Exit costs date					26 Sep 2013
Exit costs %					—
Has fair value					No
Has ongoing costs					No
Has performance fee					Yes
Has swing pricing					No
Maximum exit costs					—
Maximum exit costs %					—
Maximum exit costs reverence value					5
Minimum exit costs					—
Ongoing charges					1.84
Ongoing charges date					30 Dec 2022
Ongoing charges %					—
Ongoing incremental costs					—
Ongoing incremental costs date					—
Ongoing incremental charges %					—
Performance					0.7
Performance date					30 Dec 2022
Total costs correction ID					—
Total costs from					31 Dec 2020
Total costs to					31 Dec 2021
Total costs (event related)					0.02
Total costs (ongoing)					1.8
Total costs transaction					0.2874869
Transaction costs					0.42
Transaction costs date					30 Dec 2022

5.12.6 Target market

When you select the "Target market" entry from the drop-down list in the upper part of the widget, you find the following data fields:

Field	Description
Client category	Possible client categories: <ul style="list-style-type: none"> • Private client • Eligible counterparty • Professional client
Investment objectives	Possible investment objectives <ul style="list-style-type: none"> • Pension • General asset growth/asset optimisation • Above-average participation in price changes • Hedging
Distribution strategy	Possible distribution channels: <ul style="list-style-type: none"> • Transaction without advice • Execution only • Investment advice
Investment horizon	Possible investment horizons: <ul style="list-style-type: none"> • Short-term (less than 3 years) • Medium-term (3-5 years) • Long-term (more than 5 years)
Knowledge and experience	Possible categories of knowledge and experience with financial products: <ul style="list-style-type: none"> • Basic knowledge and/or experience • Average knowledge and/or experience • Comprehensive knowledge and/or experience • Special knowledge and/or experience
Ability to bear financial losses	Possible categories: <ul style="list-style-type: none"> • The investor cannot bear any or can bear only small losses of the capital invested. • The investor can bear losses (including the complete loss of the capital invested). • The investor is able to bear losses exceeding the capital invested.
Risk indicator	The value is determined from 7 risk classes on a value-at-risk (VaR) basis in line with the PRIIPS categories derived from the <i>Synthetic Risk and Reward Indicator</i> "SRRI".
Calculation method of risk indicator	the calculation method for the risk indicator, "Computation as per PRIIPS methodology (SRI)", for example.

Field	Description
Special requirements	Possible special requirements: <ul style="list-style-type: none"> • ESG (Environmental, social and corporate governance)/Green investment • Ethical investment • Islam compliant investment • No special requirements

5.13 Key Figures

In this widget, you monitor the performance indicators of securities for various periods.

KEY FIGURES  APPLE INC. XETRA (EUR) ▾ ⋮ ✕								
	1 WEEK	1 MONTH	3 MONTHS	6 MONTHS	1 YEAR	3 YEARS	5 YEARS	10 YEARS
Ø Price	148.04666	147.11523	140.52322	138.6937	143.466	123.25339	93.33144	58.74445
Ø Volume (qty.)	54.71 k	74.86 k	77.24 k	80.62 k	90.52 k	115.93 k	133.62 k	188.97 k
Vola.	13.25%	15.87%	26.30%	30.98%	29.61%	28.70%	29.73%	27.11%
Correlation	0.9128	0.93111	0.88276	0.46844	0.62181	0.58959	0.89504	0.95041
Performance	-2.03%	3.69%	20.01%	2.29%	-5.37%	145.85%	332.13%	1,346.72%
Beta	0.97345	0.55892	0.59404	0.63611	0.7738	0.78739	0.80615	0.86747
Benchmark	-1.76%	-3.54%	6.73%	-16.93%	2.84%	87.60%	239.52%	985.39%
High price	150.40	153.04	153.04	157.34	172.66	172.66	172.66	172.66
High date	06/04/2023	04/04/2023	04/04/2023	28/10/2022	19/08/2022	19/08/2022	19/08/2022	19/08/2022
Low price	145.62	136.90	121.94	118.18	118.18	61.50	31.16	10.50672
Low date	13/04/2023	13/03/2023	13/01/2023	04/01/2023	04/01/2023	21/04/2020	03/01/2019	19/04/2013

Key figure calculation date: 11/04/2023 | Key performance indicators incl. dividends/distributions 

At the top of the "Key Figures" widget, you find the quick search and drop-down lists to select the security and the corresponding trading venue.

The following periods are shown in the table columns, respectively:

- 1 week
- 1 month
- 3 months
- 6 months
- 1 year
- 3 years
- 5 years
- 10 years

For these periods, the following indicators are calculated:

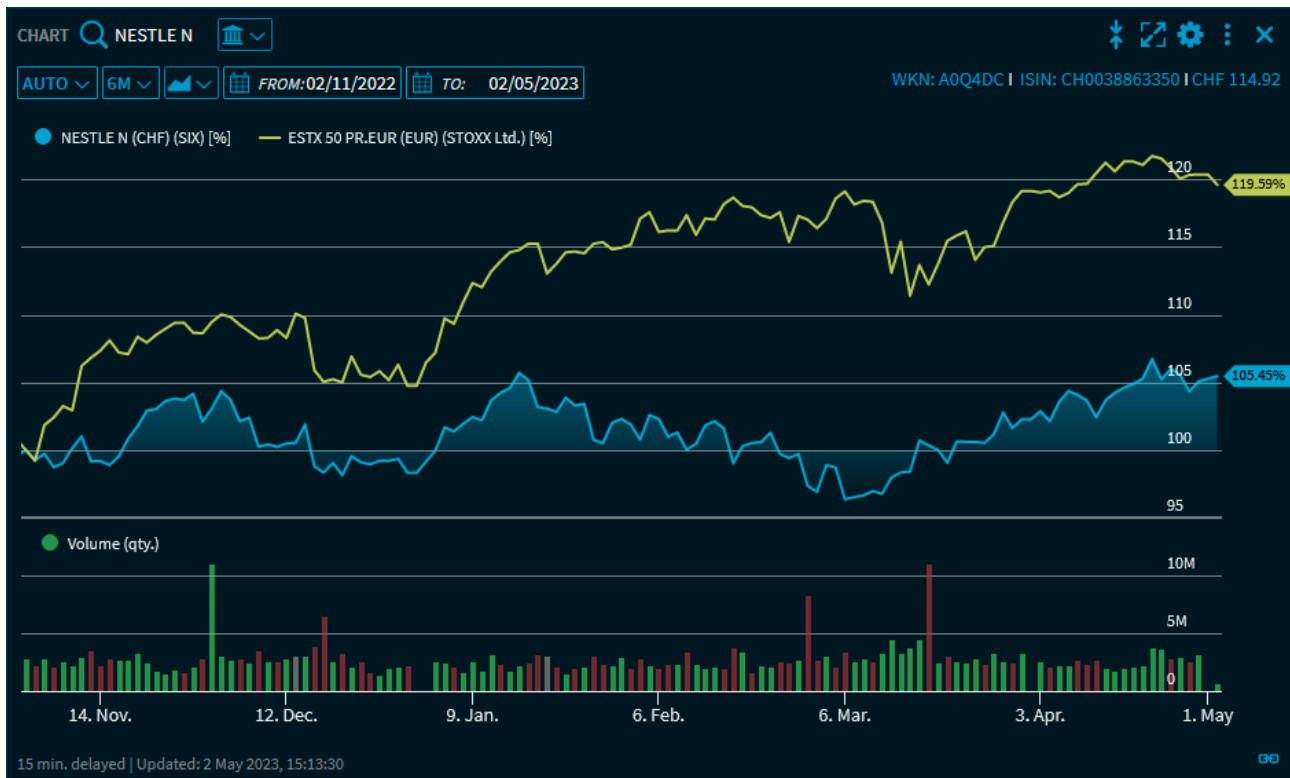
ID	Description
Ø Price	The average price of the instrument on the trading venue in the corresponding period.
Ø Volume (qty.)	The average volume of the security on the trading venue in the corresponding period in units (quantity).
Vola.	The volatility of the security in the corresponding period.
Correlation	The correlation of the security in the corresponding period.
Performance	The performance of the security in the corresponding period.
Beta	The beta of the security in the corresponding period.
Benchmark	The performance of the benchmark in the corresponding period. In brackets, you see the name of the benchmark.
Price high	The highest price in the corresponding period.
Date high	The date at the highest price in the corresponding period.
Price low	The low price in the corresponding period.
Date low	The date at the lowest price in the corresponding period.
Footer	In the footer of the widget, you find the following information: <ul style="list-style-type: none"> • Last key figure calculation • For shares and funds, the addition of "Performance ratios incl. dividends/distributions" was included.



You can open the "Key Figures" widget for all security types showing the corresponding indicators. Widget grouping and drag-and-drop of securities is also supported.

5.14 Chart

The "Chart" widget is a modern chart analysis tool allowing you to intuitively provide the most important functions and views. The charts automatically adjust to the individual security types.



Use the following chart types for your analysis:

- Line chart
- Mountain chart
- OHLC chart
- Candlestick chart

The "Chart Analysis" widget also provides additional chart types.

You can also display revenues, benchmarks or the moving average and modify the analysis period.

The aggregation of the charts takes place automatically depending on the set period:

- Intraday charts (1 hour to 14 days): Aggregation minutes
- Charts from 3 weeks to 5 years: Aggregation days
- Charts longer than 5 years: Aggregation weeks

The "Chart Analysis" widget also offers additional chart types and many other technical indicators.






Point to the chart lines to show the price information for a particular time.



The date is shown on the time axis, the respective price is shown in the legend. In the settings of the widget, this display can be changed to "Tooltip".










If you have shown the volume, then the number of units is shown there when you point the mouse at the chart lines.

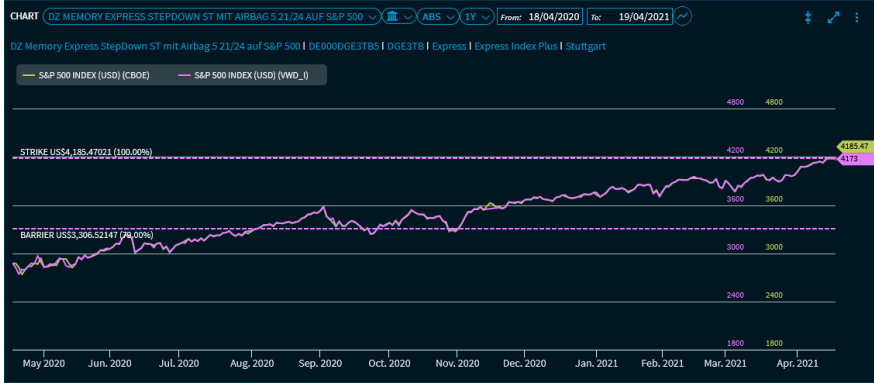
In addition to the [Standard elements](#), the "Chart" widget has the following elements and functions:

Element	Description
Select security	 <p>The selection in the upper left corner of the widget shows the name of the security currently displayed in the chart. Open the menu to select a security. In addition to using the securities search field, you can also select from the previously selected instruments below the search field.</p>
Select trading venue	 <p>You find the trading venue drop-down list next to the security drop-down list. Select the trading venue.</p>
Select setting y-axis	 <p>To the right of the trading venue drop-down list, you can set the y-axis. Select between "Relative", "Absolute" and "Auto". With the "Auto" setting, the optimal configuration is set automatically.</p>

Element	Description
"Period" drop-down list	<div>  </div> <p>In the next drop-down list, you will find various predefined periods. Depending on the trading venue, you can select from the following periods:</p> <ul style="list-style-type: none"> • 1 hour • 1 day (With this setting, the previous day's close is shown as a horizontal line.) • 2 days • 3 days • 1 week • 1 month • 6 months • Year to date • 1 year • 3 years • 5 years • 10 years • Max. <p>You can set a custom time period using the integrated calendars in the "From:" and "To:" input fields.</p> <p>You can also select "Today" for the to date in the chart widgets. In this case, the chart is then automatically displayed up to the current date when the Infront Investment Manager is started on a later day.</p> <p>You can also configure and save multiple custom time periods via the Chart widget settings. These will then appear here at the bottom of the drop-down list.</p> <div>  </div>

Element	Description
	<div>  <p>If a "Chart" widget with the "1 day" setting is in a group of widgets, then the view of a fund is automatically set to 3 days. If the fund is then set to another security type in one of the grouped widgets, then the period is also reset to "1 day" in the chart.</p> </div>
Select chart type	<div>  <p>Select the corresponding type to be displayed:</p> <ul style="list-style-type: none">  <p>Line</p>  <p>Mountain</p>  <p>OHLC</p>  <p>Candlestick</p> <p>For more information about the individual types, see Chart type.</p> </div>
 <p>Icon "Copy chart to clipboard"</p>	<p>Click this Icon to copy the chart to the clipboard.</p>
x-axis	<p>The x-axis shows the time scale of the currently set period.</p>

Element	Description
y-axis	<p>The y-axis shows the price scale.</p> <p>If you specified a benchmark, then a percentage scale is shown for better comparison ("Auto" setting).</p> <p>Displayed values also have a percentage sign when displayed as percentages:</p>  <p>By using the Widget settings, you can also display the values of the y-axis (ordinate) outside the chart.</p> <div>  <p>For derivatives, two absolute axes are displayed by default for the instrument and the associated underlying. This means that, for example, any barriers or caps that may be present can also be displayed correctly.</p> </div>
Legend	<p>In the legend displayed in the lower right corner of the widget, you see which chart lines are associated with which security or indicator.</p>  <p>(In this example, "SMA (200)" is the indicator "Moving average on 200 day basis", "TECDAX" is the benchmark.)</p> <p>You can remove displayed benchmarks or indicators from the legend: Point to the legend entry you want to remove. This displays a remove icon behind it, which you can use to quickly remove this chart line.</p>  <p>You can show or hide the legend by using the Settings.</p>

Element	Description
Security-specific properties	<p>The display of security-specific properties such as barriers for certificates (with the "Absolute" setting for y-axis) is integrated.</p> <div> <p>Example of an automatically plotted barrier</p>  </div>

See also:

- [Chart type](#)
- [Drag security to chart](#)
- [Convert "Chart" widget to "Chart Analysis" widget](#)
- [Export charts](#)
- (50-en) [Copy chart to clipboard](#)
- [Settings in the "Chart" widget](#)

5.14.1 Chart type

Use the drop-down list to select from the following chart types:

- [Line chart](#) (default setting in the "Chart Analysis" widget)
- [Mountain chart](#) (Default setting in the "Chart" widget)
- [OHLC chart](#)
- [Candlestick chart](#)
- [Candle volume chart](#) (available in the "Chart Analysis" widget only)
- [Bar chart](#) (default setting in the "Chart Analysis" widget)
- [Point chart](#) (available in the "Chart Analysis" widget only)
- [Steps chart](#) (available in the "Chart Analysis" widget only)
- [Point and figure chart](#) (available in the "Chart Analysis" widget only)

They are shortly described in the following subsections.

See also:

- [Line chart](#)

- Mountain chart
- OHLC chart
- Candlestick chart
- Candle volume chart
- Bar chart
- Point chart
- Steps chart
- Point and figure chart

Line chart



The "Line" chart type displays the price time series as simple lines.



To switch to this chart type, select the "Line" entry from the drop-down list again.

Mountain chart



The "Mountain" chart type displays the price time series as chart line, the area below is filled with a transparent gradient so that the grid lines are also clearly visible.



In the "Chart" widget, the "Mountain" chart type is set by default. The chart line is continued with each trading day. Weekends and holidays are disregarded.



To switch to this chart type, select the "Mountain" entry from the drop-down list again.

OHLC chart

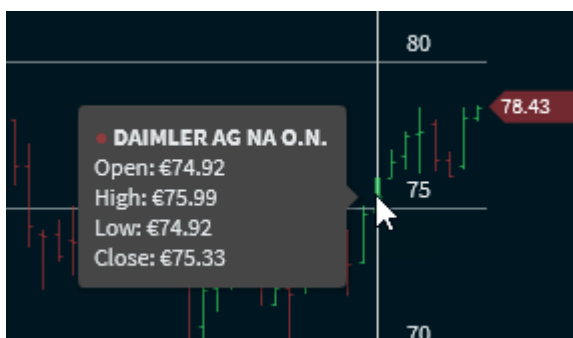


The "OHLC" chart type shows the open, high, low and close prices of the security for the intervals in the corresponding period.

The vertical line's upper end represents the high, the lower end the low. The small horizontal dash to the left is the opening price, the small horizontal dash on the right is the closing price.



Point to the lines to show the corresponding values.



To switch to this chart type, select the "OHLC chart" entry from the drop-down list.

Candlestick chart

Similar to the OHLC chart, the "Candlestick" chart type shows the high, low, open and closing prices. In addition to the high, low, and close, the colour of the candles shows if the daily close is listed above or below the daily open. If the close is above the open, the rectangle is shown in green (default setting); if it is below the open, it is shown in red.



These colours are the familiar standard settings for candlestick charts. You can change these candle colours individually in the "Chart Analysis" widget.



Point to the candles to show the corresponding values:



To switch to this chart type, select the "Candlestick" entry from the drop-down list.

Candle volume chart



The "Candle volume" chart type shows, similar to OHLC - or Candlestick chart, the high, low, opening and closing prices. In to the high, low, and close, the colour of the candles shows if the daily close is listed above or below the daily open. If the close is above the open, the rectangle is shown in green (default setting); if it is below the open, it is shown in red. In addition to the candlestick chart, you can see the volume here by the width of the candles.




These colours are the familiar standard settings for candlestick and candle volume charts. You can change these candle colours individually in the "Chart Analysis" widget.





Point to the volume candles to show the corresponding values:

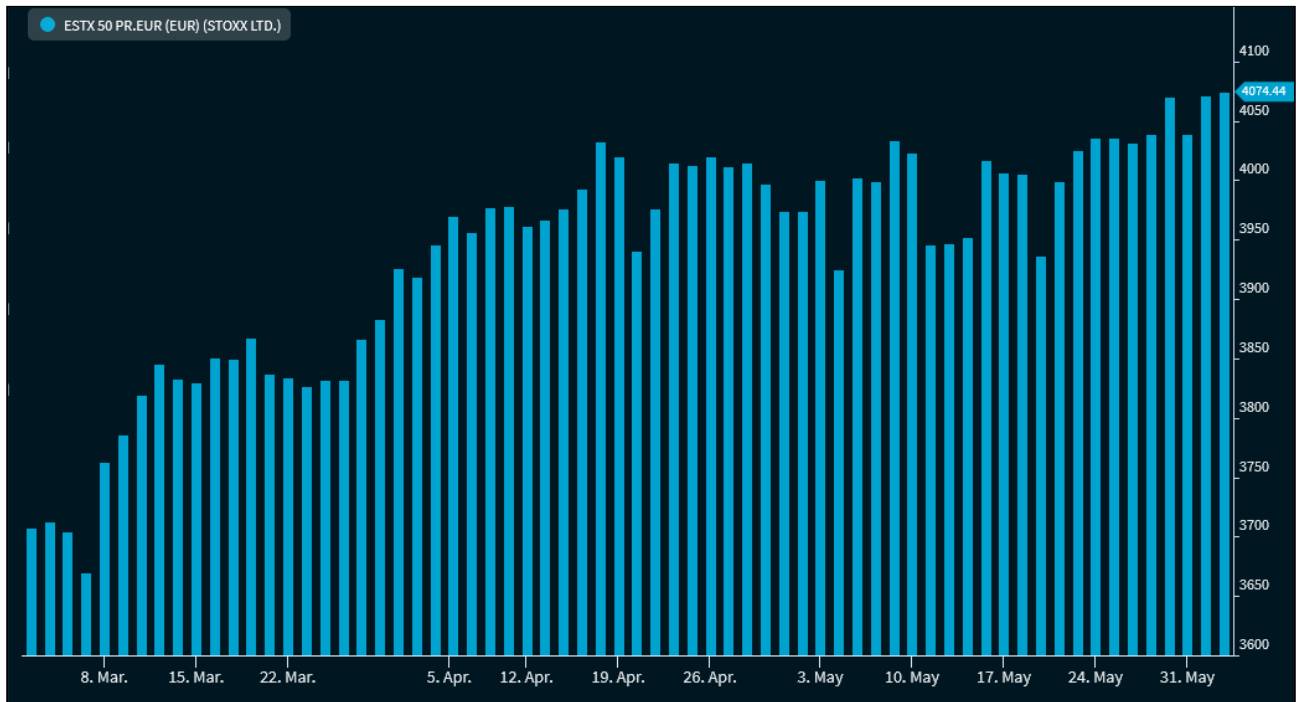



 To switch to this chart type, select the "Candle volume" entry from the drop-down list.

Bar chart

 The "Bars" type is only available in the ["Chart Analysis"](#) widget.

 The "Bars" chart type displays the price time series as bars or columns.



 To switch to this chart type, select the "Bars" entry from the drop-down list again.

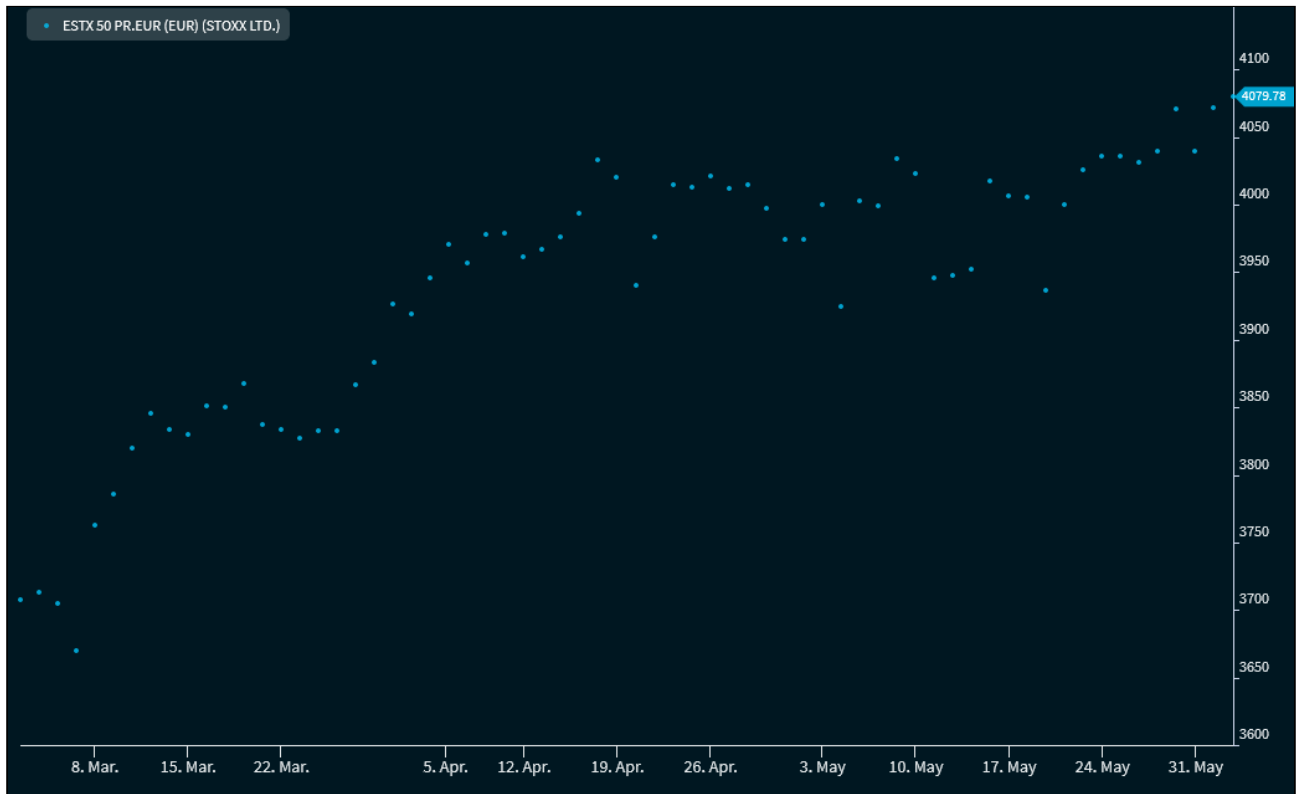
Point chart




The "Points" chart type is only available in the ["Chart Analysis"](#) widget.



The "Points" chart type displays the price time series as points.



 To switch to this chart type, select the "Points" entry from the drop-down list again.

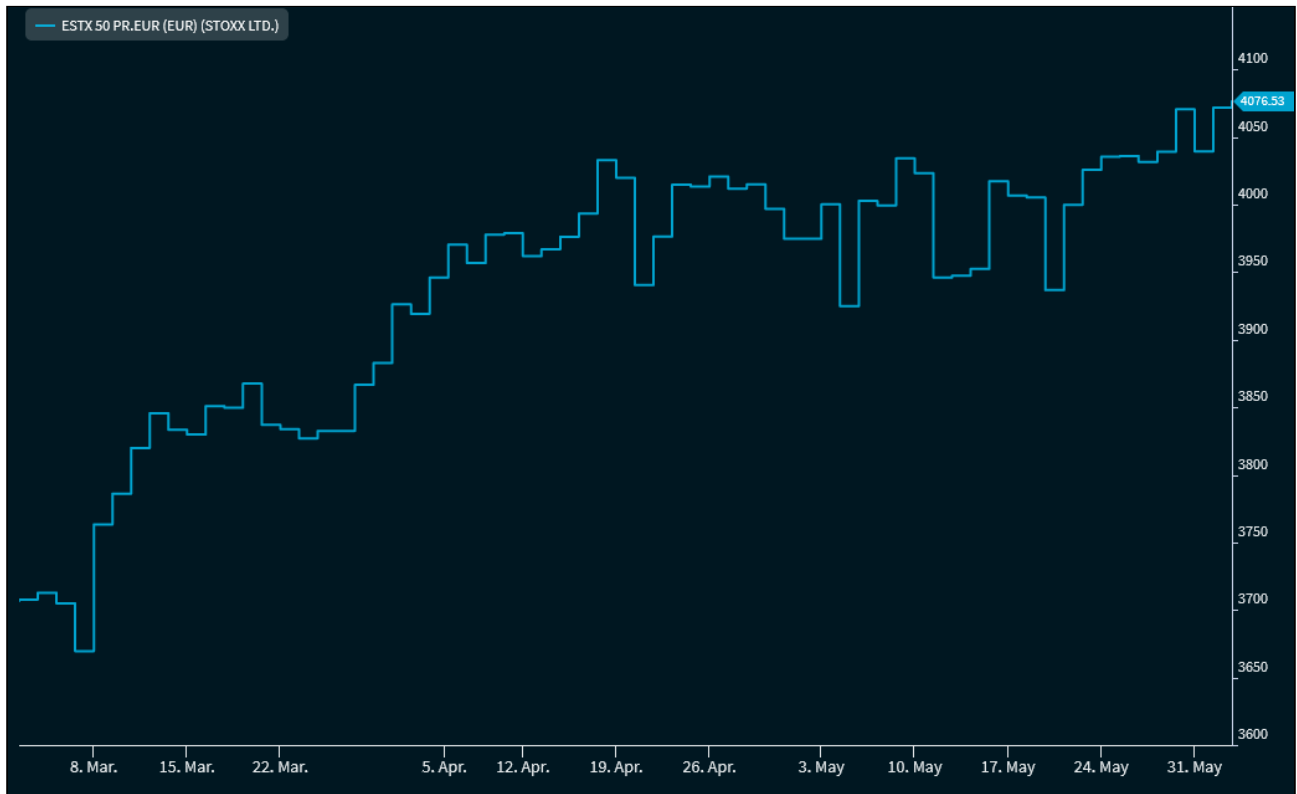
Steps chart




The "Steps" chart type is only available in the ["Chart Analysis"](#) widget.



The "Steps" chart type displays the price time series as steps.



 To switch to this chart type, select the "Steps" entry from the drop-down list again.

Point and figure chart



The "Point & figure" chart type is only available in the ["Chart Analysis"](#) widget.




In contrast to the line and bar charts, the "Point & figure" chart type shows larger trends and is more suitable for medium to long-term analysis. Strictly speaking, the point & figure chart should be seen as an indicator. The major difference between point & figure and line or bar charts is that line charts are continued on every day where realised prices are established. The point & figure chart is only continued if the price was large enough.


The point & figure chart is a combination of X and O columns, the so-called boxes. The X indicates increasing prices (upwards trend), the O falling prices (downwards trend).



Special configuration options for this chart type are available in the settings menu:

Element	Description
Box size	<p>Enter the corresponding box size.</p> <p>The default setting for the box size is "1".</p> <p>The box size defines the rate range for a box, that is, a price must change by this value for a new box to be plotted. Minor changes are "ignored".</p> <div> <p>Example:</p> <p>Box size 5: The price must rise (fall) 5 points above (or below) the price of the last box for the next "X" (or "O") to appear.</p> </div>

Element	Description																						
Box scaling type	<p>Select the required order Box scaling here. The following types are available:</p> <ul style="list-style-type: none"> Automatic (Default) Custom Percentage Traditional ATR <p>Details to the "Traditional" type</p>  <p>This method uses a predefined table with price ranges to define the box sizes.</p> <table border="1"> <thead> <tr> <th>Price range</th><th>Box size</th></tr> </thead> <tbody> <tr> <td>up to 0,25</td><td>0.06</td></tr> <tr> <td>0.25 to 1.00</td><td>0.13</td></tr> <tr> <td>1.00 to 5.00</td><td>0.25</td></tr> <tr> <td>5.00 to 20.00</td><td>0.50</td></tr> <tr> <td>20.00 to 100</td><td>1.00</td></tr> <tr> <td>100 to 200</td><td>2.00</td></tr> <tr> <td>200 to 500</td><td>4.00</td></tr> <tr> <td>500 to 1,000</td><td>5.00</td></tr> <tr> <td>1,000 to 25,000</td><td>50.00</td></tr> <tr> <td>from 25,000</td><td>500.00</td></tr> </tbody> </table> <p>Details to the "ATR" type</p>	Price range	Box size	up to 0,25	0.06	0.25 to 1.00	0.13	1.00 to 5.00	0.25	5.00 to 20.00	0.50	20.00 to 100	1.00	100 to 200	2.00	200 to 500	4.00	500 to 1,000	5.00	1,000 to 25,000	50.00	from 25,000	500.00
Price range	Box size																						
up to 0,25	0.06																						
0.25 to 1.00	0.13																						
1.00 to 5.00	0.25																						
5.00 to 20.00	0.50																						
20.00 to 100	1.00																						
100 to 200	2.00																						
200 to 500	4.00																						
500 to 1,000	5.00																						
1,000 to 25,000	50.00																						
from 25,000	500.00																						

Element	Description
	 <p>This box scaling type is based on the daily "Average True Range (ATR)". The Average True Range (ATR) is a measure for the volatility of a security. A higher ATR value causes greater boxes. The dynamical scaling (ATR) estimates the Average True Range for a security in the period to define the box sizes. The default period for the ATR is 20 days.</p>
Reversal amount	<p>Enter the relevant reversal amount.</p> <p>The default setting is the reversal amount "3".</p> <p>This value defines how many boxes the security must produce in the reverse direction to produce a "reverse column".</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>Example:</p> <p>Box size 5 and reversal amount 3: The price must run 3 boxes (or 15 points) against the current direction to create a reverse column.</p> </div> <p>Box size and reversal amount are also shown in the legend for the point & figure charts.</p>
Month view	<p>This display is deactivated by default; when activated, the following month abbreviations are displayed for the start of each month (instead of "X" or "O"):</p>
Code	Month
1	January
2	February
3	March

Code	Month
4	April
5	May
6	June
7	July
8	August
9	September
A	October
B	November
C	December

Advantages of this chart type

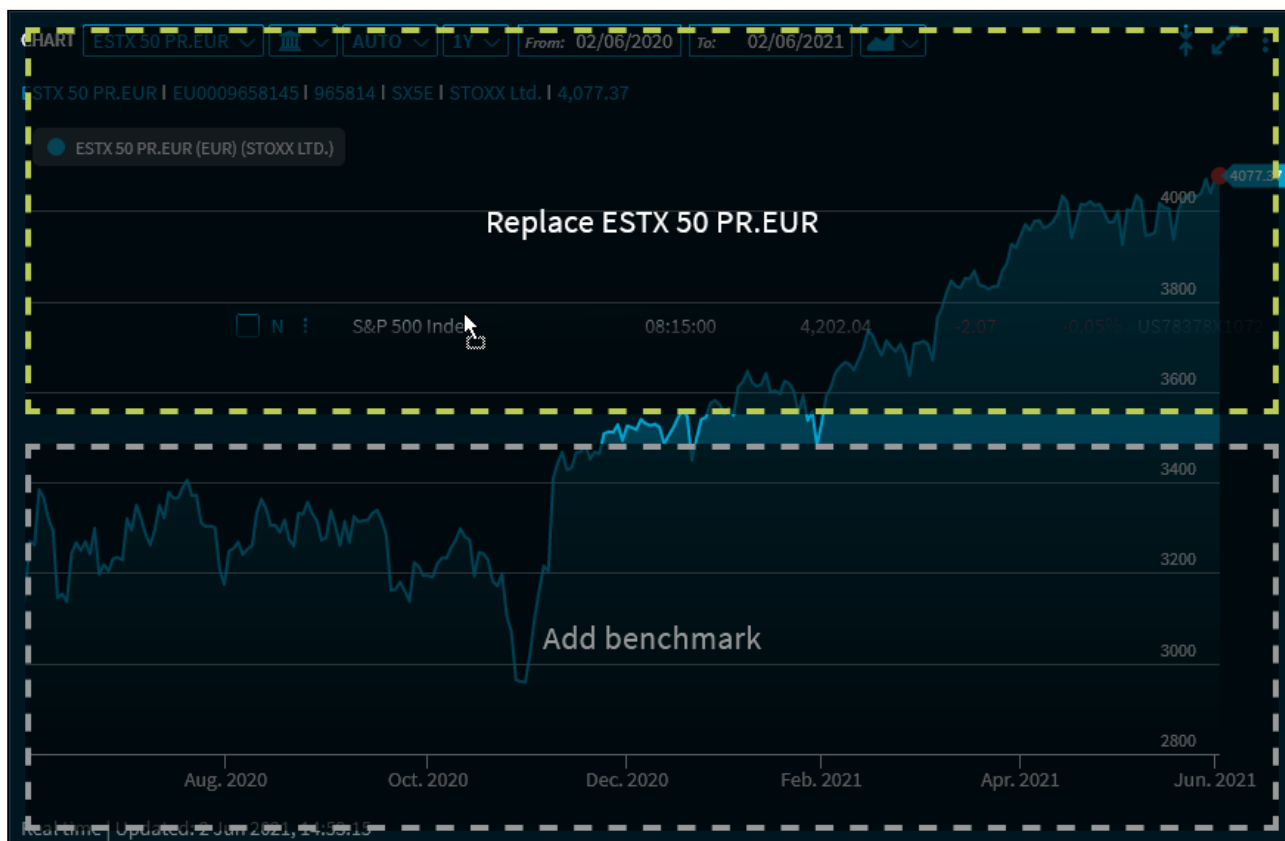
- Small price movements are not shown in the chart and thus facilitate the analysis
- Patterns can be recognised more easily because time is not displayed visually
- Drawing support and resistance lines is relatively simple
- Trend lines are easy to recognise



To switch to this chart type, select the "Point & figure" chart from the drop-down list again.

5.14.2 Drag security to chart

When you drag a security from another chart, for example from a watchlist, and drop it to the "Chart" widget, you have two options:

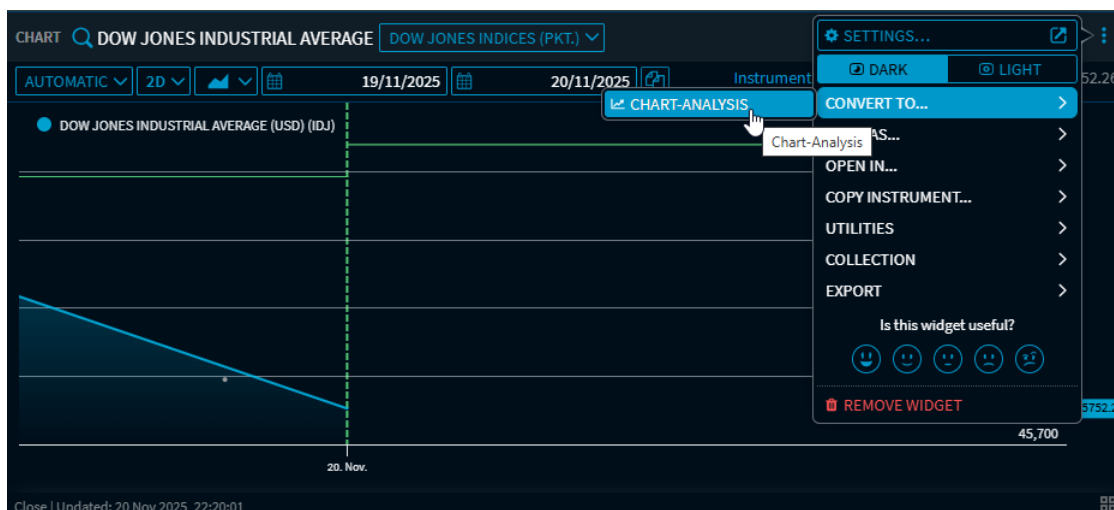


- To replace the security in the chart, drag the new security to the top area of the chart window.
- To use the new security as a comparison value or benchmark, drag it to the lower area of the chart window. With the corresponding permission, you can display up to 3 different benchmarks in one chart. Already specified benchmarks might be replaced.
- You can remove displayed benchmarks from the legend: Point to the legend entry you want to remove. This displays a remove icon behind it, which you can use to quickly remove this chart line.

5.14.3 Convert "Chart" widget to "Chart Analysis" widget

It is possible to convert an existing "Chart" widget into a "Chart Analysis" widget. This allows you to use the advanced analysis functions of Chart Analysis and apply the existing settings.

You can find the corresponding command in the widget menu:




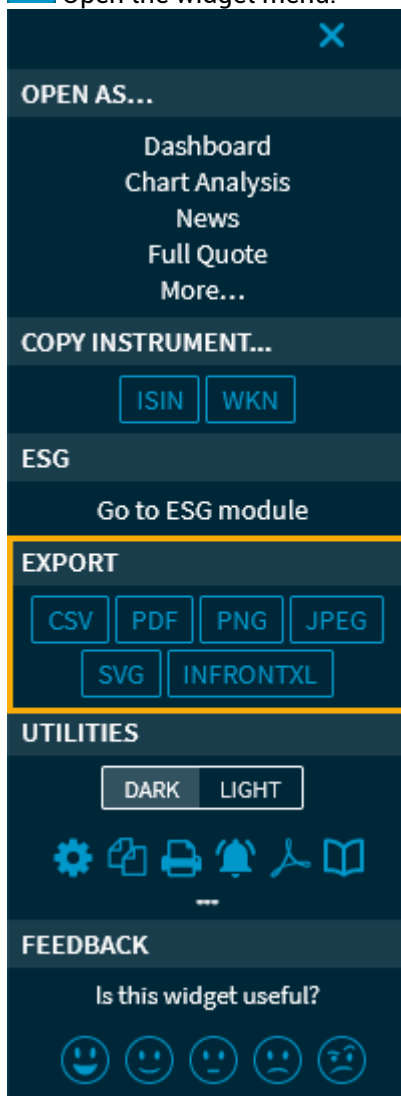
5.14.4 Export charts

You can export charts as images from the widgets "Chart", "Chart Analysis", "Fund Comparison", "Certificate Comparison" and "Volatility Chart". The following export formats are available:

- CSV
- PDF
- PNG
- JPEG
- SVG
- INFRONTXL (with licensed Excel Add-In)

To export charts as graphics:

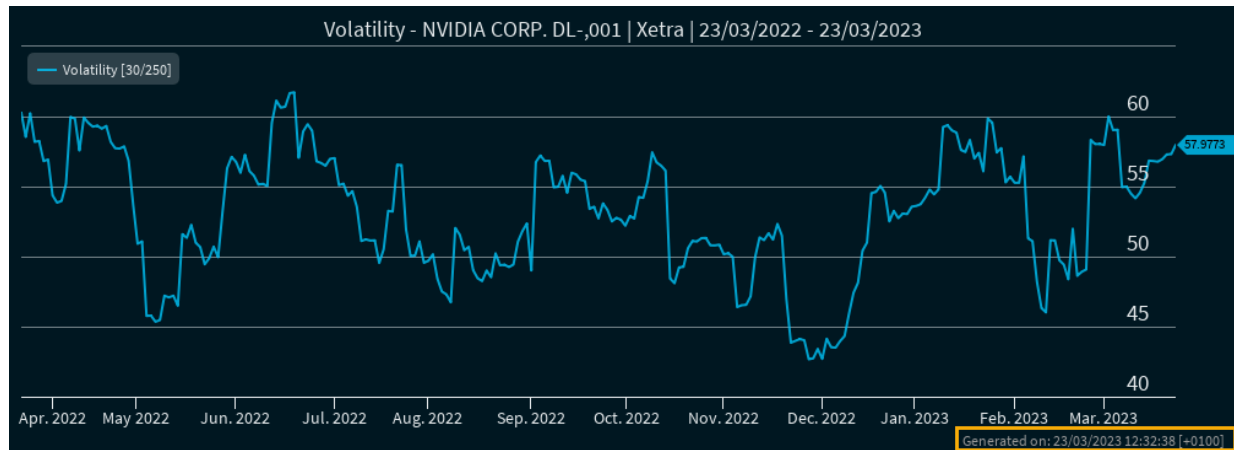
1. Open the corresponding private dashboard with the widget or open a "Chart" widget from the [Widget Gallery](#).
2.  Open the widget menu.



3. In the "Export" section of the menu, click one of the buttons, for example, "PNG".
You can save the exported graphic or edit it in your graphics editing program. Likewise, you can open exported PDF files directly in a PDF viewer. The exported files receive a timestamp with the date and

time of the export. PDF files can also display the logos, headers and footers configured for printing. For more information, see [Configure print layout](#).

Example: Volatility chart exported as PNG graphic



5.14.5 Settings in the "Chart" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

General

Chart line and ordinate

Advanced

Periods

GENERAL SETTINGS

Push: ☒ ENABLED

Show axis grid: ☐ VERTICAL ☒ HORIZONTAL

Legend: ☒ ENABLED

Show quote information: ☒ IN LEGEND ☐ IN TOOLTIP

Last closing price: ☒ ENABLED

Show last values: ☒ ENABLED

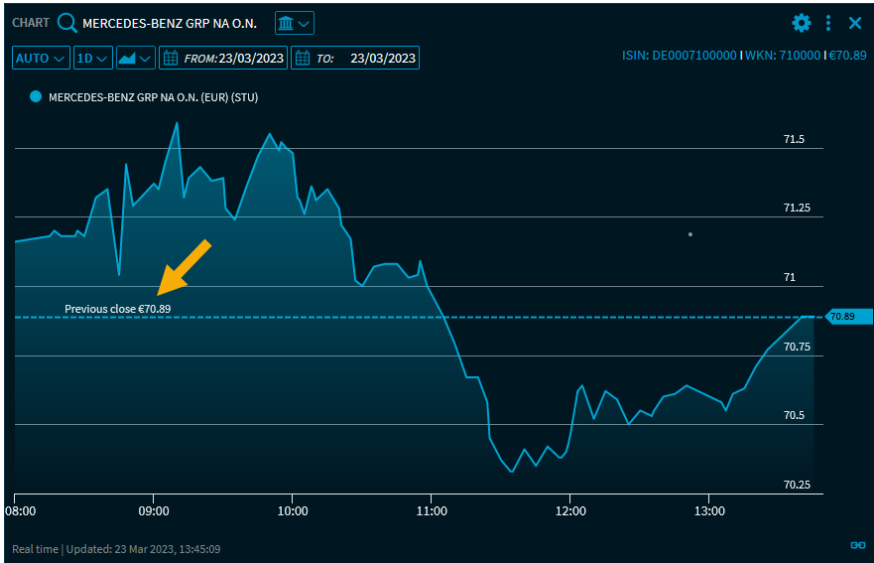
SAVE

Configure your chart. The various setting options are clearly grouped into several areas, which you can select on the left side:

- General
- Chart line and ordinate
- Advanced
- Period


General settings

Field	Description
Push	To turn off the push data feed, clear this checkbox.
Show grid	Enable the desired settings for vertical and horizontal lines here. By default, only the horizontal grid lines are displayed in the chart.
Legend	Clear this checkbox to hide the legend shown by default on the upper left side of the chart.

Field	Description
Show prices	<p>Select the setting for the price display in the chart here.</p> <p>By default, the price is displayed when pointing to the chart lines to the right of the respective legend entries.</p> <p>Select the "In tooltip" checkbox to display the prices directly at the mouse pointer as tooltip.</p>
Last closing price	<p>If this checkbox is selected, then the closing price of the previous day is displayed as a horizontal line in intraday charts:</p> <div> <p>Chart with displayed previous day's close</p>  <p>The chart displays the intraday price movement of Mercedes-Benz Group AG (STU) on March 23, 2023. A horizontal dashed line at the price level of €70.89 represents the previous day's closing price. A yellow arrow points to this line, which is labeled 'Previous close €70.89'. The current price at the end of the displayed period is €70.89. The chart includes a legend for 'MERCEDES-BENZ GRP NA O.N. (EUR) (STU)' and various chart controls at the top.</p> </div>
Show last values	<p>Clear this checkbox to turn off the default display of current prices on the right side of the chart.</p>


Settings for chart line and ordinate settings

Field	Description
Intraday price type	<p>Select the price type here. The following options are available:</p> <ul style="list-style-type: none"> • Automatic (default setting) • Last price • Bid/Ask <p>The default "Automatic" setting tries to use the optimal setting. For many securities, this is the last price. However, for a derivative with its issuer trading venue is selected only bid and ask prices are available in the short-term range ("1 hour" to "1 week"). The intraday charts are also automatically calculated from these value. When you switch to larger periods, an automatic adjustment takes place.</p> <div> <p>Chart with the "Bid/Ask" intraday price type</p>  </div>
Include actions corporate	<p>By default, corporate actions are taken into account in the chart display for the selected instrument. To change this setting, clear this checkbox.</p> <p>Correction factors largely play a role in insuring the comparability of prices. If this option is disabled, meaningful comparisons become considerably more difficult.</p>
Include dividends (alters hist. quotes)	<p>By default, dividends are taken into account in the chart. To change this setting, clear this checkbox. Please note that this alters the historical prices.</p> <p>For funds, the label of this field changes to "Include distributions (changes hist. prices)".</p> <p>If the "BVI performance" setting is enabled, then the value "enabled (BVI performance)" is automatically set for this field.</p>

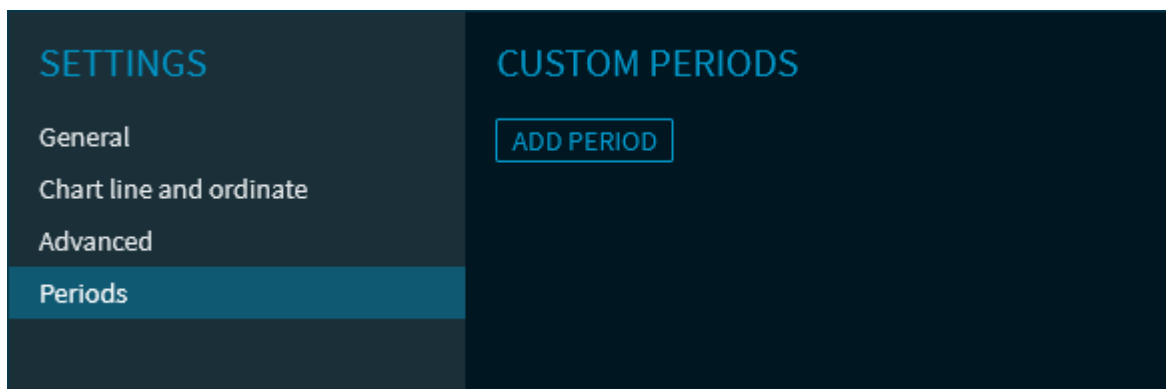
Field	Description
BVI performance	<p>Select this checkbox to consider the security BVI performance.</p> <p>In this case, the settings of the fields "Ordinate" ("relative (BVI performance)") and "Include dividends" ("enabled (BVI performance)") are automatically adjusted.</p>
Ordinate - type	<p>Use this drop-down list to specify how to display the values of the ordinate.</p> <p>By default,  <code>Unknown macro: 'im-prod-name'</code> automatically decides which setting is appropriate. The following choices are available:</p> <ul style="list-style-type: none"> • Automatic • Absolute • Relative <p>If the "BVI performance" setting is active, then the value "relative (BVI performance)" is automatically set for this "Ordinate" field.</p>
Ordinate - position	<p>By default, the ordinates are displayed on the right. Clear this checkbox to display the y-axis values on the left side.</p>
Ordinate - chart canvas	<p>By default, the ordinates are displayed in the chart window. Select this checkbox to display the y-axis values outside of the chart.</p>
Highlight chart line	<p>Select this checkbox to switch on the "highlighting" of the chart lines (when pointing to the lines in the chart or in the legend).</p> <p>This setting is disabled by default.</p>

Advanced settings

Field	Description
MA period	<p>Select the "enabled" checkbox to show the moving average (MA) in the chart. Use the input field to enter the analysis period for the MA.</p> <p>When you save the settings, the MA is shown as an additional time series in the chart.</p> <p>The default setting for the first MA is 38 days.</p>
MA period 2	<p>Select the "enabled" checkbox to show another moving average (MA) in the chart. Use the input field to enter the analysis period for the MA.</p> <p>When you save the settings, the MA is shown as an additional time series in the chart.</p> <p>The default setting for the second MA is 200 days.</p>

Field	Description
Show underlying	By default, the available underlying values of derivatives are displayed in the chart. Clear this checkbox to hide these.
Volume	Select the "enabled" checkbox to show the volumes in the chart. The volumes are shown as a histogram at the bottom of the chart after you save the settings.
Benchmark	<p>Select a benchmark for the security selected. Open the drop-down list and search for the corresponding reference security.</p> <p>When you save the settings, the benchmark is shown as an additional time series in the chart. It is then automatically switched to the percentage display (base 100%).</p> <div>  You can also drag a security to the "Chart" widget to show it as a benchmark. If there was already a benchmark in the target widget, then it is replaced by the new benchmark. See also Drag security to chart. </div> <p>Click the "Remove" button visible after selecting a comparison value to remove a selected benchmark.</p>

"Periods" settings



In this section of the settings, you can define individual, custom display periods for your charts. To do this, follow these steps:

1. On the left side of the "Settings" dialogue window, select the "Periods" area.
2. Click the "Add period" button.
3. Enter the relevant name for the first custom period in the "Name" input field.
4. Then click the "Settings" button for this period.
5. Configure the new time period. The table below contains descriptions of the individual setting options.
6. Then click the "Save" button. (Use the "Back" button to exit the settings for the period without saving any changes you may have made).

7. If you want to add further columns, then select the "Add period" button in the "Periods" area and proceed in the same way.

You can delete your own time periods by clicking the respective "Delete" buttons.

The settings of the custom time periods in detail:

General	
Field	Description
Name	<p>Enter the relevant name for the period here.</p> <p>You can freely define the name of a period - or leave it blank for the time being and use the automatic name generation. The name of the column is then automatically generated by the system according to the time periods you set. The name of the period can be changed later.</p>
Automatic naming	<p>Select this setting to automatically generate the name of the period. The name is generate depending on the time periods and start and end times set below.</p>
Selected period	<p>Here, you can see the always updated period resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year

Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>
Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>

Relative period starting from the end date

Here, you can set the date to the desired end time relative to a date in the past.

To do this, select this checkbox and first select an end date from the upper list. The following entries are available:

- End of the current week
- End of the current month
- End of the current quarter
- End of the current the year
- End of the previous week
- End of the previous month
- End of the previous quarter
- End of the previous year

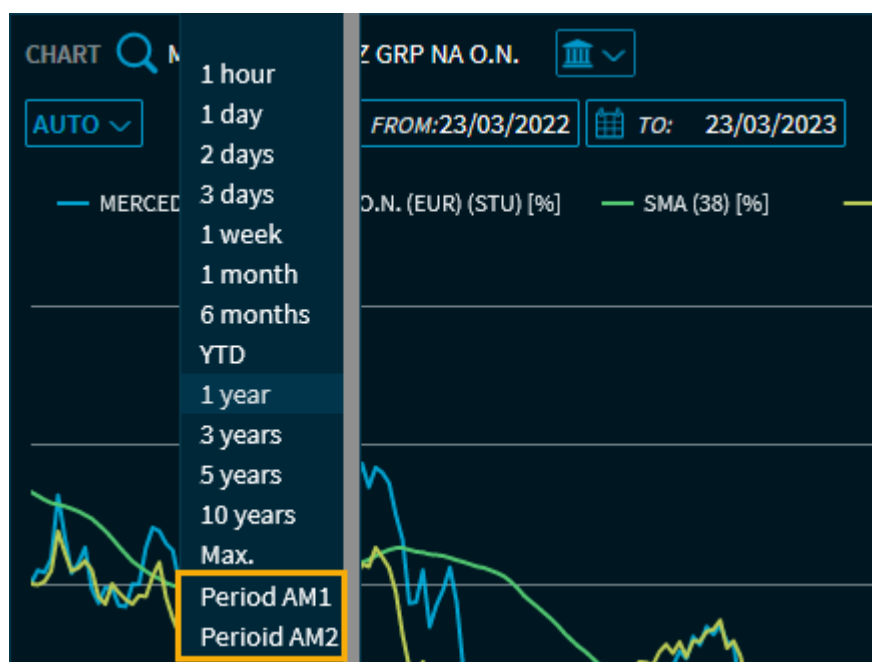
You can then select the period and enter the corresponding number in the input field. The following periods are available:

- Days
- Weeks
- Months
- Quarters
- Years

Example

In August 2021, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2021".

The defined and saved time periods are then available for selection in the widget in the drop-down list of time periods. The user-defined periods are added at the bottom of the drop-down list.



Operating elements

Element	Description
"Save" button	Closes the "Settings" dialogue window and saves the changes.

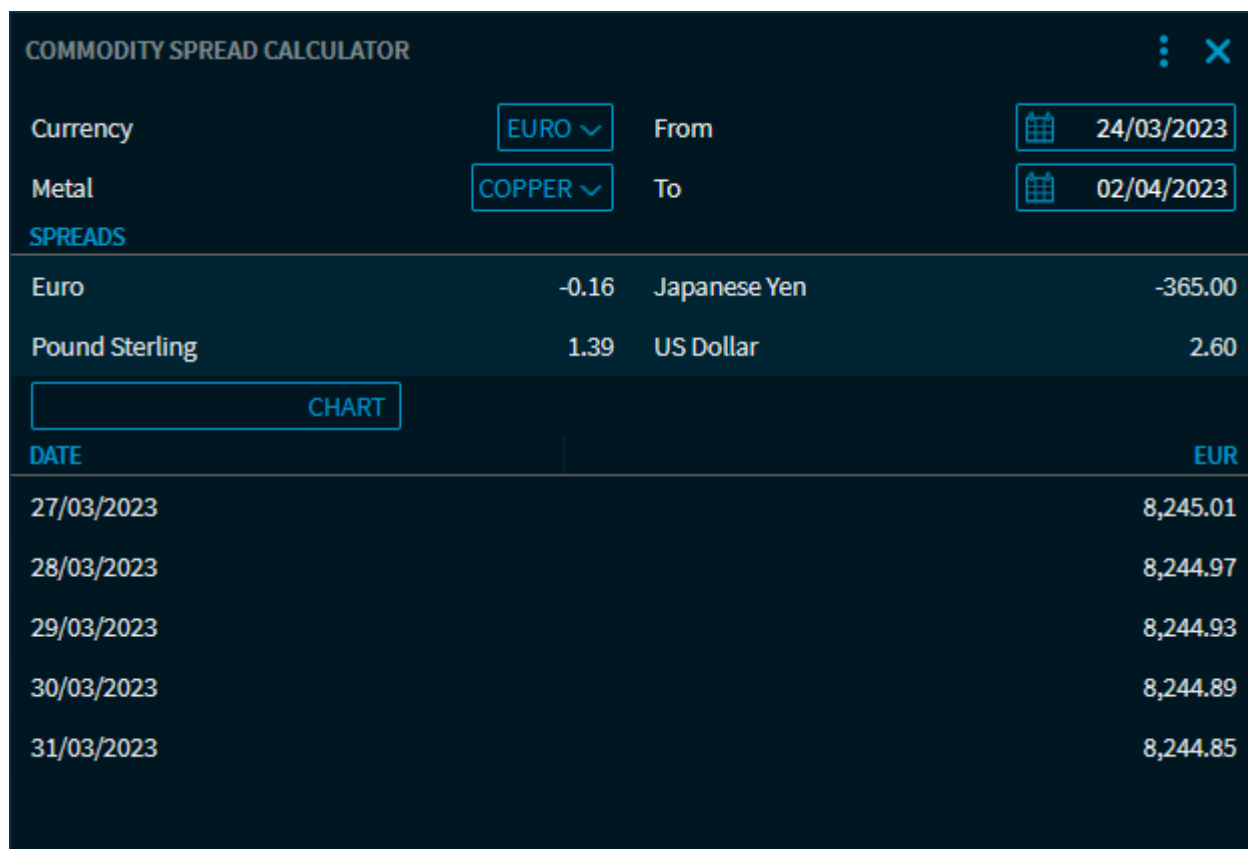
Example: Mountain chart with displayed volumes, benchmark "DAX" and MA38:



For more information about the widget settings, see [Commands in the widget menu](#).

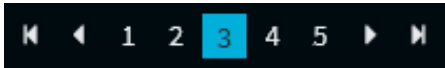
5.15 Commodity Spread Calculator

With the Commodity Spread Calculator, you can calculate the spreads of commodities.



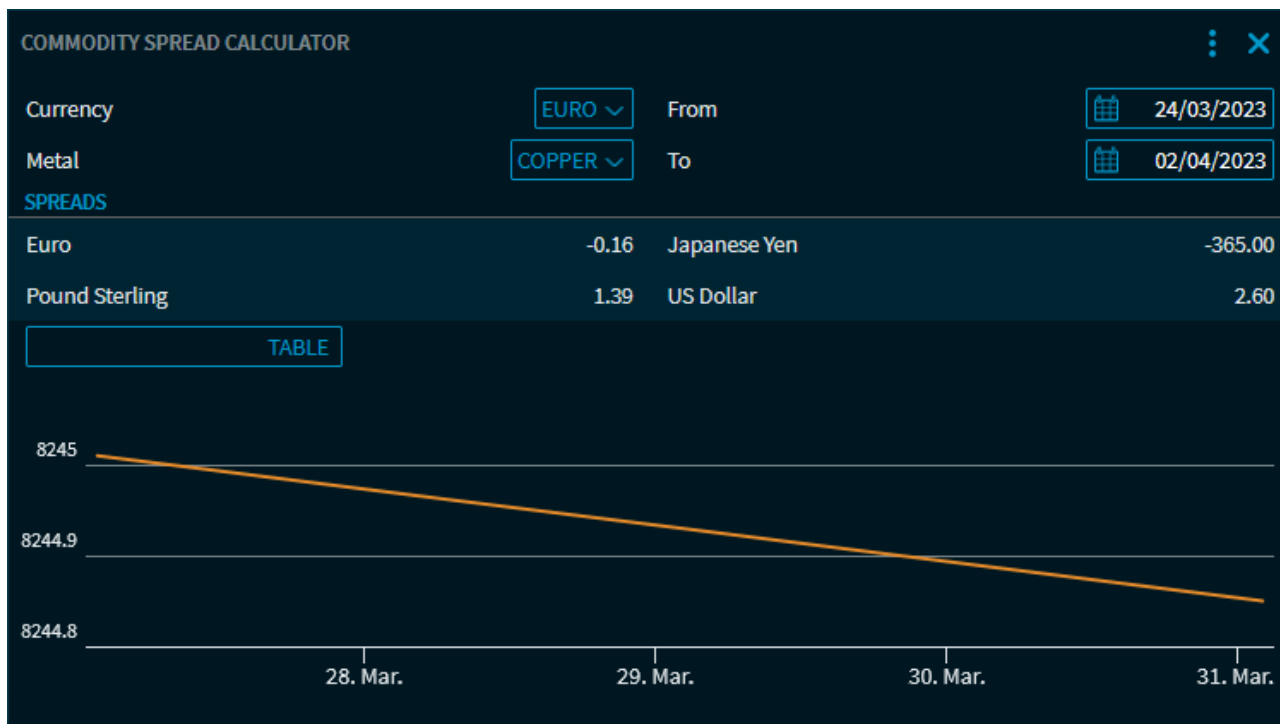
You find the following functions and columns in the "Commodity Spread Calculator" widget:

Field	Description
Select currency	Select a currency from the drop-down list.
Select metal	Select a commodity from this drop-down list: The following commodities are available: <ul style="list-style-type: none"> Copper (default) Aluminium Zinc Nickel Lead Tin Aluminium alloy NASAAC (North American special aluminium alloy)
From	Use the integrated calendar to select the start date for the calculation.
To	Use the integrated calendar to select the end date for the calculation.

Field	Description
Spread	The value of the calculated spread in the following currencies: <ul style="list-style-type: none"> • Pound Sterling • Euro • Japanese Yen • US Dollar
"Chart" or "Table" button	Select either the table view (default) or chart view.
"Date" column	The days are listed according to the calculation period, starting with the date 2 days after the date selected in the "From" field. If the specified calculation period is over 10 days, then the results are listed on multiple pages. 
Amount in currency	For each date, this column shows the price in the currency selected.

5.15.1 "Chart" view in the Commodity Spread Calculator

Click the "Chart" button to switch from the default table view to the chart view.



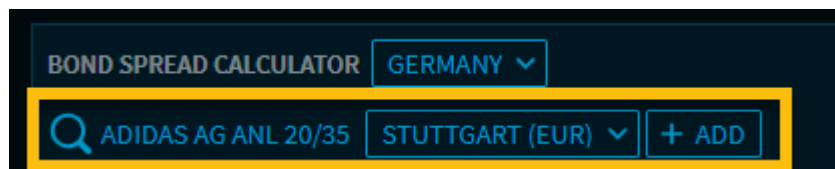
Click the "Table" button to return to the table view.

5.16 Bond Spread Calculator

With the Bond Spread Calculator, you can compare the credit spreads of bonds.



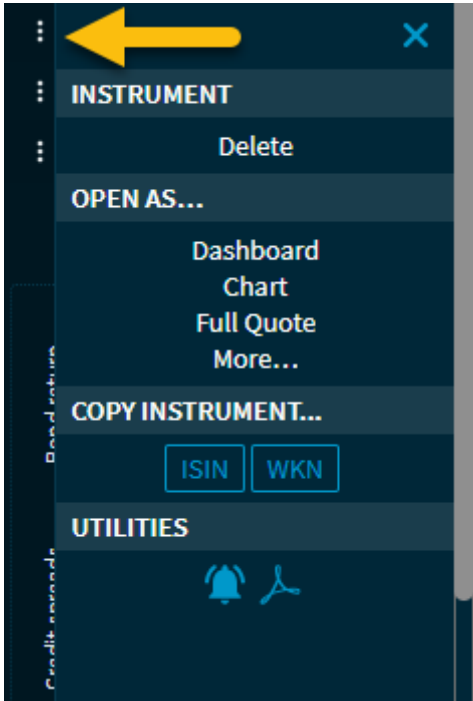
Use the integrated quick search to search and select a bond. To do this, select the search icon, search for the bond at the desired trading place and then select the "Add" button that is now visible.



Alternatively, you can also drag the bonds from other widgets (for example, from a [Watchlist](#)) to the calculator. From the drop-down list in the upper part of the widget, select the country whose government bonds you want to set as a "risk-free" investment for comparison.

You find the following functions and columns in the "Bond Spread Calculator" widget:

Field	Description
Select country	Use this upper selection list to choose a country for the government bonds as benchmarks.
Search icon ("magnifying glass")	Use this icon to search for the bonds you want to analyse.
"Trading venues" drop-down list	Select the relevant trading venue for the to add bond fixing from the drop-down list.
"Add" button	Click this button to add the bond.

Field	Description
"Menu" icon	<p>The familiar menu is available via the menu icon on the left of each line. You can also use this menu to remove the respective bond from the widget again ("Delete" command in the "Instrument" area).</p> 
Instrument	<p>Click in this table cell to start the search for a bond. After you selected a bond, this field shows the ticker of the bond.</p> <p>To replace the currently selected bond, click in the field again.</p>
Name	<p>The security name of the bond.</p> <p>To enter a security name manually or replace the current value, click in this field and overwrite the name.</p>
Maturity date	<p>The date when the bond matures.</p> <p>To enter the maturity date manually, click in this field and use the integrated calendar to specify the date.</p>
Yield	<p>The yield of the bond.</p> <p>To enter the yield manually or change the current value, click in this field and overwrite the value.</p>

Field	Description
Method	<p>The calculation method of the day count convention.</p> <p>To assign a different day count convention, click in this field and select the corresponding method from the list.</p> <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/360 • ISMA (ACT/ACT) • ISMA 30E/360
Gov. annual return	<p>The yield of the government bond of the country selected according to the day count convention (method) specified.</p> <p>You can change the country from the drop-down list in the upper part of the widget.</p>
Credit spreads	<p>The credit spread of the bond according to the day count convention (method) specified.</p> <p>The yield of the bond is compared to the "risk-free" government bonds with the same time to maturity.</p>

5.17 Knock-Out Map

The "Knock-Out Map" widget shows a grid of tiles, where each tile represents a knock-out certificate. The grid is defined by various pay-off types on the x-axis and knock-out levels on the y-axis. Point to a tile to learn more about a knock-out.

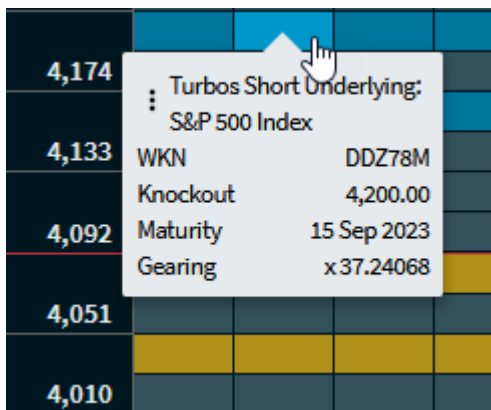
At the top of the widget, select the underlying and the issuer of the knock-outs. The currency of the underlying is shown above the graphic (in the figure, you see the DAX in "points").



If there are no knock-outs for a selected instrument, then a corresponding message is shown in the widget. The drop-down list is hidden in these cases. Only those issuers offering knock-outs for this underlying are shown.



Point to one of the coloured rectangles in the knock-out map to view details about the knock-out. Here, short certificates are shown in blue and long certificates in yellow.



Information in the tooltips



Menu icon

In this menu, you find the familiar commands for opening the corresponding certificate in other widgets. For more information, see [Commands in the widget menu](#).

- Knock-out type
- Underlying
- WKN
- Knock-out barrier
- Maturity date
- Leverage

In the settings of the widget, you can select the type to be displayed in the columns of the knock-out map.

See also:

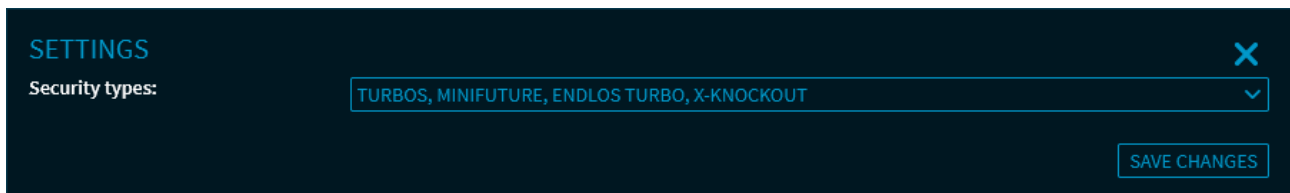
- [Settings in the "Knock-Out Map" widget](#)

5.17.1 Settings in the "Knock-Out Map" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here, you can select the certificate types displayed in the "Knock-Out Map" widget. The following types are available in the drop-down list:







- Alpha knock-out
- Day turbo
- Open end turbo
- Leveraged certificate
- Mini turbo
- Rolling knock-out
- Smart knock-out
- Straight forward dealing
- Turbo
- Warrant with knock-out
- X-Knock-out
- ...

For more information about the widget settings, see [Commands in the widget menu](#).

5.18 Time and Sales

The "Time & Sales" widget shows a table with exact historical "paid" prices, tick data as well as bid and ask prices including the volumes for the corresponding security.

If you have selected a security via the integrated quick search and the drop-down list for the available trading venues, you will first see the price data for this security in the last month in the standard view.

TIME & SALES  MERCEDES-BENZ GRP NA O.N. STUTTGART (EUR) ▾ TRADE ▾								  	
 From: 22/02/2023		 To: 22/03/2023		TODAY					
DATE		CLOSE	VOLUME (QTY)	OPEN	HIGH	LOW	TRADES		
22/03/2023		71.55	8,417	70.66	71.61	70.51	98		
21/03/2023		70.62	37,475	70.00	71.21	69.54	290		
20/03/2023		69.37	67,250	68.30	69.57	67.04	369		
17/03/2023		69.42	29,853	71.29	71.29	68.39	316		
16/03/2023		70.87	39,314	71.59	71.59	68.90	325		
15/03/2023		71.09	50,741	73.08	73.17	69.79	332		
14/03/2023		72.81	42,131	72.00	72.96	71.36	297		
13/03/2023		72.00	49,290	74.50	74.50	71.53	322		
10/03/2023		73.29	28,686	73.59	74.18	72.43	264		
09/03/2023		73.95	22,606	75.18	75.75	73.73	236		
08/03/2023		75.36	20,430	75.07	75.73	75.00	245		
07/03/2023		75.11	29,391	75.90	75.90	74.96	255		
06/03/2023		75.55	40,997	75.61	75.90	75.28	268		
03/03/2023		75.28	51,183	73.90	75.83	73.52	298		
02/03/2023		73.82	21,138	73.06	73.85	72.27	236		
01/03/2023		73.30	17,137	73.00	74.05	72.88	210		
28/02/2023		72.81	23,654	72.43	73.54	71.76	204		
27/02/2023		72.57	13,792	71.98	72.90	71.98	210		
24/02/2023		72.17	42,753	74.41	74.53	71.83	276		
23/02/2023		74.48	20,229	74.42	74.84	74.07	220		
22/02/2023		74.18	25,666	74.15	74.34	73.52	228		

* Maximum valid period is 7 days (in the last 100 days)
Real time | Updated: 22 Mar 2023, 12:46:04

In addition to the standard "Trade" view, you can also switch to the "Bid & ask" view via the drop-down list at the top right.

See also:

- ["Trade" view in Time and Sales](#)
- ["Bid and Ask" view in Time and Sales](#)
- [Settings in the "Time and Sales" widget](#)

5.18.1 "Trade" view in Time and Sales

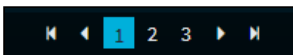
The "Trade" view is the default view of the "Time & Sales" widget.

TIME & SALES Q MERCEDES-BENZ GRP NA O.N. XETRA (EUR) TRADE							
From: 03/04/2023		To: 02/05/2023		TODAY			
DATE	CLOSE	VOLUME (QTY)	OPEN	HIGH	LOW	TRADES	
02/05/2023	70.12	886,282	71.20	71.55	69.71	2,178	
28/04/2023	70.58	4,484,728	70.92	71.31	68.35	8,982	
27/04/2023	70.06	2,705,371	70.25	71.06	69.66	6,111	
26/04/2023	70.06	2,142,624	69.75	70.15	69.10	4,922	
25/04/2023	69.76	1,999,732	69.89	70.15	69.38	4,712	
24/04/2023	69.89	1,951,192	69.48	70.15	69.10	4,813	
21/04/2023	69.21	4,225,379	69.60	70.19	68.31	8,671	
20/04/2023	68.23	4,028,108	70.30	70.30	67.95	8,958	
19/04/2023	70.61	2,085,092	70.13	70.61	69.56	4,053	
18/04/2023	70.17	2,710,343	69.56	70.25	69.42	4,680	
17/04/2023	69.25	2,327,453	70.83	70.91	69.13	6,184	
14/04/2023	70.41	2,395,044	69.96	70.80	69.79	4,781	
13/04/2023	69.79	1,775,861	69.40	70.18	69.13	3,591	
12/04/2023	69.34	1,908,900	68.99	70.28	68.90	5,084	
11/04/2023	68.88	2,426,205	68.70	69.58	68.42	5,509	
06/04/2023	67.82	2,315,647	68.47	68.55	67.40	6,259	
05/04/2023	68.43	3,353,837	70.69	70.83	68.23	6,450	
04/04/2023	70.44	2,383,401	70.69	71.24	70.36	6,079	
03/04/2023	70.41	3,460,153	70.81	70.93	70.05	5,680	

* Maximum valid period is 7 days (in the last 100 days)
Real time | Updated: 2 May 2023, 10:30:56

The "Time & Sales" widget in the default view provides the following functions and data:

Field	Description
"Security" selection	Use the integrated quick search to search and select an security. Alternatively, you can add a (new) security by dragging it from securities lists to the "Time & Sales" widget.
Select trading venue	Use the drop-down list to select a trading venue.
"View" selection	By using the view drop-down list, you can switch to the "Trade" view described here or to the "Bid & Ask" view .
"From:" date field	Use the calendar in this field to select the start date to be displayed. You can go back in time up to 100 days. The standard setting is the trading day of the previous month corresponding to the current day public holidays are taken into account, for example, October 5 to November 5.
"To:" date filed	Use the calendar in this field to select the end date to be displayed. The current day is set by default.

Field	Description
"Today" button	Click this button to quickly switch the widget display to the current day's data.
"Date" column	<p>Date of the price dates. All trading days in the selected period are listed. Click an entry to move to the next level of aggregation and open the Time & Sales for that date.</p> <p>By default, the table is sorted by this column, that is, the most recent data appears at the top of the table. You can reverse the sorting order by clicking the column header again.</p>
"Close" column	The closing price of the security on that date on the selected trading venue.
"Volume (qty.)" column	The number of units traded on the selected trading venue on that date.
"Open" column	The opening price of the security on that date on the selected trading venue.
"High" column	The high of the security on that date on the selected trading venue.
"Low" column	The low of the security on that date on the selected trading venue.
"Trades " column	The number of trades on the selected trading venue on that date.
 Page navigation	The data is shown across several pages. Use the controls below the list to go through the pages.



You can show and hide the columns in the "Time & Sales" widget via the widget settings. See also the section [\(50-en\) Settings in the "Time](#).

Once you have selected a date by clicking it in the first column of the widget, the next level of aggregation up to the detailed view with the "Time & Sales" widget for the security opens for this date.

Aggregation levels:

- Trading days
- 30-minute intervals of the selected trading day
- Minute intervals
- Time & Sales

"30-minute intervals" aggregation level

If you have selected a trading day via the entry in the "Date" column, the following view appears:


TIME & SALES

DAIMLER AG NA O.N.

STUTTGART (EUR)

TRADE



In addition to the items described for the standard view, the "30-minute intervals" view includes the following functions and data:

Field	Description
 "Switch to previous aggregation" icon	Click this icon to return to the default view by trading days.
"Switch to this aggregation" command	The aggregation levels listed in the top right corner next to the "Switch to previous aggregation" icon are linked, so you can quickly switch them back and forth. In the "30-minute intervals" view, you can switch directly to the standard view by trading days.
"Time" column	30-minute intervals of the selected trading day. Listed are all intervals during the trading period. Click an entry to move to the next level of aggregation and open the Time & Sales for interval. By default, the table is sorted by this column, that is, the most recent interval appears at the top of the table. You can reverse the sorting order by clicking the column header again.


The values in the columns "Closing price", "Volume", "Opening price", "High", "Low" and "No. of trades" are shown in the table below.

"Minute intervals" aggregation level

Selecting a 30-minute interval via the entry in the "Time" column displays following view:

TIME & SALES DAIMLER AG NA O.N. ▾ STUTTGART (EUR) ▾ TRADE ▾							 
< 05/11/2021 - 05/11/2021 > 05/11/2021 > 15:00 - 15:30							
TIME ▾	CLOSE	VOLUME	OPEN	HIGH	LOW	TRADES	
15:30 - 15:31	87.59	0	87.59	87.59	87.59	1	
15:25 - 15:26	87.73	100	87.74	87.74	87.73	2	
15:24 - 15:25	87.70	100	87.70	87.70	87.70	1	
15:20 - 15:21	87.66	0	87.66	87.66	87.66	1	
15:18 - 15:19	87.66	400	87.64	87.66	87.64	2	
15:15 - 15:16	87.66	400	87.64	87.66	87.61	3	
15:10 - 15:11	87.64	0	87.64	87.64	87.64	1	
15:07 - 15:08	87.60	400	87.61	87.61	87.60	2	
15:05 - 15:06	87.64	20	87.64	87.64	87.64	2	
15:04 - 15:05	87.60	20	87.60	87.60	87.60	1	
15:00 - 15:01	87.43	0	87.43	87.43	87.43	1	
* Maximum valid period is 7 days (in the last 100 days) Real time Updated: 5 Nov 2021, 17:27:09							

In addition to the items described above, the "minute intervals" view includes the following functions and data:

Field	Description
 "Switch to previous aggregation" icon	Click this icon to return to the "30-minute intervals" view.
"Switch to this aggregation" command	The aggregation levels listed in the top right corner next to the "Switch to previous aggregation" icon are linked, so you can quickly switch them back and forth. In the "Minute intervals" view, you can switch directly to the default view by trading days or to the "30-minute intervals" view.
"Time" column	Minute intervals of the selected 30-minute interval. Click an entry to move to the next level of aggregation and open the Time & Sales for interval. By default, the table is sorted by this column, that is, the most recent interval appears at the top of the table. You can reverse the sorting order by clicking the column header again.


The values in the columns "Closing price", "Volume", "Opening price", "High", "Low" and "No. of trades" are shown in the table below. trades" refer here to the minute intervals.

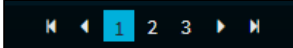
"Time & Sales" aggregation level:

Selecting a minute interval via the entry in the "Time" column displays following view:

TIME & SALES DAIMLER AG NA O.N. ▾ XETRA (EUR) ▾ TRADE ▾							
< 05/11/2021 - 05/11/2021 05/11/2021 15:30 - 16:00 15:52 - 15:53							
<input checked="" type="checkbox"/> Only trades							
VWAP 87.48 Volume 1 k							
TIME	PRICE	VOLUME	BID	ASK	B-SIZE	A-SIZE	HIGH/LOW
15:52:48	87.46	423	0.00	0.00	0	0	
15:52:48	87.45	27	0.00	0.00	0	0	L
15:52:45	87.47	18	0.00	0.00	0	0	
15:52:45	87.47	29	0.00	0.00	0	0	
15:52:35	87.47	143	0.00	0.00	0	0	
15:52:35	87.48	63	0.00	0.00	0	0	
15:52:35	87.49	297	0.00	0.00	0	0	
15:52:15	87.50	22	0.00	0.00	0	0	
15:52:02	87.51	110	0.00	0.00	0	0	H
<small>* Maximum valid period is 7 days (in the last 100 days) Real time Updated: 5 Nov 2021, 17:30:00</small>							

In addition to the items described above, the "Time & Sales" view includes the following functions and data:

Field	Description
"VWAP" field	The VWAP ("Volume Weighted Average Price") is shown across all trades in the selected period of the security on the trading venue selected.
"Volume" field	Shows the daily volume of the security at the trading venue selected.
 "Switch to previous aggregation" icon	Click this icon to return to the "Minute intervals" view.
"Switch to this aggregation" command	The aggregation levels listed in the top right corner next to the "Switch to previous aggregation" icon are linked, so you can quickly switch them back and forth. In the "Time & Sales" view, you can switch to all higher aggregation levels here.
"Only trades" switch	[Selected by default] Turning this switch to the left also displays changes in bid and ask prices. Turn the switch to the right to show only trades. With this setting, only the updated entries in the "Price" column are shown.

Field	Description
"Time" column	Time of the change in the Time & Sales. By default, the table is sorted by this column, that is, the most recent changes appear at the top of the table. You can reverse the sorting order by clicking the column header again.
"Price" column	The paid prices of the trade at this time.
"Volume" column	The quantity traded at the corresponding "paid" price.
"Bid" column	The bid price if it changed at this time.
"B-Amount" column	The quantity traded at the corresponding bid price.
"Ask" column	The ask price if it changed at this time.
"A-Amount" column	The quantity traded at the corresponding ask price.
"High/Low" column	If the price was a high or low at this time, then this is indicated by a corresponding symbol: <ul style="list-style-type: none"> • "H" for "High" • "L" for "Low"
 Page navigation	The time & sales are shown across several pages. Use the controls below the list to go through the pages.

5.18.2 "Bid and Ask" view in Time and Sales

In addition to the standard "Trade" view, this alternative "Bid & Ask" view is available. To do this, select the "Bid & Ask" entry in the view drop-down list.

TIME & SALES

NVIDIA CORP. DL-001

XETRA (EUR)

BID & ASK

From: 23/03/2023

To: 23/03/2023

From: 10:43

To: 11:00

VWAP 248.23

Volume (qty.) 859

Only trades

TIME	PRICE	VOLUME (QTY)	BID	ASK	B-SIZE	A-SIZE	HIGH/LOW
23/03/2023 10:57:09	248.50	49	0.00	0.00	0	0	
23/03/2023 10:55:25	248.35	10	0.00	0.00	0	0	
23/03/2023 10:52:22	248.55	27	0.00	0.00	0	0	
23/03/2023 10:52:12	248.55	10	0.00	0.00	0	0	H
23/03/2023 10:49:49	248.25	200	0.00	0.00	0	0	
23/03/2023 10:49:49	248.25	18	0.00	0.00	0	0	
23/03/2023 10:49:18	248.30	200	0.00	0.00	0	0	
23/03/2023 10:49:08	248.25	83	0.00	0.00	0	0	
23/03/2023 10:48:34	248.00	22	0.00	0.00	0	0	
23/03/2023 10:48:34	248.05	78	0.00	0.00	0	0	
23/03/2023 10:45:06	248.20	16	0.00	0.00	0	0	
23/03/2023 10:45:06	248.25	15	0.00	0.00	0	0	
23/03/2023 10:45:06	248.30	1	0.00	0.00	0	0	
23/03/2023 10:44:30	248.00	100	0.00	0.00	0	0	
23/03/2023 10:43:42	248.00	26	0.00	0.00	0	0	L
23/03/2023 10:43:42	248.05	4	0.00	0.00	0	0	

* Maximum valid period is 7 days (in the last 100 days)

Real time | Updated: 23 Mar 2023, 11:43:41

The elements and columns largely correspond to those previously described for the "Bid and Ask" view in Time and Sales - in particular, the columns correspond to the trade view on the "Time & Sales" aggregation level.

Above the table, in the "Bid & Ask" view, you will find the following input fields for the time interval to be displayed:

Field	Description
Date field "From:"	Use the calendar in this field to select the start date to be displayed. You can backdate up to 100 days here, but the maximum valid period is 7 days. The date in the "To:" field is then automatically adjusted here. The current day is set by default.
"To:" date field	Use the calendar in this field to select the end date to be displayed. The current day is set by default.
Time from:" field	Enter the relevant start time for the display in this field by using the integrated clock.
"Time until:" field	Enter the relevant end time for the display in this field by using the integrated clock.
"Only trades" switch	[Selected by default] Turning this switch to the left also displays changes in bid and ask prices. Turn the switch to the right to show only trades. With this setting, only the updated entries in the "Price" column are shown.



A maximum of 500 prices can be displayed in the widget.

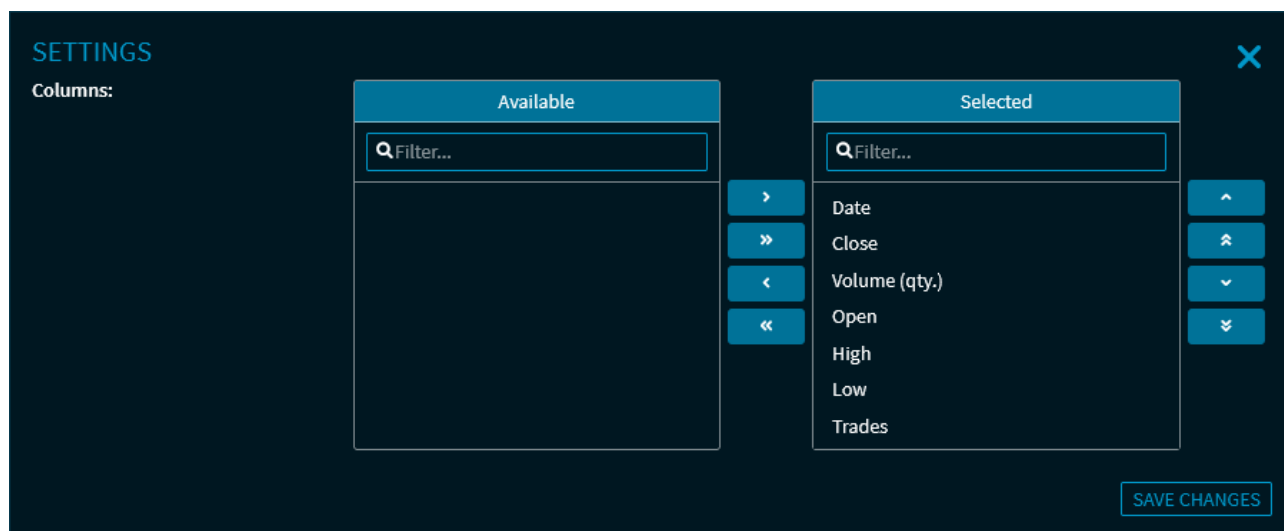
You can also show and hide the columns in the "Time & Sales" widget for this "Bid & Ask" view via the widget settings. See also the section [\(50-en\) Settings in the "Time"](#).

5.18.3 Settings in the "Time and Sales" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here you can show or hide the columns of the tables in the "Time & Sales" widget. For more information, see [Show and hide widget columns via the settings](#).

For more information about the widget settings, see [Commands in the widget menu](#).



The available columns in the settings dialogue window depend on the currently selected view in the "Time & Sales" widget.

In the image example above, you can see the columns of the "Trade" view. If you switch from the view "Money & Letter" to the settings, you can analogously show and hide the columns of this view (for example, "Ask", "Ask size", "Bid" and so on) and save these settings.

5.19 Derivative Matrix

The "Derivative Matrix" widget offers an overview of certificates and leveraged products arranged by issuer.

DERIVATIVE MATRIX																ISSUER		CERTIFICATES			
ISSUER	AIRBAG	BASKET	BONUS	DISCOUNT	EXPRESS	GUARAN...	INDEX	OUTPERF...	REVERSE...	COMMOD...	INDEXED...	OTHER	TOTAL								
Argentum Capital S.A.	0	0	0	--	0	0	1	0	0	0	0	0	2	3							
Bank Julius Bär	0	0	61	--	6	10	18	33	12	903	0	0	0	1,043							
Bank Sarasin	0	0	0	--	0	0	0	12	0	1	0	0	0	13							
Banque Cantonale Vaudoise	0	0	0	--	0	2	1	64	0	68	0	0	0	135							
Barclays Capital	0	0	0	--	0	14	7	0	0	0	1	0	22								
Basler Kantonalbank	0	0	0	--	7	2	0	1	0	314	0	0	0	324							
Bayerische Landesbank	0	0	0	--	0	36	4	0	0	0	0	0	41	81							
BNP Paribas	0	0	33,751	--	24,403	675	95	240	0	6,100	0	66	99	65,429							
CALYON Financial Products	0	0	0	--	0	0	6	0	0	0	0	0	0	6							
Citigroup	0	0	7,860	--	16,663	60	8	22	285	5	0	4	0	24,907							
CLEANBNB	0	0	0	--	0	0	0	0	0	0	0	1	1								
Credit Suisse	0	2	48	--	3	608	186	33	1	753	0	11	36	1,681							
DekaBank	0	0	52	--	23	1,208	12	0	0	247	0	35	499	2,076							
Deutsche Bank	7	0	1	--	0	67	54	28	5	0	0	0	33	195							
DZ BANK	0	53	26,134	--	30,383	2,404	133	60	0	8,098	4	111	42	67,422							
EFG Financial Products AG	0	2	0	--	0	60	5	6	3	152	0	0	6	234							
Erste Group Bank AG	0	0	297	--	0	87	146	31	0	35	0	0	34	630							
Goldman Sachs	0	1	26,985	--	15,870	146	59	41	0	10,824	0	3	5	53,934							

You see the number of certificates or leveraged products offered by the individual issuers for each derivative category. In addition, the "Derivative Matrix" widget also shows the total for each issuer (in the "Total" column) and for each certificate type (in the "Total" row). The sort and search functions allow you to find and display comprehensive information about the certificate market

In addition to the "Issuer" default setting (for the rows of the "Derivative Matrix" widget), you can select from further predefined matrices (list in the top left corner).

- Issuer (default)
- DAX
- Predefined indices
- Predefined commodities

From the second drop-down list, you can select between "Certificates" and "Leveraged products" (for the columns in the "Derivative Matrix" widget).

For certificates, the "Derivative Matrix" widget provides the following columns:

Column	Description
Issuer Default setting "Issuer" matrix	The first column of the matrix shown for the "Issuer" default setting. This column shows the most important issuers and certificates sorted alphabetically. You can reverse the sorting order by clicking the column header again.
Name Matrix "DAX"	The first column of the matrix with the "DAX" setting. In this column, you see the 30 DAX members sorted alphabetically. With this setting, the Derivative Matrix shows the certificates applied to the DAX members.

Column	Description
Name "Predefined indices" matrix	<p>The first column of the matrix shown for the "Predefined indices" setting.</p> <p>In this column, you find a selection of the most important equity indices:</p> <ul style="list-style-type: none"> • DAX • EURO STOXX 50 • NASDAQ 100 • NIKKEI • S&P 500 <p>With this setting, the Derivative Matrix shows the certificates based on this index.</p>
Name "Predefined commodities" matrix	<p>The first column of the matrix shown for the "Predefined commodities" setting.</p> <p>This column shows a selection of important commodity data, for example:</p> <ul style="list-style-type: none"> • Brent Crude Oil Future (ICE) • WTI Light Crude Oil Future • Gold • Silver • Aluminium • Copper <p>With this setting, the "Derivative Matrix" shows the certificates based on these commodities.</p>
Certificate types	<p>In the other column of the matrix, you find the individual certificate types, from "Airbag" to "Discount" to "Index bonds".</p>
Total	<p>This column shows the total number of certificates from the corresponding issuer. Depending on the setting, this can be the DAX member, index or commodity.</p> <p>The "Total" row shows the total number certificates of the corresponding certificate type.</p>

For leverage products, the "Derivative Matrix" contains the following columns:

Column	Description
Issuer or name	<p>The first column of the matrix depending on the setting selected (see table above).</p>
Leveraged product types	<p>In the other columns of the matrix, you find the individual types:</p> <ul style="list-style-type: none"> • Knock-outs • Warrants • Discount warrants • Other

Column	Description
Total	<p>This column shows the total number of leveraged products of the corresponding issuer. Depending on the setting, this can be the DAX member, index or commodity.</p> <p>The "Total" row shows the total number of the corresponding leveraged product.</p>



5.20 Performance Tile


With the "Performance Tile" widget, you can place compact widgets for your favourite securities on your dashboard. You see the name of the security, the trading venue, the current price as well as the relative and absolute performance of the security. The arrow illustrates the current price development. Point to the price information to show the corresponding price time. You can use the [Settings](#) at the bottom of the "Performance Tile" widget to permanently display the price date or the current price time and configure an individual period for the performance calculation.

The shown data is optimised for the available space (one, two or three columns). The chart is shown in the background of the widget.



If you point into the widget, the upper elements are displayed. In the upper left corner, you can search and select a (different) instrument. In addition to the widget menu icon, the icons in the upper right corner of the widget provide the following functions:

Field	Description
	Select a different trading venue from the icon drop-down list.
	<p>Select a different analysis period for the security from the icon drop-down list. The visible icon indicates the period currently selected:</p> <ul style="list-style-type: none"> • Performance today (icon shows "TD") • 1 week performance (icon shows "1W") • 1 month performance (icon shows "1M") • Performance year-to-date (icon shows "YTD") • 1 year performance (icon shows "1Y") • 3 year performance (icon shows "3Y") • 5 year performance (icon shows "5Y") <p>If you have defined individual time periods via the widget settings, these will be added to the drop-down list at the bottom.</p>

Field	Description
	<p>Clicking this icon opens the widget settings.</p> <p>If the widget is very small, this icon disappears. In these cases, however, the "Settings" command in the menu icon is available to you as an alternative at any time.</p>

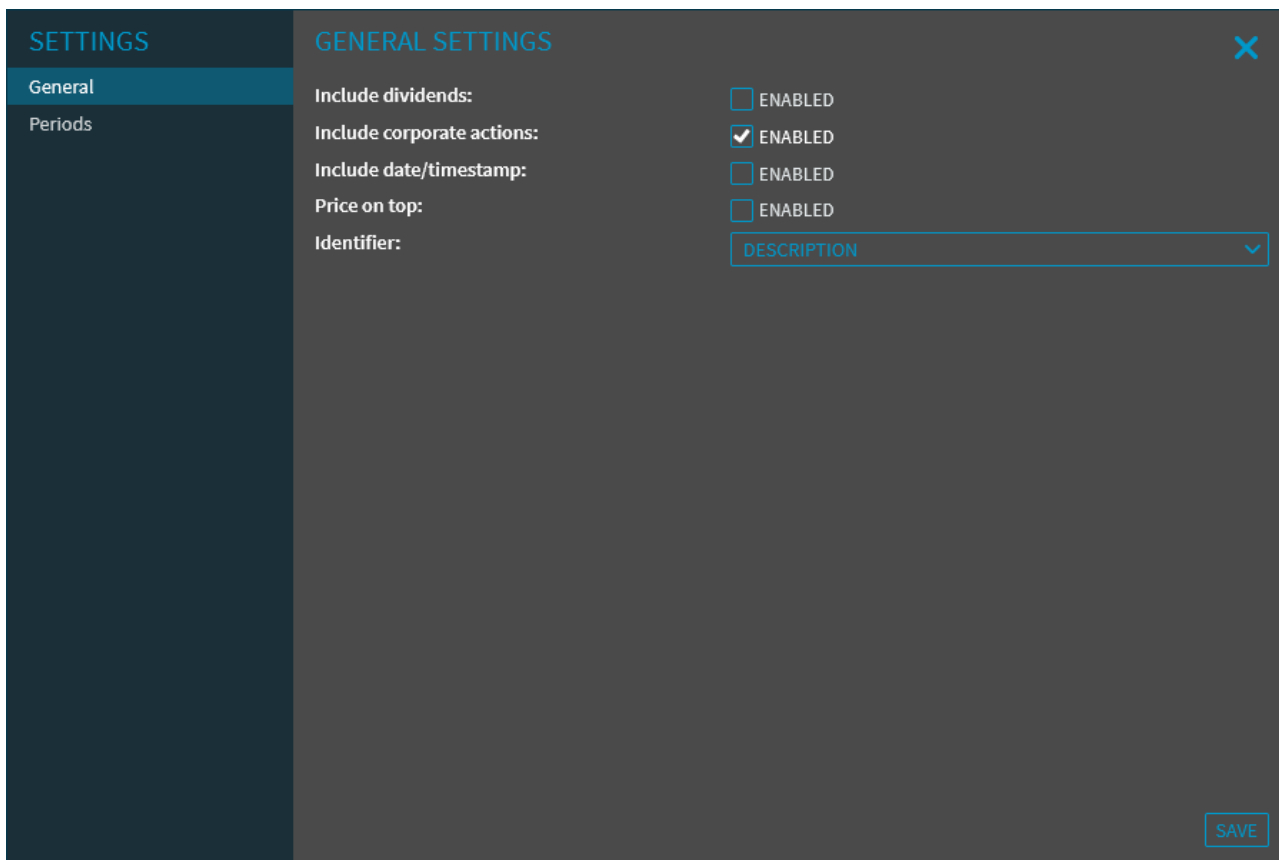
See also:

- [Settings in the "Performance Tile" widget](#)

5.20.1 Settings in the "Performance Tile" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.




SETTINGS	
General	GENERAL SETTINGS
Periods	
	Include dividends: <input type="checkbox"/> ENABLED
	Include corporate actions: <input checked="" type="checkbox"/> ENABLED
	Include date/timestamp: <input type="checkbox"/> ENABLED
	Price on top: <input type="checkbox"/> ENABLED
	Identifier: DESCRIPTION
	SAVE

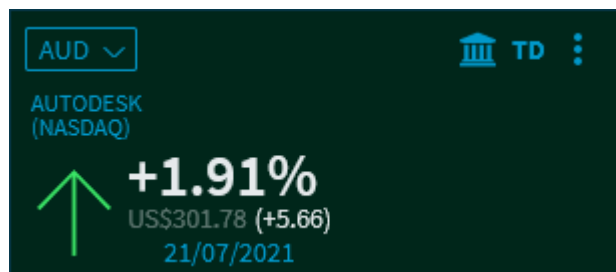
In the "Settings" dialogue window, you can first select the area on the left side for which you want to configure your settings:

"General" area

In the "General" area, you can make the following settings:

Field	Description
Include dividends	Select this checkbox, which is selected by default, if dividends are to be taken into account when calculating the prices shown.
Include corporate actions	Clear this checkbox, which is selected by default, if corporate actions are not to be taken into account when calculating the prices shown.
Show date/time	Select this checkbox, which is cleared by default, if you also want the quote date or time to be displayed at the bottom of the Mini Quote in the case of daily updated values.
Highlight price	<p>If you select this checkbox, which is cleared by default, the rate is highlighted instead of the percentage change.</p> 
Identifier	<p>Select here which information is to be displayed under the security name. The following values are available:</p> <ul style="list-style-type: none"> • Description (default setting) • Short description: • ISIN • Symbol • Valor

Example: Mini Quote with displayed price date



"Periods" area

In the "Periods" area, you have the option to add individual periods to the "Performance Tile" for the performance calculation.

SETTINGS
General
Periods

CUSTOM PERIODS
✕

Name

Automatic naming ☐

Select period 22 Jun 2021 - 22 Jul 2021

SELECT START DATE

☐ Date from

☐ Relative

☒ Period starting from the end date

SELECT END DATE

☐ Date to

☒ Now

☐ Relative start from

Go back in the past

BACK

SAVE

To do this, follow these steps:

1. On the left side of the "Settings" dialogue window, select the "Periods" area.
2. Then select the "Add period" button on the right side of the dialogue window.
3. You can then enter the corresponding name for the first individual period in the "Name" input field. However, this name can also be generated automatically (see the following table with the settings).
4. Then click the "Settings" button for this period.
5. Configure the new time period. The table below contains descriptions of the individual setting options.
6. Then click the "Save" button. (Use the "Back" button to close the settings for the period without saving any changes you may have made).
7. If you want to add further periods, then select the "Add period" button in the "Periods" area and proceed in the same way.
You can delete your own time periods by clicking the corresponding "Delete" buttons.

The settings of the individual periods in detail:

General	
Field	Description

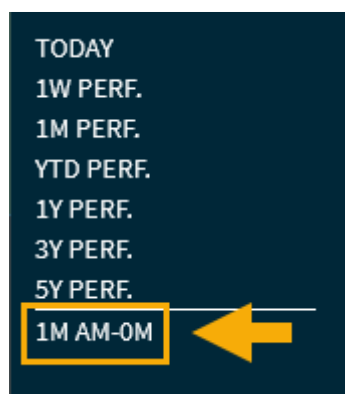
Name	<p>Enter the relevant name for the period here.</p> <p>You can freely define the name of a period - or leave it blank for the time being and use the automatic name generation. The name is then automatically generated by the system according to the time periods you set and other parameters of the performance calculation. The name of the period can be changed later.</p>
Automatic naming	<p>Select this setting to automatically generate the name of the period. The name is generate depending on the time periods and start and end times set below.</p>
Selected period	<p>Here, you can see the always updated period of the performance calculation resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year
Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>

Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>
Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>
Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div> <p>Example</p> <p>In August 2021, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2021".</p> </div>

Example: Period selection with individual period



In the widget, the individually configured time periods are added at the bottom of the drop-down list of time periods.



5.21 Screener results

With this widget, you have the possibility to display results of a screen directly in your dashboard without opening [Screener](#). The displayed results are updated depending on the filter settings in the screener.

You can select the corresponding screen by using the Screener Explorer integrated into the widget above.

Results SELECTED (0 / 103)										
<input type="checkbox"/>	ISIN	NAME	ISSUER	CUR.	COUNTRY	NAV	NAV DATE	REGION/COUNTRY	INVESTMENT HORIZON	FUND OF FUNDS
<input type="checkbox"/>	LU0028121183	IncoF USD Res A	Invesco Management S.A.	USD	LU	94.48	22/03/2023	United States	1 year	N
<input type="checkbox"/>	LU0329439698	Amu GI M Bds&C LV ME	Amundi Luxembourg S.A.	EUR	LU	99.57	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0100597557	IncoF USD Res C	Invesco Management S.A.	USD	LU	98.82	22/03/2023	United States	1 year	N
<input type="checkbox"/>	LU0210817283	Amu GI M Bds&C LV AE	Amundi Luxembourg S.A.	EUR	LU	101.10	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0210817879	Amu GI M Bds&C LV IE	Amundi Luxembourg S.A.	EUR	LU	1,081.71	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0568619638	Amu AR Forex AE	Amundi Luxembourg S.A.	EUR	LU	95.60	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0615785101	Amu GI M Bds&C LV AHG	Amundi Luxembourg S.A.	GBP	LU	92.20	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0568619398	Amu AR Forex ME	Amundi Luxembourg S.A.	EUR	LU	99.27	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0568619042	Amu AR Forex IE	Amundi Luxembourg S.A.	EUR	LU	1,003.40	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0568619802	Amu AR Forex SE	Amundi Luxembourg S.A.	EUR	LU	94.22	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0568620057	Amu AR Forex FE	Amundi Luxembourg S.A.	EUR	LU	89.85	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0557852794	Amu GI M Bds&C LV FE	Amundi Luxembourg S.A.	EUR	LU	83.69	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0752743517	Amu GI M Bds&C LV AHU	Amundi Luxembourg S.A.	USD	LU	119.71	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0752743698	Amu GI M Bds&C LV AHU	Amundi Luxembourg S.A.	USD	LU	96.24	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0752743863	Amu GI M Bds&C LV SHU	Amundi Luxembourg S.A.	USD	LU	117.58	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0568619711	Amu AR Forex AE	Amundi Luxembourg S.A.	EUR	LU	94.31	21/03/2023	Not applicable	1 year	N
<input type="checkbox"/>	LU0210817440	Amu GI M Bds&C LV SE	Amundi Luxembourg S.A.	EUR	LU	99.15	21/03/2023	Not applicable	1 year	N

In [Show results in Screener](#), you will find all information about working with these result lists. Above the table, you can see the description saved for this screen in the [Screen settings](#). With the star symbol, you can add the Screener to or remove it from your favourites.

The result list is the same as in the screener, but you can also show and hide the columns directly by using the widget [settings](#) and also show the filter conditions directly in the widget. An example with filters displayed can be found in [Settings in the "Screener Results" widget](#).



The "Screener Results" widget supports the grouping function.

See also:

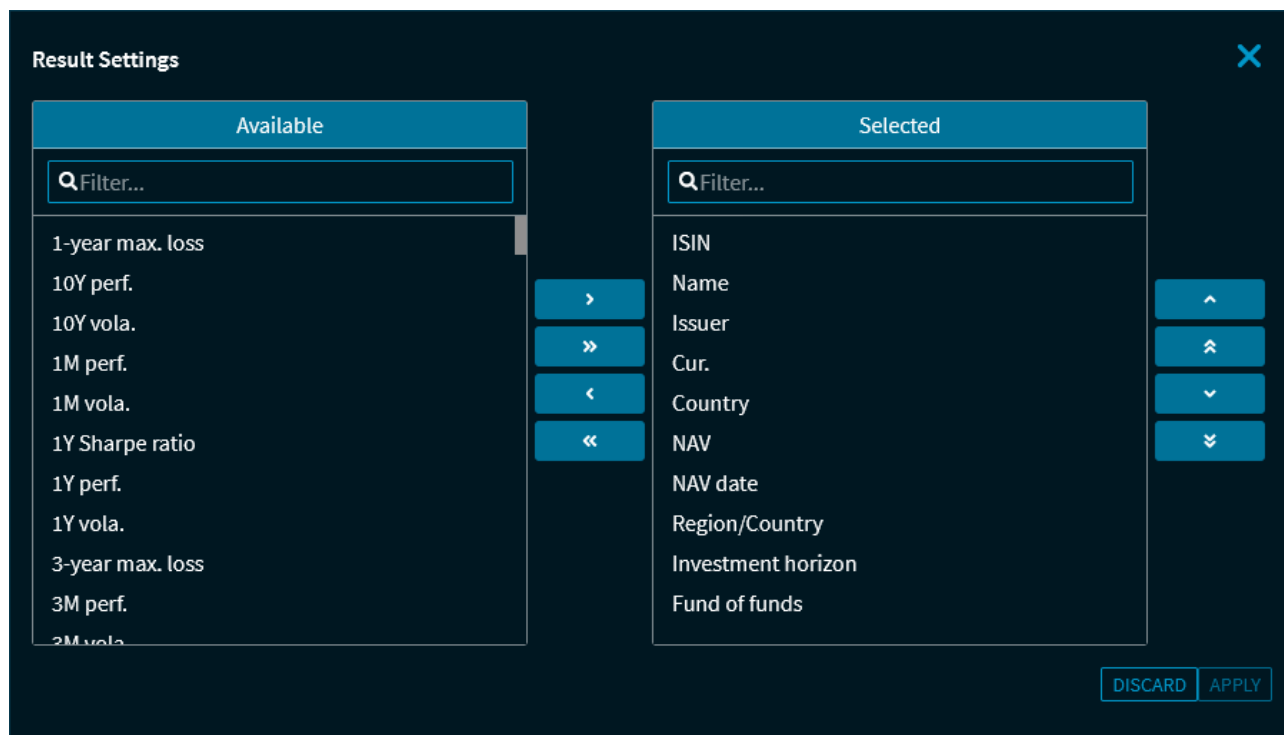
- [Settings in the "Screener Results" widget](#)

5.21.1 Settings in the "Screener Results" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Result Settings

Available

Q Filter...

- 1-year max. loss
- 10Y perf.
- 10Y vola.
- 1M perf.
- 1M vola.
- 1Y Sharpe ratio
- 1Y perf.
- 1Y vola.
- 3-year max. loss
- 3M perf.
- 3M vola.

>

>>

<

<<

Selected

Q Filter...

- ISIN
- Name
- Issuer
- Cur.
- Country
- NAV
- NAV date
- Region/Country
- Investment horizon
- Fund of funds

^

^

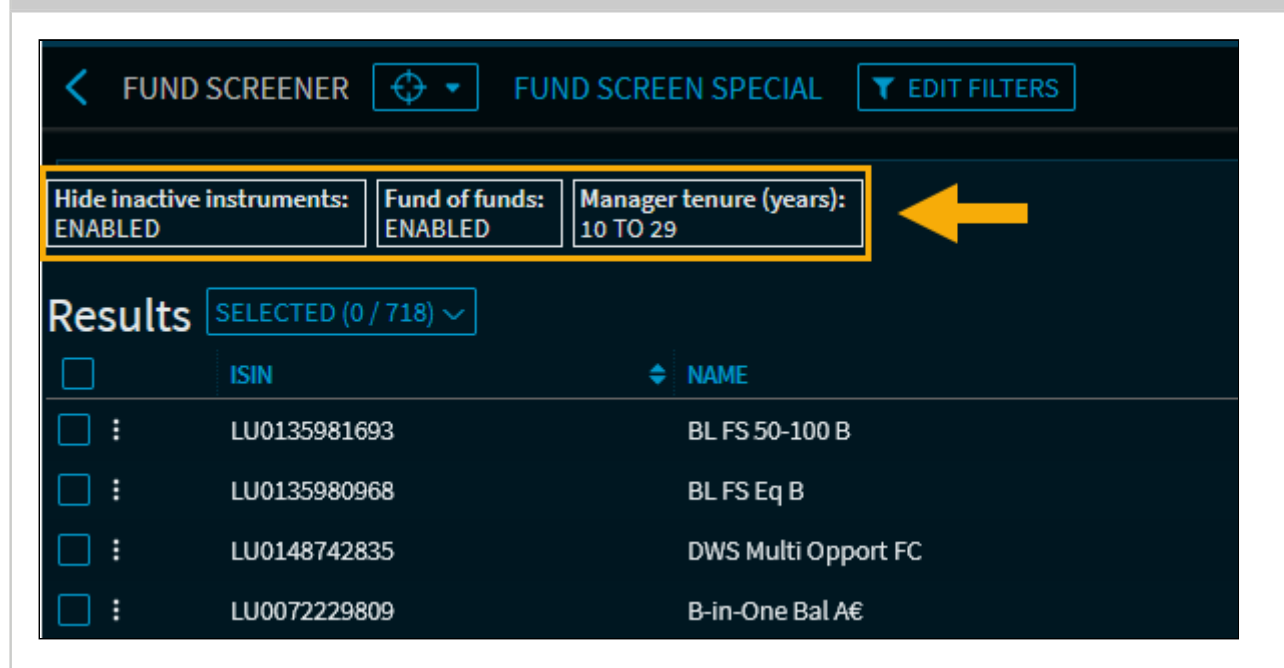
v



v

DISCARD APPLY

Enable the "Show selected filters" setting to display the screen's filters in the "Screener results" widget in the same way as in the screener.

Example: "Screener results" widget with displayed filters



FUND SCREENER  **FUND SCREEN SPECIAL**  **EDIT FILTERS**

Hide inactive instruments: **ENABLED**

Fund of funds: **ENABLED**

Manager tenure (years): **10 TO 29**

Results **SELECTED (0 / 718)**

<input type="checkbox"/>	ISIN	NAME
<input type="checkbox"/>	LU0135981693	BL FS 50-100 B
<input type="checkbox"/>	LU0135980968	BL FS Eq B
<input type="checkbox"/>	LU0148742835	DWS Multi Opport FC
<input type="checkbox"/>	LU0072229809	B-in-One Bal A€

In the "Result settings" area, you can show or hide the columns of the table. The available columns depend on the selected screen.

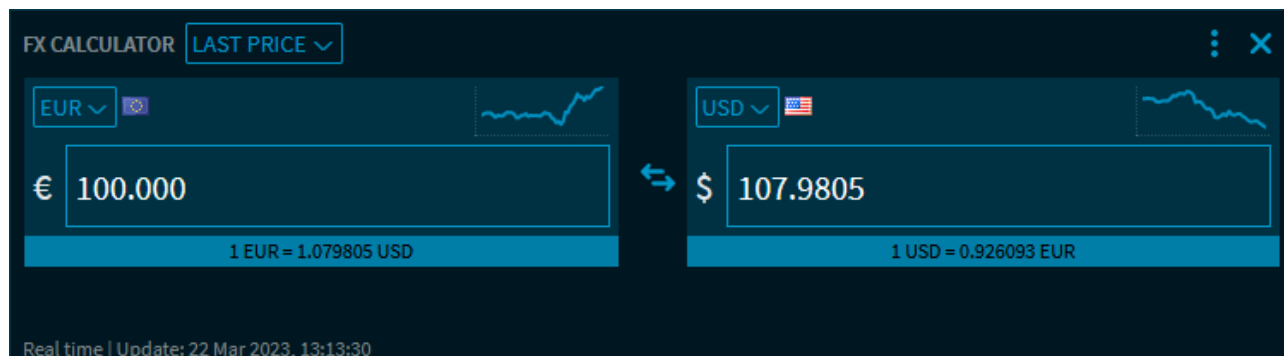
For more information, see [Show and hide widget columns via the settings](#).

For more information about the widget settings, see [Commands in the widget menu](#).

See also the description in [Screen settings](#).

5.22 FX Calculator

Use the "FX Calculator" widget to quickly determine the current exchange rates. Simply select the two currencies from the two drop-down lists and enter the amount to be calculated.



The "FX Calculator" widgets shows the result as soon as you select the currencies.

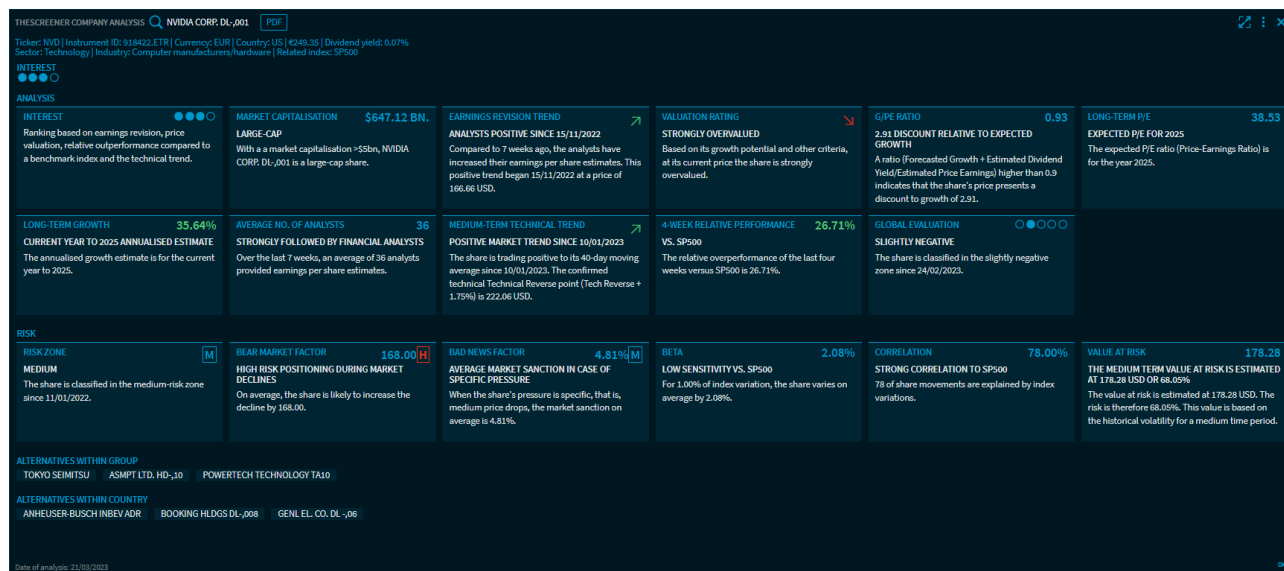


Click the icon between the two input fields to reverse the two currencies.

By default, the most recent exchange rates are displayed ("Last price" setting). You can also view historical exchange rates by using the built-in calendar.

5.23 theScreener Company Analysis

The widget shows analyses provided by "theScreener" (thescreener.com).



From the security drop-down list, select the share that you want to analyse. The following data are shown directly below:

- Symbol
- Instrument ID
- Currency
- Country
- Current price

- Dividend yield
- Sector
- Industry
- Related index (benchmark)
- Interest
- Analyses and global assessment
- Risk assessment
- Alternatives within group
(Click a security to replace the currently displayed one.)
- Alternatives within country
(Click a security to replace the currently displayed one.)
- Analysis date (footer)

You can find the following analyses:

Analysis	Description
Interest	The ranking of the security (from 0 to max. 4 points) is related to earnings revision trends, price valuation and relative outperformance vs. the related index and technical trend.
Market capitalisation	<p>The value represents the market capitalisation in dollar and the corresponding classification.</p> <p>The value is calculated by multiplying the company's share price by the number of outstanding shares.</p>
Earnings revision trend	<p>The current analyst estimation including duration and price at the start of this trend.</p> <p>The earnings revision trend is based on the profit forecasts of the analysts. A green arrow indicates that the analysts have significantly raised their earnings estimates in the last 7 weeks (7 week earnings per share estimates > 1%). The red arrow means that the forecasts were significantly lowered in the last 7 weeks (7 week earnings per share estimates < -1%). If the change of the last 7 weeks earnings forecasts is between +1% and -1%, then the trend is classified in the neutral zone.</p>
Valuation rating	<p>Based on the share's growth potential and other criteria, the valuation shows if the price of a share is currently undervalued or overvalued</p> <p>Most analysts follow the Price/earnings ratio (PE), that is, the ratio of the share price divided by the earnings per share. Generally, the relation is linear. That is, a low P/E usually indicates an undervalued share and a high P/E indicates an overvalued share.</p>
Growth / P/E Ratio	This is an important indicator in the Screener. This is the estimated growth of future profits (long-term growth) plus the dividend stated in percent, divided by the estimated future price/earnings ratio (P/E).
Long-term P/E	The estimated P/E for the next year.

Analysis	Description
Long-term growth	<p>The estimated annual growth rates until the next year in percent.</p> <p>theScreener points out that high long-term growth forecasts strongly diverging from the growth rates of the corresponding national market indices (or business units) can often be the results of very low profits over the last years. Thus, the company's expected growth rates appear to be very high, but only compared to the previously lean years.</p>
Average no. of analysts	<p>The average number of analysts indicates how many analyst assessments were used to determine the global estimation.</p>
Medium-term technical trend	<p>The medium-term (40 days) technical trend including the determined market trend reverse.</p> <p>The medium-term technical trend or market trend indicates the current trend: In theScreener, a positive market trend is regarded as a positive signal, a negative medium-term market trend is regarded as a negative signal. If the performance is between +/-1.75 %, then theScreener regards the medium-term technical trend as neutral.</p>
Relative performance of last 4 weeks	<p>The relative performance of the share compared to the benchmark.</p> <p>A positive value shows that the share's performance is better than the related benchmark index. A negative value means that the performance of the share is below than that of the corresponding index.</p>
Global evaluation	<p>The resulting global evaluation: "Negative", "Rather negative", "Neutral", "Rather positive" or "Positive".</p> <p>The global evaluation results from the chance and risk profile as well as the evaluation of the general market environment determined by theScreener.</p>

In the "Risk" area, you find the following values:

Analysis	Description
Risk zone	<p>The current (general) risk assessment.</p> <p>The performance of shares is generally subject to high risks (including the risk of total loss) and fluctuations. Even "low-risk" shares are still shares and therefore high-risk investments with a risk of total loss. The rating must be considered solely in relative historic comparison to other shares. Thus, the risk rating has merely statistical significance. Regardless of the rating, every share price can decrease massively at any time.</p> <p>theScreener classifies shares into three risk levels based on their historical behaviour. The share's "Bear market factor" and the "Bad news factor" are compared to a long-term international benchmark (average).</p>

Analysis	Description
Bear market factor	<p>The value of the bear market factor and the corresponding evaluation. That is, how strong does the share decline in a sliding period?</p> <p>The "Bear market factor" reflects the performance of a share in declining (bearish) markets. The bear market factor describes the difference between the movements of the share and the movements of the entire market (benchmark index) in declining markets. The "bear market factor" is based on a monitoring period of the past 52 weeks in semi-weekly intervals.</p> <p>For example, if the share price drops by 3% while the entire market declines by just 1%, then the bear market factor is 2%. If the share price declines by just 0.2% while the market declines by 1%, then the bear market factor is 0.8%. A negative value indicates a defensive bear market profile of the share. theScreener derives the following conclusions:</p> <ul style="list-style-type: none"> • A positive bear market factor indicates that the share strongly declines when the benchmark index declines. This means, that strong losses are to be expected in a generally weak stock market. • A negative bear market factor indicates a defensive (that is, resistant) behaviour of the share if the market declines. The losses in generally weak stock markets are usually smaller.
Bad news factor	<p>The bad news factor in percent. That is, how strongly does the share price decline if the share's pressure is specific?</p> <p>The bad news factor is based on the analysis of price declines of the share during generally strong markets. This purely mathematical analysis ignores the concrete reasons for price declines. If a share declines absolutely while it's benchmark index rises, then there is some specific pressure acting on the share price (hence the name "bad news factor").</p> <p>The bad news factor indicates the average deviation of the share in case of a bad news event compared against the benchmark index. The bad news factor is measured semi-weekly in percent and displays the average value of the last 52 weeks. Analysed over several years, the average bad news factor is at about 4%. Values below 4% are classified as defensive. Values above 5.5% are classified as aggressive because in the past they tended to react stronger than the average by one standard deviation.</p>
Beta	<p>The beta of the share. That is, how strongly does the share price react compared against the index movements of the benchmark?</p> <p>The beta is often used as a measure of risk. It measure the volatility of a share in comparison to the volatility of the entire market (benchmark index). Shares with a beta greater than 100 (display in [%]) are more volatile than their benchmark index. Securities with a beta smaller than 100 usually react less to market movements.</p>

Analysis	Description
Correlation	<p>The correlation of the share with the index. How strongly correlated is the volatility of the share with the volatility of the market?</p> <p>The correlation measures the relationship between two variables which change together. The correlation can assume a value between -100% and +100%.</p> <p>The value measures the correlation of a share with its benchmark index over a year. A positive value indicates that the share usually moves with the market. A negative value indicates that the share predominately moved in the opposite direction of the market.</p>
Value at risk	<p>The estimated value at risk and the resulting risk based on the historical volatility.</p> <p>The "Value at Risk (VaR)" is a risk measure, indicating the loss a certain risk position will not exceed with a specified probability and within a specified time horizon if the historical behaviour does not change significantly.</p> <p>A value at risk of 10 euro with a holding period of 1 day and a confidence level of 97.5% means that the potential loss of the risk position will not exceed 10 euro from one day to the next with a probability of 97.5%. However, it also means that there is a probability of 2.5% that the security will decline significantly, up to a total loss.</p>

5.24 Financials (balance sheet data)

The "Financials" widget provides an overview of the fundamentals of a company listed on the stock exchange, including the profit and loss statement, cash flows and balance sheet. Various diagrams support your analysis. In addition, you can select up to 3 key figures that you want to [Display in charts](#) in all tables of the widget.

First, in the upper left corner of the widget search and select the company (that is, the corresponding share) that you want to analyse. In the drop-down list next to it, you select the data described below.


The information is displayed from 2010 onwards, where available.


See also:




- [Financials - Profit and Loss](#)
- [Financials - Cash flow](#)
- [Financials - Securities data](#)
- [Financials - Balance sheet](#)
- [Company Data - Fundamental data](#)
- [Company Data - Profitability](#)
- [Company Data - Capital structure](#)
- [Company Data - Other key figures](#)
- [Display charts for selected key figures](#)

5.24.1 Financials - Cash flow


Select "Cash flow" to see the capital movements for the last 10 years.

FINANCIALS  AIRBUS SE


CASH FLOW 



SELECTED (0/3):

	EURO	2021	2020	2019	2018	2017	2015	2014	2013	2012	2011	2010
<input type="checkbox"/>	Cash flow	4,639.00	-5,420.00	3,753.00	2,318.00	4,444.00	3,600.00	2,560.00	1,931.00	3,840.00	4,289.00	4,996.00
<input type="checkbox"/>	Cash flow from investing activities	-2,719.00	4,126.00	-2,864.00	-1,635.00	-2,530.00	-3,459.00	-3,223.00	-1,742.00	-26.00	-4,198.00	-5,989.00
<input type="checkbox"/>	Cash flow from financing activities	-2,179.00	6,833.00	-958.00	-3,222.00	321.00	-25.00	495.00	-1,068.00	-365.00	165.00	-1,119.00
<input type="checkbox"/>	Change in cash and cash equivalents	133.00	5,125.00	71.00	-2,098.00	1,949.00	-2,965.00	99.00	-729.00	1,528.00	-1,308.00	—
<input type="checkbox"/>	Cash and cash equivalents at the end of the period	15,889.00	16,057.00	11,616.00	11,545.00	13,643.00	7,489.00	10,454.00	10,355.00	11,084.00	9,556.00	10,864.00

Annual cash flow according to IFRS in million Euro. The financial year ends on 31.12.



You can find the values of the following key figures:

- Cash flow
- Cash flow from investing activities
- Cash flow from financing activities
- Change in cash and cash equivalents
- Cash and cash equivalents at the end of the period

5.24.2 Financials - Securities data

Select "Securities data" to see the share performance and dividends for the last 10 years.

FINANCIALS
AIRBUS SE
SECURITY DATA

SELECTED (0/3):

	SECURITY DATA	2021	2020	2019	2018	2017	2015	2014	2013	2012	2011	2010
<input type="checkbox"/>	Shares outstanding in millions (diluted)	785.90	783.18	782.31	775.73	774.43	785.34	784.35	780.32	822.14	814.90	—
<input type="checkbox"/>	Shares outstanding in millions	785.33	783.18	783.17	776.37	774.56	785.00	784.78	783.16	827.37	820.48	816.40
<input type="checkbox"/>	Earnings per share (Euro)	5.36	-1.45	1.74	3.94	3.71	3.44	2.99	1.88	1.49	1.27	0.68
<input type="checkbox"/>	Earnings per share (diluted) (Euro)	5.36	-1.45	-1.75	3.92	3.04	3.42	2.99	1.85	1.50	127.00	—
<input type="checkbox"/>	Dividend per share (Euro)	1.50	0.00	1.65	1.65	1.50	1.30	1.20	0.75	0.60	0.45	0.22
<input type="checkbox"/>	Dividend (M. Euro)	1,178.44	0.00	1,290.81	1,279.96	1,161.64	1,020.95	941.22	585.24	493.28	366.70	178.00
<input type="checkbox"/>	Current shares outstanding	—	—	—	—	—	—	—	—	—	—	—

Financial statement according to IFRS. The financial year ends on the 31.12.

5.24.3 Financials - Balance sheet

Select "Balance sheet" to see the company balance sheet of the last 10 years.

FINANCIALS

Q AIRBUS SE

BALANCE SHEET

SELECTED (0/3):

	ASSETS	2021	2020	2019	2018	2017	2015	2014	2013	2012	2011	2010
	Cash in hand and bank balances	15,889.00	16,057.00	11,616.00	11,545.00	13,643.00	7,489.00	10,454.00	10,355.00	11,084.00	9,556.00	10,864.00
	Trade receivables	5,063.00	5,132.00	5,674.00	6,078.00	8,358.00	7,877.00	6,798.00	7,239.00	6,790.00	6,399.00	6,632.00
	Inventories	28,538.00	30,401.00	31,550.00	31,891.00	31,464.00	29,051.00	25,355.00	25,060.00	23,216.00	22,563.00	20,862.00
	Receivables from current taxes	552.00	620.00	1,784.00	1,451.00	914.00	860.00	605.00	632.00	458.00	339.00	—
	Other current assets	5,758.00	6,190.00	6,099.00	7,335.00	5,415.00	6,187.00	3,720.00	3,812.00	3,781.00	4,164.00	3,632.00
	TOTAL CURRENT ASSETS	55,800.00	58,400.00	56,723.00	58,300.00	59,794.00	51,464.00	46,932.00	47,098.00	45,329.00	43,021.00	41,990.00
	Property, plant and equipment	16,536.00	16,674.00	17,296.00	16,776.00	16,613.00	17,193.00	16,321.00	15,856.00	15,196.00	14,159.00	13,427.00
	Intangible assets	16,367.00	16,199.00	16,591.00	16,726.00	11,629.00	12,555.00	12,758.00	13,653.00	13,422.00	12,745.00	11,299.00
	Goodwill	13,028.00	12,999.00	13,019.00	13,039.00	9,141.00	9,907.00	9,979.00	10,962.00	11,003.00	10,760.00	9,809.00
	Financial investments	12,508.00	10,785.00	7,112.00	6,612.00	8,862.00	3,818.00	5,815.00	6,911.00	6,235.00	5,760.00	5,785.00
	Other assets	5,836.00	8,037.00	16,687.00	16,450.00	16,837.00	19,872.00	13,526.00	9,793.00	11,920.00	12,791.00	10,686.00
	TOTAL FIXED ASSETS	51,247.00	51,695.00	57,686.00	56,564.00	53,941.00	53,438.00	48,420.00	46,213.00	46,773.00	45,455.00	41,197.00
	Deferred taxes	4,323.00	4,023.00	5,008.00	4,835.00	3,598.00	6,759.00	5,717.00	3,840.00	4,518.00	4,309.00	4,250.00
	Deferred income	—	—	233.00	154.00	2,849.00	2,714.00	2,090.00	1,922.00	1,809.00	1,641.00	1,408.00
	TOTAL ASSETS	107,047.00	110,095.00	114,409.00	115,198.00	113,937.00	105,782.00	96,102.00	93,311.00	92,102.00	88,476.00	83,187.00
	LIABILITIES	2021	2020	2019	2018	2017	2015	2014	2013	2012	2011	2010
	Current financial liabilities	1,946.00	3,013.00	4,606.00	3,925.00	4,397.00	7,811.00	4,553.00	3,112.00	2,988.00	3,163.00	2,642.00
	Trade payables	9,693.00	8,722.00	14,808.00	16,237.00	13,444.00	11,763.00	10,183.00	10,372.00	9,917.00	9,630.00	8,546.00
	Other current liabilities	34,480.00	36,149.00	0.00	0.00	0.00	0.00	0.00	0.00	71.00	143.00	480.00
	Current tax liabilities	1,057.00	1,311.00	2,780.00	732.00	1,481.00	908.00	738.00	616.00	458.00	308.00	—
	Partial payments received	—	—	43,406.00	42,061.00	41,943.00	38,084.00	34,405.00	35,418.00	35,214.00	34,262.00	32,102.00
	TOTAL CURRENT LIABILITIES	47,807.00	49,771.00	62,374.00	60,354.00	56,025.00	53,777.00	47,497.00	48,581.00	48,648.00	47,506.00	43,770.00
	Long-term liabilities	13,094.00	14,082.00	15,687.00	15,472.00	15,932.00	20,373.00	16,200.00	11,114.00	10,964.00	11,821.00	11,494.00

Financial statement according to IFRS, in million Euro. The financial year ends on the 31.12.

Financial statement according to IFRS, in million Euro. The financial year ends on the 31.12.

5.24.4 Company Data - Fundamental data

Select the "Chart: Fundamental" menu item to see the company's fundamental data for the last 10 years. The following key figures are shown in a table as well as in a chart:

- Earnings per share
- Dividend per share
- Sales per share
- Cash flow per share



Point to a bar in the bar chart to see the individual values in a tooltip.

Here, too, you can select the key figures in the lower table and display them as separate [charts](#).

5.24.5 Company Data - Profitability

Select the "Chart: Profitability" menu item to see the profitability key figures of the last 10 years. The following key figures are shown in a table as well as in a chart:

- Return on equity
- Return on sales
- Total yield
- Return on investment



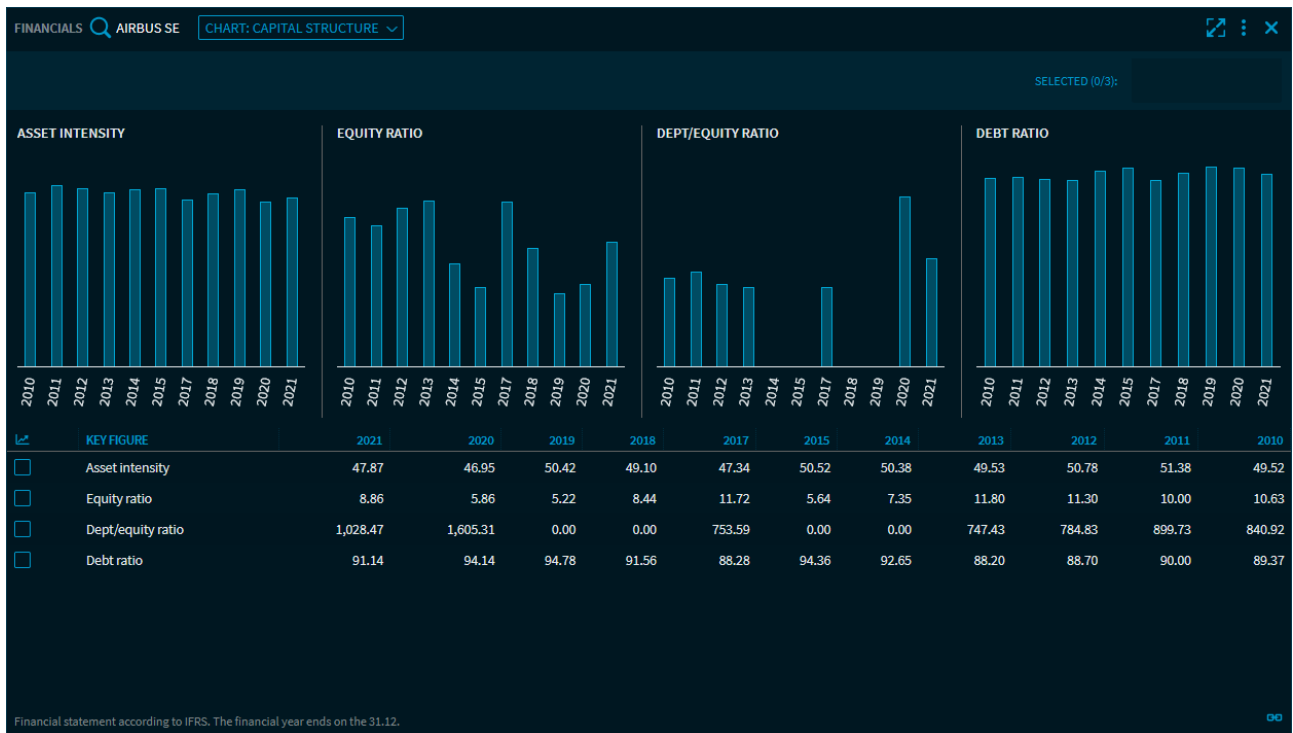
Point to a bar in the bar chart to see the individual values in a tooltip.

Here, too, you can select the key figures in the lower table and display them as separate charts.

5.24.6 Company Data - Capital structure

Select the "Chart: Capital structure" to see the capital structure of the last 10 years. The following key figures are shown in a table as well as in a chart:

- Asset intensity
- Equity ratio
- Debt/equity ratio
- Debt ratio



Point to a bar in the bar chart to see the individual values in a tooltip.
Here, too, you can select the key figures in the lower table and display them as separate charts.

5.24.7 Company Data - Other key figures

Select the "Chart: Other key figures" to show the following key figures of the last 10 years as a table as well as in a chart:

- Shares outstanding in millions
- Number of employees
- Personnel costs
- Sales per employee



Point to a bar in the bar chart to see the individual values in a tooltip.
Here, too, you can select the key figures in the lower table and display them as separate charts.

5.24.8 Display charts for selected key figures

Use the selection fields on the left side of each table in the "Company Data" widget to select up to 3 different key figures. If you have selected at least one entry, you can display a graphical representation of the selected key figures by using the "Chart" button that is then visible in the header of the widget.

To edit key figures as charts:

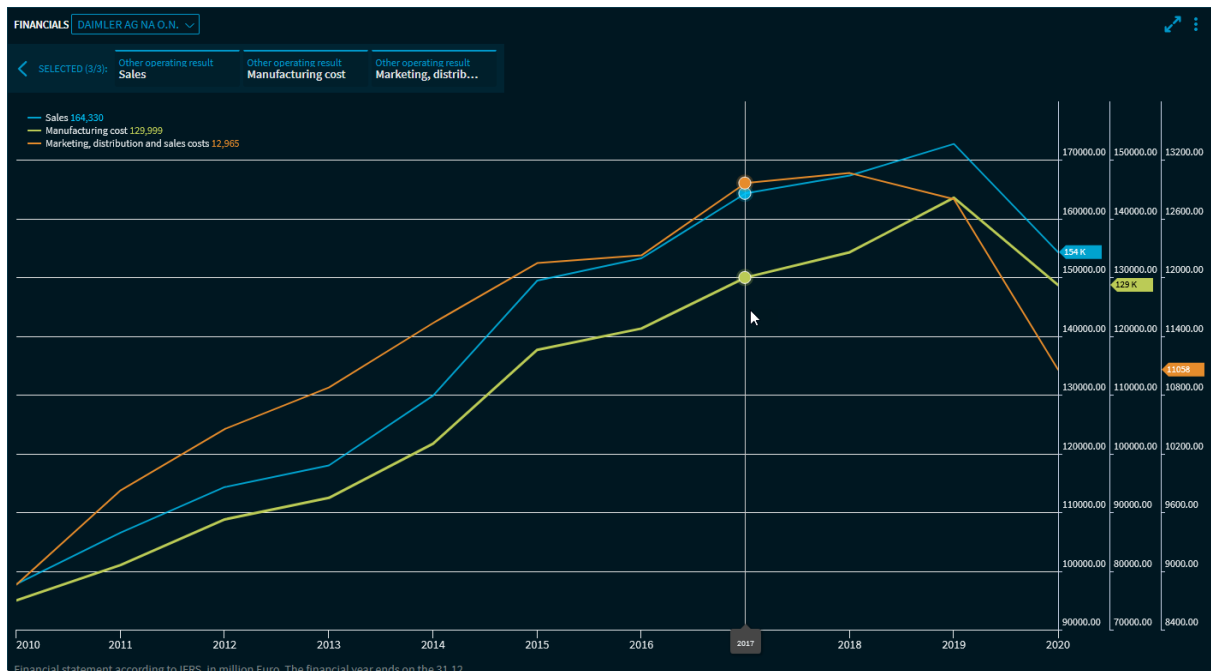
1. Enable the the selection fields of the relevant key figure(s).

FINANCIALS **DAIMLER AG NA O.N.** **P&L**

CHART SELECTED (3/3): Other operating result Sales Other operating result Manufacturing cost Other operating result Marketing, distrib...

	EURO	2020	2019
<input checked="" type="checkbox"/> Sales		154,309.00	172,745.00
<input checked="" type="checkbox"/> Manufacturing cost		128,721.00	143,580.00
<input checked="" type="checkbox"/> Marketing, distribution and sales costs		11,058.00	12,801.00
<input type="checkbox"/> Administrative expenses		3,534.00	4,050.00
<input type="checkbox"/> Research and development costs		6,116.00	6,586.00

2. Then click the now visible "Chart" button.
This displays the chart with the selected key figures in the widget.



On the right side of the header, you can see the currently selected key figures. You can also disable them here (as an alternative to disabling them in the table) by using the close cross that appears when you point with the mouse.

3. Use the "Close" button to close the chart display and return to the standard view.

Notes on charts

- On the x-axis, you can see the years
- Each selected key figure has its own y-axis
- The legend can be moved
- A vertical line cursor shows the data for the position in the legend

5.24.9 Financials - Profit and Loss

Select "P&L" to see the profit and loss statement for the last 5 years.

FINANCIALS
AIRBUS SE
P&L

SELECTED (0/3):

	EURO	2021	2020	2019	2018	2017	2015	2014	2013	2012	2011	2010
<input type="checkbox"/> Sales		52,149.00	49,912.00	70,478.00	63,707.00	66,767.00	54,450.00	60,713.00	59,256.00	56,480.00	49,128.00	45,752.00
<input type="checkbox"/> Manufacturing cost		42,518.00	44,250.00	59,973.00	54,920.00	59,160.00	55,599.00	51,776.00	50,895.00	48,545.00	42,285.00	39,528.00
<input type="checkbox"/> Marketing, distribution and sales costs		713.00	717.00	908.00	861.00	872.00	1,065.00	1,063.00	1,217.00	1,192.00	981.00	1,024.00
<input type="checkbox"/> Administrative expenses		1,339.00	1,423.00	5,217.00	1,574.00	1,567.00	2,873.00	1,538.00	1,696.00	1,672.00	1,427.00	1,288.00
<input type="checkbox"/> Research and development costs		2,746.00	2,858.00	3,358.00	3,217.00	2,807.00	3,460.00	3,391.00	3,160.00	3,142.00	3,152.00	2,939.00
<input type="checkbox"/> Other operating income		594.00	132.00	370.00	1,656.00	981.00	474.00	–	–	–	–	–
<input type="checkbox"/> Other operating expenses		201.00	1,458.00	356.00	182.00	336.00	222.00	–	–	–	–	–
<input type="checkbox"/> Investment result		116.00	152.00	303.00	439.00	415.00	1,070.00	895.00	346.00	241.00	192.00	145.00
<input type="checkbox"/> Impairment		2,325.00	2,831.00	2,927.00	2,444.00	2,298.00	2,466.00	2,111.00	1,924.00	2,052.00	1,743.00	1,439.00
<input type="checkbox"/> OPERATIVE RESULT		5,342.00	-510.00	1,175.00	4,517.00	4,898.00	3,743.00	3,533.00	2,306.00	1,963.00	1,380.00	915.00
<input type="checkbox"/> FINANCIAL RESULT		-315.00	-620.00	-275.00	-763.00	1,149.00	702.00	545.00	17.00	44.00	205.00	–
<input type="checkbox"/> Interest and similar income		88.00	140.00	228.00	208.00	189.00	183.00	142.00	168.00	237.00	377.00	316.00
<input type="checkbox"/> Interest and similar expenses		334.00	411.00	339.00	440.00	517.00	551.00	462.00	497.00	522.00	364.00	415.00
<input type="checkbox"/> Interest income		-246.00	-271.00	-111.00	-232.00	-328.00	-368.00	-320.00	-329.00	-285.00	13.00	-99.00
<input type="checkbox"/> RESULT BEFORE TAX		5,027.00	-1,130.00	1,064.00	4,285.00	4,570.00	3,375.00	3,213.00	1,977.00	1,678.00	1,393.00	816.00
<input type="checkbox"/> Taxes on income and profit		853.00	39.00	2,389.00	1,274.00	1,693.00	677.00	863.00	502.00	449.00	356.00	244.00
<input type="checkbox"/> RESULT AFTER TAX		4,174.00	-1,169.00	-1,325.00	3,011.00	2,877.00	2,698.00	2,350.00	1,475.00	1,229.00	1,037.00	572.00
<input type="checkbox"/> Thereof income from discontinued operations		0.00	0.00	–	–	–	–	–	–	–	–	–
<input type="checkbox"/> Minority interest		39.00	36.00	-37.00	43.00	-4.00	-2.00	-7.00	-10.00	-1.00	-4.00	-19.00
<input type="checkbox"/> ANNUAL NET INCOME		4,213.00	-1,133.00	1,362.00	3,054.00	2,873.00	2,696.00	2,343.00	1,465.00	1,228.00	1,033.00	553.00
<input type="checkbox"/> NAV per share		12.05	8.22	7.64	12.54	17.24	7.61	9.00	14.11	12.66	10.86	10.83

Financial statement according to IFRS, in million Euro. The financial year ends on the 31.12.

5.25 Interest Rate Calculator

The Interest Rate Calculator determines interest and swap rates for foreign exchange trades. The base currency here is the US dollar, from which the securities account USD bid and securities account USD ask interest rates are always shown. From the drop-down list at the top of the widget, you almost always select the foreign currency to the US dollar. In the widget, the corresponding percentage swap values and the interest (bid and ask) of the foreign currency are calculated immediately.

INTEREST RATE CALCULATOR								
			EURO		OVERVIEW			
VALUE DATE	DATE	DAYS	SEC. ACC. USD BID	SEC. ACC. USD ASK	SWAP % BID	SWAP % ASK	INTEREST RATE BID	INTEREST RATE ASK
ON	09/02/2023	1	4.400000	4.600000	-2.197228	-2.157387	2.202772	2.442613
TN	10/02/2023	2	4.380000	4.580000	-1.098614	-1.078693	3.281386	3.501307
SN	13/02/2023	5	4.380000	4.580000	-1.326345	-1.310280	3.053655	3.269720
1W	17/02/2023	9	4.400000	4.600000	-1.727024	-1.709095	2.672976	2.890905
2W	24/02/2023	16	4.400000	4.600000	-1.943730	-1.925998	2.456270	2.674002
3W	03/03/2023	23	4.430000	4.630000	-2.037656	-2.021699	2.392344	2.608301
1M	10/03/2023	30	4.460000	4.660000	-2.085579	-2.073188	2.374421	2.586812
2M	11/04/2023	62	4.600000	4.800000	-2.137116	-2.125684	2.462884	2.674316
3M	10/05/2023	91	4.720000	4.920000	-2.129878	-2.117955	2.590122	2.802045
4M	12/06/2023	124	4.910000	5.110000	-2.084240	-2.072747	2.825760	3.037253
5M	10/07/2023	152	5.020000	5.220000	-2.077861	-2.068350	2.942139	3.151650
6M	10/08/2023	183	5.010000	5.210000	-2.046801	-2.037037	2.963100	3.172863

Select the (foreign) currency from the first drop-down list. Below, you will see the following columns in the "Overview" view:

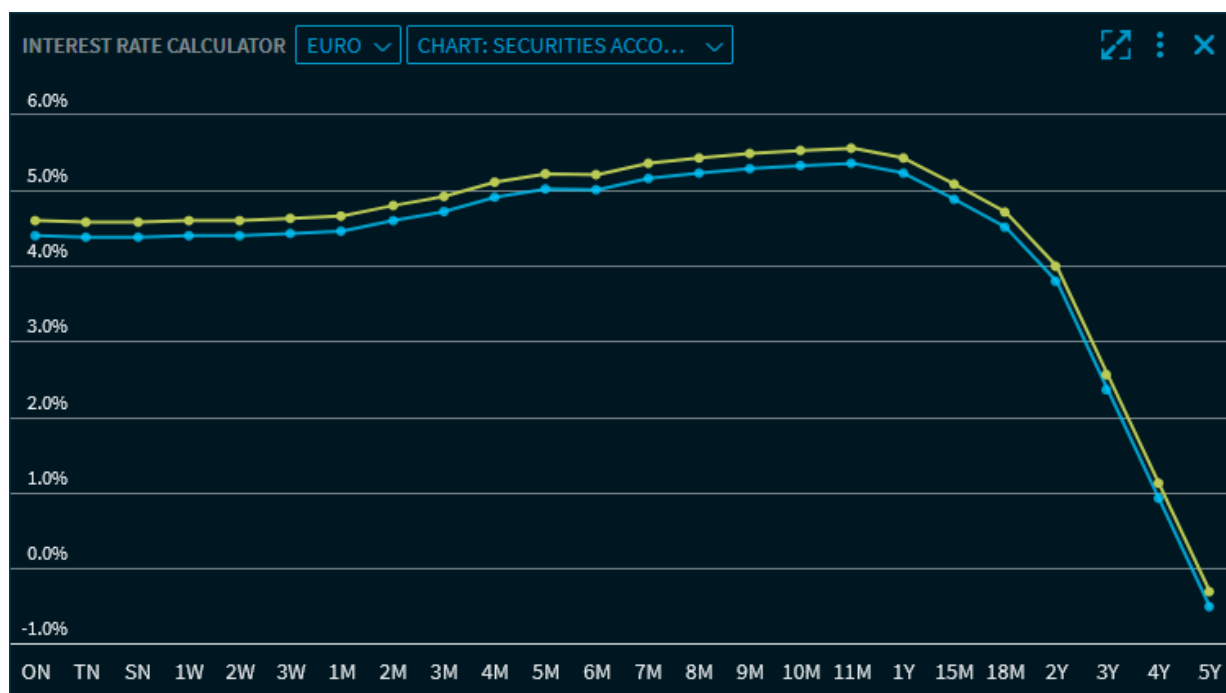
Column	Description
Value date	The value date period, that is, the term of the forward transaction. The following applies: "ON" = Overnight, "TN" = Tomorrow Next, "SN" = Spot Next, "W" = Weeks, "M" = Months and "Y" = Years.
Date	The corresponding date.
Days	The exact number of days remaining until the value date for the selected currency.
Sec. acc. USD Bid	The securities account bid interest rate of the US dollar at this value date.
Sec. acc. USD Ask	The securities account bid interest rate of the US dollar at this value date.
Swap % Bid	The bid price of the swap in percent at this value date for the selected currency.
Swap % Ask	The ask price of the swap in percent at this value date for the selected currency.
Interest Bid	The bid price at this value date for the selected currency.

Column	Description
Interest Ask	The ask price at this value date for the selected currency.

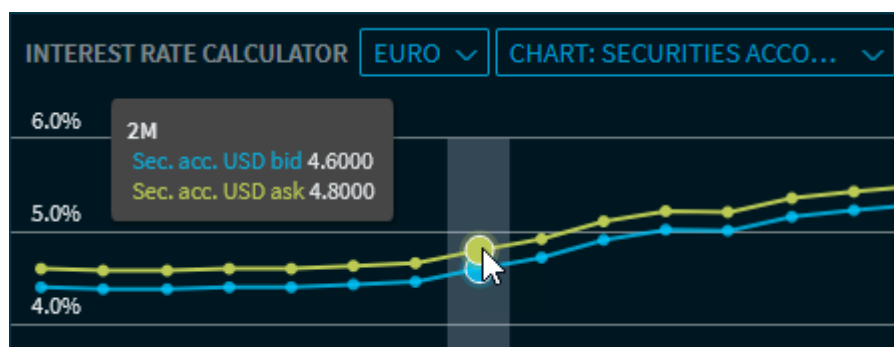
The Swap Calculator offers the following views:

- Overview
- Chart: Securities account
- Chart: Swap
- Chart: Interest

Example: "Chart" view: securities account"



The interest rates are indicated on the y-axis, the corresponding periods on the x-axis. Point to the chart lines to display the corresponding details.



See also:

- [Settings in the "Interest Rate Calculator" widget](#)

5.25.1 Settings in the "Interest Rate Calculator" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

Push:

☐ ENABLED

Interpolation:

LINEAR

Day count convention:

ENGLISH ACT/365

Presentation:

VALUE DATE	MARK	VISIBLE	VALUE DATE	MARK	VISIBLE
ON	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1W	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2W	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3W	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1Y	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18M	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2Y	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3Y	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4Y	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6M	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5Y	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SAVE CHANGES

Here, you can make the following settings:

Field	Description
Push	Here, you can use the "enabled" checkbox to enable or disable the push data feed.
Interpolation	Select the type of interpolation from this drop-down list. You can select from the following options: <ul style="list-style-type: none"> • Linear • Spline

Field	Description
Calculation method	<p>Select the yield day count convention from this drop-down list. You can select from the following methods:</p> <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/365 (default setting) • ISMA (ACT/ACT) • ISMA 30E/360
Display	<p>Specify which value date periods are to be displayed. To do this, select or clear the corresponding checkboxes in the "Visible" column.</p> <p>You can also use the checkboxes in the "Highlighted" column to specify which of the displayed values should be highlighted in colour.</p>

For more information about the widget settings, see [Commands in the widget menu](#).

5.26 Fund Comparison

With the "Fund Comparison" widget, you can compare up to 10 funds and ETFs. In addition to the master data comparison, you can also find a risk and performance comparison as well as a graphical chart analysis of the fund.

FUND COMPARISON MASTER DATA ADD ANOTHER FUND		
	UNIGLOBAL 	DEKALUX-GLOBALRESOU...
ISIN	DE0008491051	LU0349172485
WKN	849105	DK1A30
Issue price / Redemption price	341.84 / 325.56	94.71 / 91.29
Issuer	Union Investment Privatfonds GmbH	Deka International S.A.
Asset allocation	Equity Fund	Equity Fund
EFCF Category	Equity Global	Equity Global Materials
Country	Germany	Luxembourg
Admittance	DE, AT, LU, CH, IT	DE, AT, LU, IE
UCITS / AIF	UCITS	UCITS
Currency	Euro	Euro
Benchmark	MSCI WORLD NR USD	MSCI WRLD/MATERIALS NR USD

First, use the two drop-down lists above to select the certificates that you want to compare. Alternatively, drag the certificates from other widgets. Open the securities search:

FUND COMPARISON MASTER DATA ADD ANOTHER FUND		
	UNIGLOBAL 	DEKALUX-GLOBALRESOU...
ISIN	DE0008491051	<input type="text" value="Q dekal"/>
WKN	849105	DEKASTRK: ERTRAGPLUS FUND 989578
Issue price / Redemption price	341.84 / 325.56	DEKASTRK:3 ERTRAG+ FUND 554001
Issuer	Union Investment Privatfonds GmbH	DEKALUX-GLOBALRESOURC... FUND DK1A31
Asset allocation	Equity Fund	to see the

If you already searched for funds, then you can select them from the quick selection below the search field. Use the "Add another fund" button to display up to ten funds.

ADD ANOTHER FUND

With the drop-down lists, you can replace the selected fund. With the "Remove" icons next to the drop-down lists, you remove the corresponding fund.

In addition to the drop-down lists for the funds, you can select the relevant trading venue with currency for the fund comparison for each fund via the associated trading venue drop-down list.

UNIGLOBAL ▾	Investment funds (EUR)	×	DEKALUX-GLOBALRESOU... ▾	🏛️ ▾
DE0008491051	Hamburg (EUR)		LU0349172485	
849105	Berlin (EUR)		DK1A30	
341.84 / 325.56	Düsseldorf (EUR)		94.71 / 91.29	
Union Investment P	Munich (EUR)		Deka International S.A.	
Equity Fund	Tradegate (EUR)		Equity Fund	
Equity Global	Stuttgart (EUR)		Equity Global Materials	
Germany	LS Exchange (EUR)		Luxembourg	
DE, AT, LU, CH, IT	Frankfurt (EUR)		DE, AT, LU, IE	
UCITS	FIDA (EUR)		UCITS	
Euro	Investment funds NL (EUR)		Euro	
	Gettex (EUR)			
	Baader Bank (EUR)			
	Quotrix (EUR)			
	Switzerland (EUR)			

For each fund in the widget, the familiar menu is available in the header that you can use to quickly open the fund in another widget or also print it.

ADD ANOTHER FUND	UNIGLOBAL ▾	🏛️ ▾	➡️ ⋮ ×
DE0008491051			
849105			



You can copy the chart to the clipboard using the "Copy chart to clipboard" icon.



The "Fund Comparison" widget also supports grouping widgets. Here, the **fund in the first column of the widget** is always taken into account.

See also:

- [Fund Comparison - Fund company](#)
- [Fund Comparison - Investment focus](#)
- [Fund Comparison - Chart](#)
- [Funds Comparison - Risk](#)
- [Settings in the "Fund Comparison" widget](#)

- Fund Comparison - Master data

5.26.1 Fund Comparison - Fund company

FUND COMPARISON FUND COMPANY ADD ANOTHER FUND				
	UNIGLOBAL	DWS TOP WORLD	DWS INV GL EM EQUITIES LC	UNIFONDS
Fund manager	Gunther Kramert, Bernd Schröder	Nils Ernst, Martin Berberich	Sean Taylor	Michael Muders, Jürgen Hackenberg
Company	Union Investment Privatfonds GmbH	DWS Investment GmbH	DWS Investment S.A.	Union Investment Privatfonds GmbH
Street	Weißfrauenstraße 7	Mainzer Landstraße 11-17	Boulevard Konrad Adenauer 2	Weißfrauenstraße 7
ZIP code	60311	60329	1115	60311
City	Frankfurt am Main	Frankfurt am Main	Luxemburg	Frankfurt am Main
Country	Deutschland	Deutschland	Großherzogtum Luxemburg	Deutschland
Phone	+49 69 58998-0	+49 (0)69-910-12371	+ 352 42 101 860	+49 69 58998-0
Fax	–	–	–	–
E-mail	service@union-investment.de	info@dws.com	dws.lu@db.com	service@union-investment.de
URL	www.union-investment.de	www.dws.com	www.dws.lu	www.union-investment.de

In the "Fund company" view, you will find the information regarding the Fund companies of the funds:

- Fund manager
- Company
- Street
- Postcode
- City
- Country
- Phone
- Fax
- E-mail
- URL (Homepage)

5.26.2 Fund Comparison - Investment focus

From the drop-down list at the top, select the "Investment focus" view to compare the funds by investment focus.

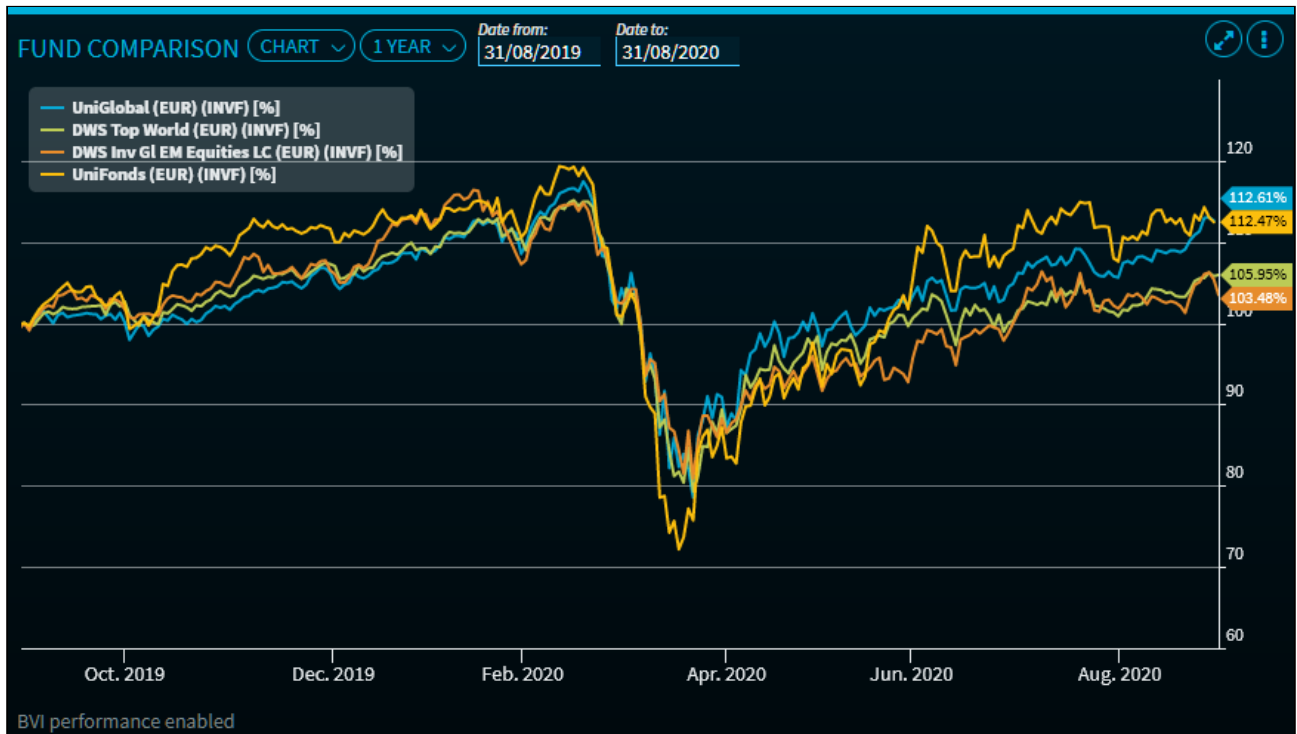
FUND COMPARISON INVESTMENT FOCUS ADD ANOTHER FUND				
UNIGLOBAL DWS TOP WORLD DWS INV GL EM EQUITIES LC UNIIMMO: EUROPA				
Top 5 regions				
62.82% - United States	56.10% - United States	33.50% - China	66.87% - Advanced Europe	
8.26% - Japan	4.90% - Netherlands	13.90% - South Korea	33.13% - Global	
5.93% - Germany	4.70% - Switzerland	10.70% - Taiwan	–	
5.11% - France	4.40% - Japan	9.00% - India	–	
4.36% - Ireland	4.00% - United Kingdom	4.40% - Cayman Islands	–	
Top 5 currencies				
–	64.00% - USD	29.40% - USD	–	
–	9.50% - EUR	29.30% - HKD	–	
–	7.80% - JPY	14.20% - KRW	–	
–	4.70% - CHF	11.00% - TWD	–	
–	3.90% - GBP	4.30% - INR	–	
Top 5 industries				
28.14% - Information Technology	18.20% - Information Technology	19.80% - Financials	–	
15.04% - Health Care	15.40% - Financials	17.70% - Consumer Discretionary	–	
13.00% - Financials	12.00% - Communication Services	17.10% - Information Technology	–	
12.64% - Consumer Discretionary	10.90% - Consumer Staples	15.10% - Communication Services	–	
8.79% - Communication Services	10.90% - Health Care	4.80% - Materials	–	
Top 5 holdings				
5.38% - Apple	5.50% - Alphabet Inc (Kommunikation...	8.40% - Tencent Holdings Ltd (Kommu...	59.93% - Büro	
4.85% - Alphabet	3.90% - Apple Inc (Informationstechno...	8.30% - Alibaba Group Holding Ltd (Da...	28.52% - Einzelhandel	
4.78% - MICROSOFT	2.80% - Nestle SA (Hauptverbrauchsgü...	5.30% - Samsung Electronics Co Ltd (I...	8.30% - Hotel	
4.26% - Amazon.com	2.70% - JPMorgan Chase & Co (Finanz...	4.60% - Taiwan Semiconductor Manuf...	2.94% - Logistik	
3.16% - UnitedHealth Group	2.36% - Mastercard (Informationstechnolo...	2.70% - Priceline Group (Reise...	2.36% - Microsoft	

In this view, the funds are compared by the following criteria:

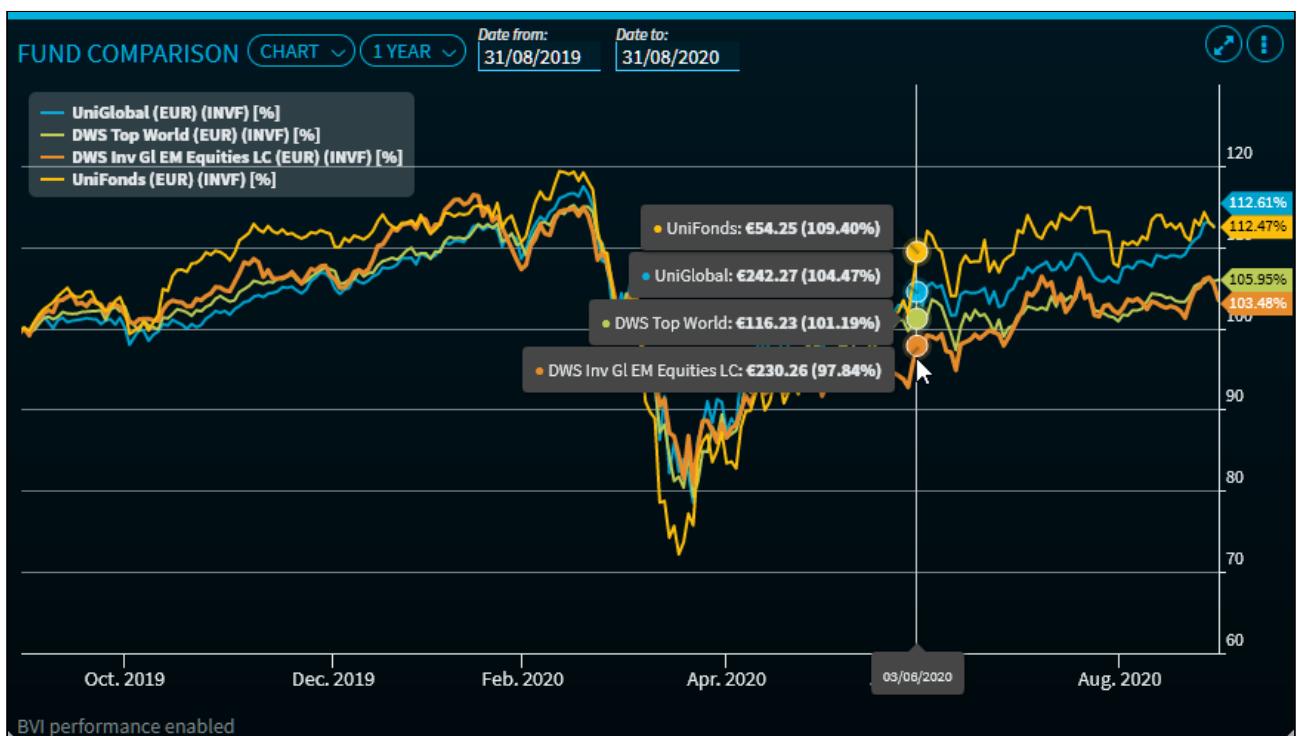
- Top 5 regions
- Top 5 currencies
- Top 5 industries
- Top 5 holdings
- Top 5 types (of securities)

5.26.3 Fund Comparison - Chart

In the drop-down list at the top, select the "Chart" view to display the fund as time series in a chart:



"1 year" is set by default, showing the performance of the funds over the last 12 months. The 100 line corresponds to the level one year ago. Point to the time series to show the price information for a particular date.



The second drop-down list at the top allows you to change the period of the chart. The following periods are available:

- 3 days
- 1 week
- 1 month

- 6 months
- Year to date
- 1 year
- 3 years
- 5 years
- 10 years
- Max. (all available data since the oldest fund issued)

In addition, you can set a custom time period using the integrated calendars in the "Date from:" and "Date to:" input fields.



Click a fund name in the legend to show or hide its time series.
By using the widget's menu icon, you can export the charts in the "Fund Comparison" widget to various file formats. For more information about working with charts, see [Chart](#).

5.26.4 Funds Comparison - Risk

From the drop-down list at the top, select the "Risk & Performance" view to display the most important performance and risk key indicators for the funds selected.

FUND COMPARISON RISK & PERFORMANCE ADD ANOTHER FUND				
	UNIGLOBAL	DWS TOP WORLD	DWS INV GLEM EQUITIE...	UNIFONDS
1-month performance	+6.81%	+3.90%	+2.58%	+1.05%
6-month performance	+9.91%	+4.69%	+2.69%	+7.50%
YTD performance	+4.81%	-2.97%	-6.14%	+0.34%
1-year performance	+15.95%	+8.94%	+8.51%	+15.41%
3-year performance	+40.06%	+31.26%	+9.23%	+9.42%
5-year performance	+55.51%	+48.37%	+40.16%	+26.24%
10-year performance	+183.22%	+158.88%	+17.82%	+102.33%
Perf. since inception	+2,406.70%	+263.99%	+148.03%	+16,308.70%
1-year volatility	28.32%	22.84%	23.82%	30.78%
3-year volatility	19.11%	16.17%	18.17%	21.35%
Max. loss (6 months)	-27.38%	-24.62%	-23.28%	-33.93%
Longest losing period*	2 Month(s)	2 Month(s)	3 Month(s)	5 Month(s)
Outperform probability*	44.444	44.444	47.222	47.222
1-year Sharpe Ratio	0.5502	0.30573	0.31105	0.37532
3-year Sharpe Ratio	0.81229	0.65718	0.19262	0.21472
Tracking error (1 year)	7.04%	6.61%	8.00%	3.65%

The key indicators in detail:

- 1-month performance
- 6-month performance
- Performance YTD
- 1-year performance
- 3-year performance
- 5-year performance
- 10-year performance
- Performance since launch
- 1-year volatility
- 3-year volatility
- Max. loss (6 months)
- Longest loss period (monthly on a 3-year basis)

- Outperformance probability (3 years)
The probability of outperformance is defined as the ratio of the number of periods with positive outperformance to the number of observation periods n within a range of n periods.
- 1-year Sharpe ratio
- 3-year Sharpe ratio
- Tracking error (1 year)
The tracking error is defined as the annualised standard deviation over n sample periods of the difference time series of security performance and underlying security performance (see preliminary comment).
- Jensen's Alpha (1 year)
Jensen's alpha can be used as an evaluation criterion for the performance of the management (of a fund) with regard to the risk-adjusted benchmark yield. A positive Jensen's alpha implies an outperformance. The size of the Jensen's alpha indicates the excess return achieved through the active management of the fund manager.
- Beta factor (1 year)
To determine the beta, you divide the volatility of the equity by the volatility of the benchmark and multiply this ratio by the correlation between the two assets.
- Positive regression
- Negative regression
- Diamond rating
- SCOPE fund rating
- SRRI (Synthetic Risk and Reward Indicator)

5.26.5 Settings in the "Fund Comparison" widget



If you have opened the ["Chart" view](#) in the "Fund Comparison" widget, you can open the "Settings" dialogue window via the "Widget settings" icon at the top right of the widget.

Alternatively, you can use the "Settings" command in the widget menu for this view.

SETTINGS

Chart line and ordinate

Periods

CHART LINE AND ORDINATE SETTINGS

Ordinate outside chart:

☒ ENABLED

Legend:

☒ ENABLED

Show all fund charts in EUR:

☒ ENABLED

Show quote information:

☒ IN LEGEND
 ☐ IN TOOLTIP

BVI performance (include distributions - alters hist. quotes):

☒ ENABLED

Show last values:

☒ ENABLED

Highlight chart-lines:

☐ ENABLED

SAVE

Configure your chart in the "Fund Comparison" widget here. The various setting options are clearly grouped into areas, which you can select on the left side:

- Chart line and ordinate
- Period

Settings for chart line and ordinate settings

You can make the following settings for the chart graph and ordinate:

Parameter	Description
Ordinate outside chart	By default, the ordinates are displayed outside the chart. Clear this checkbox to display the y-axis values outside of the chart.
Legend	Clear this checkbox to hide the legend shown by default on the upper left side of the chart.
Show all fund charts in EUR	By default, all charts of the funds are displayed in euro in the widget for better comparability. Clear this checkbox if you want to display each fund in its default currency in the chart.
Show prices	Choose here whether the prices in the chart are to be displayed in the legend (default setting) or in a tooltip that appears at the mouse pointer.

Parameter	Description
BVI performance (including consideration of distributions and changes in historical exchange rates)	Clear this checkbox, which is selected by default, if you do not want to include BVI performance in the chart.
Show last values	Clear this checkbox to turn off the default display of current prices on the right side of the chart.
Highlight chart line	Select this checkbox to switch on the "highlighting" of the chart lines (when pointing to the lines in the chart or in the legend). This setting is disabled by default.

Period

In this section of the settings, you can define individual, custom display periods for your charts. To do this, follow these steps:

1. On the left side of the "Settings" dialogue window, select the "Periods" area.
2. Click the "Add period" button.
3. Enter the relevant name for the first custom period in the "Name" input field.
4. Then click the "Settings" button for this period.
5. Configure the new time period. The table below contains descriptions of the individual setting options.
6. Then click the "Save" button. (Use the "Back" button to exit the settings for the period without saving any changes you may have made).
7. If you want to add further columns, then select the "Add period" button in the "Periods" area and proceed in the same way.

You can delete your own time periods by clicking the respective "Delete" buttons.

The settings of the custom time periods in detail:

General	
Field	Description
Name	Enter the relevant name for the period here. You can freely define the name of a period - or leave it blank for the time being and use the automatic name generation. The name of the column is then automatically generated by the system according to the time periods you set. The name of the period can be changed later.
Automatic naming	Select this setting to automatically generate the name of the period. The name is generate depending on the time periods and start and end times set below.

Selected period	<p>Here, you can see the always updated period resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year
Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>

Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>
Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div> <p>Example</p> <p>In August 2022, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2022".</p> </div>

The defined and saved time periods are then available for selection in the widget in the drop-down list of time periods. The user-defined periods are added at the bottom of the drop-down list.

5.26.6 Fund Comparison - Master data

FUND COMPARISON MASTER DATA ADD ANOTHER FUND				
	UNIGLOBAL	DWS TOP WORLD	DWS INV GLEM EQUITIES LC	UNIIMMO: EUROPA
ISIN	DE0008491051	DE0009769794	LU0210301635	DE0009805515
WKN	849105	976979	A0DP7P	980551
Issue price / Redemption price	274.21 / 261.15	126.58 / 121.70	256.34 / 243.52	57.40 / 54.67
Company	Union Investment Privatfonds GmbH	DWS Investment GmbH	DWS Investment S.A.	Union Investment Real Estate GmbH
Fund group	Equity Fund	Equity Fund	Equity Fund	Real Estate Fund
Fund type	Equity Global	Equity Global	Equity Emerging Markets	Open-ended real estate
Country	Germany	Germany	Germany	Germany
Admittance	DE, AT, LU, CH, IT	DE, LU, CH	DE, AT, GB, ES, FR, CH, BE, IE, CL	DE
UCITS / AIF	UCITS	UCITS	UCITS	AIFM
Currency	Euro	Euro	Euro	Euro
Benchmark	MSCI WORLD NR USD	MSCI WORLD NR USD	MSCI EM (EMERGING MARKETS) NR USD	MSCI WRLD/REAL ESTATE NR USD
NAV	261.15	121.70	243.52	54.67
Inception date	2 Jan 1960	17 Jan 1997	29 Mar 2005	1 Apr 1985
Fund age	60 Year(s)	23 Year(s)	15 Year(s)	35 Year(s)
Fund volume	7 bn EUR	2 bn EUR	217 m EUR	13 bn EUR
Asset class volume	8 bn EUR	2 bn EUR	–	13 bn EUR
Fund manager	Gunther Kramert, Bernd Schröder	Nils Ernst, Martin Berberich	Sean Taylor	Thorsten Honner, Björn Thiemann
Distribution type	Distributing	Distributing	Accumulating	Distributing
Distribution frequency	Annual	Annual	–	Annual
Ongoing charges	1.45%	1.46%	1.60%	0.94%
Management fee	–	–	–	–
Asset-based fee	5.00%	4.00%	5.00%	5.00%
Redemption price	–	–	–	–

The "Master data" view allows you to compare the funds using the following criteria:

- ISIN
- WKN
- Issue / Redemption
- Company
- Asset allocation (fund type such as "equity fund")
- EFCF category (fund type such as "global equities")
- Region/Country
- Country
- Distribution approval
- UCITS/AIF (Undertakings for Collective Investment in Transferable Securities/Alternative Investment Funds)
- Currency
- Category benchmark
- NAV (Net Asset Value)
- Issue date
- Fund age
- Fund volume shareclass level
- Fund volume subfund level
- Fund manager
- Distribution type ("Distributing" or "Accumulating")
- Distribution frequency (for example, "Annually")
- Ongoing charges
- Management fee
- Front-end load
- Performance fee
- Redemption fee
- Administration fee

- Suitable for savings plans
- VWL capable (capital-forming benefits)
- Riester fund
- SFDR

5.27 Portfolio

Use the "Portfolio" widget to create and monitor your individual securities accounts. The "Portfolio" widget contains all basic functions necessary to monitor portfolios in real time. Several currencies are supported. Thus, you can always keep an eye on the performance and react quickly if necessary.

Record your buy and sell transactions and calculate the real time performance for the entire securities account and all positions.



QUANTITY	NAME (SHORT)	TIME	PRICE	NET CHANGE	%	± TODAY	± TODAY %	± TOTAL	± TOTAL %	ISIN	NOTE
100.00	MERCEDES-BENZ GRP NA O.N.	14:59:15	72.37	+0.42	+0.58%	+42.00	+0.59%	+142.00	+2.00%	DE0007100000	
100.00	APPLE INC.	14:43:12	143.66	-0.84	-0.58%	-78.55	-0.59%	+955.37	+7.12%	US0378331005	
100.00	SAP SE O.N.	13:44:50	110.76	+0.14	+0.13%	+14.00	+0.13%	+6.00	+0.05%	DE0007164600	
100.00	AUTODESK INC.	13:59:12	207.15	-0.55	-0.26%	-55.00	-0.27%	+400.00	+1.97%	US0527691069	
100.00	SKYWORKS SOL. DL-25	08:46:37	113.88	+3.48	+3.15%	+348.00	+3.25%	+688.00	+6.43%	US83088M1027	

Similar to the "Watchlist" widget, you find the "Top Flop" view of the positions as well as a correlation matrix and a risk/return matrix for securities. In addition, you can show all positions of the portfolio in a ticket tape or analyse them visually by various criteria in the "Analysis" view.

See also:

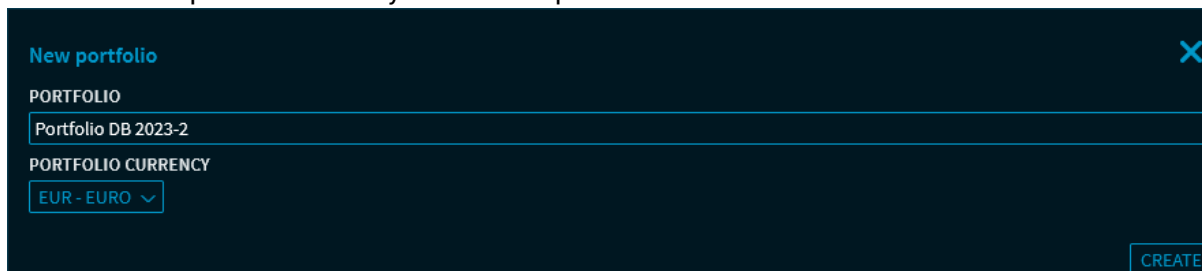
- [Create new portfolio](#)
- [Open portfolio](#)
- ["Select portfolio" menu](#)
- [Positions in the "Portfolio" widget](#)
- [Record account posting](#)
- [Standard elements in the "Portfolio" widget](#)
- [Edit portfolio](#)
- [Import portfolio](#)
- [Delete portfolio](#)
- [Settings in the "Portfolio" widget](#)
- [Views in the "Portfolio" widget](#)

5.27.1 Create new portfolio

You can create multiple portfolios. To create a new portfolio:

1. If you haven't opened an "Watchlist" widget in your private dashboard yet, then open the Widget Gallery, and then search for the "Portfolio" widget.
2. In the "Portfolio" widget, open the first drop-down list in the corresponding folder and select "New portfolio" in the upper part of the list.

3. In the "New portfolio" dialogue window that appears, enter a unique name in the "Portfolio" field, and then select the portfolio currency from the drop-down list.



4. Confirm the changes with the "Save" button.
The portfolio with the selected name is created and shown in the widget. Now, you can add securities to this portfolio (that is, record purchase transactions).



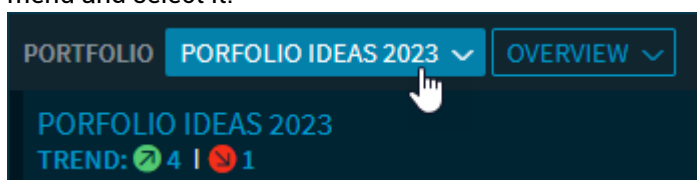
To create your portfolios in a custom folder structure, create the corresponding folders and there the new portfolios by clicking the "New portfolio" command on the corresponding level of the menu.

You can quickly generate new portfolios from result lists of the general search, the screener or also from corresponding vwd pages. For more information, see [Create instruments from Screener as new portfolio](#) or [Create securities from vwd page as a new portfolio](#). In addition, you also have the option, for example, to import previously exported portfolios or appropriately formatted CSV files as new portfolios. For more information, see [Import portfolio](#).

5.27.2 Open portfolio

To open a portfolio:

1. Go to the "Portfolio" widget.
2. If you have created several portfolios, switch to the relevant one by using the watchlist drop-down menu and select it.

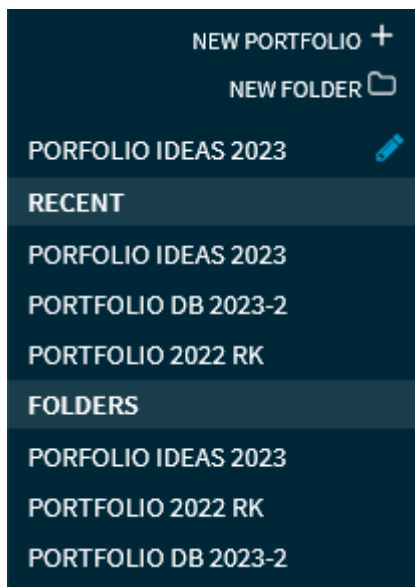


In the menu, you will find the 5 most recently opened portfolios for quick selection in the "Last" section at the top. In the "Folder" area, you can select (as in the [Dashboard Explorer](#)) the relevant portfolio from the folder structure.

The portfolio opens in the widget in the overview or in the previously selected view.

5.27.3 "Select portfolio" menu

At the top of the "Portfolio" widget, you find the drop-down list to select portfolios.



The "Select portfolio" menu provides various functions:

- At the top of the menu, in the "Last" section, you will find the up to 5 of the most recently opened portfolios for quick selection.
- In the "Folder" area, you can select and open (as in the [Dashboard Explorer](#)) the relevant portfolio from the folder structure. Here, you can also organise your portfolios in a folder structure by creating the corresponding folders in the "Select portfolio" menu by using the "New folder" command.
- To switch to another portfolio, select it from the corresponding folder in the menu.
- To create a new portfolio, select the "New portfolio" command on the corresponding folder level.
- You can delete created folders and portfolios in edit mode.

For more information about the individual functions and menu structure, see [Dashboards](#).

5.27.4 Positions in the "Portfolio" widget


In this section, you find all details about the positions (securities, instrument...) in a portfolio. Learn how to add, edit, sell or delete securities positions.

See also:

- [Add position to portfolio](#)
- [Show transactions of a position](#)
- [Edit position](#)
- [Buy to add](#)
- [Add dividend to a position](#)
- [\(50-en\) Merge positions](#)
- [Sell position](#)
- [Transfer position to another portfolio](#)
- [Short positions in portfolios](#)
- [Delete position](#)

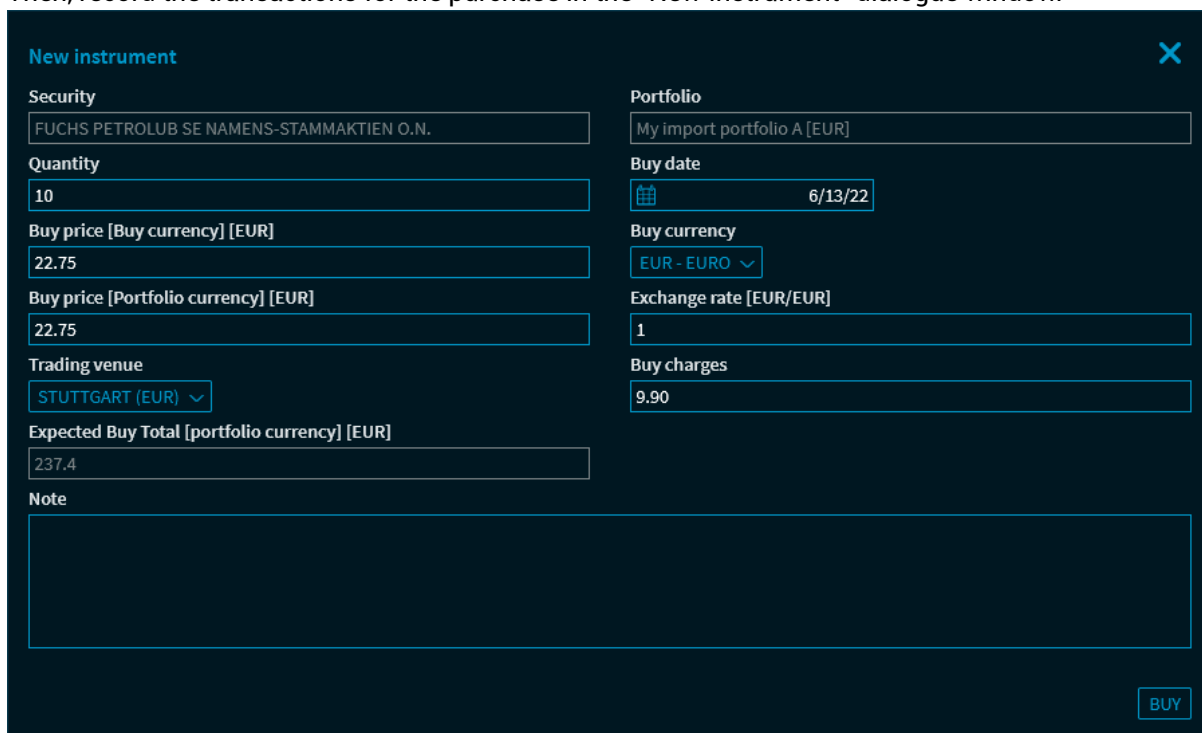
Add position to portfolio

To add positions to your portfolio, you have the following two options, for example:

-  Open the quick search by using the "Instrument search" icon and select the security.
- Or drag and drop the security from another widget into the portfolio.

To record a "buy" transaction:

1. Go to the "Portfolio" widget.
2. Open the corresponding portfolio from the drop-down list.
3. Then click the "Instrument search" icon in the widget and select a security from the list or search for it by using the input field of the quick search.
4. Then, record the transactions for the purchase in the "New Instrument" dialogue window.



If the purchase date is in the past, the historical exchange rate may be displayed.


5. Complete the purchase with the "Buy" button.
The security appears with the entered data as a position in the portfolio.



When you drag a security from a different widget, the "New instrument" dialogue window for entering transaction data opens at once.
From result lists of the screener, you can quickly add instruments to portfolios. For more information, see [Add instruments from Screener to existing portfolio](#).

The transaction data that you can view or enter in detail:

Field	Description
Security	The name of the security that you want to buy.
Portfolio	The name of the portfolio currently selected in the widget.

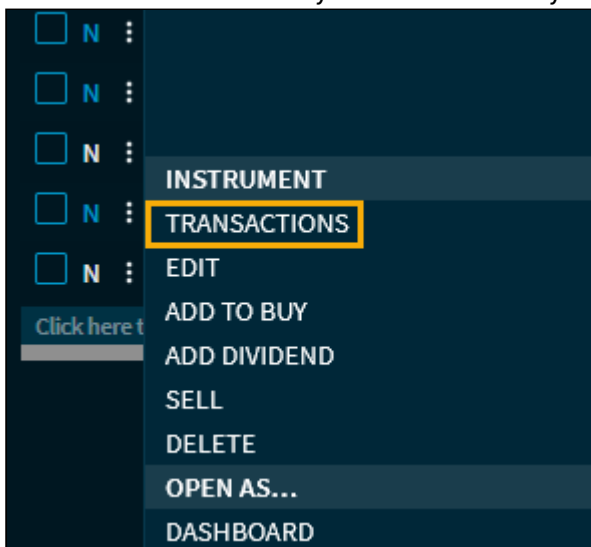
Field	Description
Unit or nominal	<p>The number of units purchased or the nominal value in the case of percentage-listed securities.</p> <div>  If you want to enter a short position, enter a negative value here. </div>
Buy date	<p>The date of the purchase.</p> <p>The current date is set by default.</p>
Buy price [Buy currency]	The buy price value of the transaction in buy currency. The buy currency is displayed in brackets behind it.
Buy currency	The buy currency of this buy transaction.
Buy price [Portfolio currency]	The buy price value of the transaction in portfolio currency. The portfolio currency is displayed in brackets behind it.
Exchange rate	<p>If the buy currency and portfolio currency are different, then the exchange rate of the currencies is displayed. You can change the exchange rate, if necessary.</p> <p>In brackets, you see the corresponding currency code. Example: "[USD/EUR]" for a purchase of one share in US dollars for a portfolio in euros.</p>
Trading venue	Select the trading venue of the transaction.
Buy charges	In this field, enter the purchasing expenses incurred by the transaction.
Expected Buy Total [portfolio currency]	<p>The expected purchase amount in portfolio currency.</p> <p><i>Calculation: Units * buy price [portfolio currency] * FX rate + buy charges</i></p> <p>This field is informative and cannot be edited.</p>
Note	You can enter notes on this transaction.
"Buy" button	After entering the data, click this button to complete the buy transaction and add the position.

Show transactions of a position

For all existing positions in your portfolio, you can display the transactions entered so far. To do this, follow these steps:

1. Go to the "Portfolio" widget.
2. Open the corresponding portfolio from the drop-down list.

3. In the position overview, open the menu via the menu icon in the row with the position to be deleted and select the "Buy to add" menu entry.



Now, the "Transactions" dialogue window lists all transactions of the selected position.

Transactions: SAP SE O.N. (DE0007164600) ✕							
TYPE	DATE	QUANTITY	PRICE	CCY.	EXCHANGE RATE	AMOUNT [€]	
PURCHASE FEES	Nov 11, 2020	—	—	—	—	-10.00	
SECURITIES PURCHASE	Nov 11, 2020	111.00	101.66	EUR	1.00	-11,284.26	
SECURITIES PURCHASE	Nov 11, 2020	33.00	101.24	EUR	1.00	-3,340.92	
PURCHASE FEES	Nov 11, 2020	—	—	—	—	-14.22	
SECURITIES PURCHASE	Nov 11, 2020	1.00	101.22	EUR	1.00	-101.22	
SECURITIES PURCHASE	Sep 8, 2020	111.00	134.74	EUR	1.00	-14,956.14	
Sum of displayed amounts [€]						-29,706.76	

4. Use the close icon in the upper right corner to close the "Transactions" dialogue window.

The columns in the "Transactions" dialogue window in detail:

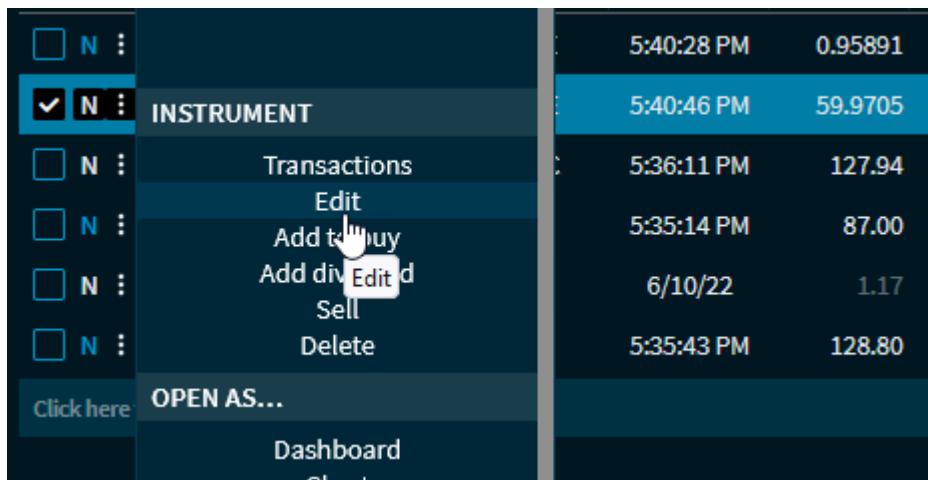
- Type (for example, purchase of securities, sale of securities, dividends, buy and sale charges)
- Date
- Quantity
- Price
- Currency
- Exchange rate
- Amount

Click a column header to re-sort the list. Below the table, you can see the sum of the displayed amounts.

Edit position

You can edit the positions of a portfolio at any time. To do this, follow these steps:

1. In the position overview, open the menu via the menu icon in the row with the position to be edited and select the command EDIT INSTRUMENT.



2. Edit the data in the "Edit instrument" dialogue window that appears.

Edit instrument: SAP SE O.N.

☐ Buy to add
Quantity

Buy price [Buy currency] [EUR]

Buy price [Portfolio currency] [EUR]

Trading venue

Expected Buy Total [portfolio currency] [EUR]

Note

Buy date

Buy currency

Exchange rate [EUR/EUR]

Buy charges

DELETE SAVE

The fields correspond to those for recording positions. For more information, see [Add position to portfolio](#).

3. Click the "Save" button to save the changes.
The position is changed accordingly.


The buttons in the "Edit instrument" dialogue window:

Button	Description
Delete	Click this button to delete the selected positions from the portfolio. a security prompt appears before the final deletion of the position.
Save	Click this button to save the input and close the dialogue window.

- ✓ From the dialogue window for editing a position, you can go directly to the dialogue window for [Buy to add this position](#). To do this, select the "Buy to add" checkbox.

Buy to add


To add to existing positions in your portfolio, you can use the "Buy to add" entry. To do this, follow these steps:

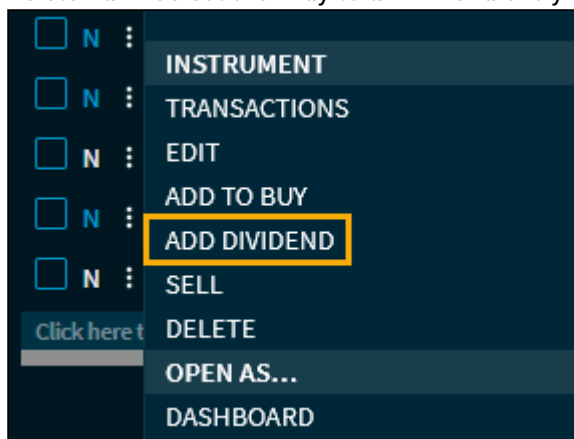
1. Go to the "Portfolio" widget.
2. Open the corresponding portfolio from the drop-down list.
3.  In the position overview, open the menu via the menu icon in the line with the position to be re-purchased and select the "Buy to add" command in the "Instrument" area.
4. Then enter the transaction data for the buy transaction in the "Buy to add" dialogue window. The entry fields correspond to those for a buy and are described in [Add position to portfolio](#).
5. Complete the sale by clicking the button "Buy to add".
This adjusts the positions accordingly: The quantity is increased and the resulting entry sum or buy price will be calculated.

- ✓ From the dialogue window for [Edit a position](#), you can go directly to the dialogue window used for buying to add this position. To do this, select the "Buy to add" checkbox.

Add dividend to a position

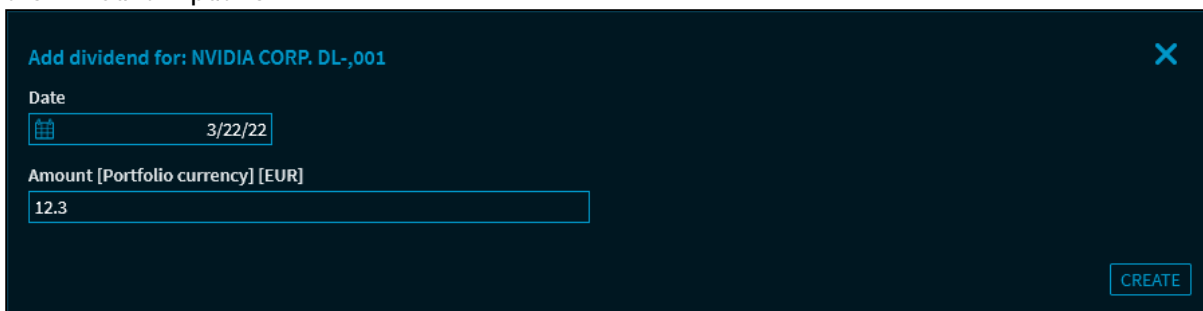
To enter a dividend for an existing position in your portfolio:

1. Go to the "Portfolio" widget.
2. Open the corresponding portfolio from the drop-down list.
3.  In the position overview, open the menu via the menu icon in the row with the position to be deleted and select the "Buy to add" menu entry.



4. Then enter the dividend in the "Add dividend" dialogue window. Select the corresponding date by using the calendar and enter the total amount of dividends for the position in portfolio currency in


the "Amount" input field.

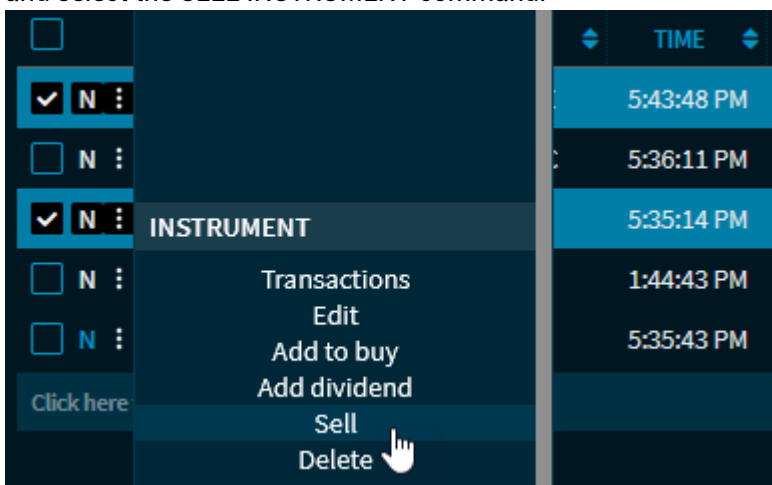


- Complete the entry of the dividend by clicking the "Invest" button.
This records the dividend. By using the dividend column (hidden by default), you can view the added dividends in the "Overview" view.

Sell position

To sell positions from your portfolio:

- Go to the "Portfolio" widget.
- Open the corresponding portfolio from the drop-down list.
-  In the position overview, open the menu via the menu icon in the row with the position to be sold and select the SELL INSTRUMENT command.



		TIME
<input checked="" type="checkbox"/>	N	5:43:48 PM
<input type="checkbox"/>	N	5:36:11 PM
<input checked="" type="checkbox"/>	N	5:35:14 PM
<input type="checkbox"/>	INSTRUMENT	
<input type="checkbox"/>	Transactions	1:44:43 PM
<input type="checkbox"/>	Edit	5:35:43 PM
<input type="checkbox"/>	Add to buy	
<input type="checkbox"/>	Add dividend	
<input type="checkbox"/>	Sell	
<input type="checkbox"/>	Delete	

- In the "Sell" dialogue window, record the transaction data for the sale transaction.
The input fields are similar to those of a purchase and are described in [Add position to portfolio](#). In this case, the charges incurred in the transaction are of course the "Sell charges".



The available number of units is displayed in the "Quantity/Nominal" field. If you enter a higher number of units than available, a warning appears and the sale is not carried out.

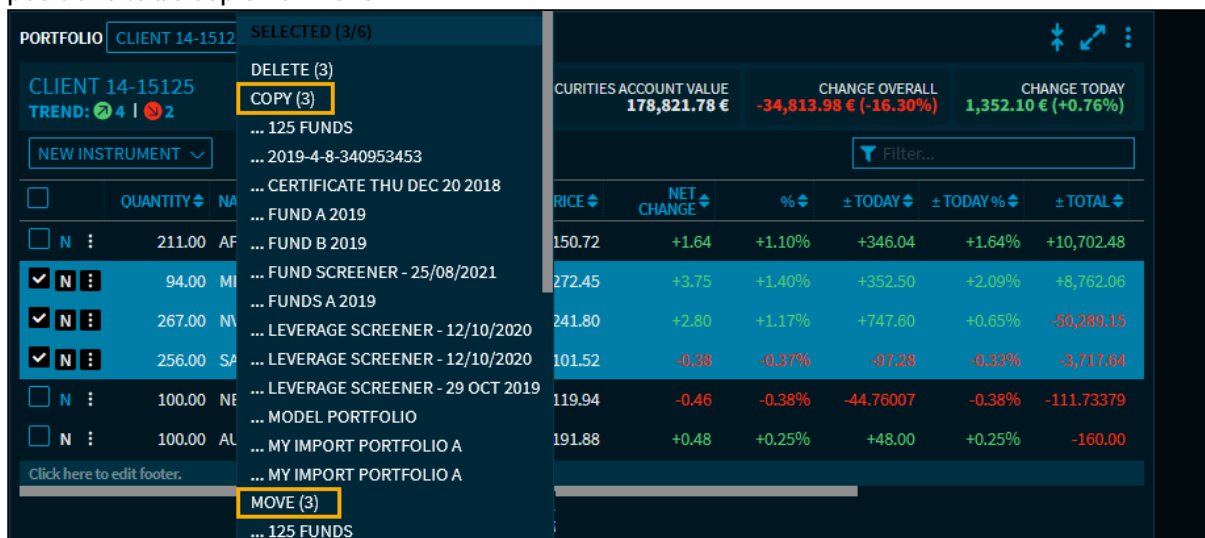
- Complete the sale by clicking the "Sell" button.
The position is deleted from the portfolio or reduced if it is a partial sale.

Transfer position to another portfolio

You can copy positions of a portfolio with all transaction data to another portfolio. When transferring positions, they are removed from the original portfolio.

To do this, follow these steps:

1. In the "Portfolio" widget, select the positions that you want to transfer.
2. Open the "Selected" drop-down list.
3. From the menu, select the positions you want to copy or move. In brackets, you see the number of positions to be copied or moved.



The screenshot shows the 'Portfolio' widget for 'CLIENT 14-1512'. The 'Selected' dropdown menu is open, showing options like 'DELETE (3)', 'COPY (3)', and 'MOVE (3)'. The 'COPY (3)' option is highlighted. The main table shows various fund positions with columns for Price, Net Change, %, and Today's change.

PRICE	NET CHANGE	%	± TODAY	± TODAY %	± TOTAL
150.72	+1.64	+1.10%	+346.04	+1.64%	+10,702.48
272.45	+3.75	+1.40%	+352.50	+2.09%	+8,762.06
241.80	+2.80	+1.17%	+747.60	+0.65%	-50,289.15
101.52	-0.38	-0.37%	-97.38	-0.33%	-3,717.64
119.94	-0.46	-0.38%	-44.76007	-0.38%	-111,73379
191.88	+0.48	+0.25%	+48.00	+0.25%	-160.00

The positions are transferred and are now available (also) in the other portfolio. You can then change the position for this individual position.

Short positions in portfolios

In the "Portfolio" widget, it is also possible to map short positions. To do this, simply enter a negative number of units when purchasing. There is no restriction to certain asset classes. Short futures positions as well as, for example, short sales with shares can therefore be mapped.

i If you have opened a short position, you can only specify further negative (but no positive) numbers of unit when buying to add and also only sell negative unit numbers when selling. This means that closing out a short position is not achieved by buying a long position, but by selling the short position.

New instrument

Security

FUCHS PETROLUB SE NAMENS-STAMMAKTEN O.N.

Quantity

-100

Buy price [Buy currency] [EUR]

24.20

Buy price [Portfolio currency] [EUR]

24.20

Trading venue

STUTTGART (EUR) ▾

Expected Buy Total [portfolio currency] [EUR]

-2,420

Note

Short position on Fuchs

Portfolio

My portfolio A [EUR]

Buy date

7/27/22

Buy currency

EUR - EURO ▾

Exchange rate [EUR/EUR]

1

Buy charges

0.00

BUY

PORTFOLIO

MY PORTFOLIO A ▾

OVERVIEW ▾

MY PORTFOLIO A

TREND: 3 | 1 | 2

SECURITIES ACCOUNT VALUE

13,653.01 €

CHANGE OVERALL

1,351.17 € (+10.98%)

CHANGE TODAY

-16.05 € (-0.12%)

NEW INSTRUMENT ▾

SELECTED (0/6) ▾

Filter...

Click here to edit footer.

i In the postings in the "Account" views and "Closed positions", purchases and sales of short positions are also shown and any resulting profits or losses are correctly netted.

Delete position

You can also delete positions from a portfolio.

To do this, follow these steps:

- i** In the position overview, open the menu via the menu icon in the row with the position to be deleted and select the command DELETE INSTRUMENT.
- Confirm the prompt that appears with "Yes".
This deletes the position from the portfolio.

To delete multiple positions at once:

1. In the "Portfolio" widget, select the positions that you want to delete by selecting the corresponding checkboxes.
2. Open the "Selected" drop-down list.
3. Select "Delete" from the drop-down list.
4. Confirm the prompt that appears with "Yes".
This deletes the positions from the portfolio.



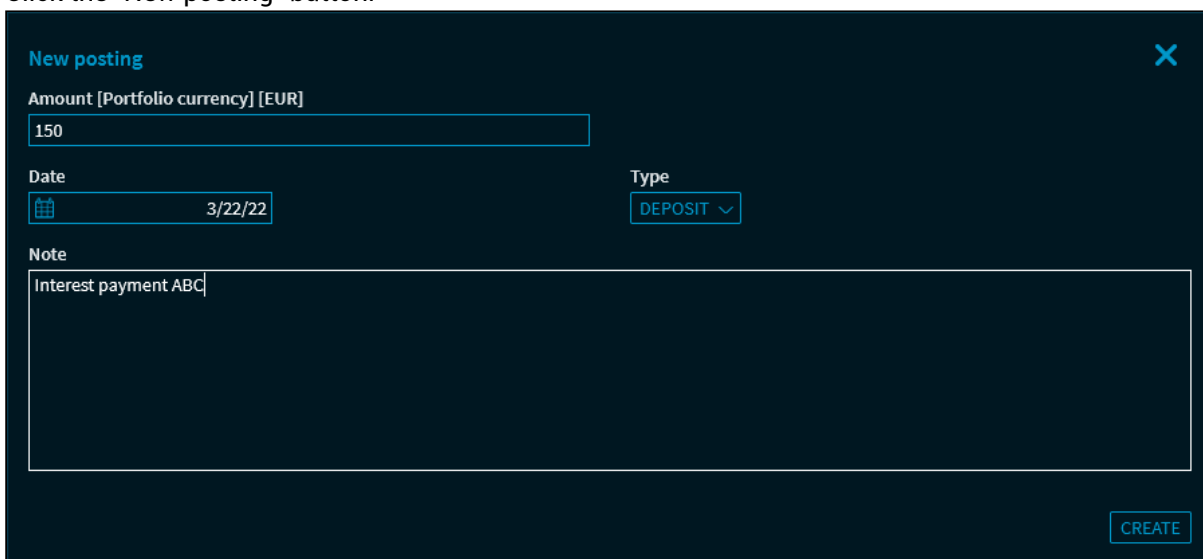
Note that when you delete a position, the corresponding account entries, splits and limits are also deleted.

5.27.5 Record account posting

In addition to buy and sell transactions described in [Add position to portfolio](#) and [Sell position](#), you can also record a record various other posting types. The postings without an associated security also lead to account movements.

To record a posting in a portfolio:

1. Go to the "Portfolio" widget.
2. If you have several portfolios, you can select a portfolio from the corresponding drop-down list.
The portfolio opens in the widget in the overview or in the previously selected view.
3. Select the "Cash account" view from the second drop-down list in the upper part of the widget. All account movements are listed.
4. Click the "New posting" button.



5. Enter the posting amount in the "New posting" dialogue window that appears.
6. Use the calendar in the "Date" field below to specify the posting date.
7. Select the posting type from the corresponding drop-down list.
8. In the "Note" input field, you can enter a comment on the posting.
9. Confirm your input by clicking "Create".

The posting appears in the list of account postings. The amount is shown in the "Credit" and "Debit" columns depending on the posting type.

You can select from the following posting types:

- Deposit

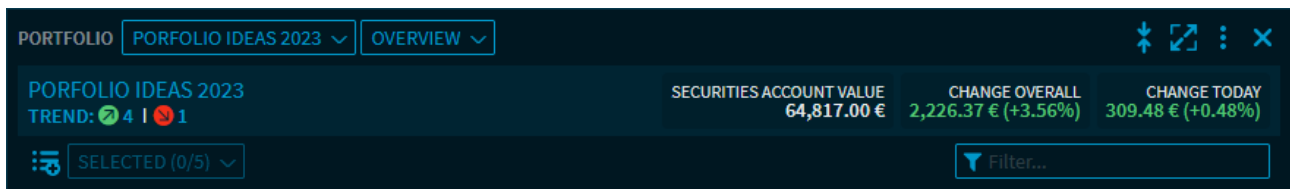
- Withdrawal
- Dividends
- Interest
- Fee
- Buy charges
- Sell charges
- Other refund
- Other charges
- Postage costs
- Flat tax (German flat tax on investment income and capital gains)
- Solidarity surcharge
- Church tax
- Limit fee
- Surplus settlement after split
- Refunded flat tax
- Refunded solidarity surcharge
- Refunded church tax
- Real estate purchase
- Real estate sale



Allows you to resubmit the posting of the corresponding row, that is, to edit or delete it.

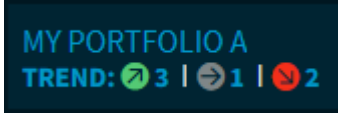
5.27.6 Standard elements in the "Portfolio" widget

The navigation and selection elements in the upper part of the "Portfolio" widget are available in any view.



In addition to the standard icons, you can find the following elements in the upper part of the widget:

Element	Description
Selectportfolio	<p>From the drop-down list in the upper left corner, you can select and open a portfolio, add a new folder to structure the menu or create a new portfolio.</p> <p>The name of the currently selected portfolio is shown on the closed drop-down list.</p>

Element	Description
Select view	<p>The second drop-down list allows you to change the portfolio view. You can select from the following views:</p> <ul style="list-style-type: none"> • Overview • 88114211 • Account • Log • Closed positions • Tile view • Top Flop • Correlation Matrix • Risk-Return Matrix • Analysis <p>The name of the currently selected view is shown on the closed drop-down list.</p>
Portfolio name	On the left side, you see the name and view of the currently selected portfolio.
Trend	<p>Below the portfolio name, you find information about the current performance of the positions: Shows how many positions are trending up and how many are trending down.</p> 

Element	Description																				
Totals	<p>Daily totals can be displayed at the top right of the widget. In the settings of the widget, you select the data to be displayed. You can display the following data:</p> <ul style="list-style-type: none">• Portfolio value (enabled by default) The portfolio value corresponds to the sum of the market values of all positions within the portfolio• Change overall (selected by default)• Change today (selected by default)• Portfolio value The portfolio value corresponds to the sum of the securities account value and cash deposits• Change portfolio• Average purchase price• Entry sum (net)• Change• Fees• Cash deposits• Distributions <table><tr><td>PORTFOLIO VALUE</td><td>SECURITIES ACCOUNT VALUE</td><td>CHANGE OVERALL</td><td>CHANGE TODAY</td><td>ENTRY SUM</td><td>ENTRY SUM (NET)</td><td>CHANGE</td><td>BUY CHARGES TOTAL</td><td>CASH ACC. BALANCE</td><td>DIVIDEND TOTAL</td></tr><tr><td>101,348.51 €</td><td>13,650.35 €</td><td>1,348.51 € (+10.96%)</td><td>-18.89 € (-0.14%)</td><td>12,301.84 €</td><td>12,301.84 €</td><td>0.10 €</td><td>0.00 €</td><td>87,698.16 €</td><td>0.00 €</td></tr></table>	PORTFOLIO VALUE	SECURITIES ACCOUNT VALUE	CHANGE OVERALL	CHANGE TODAY	ENTRY SUM	ENTRY SUM (NET)	CHANGE	BUY CHARGES TOTAL	CASH ACC. BALANCE	DIVIDEND TOTAL	101,348.51 €	13,650.35 €	1,348.51 € (+10.96%)	-18.89 € (-0.14%)	12,301.84 €	12,301.84 €	0.10 €	0.00 €	87,698.16 €	0.00 €
PORTFOLIO VALUE	SECURITIES ACCOUNT VALUE	CHANGE OVERALL	CHANGE TODAY	ENTRY SUM	ENTRY SUM (NET)	CHANGE	BUY CHARGES TOTAL	CASH ACC. BALANCE	DIVIDEND TOTAL												
101,348.51 €	13,650.35 €	1,348.51 € (+10.96%)	-18.89 € (-0.14%)	12,301.84 €	12,301.84 €	0.10 €	0.00 €	87,698.16 €	0.00 €												
Filters	<p>You can filter the portfolio view with the filter field that you find on the right side of the widget.</p>																				

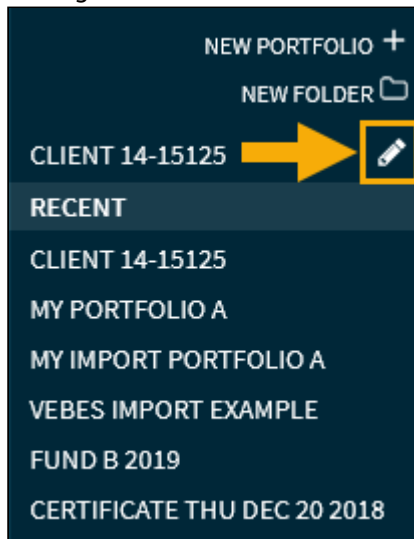
5.27.7 Edit portfolio

You can always rename the portfolios.

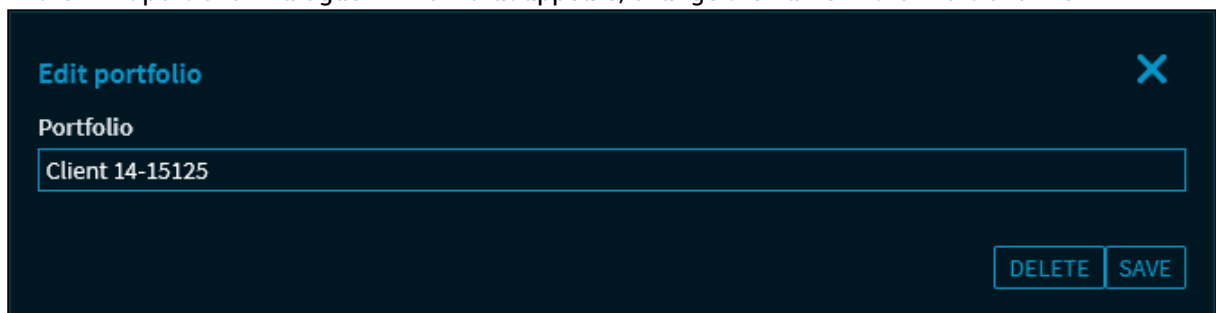
To do this, follow these steps:

1. Go the "Portfolio" widget.
2. Open the portfolio drop-down list in the upper right corner of the widget.

- Click the "Edit portfolio" icon next to the folder name of the portfolio that is currently open to start the editing mode.



- Then, in the list of recently opened portfolios, click the "Edit portfolio" icon for your current portfolio again (or select another portfolio to edit, if necessary).
- In the "Edit portfolio" dialogue window that appears, change the name in the "Portfolio" field.



- Confirm the changes with the "Save" button.
The changes in the name of the portfolio are saved and displayed in the widget.

5.27.8 Import portfolio

You can import appropriately formatted CSV files (for example, portfolios previously exported in this format) as portfolios. When importing, you can decide whether you want to create a new portfolio based on the imported data or add the securities to an existing portfolio.

Import CSV file as new portfolio

To export a CSV file as a new portfolio:

- Go the "Portfolio" widget.

- Then select the "CSV" button in the "Import" area of the widget menu.
This opens the "Import CSV" dialogue window.

- Select a CSV file by using the "Select file" button or drag and drop it into the "Drop file here" input field.



If there are securities with outdated prices in the securities to be imported, then you can - analogous to the function in the general search - also import the securities ignored by default during the import without a current price via the checkbox "Include securities without first price or with outdated prices".

Information appears in the dialogue window after the successful upload has been completed.

- Then click the now enabled "Continue" button.

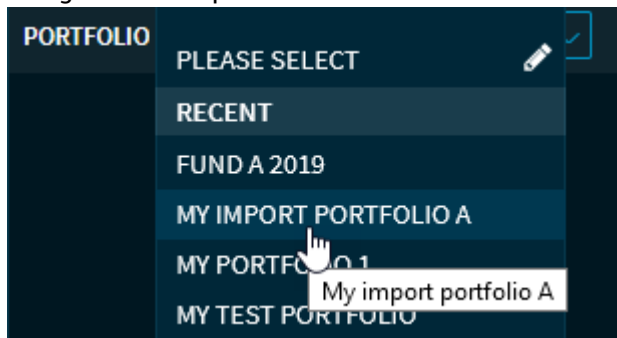
The uploaded data is displayed in the dialogue window.

NO	SECURITY	INSTRUMENT ID	ISIN	WPK	TRADING VENUE	CURRENCY	BUY PRICE	BUY DATE	QUANTITY	EXCHANGE RATE
1	USD/EUR SPOT RATE	USDEUR.FXWWD	XC0009666410	965275	Forex vwd	EUR	0.84	20 Aug 2020	12,345	1.00
2	EUR/RUB SPOT RATE	EURRUB.FXWWD	EU0009656420	965642	Forex vwd	RUB	87.58	20 Aug 2020	14,234	0.01142
3	Xtr DAX UETF 1C	DBX1DA.XETF	LU0274211480	DBX1DA	Xetra ETF	EUR	113.38	16 Oct 2018	10	1.00
4	SAP SE O.N.	716460.ETR	DE0007164600	716460	Xetra	EUR	100.20	16 Oct 2018	10	1.00
5	UOAREIT	UOAREIT.MY	MYL5110TO000	A0MQRR	Malaysia	MYR	1.38	16 Oct 2018	1,000	0.20778
6	APPLE INC.	865985.ETR	US0378331005	865985	Xetra	EUR	187.85	16 Oct 2018	10	1.00

By default, the import into a new portfolio is now suggested, therefore the "New portfolio" checkbox is selected. Enter a name for the new portfolio in the "Portfolio name" input field and select a different portfolio currency if necessary. Click the "Create new portfolio" button.

This closes the "Import CSV" dialogue window and a message appears. The portfolio is created

using the name specified and can now be selected.



The following column headings are work for the import:

- BUY CURRENCY
Alternatives: Buy currency | Kaufwährung | Currency | Währung
Important: If both "Buy currency" and "Currency" exist in the CSV file, then "Buy currency" applies.
- WKN (or other fields to identify the instruments analogous to the import of watchlists)
- QUANTITY
Alternatives: Anzahl | Quantity | Stück/Nominal
- BUY DATE
Alternatives: Buy date | Kaufdatum | letztes Kaufdatum
- BUY PRICE
Alternatives: Buy price [Buy currency] | Kaufkurs [Kaufwährung] | Durchschnittl. Purchase price
- EXCHANGE RATE
Alternatives: Exchange rate | Umrechnungskurs | FX rate buy | Wechselkurs Kauf | Durchschnittl. Foreign exchange rate
- NOTE
Alternative: Note

Add CSV file to existing portfolio

To add a CSV file to an existing portfolio:

1. Open a "Portfolio" widget with the portfolio to be expanded.
2. Proceed in the same way as described above (steps 2-4).
3. Then clear the "New portfolio" checkbox when displaying the imported data and select the now visible "Add to portfolio" button.

IMPORT CSV

Upload

Imported data

NO	SECURITY	INSTRUMENT ID	ISIN	WPK	TRADING VENUE	CURRENCY	BUY PRICE	BUY DATE	QUANTITY	EXCHANGE RATE
1	USD/EUR SPOT RATE	USDEUR.FXVWD	XC0009666410	965275	Forex vwd	EUR	0.84	20 Aug 2020	12,345	1.00
2	EUR/RUB SPOT RATE	EURRUB.FXVWD	EU0009656420	965642	Forex vwd	RUB	87.58	20 Aug 2020	14,234	0.01142
3	Xtr DAX UETF 1C	DBX1DA.XETF	LU0274211480	DBX1DA	Xetra ETF	EUR	113.38	16 Oct 2018	10	1.00
4	SAP SE O.N.	716460.ETR	DE0007164600	716460	Xetra	EUR	100.20	16 Oct 2018	10	1.00
5	UOAREIT	UOAREIT.MY	MYL5110T0000	A0MQRR	Malaysia	MYR	1.38	16 Oct 2018	1,000	0.20778
6	APPLE INC.	865985.ETR	US0378331005	865985	Xetra	EUR	187.85	16 Oct 2018	10	1.00

☒ New portfolio

Portfolio name

Portfolio currency

EUR - EURO

→


CREATE NEW PORTFOLIO

This closes the "Import CSV" dialogue window and the positions are added to the currently open portfolio.

5.27.9 Delete portfolio

You can also delete your portfolios.

To do this, follow these steps:

1. Go the "Portfolio" widget.
2. From the drop-down list, select the portfolio you want to delete.
3.  Click the "Edit portfolio" icon next to the folder name.
4. Then click the "Delete" button.
5. Confirm the "Are you sure to delete the portfolio?" with "Yes".
The portfolio is deleted.



When you delete positions, the associated account entries, splits and limits are also deleted.

5.27.10 Settings in the "Portfolio" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



The available settings always depend on the view currently selected in the widget. The description of the default settings below is available for views such as the "Overview" view. For the view in the performance chart and other views, some of these settings are not meaningful.

SETTINGS
General settings
Totals
Default columns
Free text columns
Performance columns

GENERAL SETTINGS ✕

Push: ☒ ENABLED

Sort interval (for table views only): 5 SECONDS ▾

Clear filter on list change: ☒ ENABLED

RESET SAVE SAVE & CLOSE

In the "Portfolio settings" dialogue window, you can first select the area on the left side for which you want to configure your settings:

"General" area

In the "General" area, you can make the following settings:

Field	Description
Push	Here, you can use the "Enabled" checkbox to enable or disable the push data feed.
Sort interval (only for table views)	<p>If necessary, select the time interval for updating the table sorting in the widget here. The following periods are available:</p> <ul style="list-style-type: none"> • Inactive (default setting) • 5 seconds • 15 seconds • 30 seconds • 45 seconds • 60 seconds
Clear filter on list change	Deselect this default setting to keep filter conditions when switching to another list.

"Totals" area

SETTINGS
General settings
Totals
Default columns
Free text columns
Performance columns

TOTALS ✕

☐ PORTFOLIO VALUE
☐ CHANGE PORTFOLIO
☒ SECURITIES ACCOUNT VALUE

☒ CHANGE OVERALL
☒ CHANGE TODAY
☐ ENTRY SUM

☐ ENTRY SUM (NET)
☐ CHANGE
☐ BUY CHARGES TOTAL

☐ CASH ACC. BALANCE
☒ DIVIDEND TOTAL

RESET

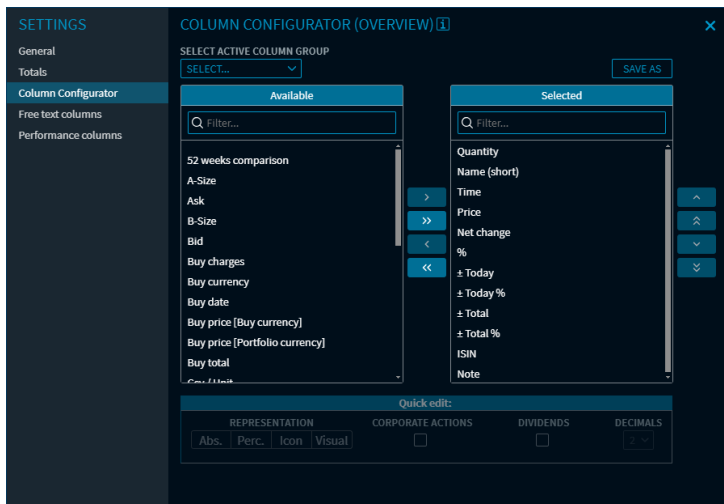
SAVE

SAVE & CLOSE

In the "Totals" area, you can decide which totals are to be displayed:

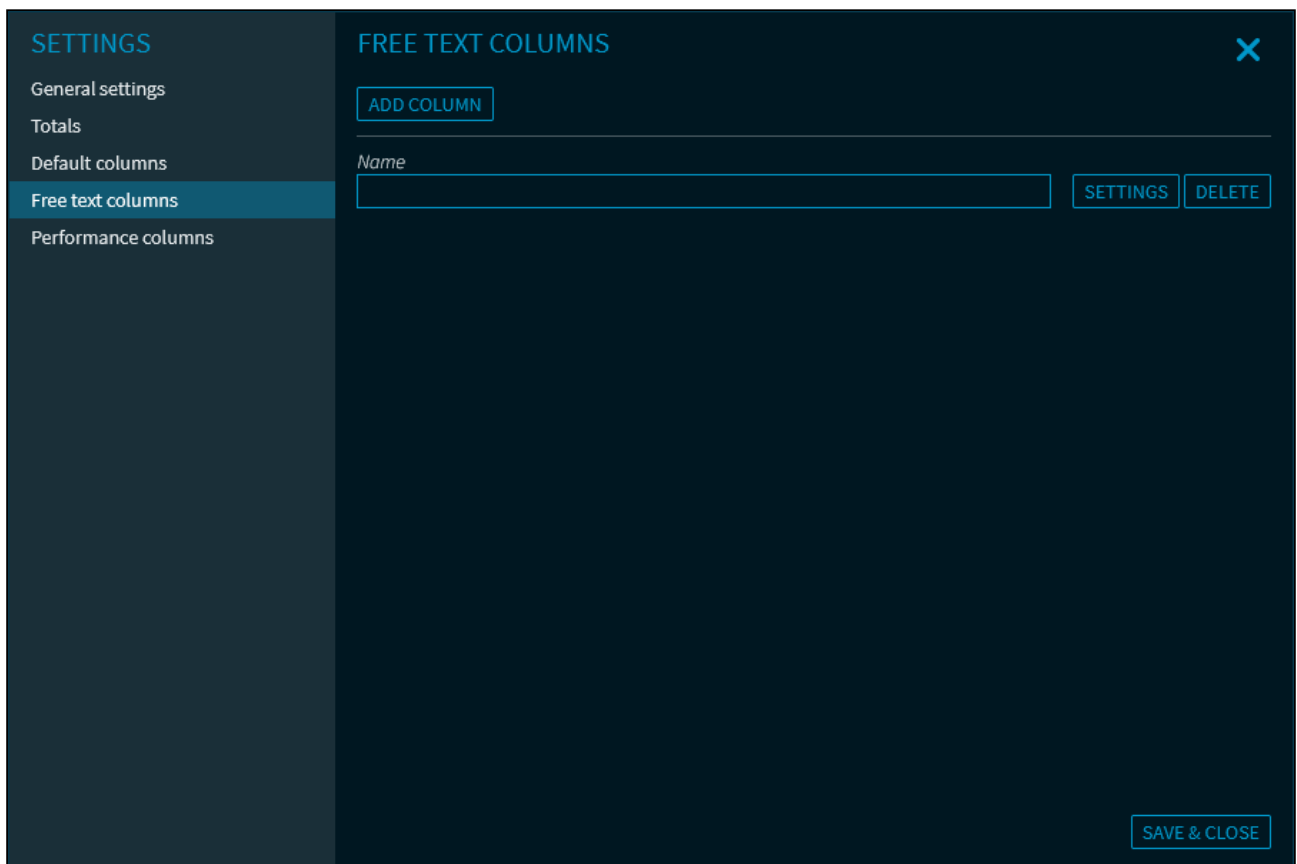
Field	Description
Totals	<p>Select the fields for which totals are to be displayed. You can display totals above the table for the following columns:</p> <ul style="list-style-type: none"> • Portfolio value The portfolio value corresponds to the sum of the securities account value and cash deposits • Change portfolio The absolute change corresponds to the portfolio value minus the first account deposit. • Securities account value (selected by default) • Change overall (selected by default) • Change today (selected by default) • Average purchase price • Entry sum (net) • Change • Fees • Cash deposits • Distributions

"Column configurator" area



In the "Column configurator" area, you can show or hide the columns of the table. You can use the column configurator to save column configurations individually and set a specific configuration as the default when creating a new widget. See also [Show and hide columns of the widgets via the settings](#) and [Column configurator](#).

"Free text columns" area



In this area, you can configure individual columns for the position overview table of the portfolio.

To do this, follow these steps:

1. On the left side of the "Portfolio settings" dialogue window, select the "Free text columns" area.
 2. Click the "Add column" button.
 3. In the "Name" input field, enter a name for the column header of the first custom column.
 4. Then click the "Settings" button for this column.
 5. Configure the new column. The table below contains descriptions of the individual setting options.
 6. Then click the "Save" button. (Use the "Back" button to close the settings of the free text column without saving any changes you may have made.)
 7. If you want to add more columns, click the "Add column" button in the "Free text columns" area and proceed in the same way.
- You can delete your custom columns by using the corresponding "Delete" button.

The settings of the custom free text columns in detail:




General settings	
Field	Description
Name	Enter a meaningful name for the free text column.
Tooltip	Enter a descriptive tooltip. This is displayed when you point to the column header with the mouse.
Configuration	
Field	Description
Column width	Enter the column width in pixel. The default setting is "200".

Column view

Select the view type for the column:

- Text (default setting)
This setting displays the text in the column.
- Icon
With this setting, the "Note" icon is displayed in the column, and the text is only displayed when you point to it with the mouse.

Example: Watchlist with two free text columns

ISIN	TEST1	TEST2
US0378331005	Test text Apple	
US5949181045	Test text Microsoft	
US02079K3059		

In this example, the "Test1" column is of the "Text" type and has a width of "100", the "Test2" column is of the "Icon" type and has a width of "50". To edit the texts, click on them and make your changes in the text window that appears. If you point the mouse to the cell, a delete icon will also appear, allowing you to quickly remove the text.

"Performance columns" area

SETTINGS
General settings
Totals
Default columns
Free text columns
Performance columns

PERFORMANCE COLUMN SETTINGS ✕

GENERAL
Name
Automatic naming ☒
Chosen period Feb 22, 2022 - Mar 22, 2022

CHOOSE START DATE
☐ Date from
☐ Relative
☒ Period starting from the end date

CHOOSE END DATE
☐ Date to
☒ Now
☐ Relative start from
Go back in the past

MODE
Representation
Include corporate actions ☒
Include dividends ☐
Decimal places

In the "Performance columns" area, you have the option to add (up to 15) new columns to the overview of the portfolio for performance calculation.

To do this, follow these steps:

1. On the left side of the "Portfolio settings" dialogue window, select the "Performance columns" area.
2. In the "Name" input field, you can enter a custom name for the column header for the first custom column. However, this name can also be generated automatically (see the following table with the settings).
3. Then click the "Settings" button for this column.
4. Configure the new column. The table below contains descriptions of the individual setting options.
5. Then click the "Save" button. (Use the "Back" button to close the settings of the performance column without saving any changes you may have made.)
6. If you want to add more columns, click the "Add column" button in the "Performance columns" area and proceed in the same way.

You can delete your custom columns by using the corresponding "Delete" button.

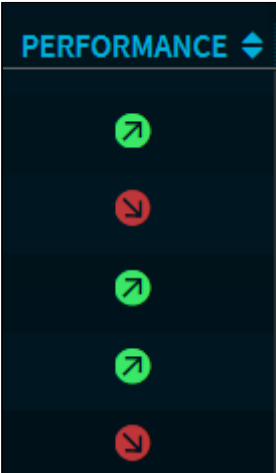
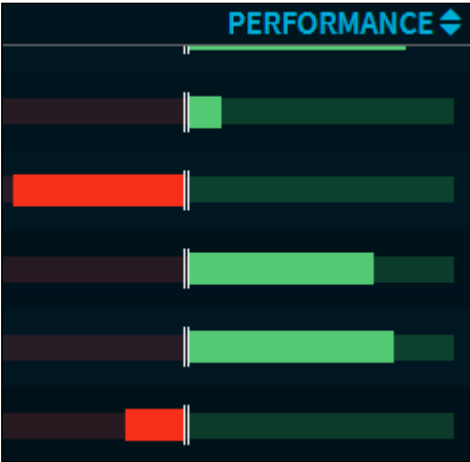
The settings of the custom performance columns in detail:

General

Field	Description
Name	<p>Enter a meaningful name for the performance column.</p> <p>You can freely choose the name of a performance column or leave it blank for the time being and use the automatic name generation. The name of the column is then automatically generated by the system according to the time periods you set and other parameters of the performance calculation. In any case, the name of the column can be changed later.</p>
Automatic naming	<p>Enable this setting to automatically generate the name of the column. The name is generate depending on the time periods and start and end times set below.</p>
Selected period	<p>Here, you can see the always updated period of the performance calculation resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year

Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>
Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>

Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div> <p>Example</p> <p>In August 2022, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2022".</p> </div>
Mode	
Field	Description

Display	<p>Select the type of display for the performance values. The following variants are available:</p> <ul style="list-style-type: none"> • Absolute (default setting) • Percentage [%] • Trend icon  <ul style="list-style-type: none"> • Visual 
Include actions	<p>corporate [Selected by default]</p> <p>Clear this checkbox to take into account corporate actions incurred during the period in the performance calculation.</p>
Include dividends	<p>[Cleared by default]</p> <p>Select this checkbox to include dividends paid during the period in the performance calculation.</p>
Decimal places:	<p>Select how many decimal places (from 0 to 5) the performance column should display.</p> <p>The default setting is 2 decimal places.</p>

Settings for "Chart Gallery" view

In the "Chart Gallery" area, you can make the following settings:

Field	Description
Push	Here, you can use the "enabled" checkbox to enable or disable the push data feed.
Show details	Select this checkbox to display more details in the individual charts of the Chart Gallery. The following data is shown: <ul style="list-style-type: none">• Security name• ISIN• WKN• Trading venue
Start date	Use the integrated calendar to specify the start date.
End date	Use the integrated calendar to specify the corresponding end date.

Settings for additional views of the portfolio

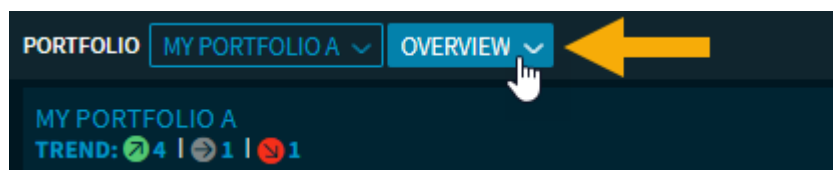
You have various setting options depending on the view selected (for example, "[Correlation Matrix](#)") in the widget.



For the "Gainers/Losers" view in the "Portfolio" widget, you can configure the number of instruments to be displayed in the same way as for the "Gainers/Losers" widget (from 2 to 20).

For more information about the widget settings, see [Commands in the widget menu](#).

5.27.11 Views in the "Portfolio" widget



From the second drop-down list in the upper part of the widget, you can select the view and thus various functions. This section briefly describes the various views.

See also:

- "[Overview](#)" view (portfolio)
- "[Account](#)" view (portfolio)
- "[Log](#)" view (portfolio)
- "[Closed positions](#)" view (portfolio)
- "[Top Flop](#)" view (portfolio)
- "[Performance](#)" view (historical performance of the portfolio)
- "[Risk-Return Matrix](#)" view (portfolio)


- "Correlation Matrix" view (portfolio)
- "Analysis" view (portfolio)
- "Chart Gallery" view (portfolio)
- "Performance tiles" view (portfolio)



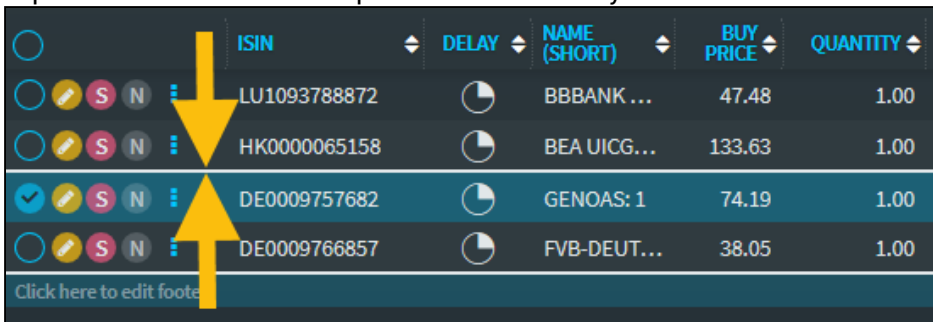



"Overview" view (portfolio)


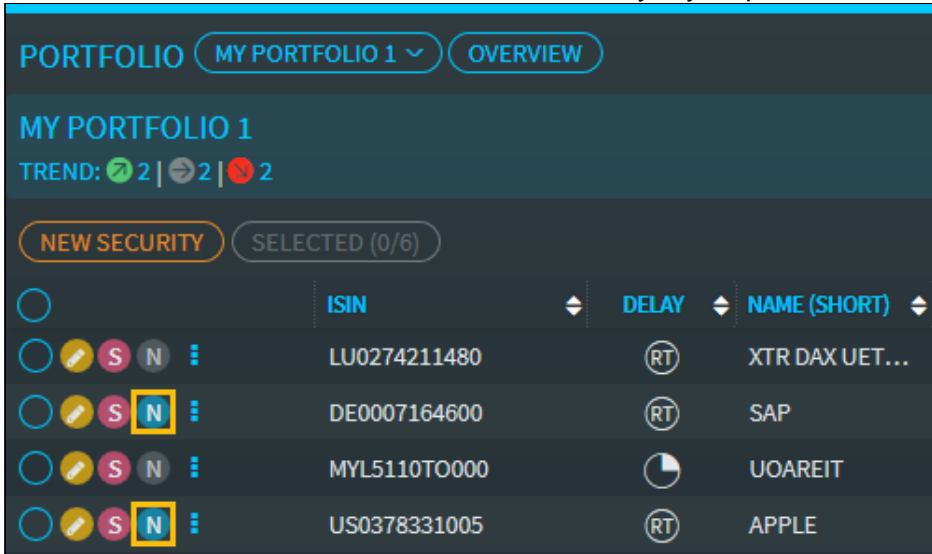

Select "Overview" from the drop-down list. In the position overview, you see all the portfolio positions in a table. At the start of each row, there are various functions and commands for each position.


	QUANTITY	NAME (SHORT)	TIME	PRICE	NET CHANGE	%	± TODAY	± TODAY %	± TOTAL	± TOTAL %	ISIN	NOTE
<input type="checkbox"/> N	100.00	MERCEDES-BENZ GRP ...	13:02:02	72.40	+0.45	+0.63%	+45.00	+0.63%	+145.00	+2.04%	DE0007100000	
<input type="checkbox"/> N	100.00	APPLE INC.	12:29:02	143.04	-1.46	-1.01%	-136.52	-1.02%	+893.37	+6.66%	US0378331005	
<input checked="" type="checkbox"/> N	100.00	SAP SE O.N.	12:40:48	111.00	+0.38	+0.34%	+38.00	+0.34%	+30.00	+0.27%	DE0007164600	
<input type="checkbox"/> N	100.00	AUTODESK INC.	08:02:03	207.85	+0.15	+0.07%	+15.00	+0.07%	+470.00	+2.31%	US0527691069	
<input type="checkbox"/> N	100.00	SKYWORKS SOL. DL-25	08:46:37	113.88	+3.48	+3.15%	+348.00	+3.25%	+688.00	+6.43%	US83088M1027	


You find the following columns and functions in the position overview:

Function/column	Description
"Instrument search" icon 	<p>This icon opens the quick search and allows you to add further items to the portfolio.</p> <p>For more information, see Add position to portfolio.</p>
Selected	<p>Shows the number of positions currently selected in the overview table. This element is visible only if at least one position of the position overview is selected.</p> <p>You can select the following commands from the menu:</p> <ul style="list-style-type: none"> • Delete Deletes the selected positions from the portfolio. See also Delete position. • Copy (to another selected portfolio) Below this command, select the target portfolio to which you want to copy the selected positions. For more information, see Transfer position to another portfolio. • Move (to another selected portfolio) Below this command, select the target portfolio to which you want to move the selected positions. See also Transfer position to another portfolio.

Function/column	Description
 Add text	<p>If you selected a single position in the portfolio, then you can use this icon to add a text line above this position and enter any text. While you are typing, you see how many characters you can still enter.</p> <p>In the context menu of the text lines, you also find the standard browser commands for text like "Copy" or "Paste". Please note that you can only paste unformatted text (that is, no HTML formatting) and that the number of characters is limited.</p> <p>You can also add multiple text lines one after the other.</p> <p>To delete added text rows, select them, and then select "Delete" from the "Selected" drop-down list.</p>
 Add separator	<p>If you selected a single position in the portfolio, you can use this icon to add a separator above the selected position and enter any text.</p>  <p>To remove an inserted separator, select the position below, and then click this icon.</p> <div>  Use the "Separator" and "Text line" functions to group positions with headers. </div>
 "Select row" column	<p>In the first column, you can select individual rows (positions).</p> <div>  To select a position, select the corresponding checkbox at the start of the row. </div>

Function/column	Description
 "News" icon	<p>Opens the news widget to show news for the corresponding security. If a "Company News" widget is already available in the dashboard, then the news are shown in this widget, otherwise, a new "Company News" widget is added at the bottom of the dashboard.</p> <p>The icon shows if there are current news for a security in your portfolio.</p>  <p>In this example, news are available for all shares in the screen section, but none for the "UniGlobal" fund.</p>
 "Row menu" icon	<p>Click this icon to open a menu with various commands. In the upper section, "Instrument", you will find the commands to edit, repurchase, sell or delete a position.</p> <p>You can also use this icon to quickly open the respective security in a new widget, and then select a command from the "Open as..." section in the menu. For more information, see Commands in the widget menu.</p> <p>You can also use this menu to directly create a new alert for a security or add the security to the Compass.</p>

Function/column	Description
Columns	<p>You can show or hide the columns of the position overview in the settings that you open with the widget menu icon. The following columns are available in the "Overview":</p> <ul style="list-style-type: none"> • Quantity • Name (short) (The bars in the background of this column show the portfolio share of the respective security) • Time • Price • Change absolute (Today's absolute performance of the instrument, based on the last close price) • % (Current relative performance of the instrument, based on the last close price) • Change today (Today's absolute performance of the securities account, based on the last close prices) • Change today % (Today's relative performance of the securities account, based on the last close prices) • Change overall (Absolute total performance of the securities account, based on the purchase value of the securities account) • Change overall % (Relative total performance of the securities account, based on the purchase value of the securities account) • ISIN • Note Click the icon in this column to edit the note for the position. Point to the icon to copy the entered texts by using the "Copy note" icon.  <ul style="list-style-type: none"> • A-Amount • Ask • B-Amount • Bid • Trading venue • Instrument ID • Annual high • Annual low • Buy date • Buy price [Buy currency] • Buy price [Portfolio currency] • Buy sum • Buy currency • Market value (Value of the position in portfolio currency) • Name

Function/column	Description
	<ul style="list-style-type: none"> • Symbol • Trend • Cum. turnover • Delay <p>The Arbitrage section explains the symbols in this column.</p> <ul style="list-style-type: none"> • Buy exchange rate • Ccy./Unit <p>The currency is usually displayed here, but for percentage-quoted bonds, for example, "%" is displayed. If you would like to display the "actual currency" for such securities as well, you can drag the currency field with ID 48 into the list by using the "All Fields" widget.</p> <ul style="list-style-type: none"> • WKN • Dividends • Total charges • Portfolio share • 52-week comparison <p>In this column you, can see the current price compared to the 52-week low ("left edge of the bar") and 52-week high ("right edge of the bar"). For a small example, see Arbitrage.</p> <p>For more information about showing and hiding columns, see (49-en) Settings in the "Portfolio" widget.</p> <div>  <p>As in other tables, you can re-sort the position overview by clicking a column header. For more information, see Sort tables in widgets. You can also move an individual position in the position overview to a new place by dragging it there at any time.</p> <p>In addition to these standard columns for the position overview, you can also add any other columns from the "All fields" widget. See also the section (49-en) Add fields from the "All Fields" widgets to tables. For some values in the columns, (only) two decimal places are shown for reasons of clarity, for expamle the columns "Change today", "Total change", "Market value". Point to the in this columns to display the exact values:</p> </div>

"Account" view (portfolio)

Select the "Cash account" view from the second drop-down list in the upper part of the widget. All account movements are listed. Click the "New posting" button to record various posting types.

PORTFOLIO

PORFOLIO IDEAS 2023

CASH ACCOUNT

⚙️

⋮

✕

PORFOLIO IDEAS 2023

TREND: 🟢 5 📉 4

SECURITIES ACCOUNT VALUE

1,940,465.33 €

CHANGE OVERALL

-14,344.33 € (-0.73%)

CHANGE TODAY

630.66 € (+0.03%)

NEW POSTING

2023

FILTER MONTH



🔍

Filter...

<input type="checkbox"/>	TYPE	DATE	DEBIT	CREDIT	SECURITY	CUMULATED
<input type="checkbox"/>	SECURITIES SALE	13 Jun 2023	--	16,384,54...	GOLD XAU/EUR SPOT RATE	10,046,855.34
<input type="checkbox"/>	DEPOSIT	13 Jun 2023	--	10,000,00...		-6,337,689.66
<input type="checkbox"/>	SECURITIES PURCHASE	13 Jun 2023	-17,738.80	--	MOTION BOND. 19/27 REGS	-16,337,689.66
<input type="checkbox"/>	SECURITIES PURCHASE	13 Jun 2023	-10,215.89	--	CHF/EUR SPOT RATE	-16,319,950.86
<input type="checkbox"/>	SECURITIES PURCHASE	13 Jun 2023	-18,203,20...	--	GOLD XAU/EUR SPOT RATE	-16,309,734.97
<input type="checkbox"/>	SECURITIES PURCHASE	27 Apr 2023	-43,944.34	--	WT MAI WISDOMTREE BUND 10Y 3	1,893,465.03
<input type="checkbox"/>	DEPOSIT	27 Apr 2023	--	2,000,000.00		1,937,409.37
<input type="checkbox"/>	SECURITIES PURCHASE	7 Feb 2023	10,700.00		SKYLINE SEC. DL 25	67,500.62
Balance 14 Jun 2023						10,046,855.34

00

You find the following columns and functions in the "Account" view:

Function/column	Description
New posting	Allows you to record a new account posting. For more information, see Record account posting .
Selected	Shows the number of postings currently selected in the account overview. Click to open the menu containing the "Delete" command. Deletes the selected transactions from account.
Filter year	Use the drop-down list to limit the shown account movements to a certain year.
Filter month	Use the drop-down list to limit the shown account movements to a certain month.
"Select row" column	In the first column, you can select individual rows (postings).  To select all shown postings, select the checkbox in the column header.
 "Edit entry" icon	Allows you to resubmit the posting of the corresponding row, that is, to edit or delete it.
"Type" column	In this column, you see the respective posting and transaction type, for example, securities purchase, deposit or interest.

Function/column	Description
"Date" column	Shows the corresponding posting date. By default, the table in the "Account" view is sorted by this column, that is, the most recent postings appear at the top of the table.
"Debit" column	Shows the debits resulting from the corresponding postings.
"Credit" column	Shows the credits resulting from the corresponding postings.
"Security" column	If the posting is associated with a security (buy, sell, dividend...), then this column shows the name of the security.
"Cumulated" column	In this column, you see the cumulated balance including the last posting. The current cash account balance is shown at the bottom of the column.
"Quantity" column	In this column, you see the quantity for securities transactions. This column is hidden by default. For more information about displaying columns, see Settings in the "Portfolio" widget .
"Amount" column	Here, you see the debit and credit amounts. This column is hidden by default.
"Amount [Portfolio currency]" column	Here, you see the debit and credit amounts in portfolio currency. This column is hidden by default.
"Price" column	In this column, you see the status of the security. This column is hidden by default.
"Exchange rate" column	In this column, you can see the exchange rate of the portfolio currency and the securities currency. This column is hidden by default.
"Currency" column	This column shows the security currency. This column is hidden by default.

"Log" view (portfolio)

Select "Log" from the second drop-down list in the upper part of the widget to see the change log of the portfolio. The log shows all previous user actions.

PORTFOLIO

CLIENT 14-15125

LOG

CLIENT 14-15125

TREND:

4

1

2

SECURITIES ACCOUNT VALUE

179,506.36 €

CHANGE OVERALL

-34,129.40 € (-15.98%)

CHANGE TODAY

2,048.11 € (+1.15%)

FILTER YEAR

FILTER MONTH

Filter...

TIME	NAME	ISIN	ACTION	NOTE
3/22/2022 14:28:39	AUTODESK	US0527691069	ENTRY DELETED	
3/22/2022 14:28:21	AUTODESK	US0527691069	ENTRY CREATED	
3/22/2022 14:28:03	NVIDIA CORP	US67066G1040	ENTRY DELETED	
3/22/2022 14:26:58	NVIDIA CORP	US67066G1040	ENTRY CREATED	
3/21/2022 15:47:42	WACKER NEUSON SE NA O.N.	DE000WACK012	ENTRY SOLD	
3/21/2022 15:47:23	WACKER NEUSON SE NA O.N.	DE000WACK012	ENTRY EDITED	
3/21/2022 12:11:45	WACKER NEUSON SE NA O.N.	DE000WACK012	ENTRY CREATED	
3/21/2022 12:11:10	AUTODESK INC.	US0527691069	ENTRY CREATED	
3/21/2022 12:10:57	NESTLE N	CH0038863350	ENTRY CREATED	
11/11/2020 17:23:32	SAP SE O.N.	DE0007164600	ENTRIES MERGED	
11/11/2020 17:19:59	SAP SE O.N.	DE0007164600	ENTRY CREATED	
11/11/2020 17:16:09	SAP SE O.N.	DE0007164600	ENTRIES MERGED	
11/11/2020 15:07:24	SAP SE O.N.	DE0007164600	ENTRY CREATED	
11/11/2020 15:04:20	AUTODESK INC.	US0527691069	ENTRY DELETED	
11/11/2020 14:58:49	AUTODESK INC.	US0527691069	ENTRY EDITED	

1

2

3

You find the following columns and functions in the "Log" view:

Function/column	Description
Filter year	Use the drop-down list to limit the shown entries to a certain year.
Filter month	Use the drop-down list to limit the shown entries to a certain month.
Columns	<p>You can show or hide the columns of the log in the settings that you open with the widget menu icon. The following columns are available in the "Log" view:</p> <ul style="list-style-type: none"> Time The time of the action. Name The name of the entry. For security transactions associated with the action, the security is shown. You can edit a descriptive label to the entry by using the "Edit entry" icon. ISIN The ISIN of the security (if a security is associated with the action). Action For example, "Entry created", "Entry sold" or "Portfolio edited". Note The note added to the transaction or posting. The "Edit entry" icon allows you to add notes after you already recorded the transaction. <p>For more information, see Settings in the "Portfolio" widget.</p> <p>As in other tables, you can re-sort the history by clicking a column header.</p>

"Closed positions" view (portfolio)

Select the "Closed positions" view from the view drop-down list. The table lists all sale transactions.

PORTFOLIO




CLIENT 14-15125

CLOSED POSITIONS

CLIENT 14-15125

TREND:

You find the following columns and functions in the "Closed positions" view:

Function/column	Description
Selected	Shows the number of transactions currently selected in the history. Click to open the menu containing the "Delete" command. Deletes the selected transactions from the history.
Filter year	Use the drop-down list to limit the transaction history to a certain year.
Filter month	Use the drop-down list to limit the transaction history to a certain month.
 <p>"Select row" column</p>	<p>In the first column, you can select individual rows (transactions).</p> <p> To select all shown transactions, select the checkbox in the column header.</p>
 "Edit entry" icon	Allows you to resubmit the transaction of the corresponding row, that is, to edit or delete it.

Function/column	Description
Columns	<p>You can show or hide the columns of the transactions overview in the settings that you open by using the widget menu icon. The following columns are available in the "Closed positions" view:</p> <ul style="list-style-type: none"> • Name • ISIN • Quantity • Returns (net) • Returns (gross) • Buy date • Buy price [Portfolio currency] • Buy currency • Sell date • Sell price [Portfolio currency] • Sell currency • Created • Buy price [Buy currency] • Buy charges For partial sell transactions, the buy charges are shown. • Buy sum • Sell price [Buy currency] • Sell charges • Sell sum • Buy exchange rate • Sell exchange rate • Note <p>For more information, see Settings in the "Portfolio" widget.</p> <p>As in other tables, you can re-sort the transactions by clicking a column header.</p> <p>The totals are also displayed for the following columns:</p> <ul style="list-style-type: none"> • Buy charges • Buy sum • Sell charges • Sell sum • Returns (net) • Returns (gross) <p>The sum of the columns "Returns (net)" and "Returns (gross)" are calculated both as absolute values (in portfolio currency) and as percentage values.</p> <p>By means of "Filter year" and "Filter month", the investment success of the positions closed in the previous year can be analysed, for example.</p>

"Top Flop" view (portfolio)

You can also view the securities of a portfolio as a "Top Flop" list. Select the "Top Flop" view from the second drop-down list in the upper part of the widget.

PORTFOLIO		CLIENT 14-15125	GAINERS/LOSERS			
		CLIENT 14-15125		SECURITIES ACCOUNT VALUE	CHANGE OVERALL	CHANGE TODAY
		TREND: 3 1 1 28		189,052.98 €	-26,472.85 € (-12.28%)	-1,154.06 € (-0.61%)
		%				
GAINERS				PRICE	%	
ENGIE				14.57	+1.00%	
NVIDIA CORP. DL-,001				251.65	+0.30%	
BNP PARIBAS ACT.A				56.37	+0.14%	
PUMA SE				51.70	-0.04%	
LOSERS				PRICE	%	
L'OREAL				418.35	-2.41%	
APPLE INC.				149.72	-2.42%	
CARREFOUR				17.65	-2.54%	
Astrotech Corp				10.30	-6.08%	

By default, the view shows the 5 greatest risers (top) and 5 greatest fallers (flop). The calculation of the ranking is sorted by the percentage change against the previous day's close ("% in the drop-down list).

The drop-down list above the risers and fallers allows you to select different criteria like performance intervals or volumes.

PO	IO IDEAS 2023	GAINERS/LOSERS
PC	2023	
TR		
%		
Cum. vol. (qty.)		
1M perf.		
3M perf.		
6M perf.		
YTD perf.	. DL-,25	
1Y perf.		
3Y perf.	Z GRP NA O.N.	
5Y perf.		
± Today %		
± Total %		
	SPOT RATE	
	Tree Bund 10Y 3	

The "Gainers/Losers" analysis in the "Portfolio" widget corresponds to the table in the "Gainers/Losers" widget, see [Gainers & Losers](#).



In the "Gainers/Losers" view, you find a menu icon at the start of each security. This icon allows you to quickly open individual securities as a chart or Full Quote. You can configure the number of instruments to be displayed in the widget settings of this view (from 2 to 20).

"Performance" view (historical performance of the portfolio)

Select the "Performance" view in the view drop-down list to display the development of the portfolio as a performance chart.

In the first drop-down list, you can select the following values for display:

- Portfolio value (default setting)
- Portfolio allocation abs.
- Portfolio allocation %
- Securities account value
- Change overall
- Change overall in%
- Portfolio vs. benchmark
- Portfolio comparison

Using the second drop-down list, you can quickly choose between the following time periods for display:

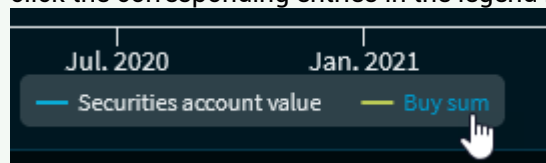
- 1 month
- 6 months
- Current year
- 1 year
- 3 years
- 5 years
- 10 years

In addition, you can also configure any individual time periods via the integrated calendars in the "From" and "To" fields.

If a new transaction (buy, buy to add or (partial) sale) with a date in the past is recorded, then the chart of the historical portfolio performance is recalculated accordingly. The charts are end-of-day charts, so the last data point corresponds to the portfolio valuation based on the last closing prices.

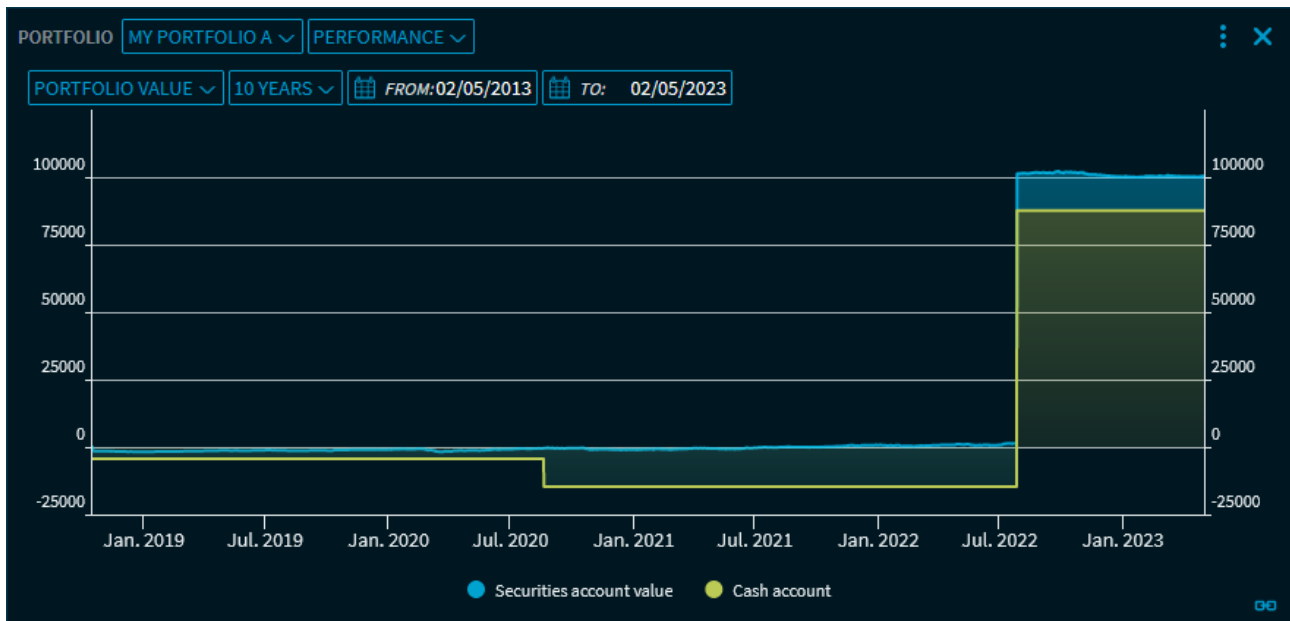


You can hide or show the individual chart lines for securities account value or buy amount. Simply click the corresponding entries in the legend below the chart.



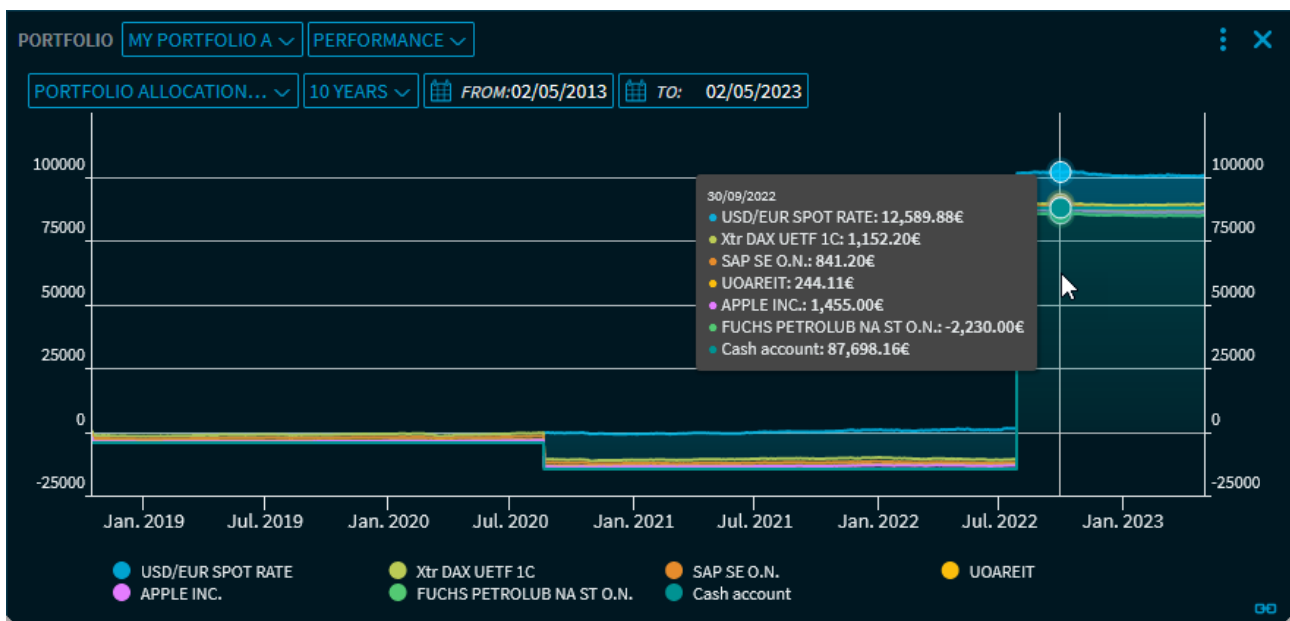
"Performance" view - portfolio value

The "Portfolio value" chart shows the historical performance of the portfolio as a stacked chart of the securities account value and the cash account balance.



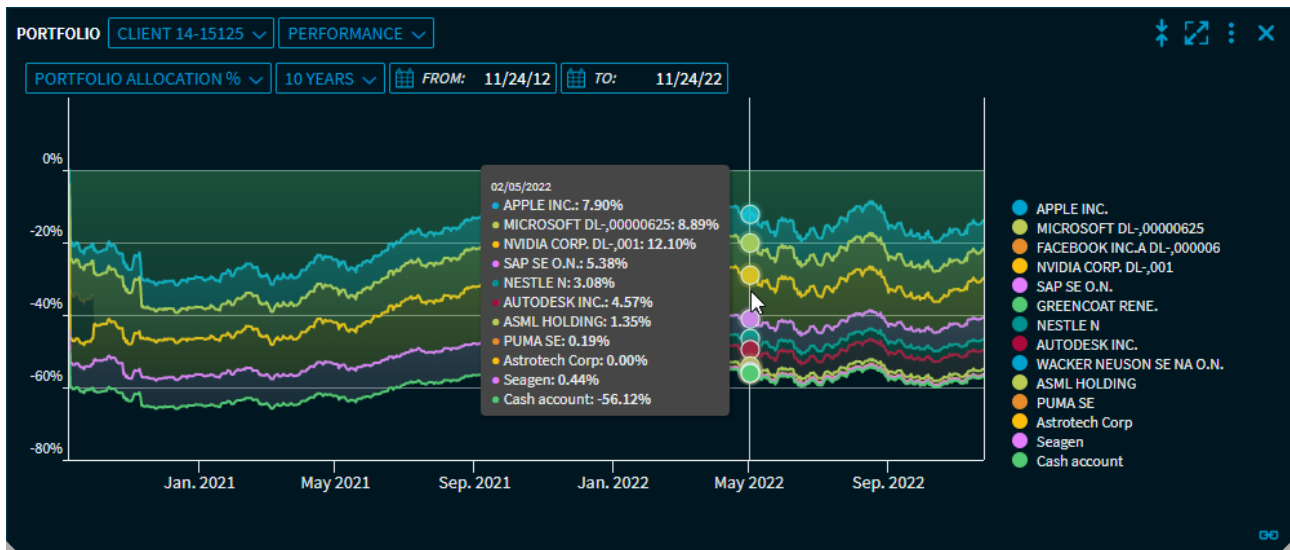
"Performance" view - portfolio allocation abs.

The "Portfolio allocation abs." chart shows a stack chart of the historical performance of the individual portfolio positions.



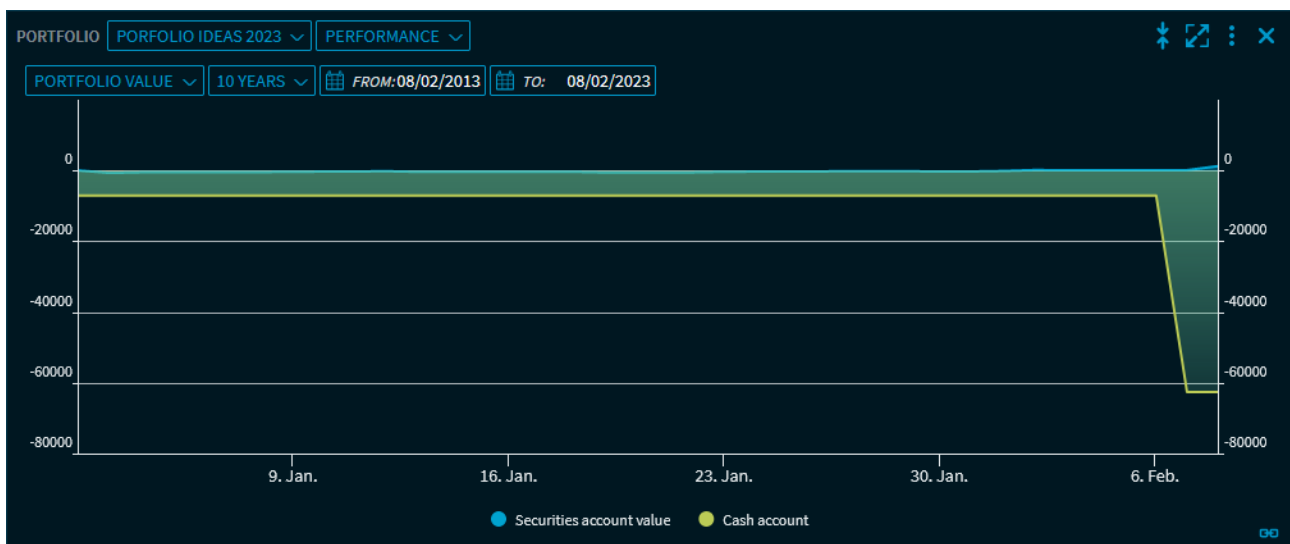
"Performance" view - portfolio allocation %

The "Portfolio allocation %" chart shows a stacked chart normalised to 100% of the historical performance of the portfolio positions. This makes it possible to analyse the percentages of the individual positions in the overall portfolio historically.

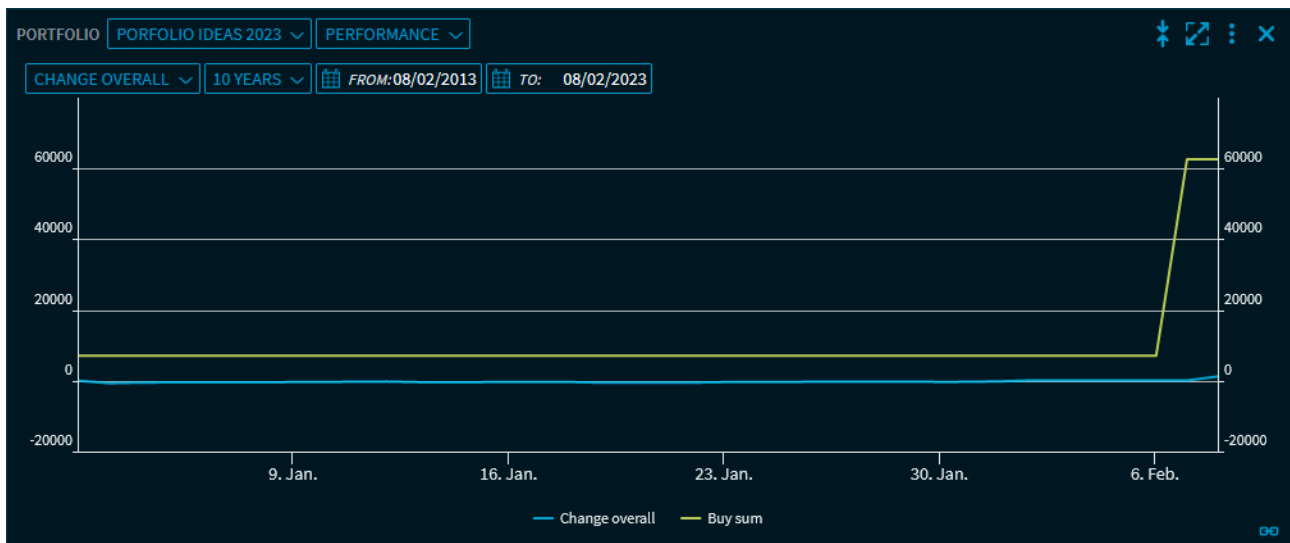


"Performance" view - Securities account value

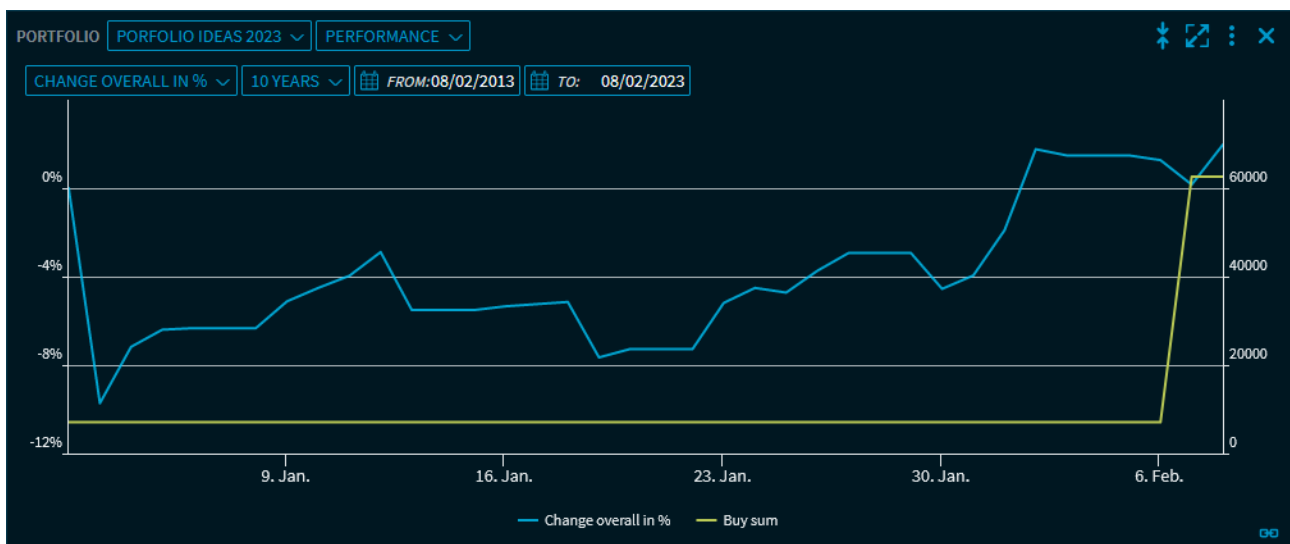
The "Securities account value" chart compares the development of the securities account value with the buy sum.



"Performance" view - total change



"Performance" view - change in %



"Performance" view - Portfolio vs. benchmark

The "Portfolio vs. benchmark" chart allows to compare the portfolio performance with any individual security, for example a benchmark index such as the EURO STOXX 50.

If you have selected the "Portfolio vs. benchmark" entry from the first drop-down list, you can determine the desired benchmark and the corresponding quotation (place and currency) via two further drop-down lists that are now visible.

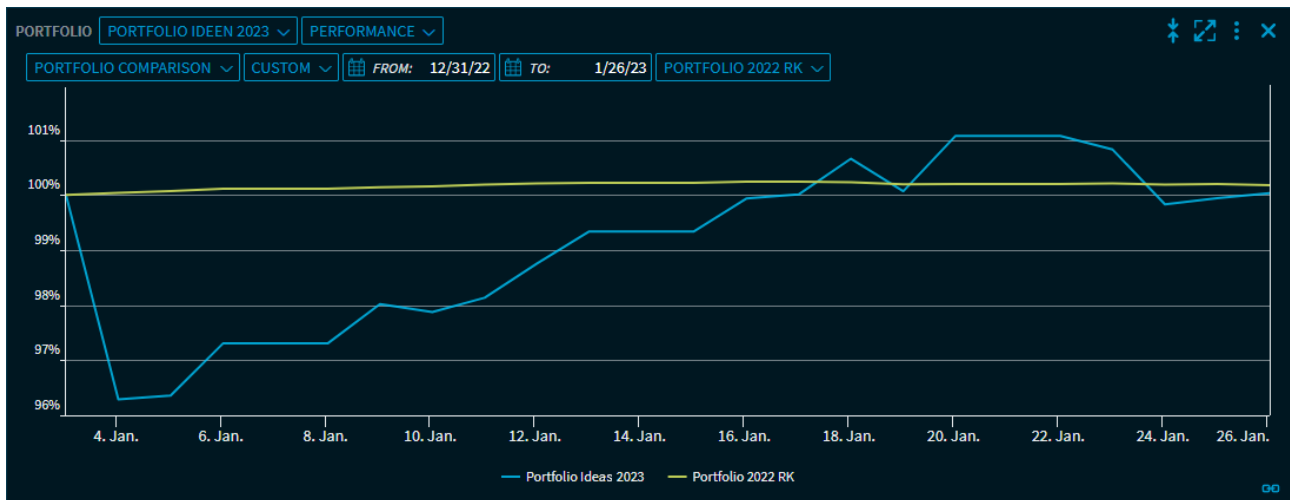


If you have not yet entered any deposits for the portfolio, the following message appears when you select this view:

"An initial account deposit for this is required for this view. This is the reference value for the calculation of the portfolio performance in percent. Please switch to the "Cash account" of portfolio "XYZ" and make an account deposit there. It makes sense to have a deposit date on or just before the first security purchase.

"Performance" view - Portfolio comparison

The "Portfolio comparison" chart enables a comparison of the portfolio performance with any other portfolio.



If you have selected the "Portfolio comparison" entry in the first drop-down list, you can select the desired comparison portfolio by using another drop-down list that is now visible.

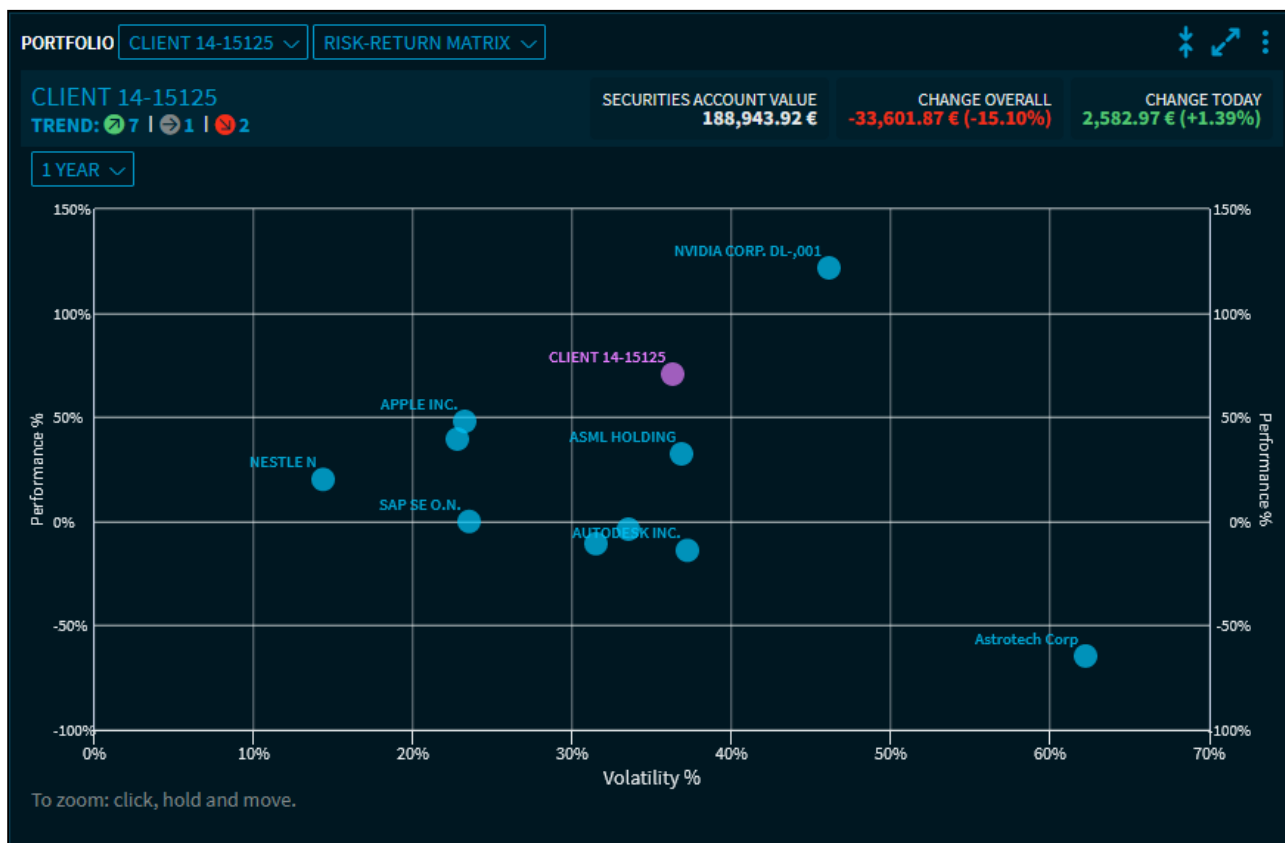


If you have not yet entered any deposits for a portfolio, the following message appears when you select this view:

"An initial account deposit for this is required for this view. This is the reference value for the calculation of the portfolio performance in percent. Please switch to the "Cash account" of portfolio "XYZ" and make an account deposit there. It makes sense to have a deposit date on or just before the first security purchase.

"Risk-Return Matrix" view (portfolio)

Select the "Risk-Return Matrix" view to show the securities included in the portfolio as a risk-return matrix.



The (highlighted) value for the complete portfolio (in the example: "2019-4-8-340953453") is calculated on the basis of an average of the individual values weighted according to buy sums. You can use the settings for this view to show and hide the mean value.

The risk-return matrix integrated in the "Portfolio" widget corresponds to the table in the "Risk-Return Matrix" widget, see [Risk-Return Matrix](#).

"Correlation Matrix" view (portfolio)

Select the "Correlation Matrix" view to show the securities in the portfolio as a correlation matrix.

PORTFOLIO

CLIENT 14-15125

CORRELATION MATRIX

CLIENT 14-15125

TREND:

6

|

4

SECURITIES ACCOUNT VALUE

188,835.61 €

CHANGE OVERALL

-33,710.17 € (-15.15%)

CHANGE TODAY

2,470.95 € (+1.33%)

1 MONTH

Time range: Feb 22, 2022 - Mar 22, 2022

	APC	ASME	SP5B	AUD	MSF	NESR	NVD	PUM	SAP	SGT
APC	1.000	0.431	0.186	0.757	0.646	0.450	0.498	0.036	-0.073	-0.238
ASME	0.431	1.000	0.449	0.673	0.721	0.877	0.895	0.578	0.712	0.000
SP5B	0.186	0.449	1.000	0.039	0.504	0.180	0.623	-0.273	0.330	0.685
AUD	0.757	0.673	0.039	1.000	0.550	0.723	0.526	0.575	0.082	-0.505
MSF	0.646	0.721	0.504	0.550	1.000	0.688	0.815	0.054	0.459	0.097
NESR	0.450	0.877	0.180	0.723	0.688	1.000	0.771	0.680	0.604	-0.269
NVD	0.498	0.895	0.623	0.526	0.815	0.771	1.000	0.277	0.669	0.244
PUM	0.036	0.578	-0.273	0.575	0.054	0.680	0.277	1.000	0.299	-0.594
SAP	-0.073	0.712	0.330	0.082	0.459	0.604	0.669	0.299	1.000	0.370
SGT	-0.238	0.000	0.685	-0.505	0.097	-0.269	0.244	-0.594	0.370	1.000

"1 month" is set by default for the calculation in the Correlation Matrix. The exact period is also shown on the right side above the matrix.

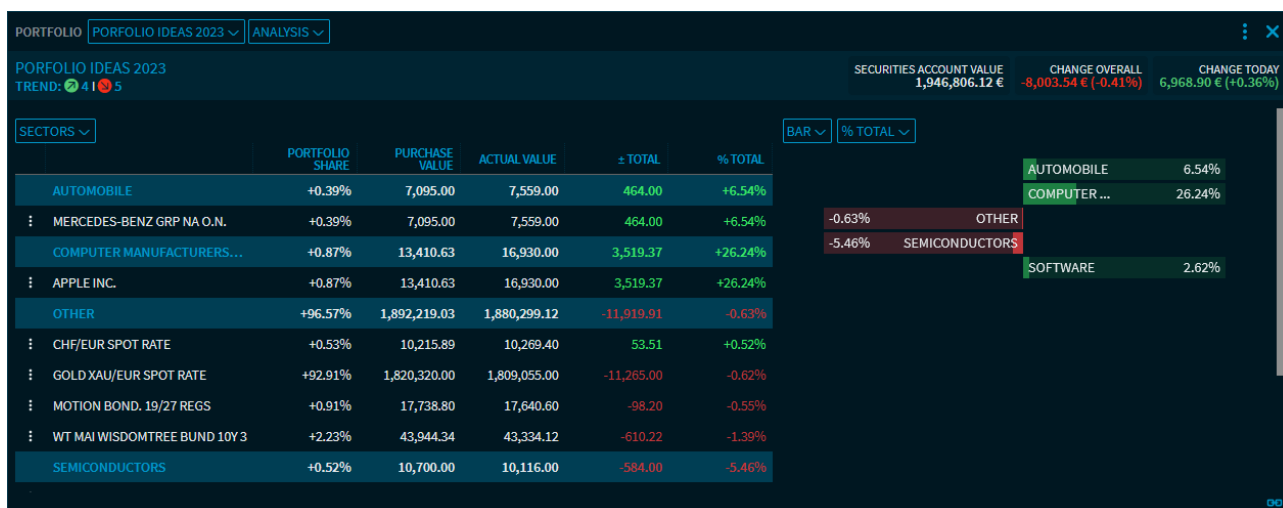
Use the drop-down list above the Correlation Matrix to select other calculation periods.

1 WEEK
1 MONTH
YEAR TO DATE
1 YEAR
2 YEARS
3 YEARS
5 YEARS
10 YEARS
CUSTOM

The correlation matrix integrated in the "Portfolio" widget corresponds to the matrix in the **"Correlation Matrix" widget including the settings** that you open with the "Settings" command from the widget menu. See also [Correlation Matrix](#).

"Analysis" view (portfolio)

From the view drop-down list, select the "Analysis" view to analyse the composition of the instruments in the portfolio.



In the "Analysis" view, you can use the drop-down list on the left side to select from the following criteria:

- Single values (image example)
- Security type
- Currency
- Sectors
- Countries
- Sector (Infront)
- Sub sector (Infront)

In the table view on the left side of the "Portfolio" widget, you can see the positions as a table with the following columns:

- Deposit percent
- Purchase value
- Actual value
- Absolute change (+/- total)
- Absolute change (% total)

The positions are grouped by analysis criterion. The columns show the values for the sectors and for the individual instruments. In the lowest row, you see the totals.

The chart on the right side shows the composition of the portfolio based on the currently selected analysis criterion.

Use the first drop-down list in the chart area on the right to select the display type:

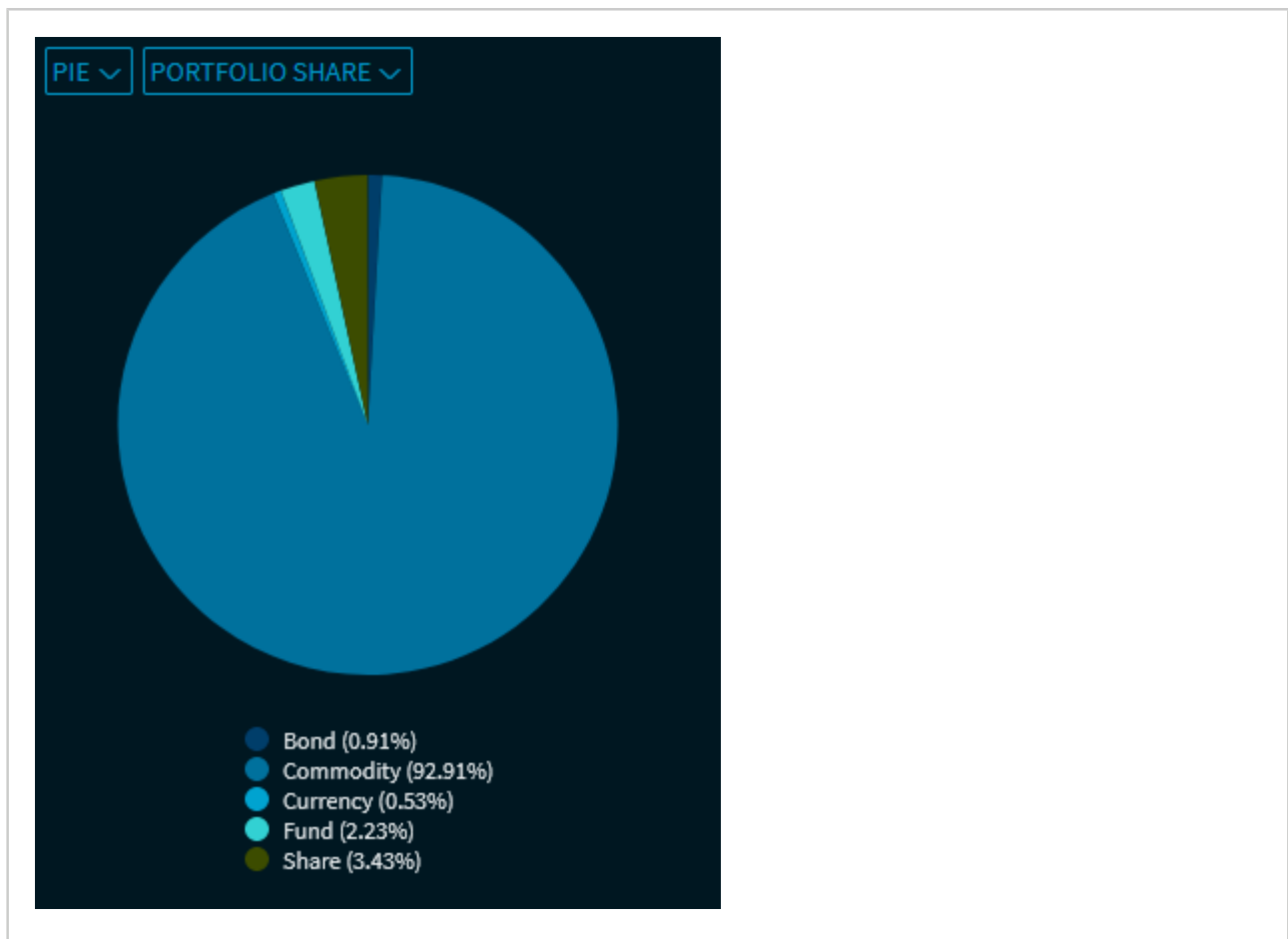
- Bar chart
- Pie chart

The legend in the pie chart shows the corresponding values. Point to the chart to also show the corresponding value there.

Use the second drop-down list in the chart area on the right to select the setting for the chart:

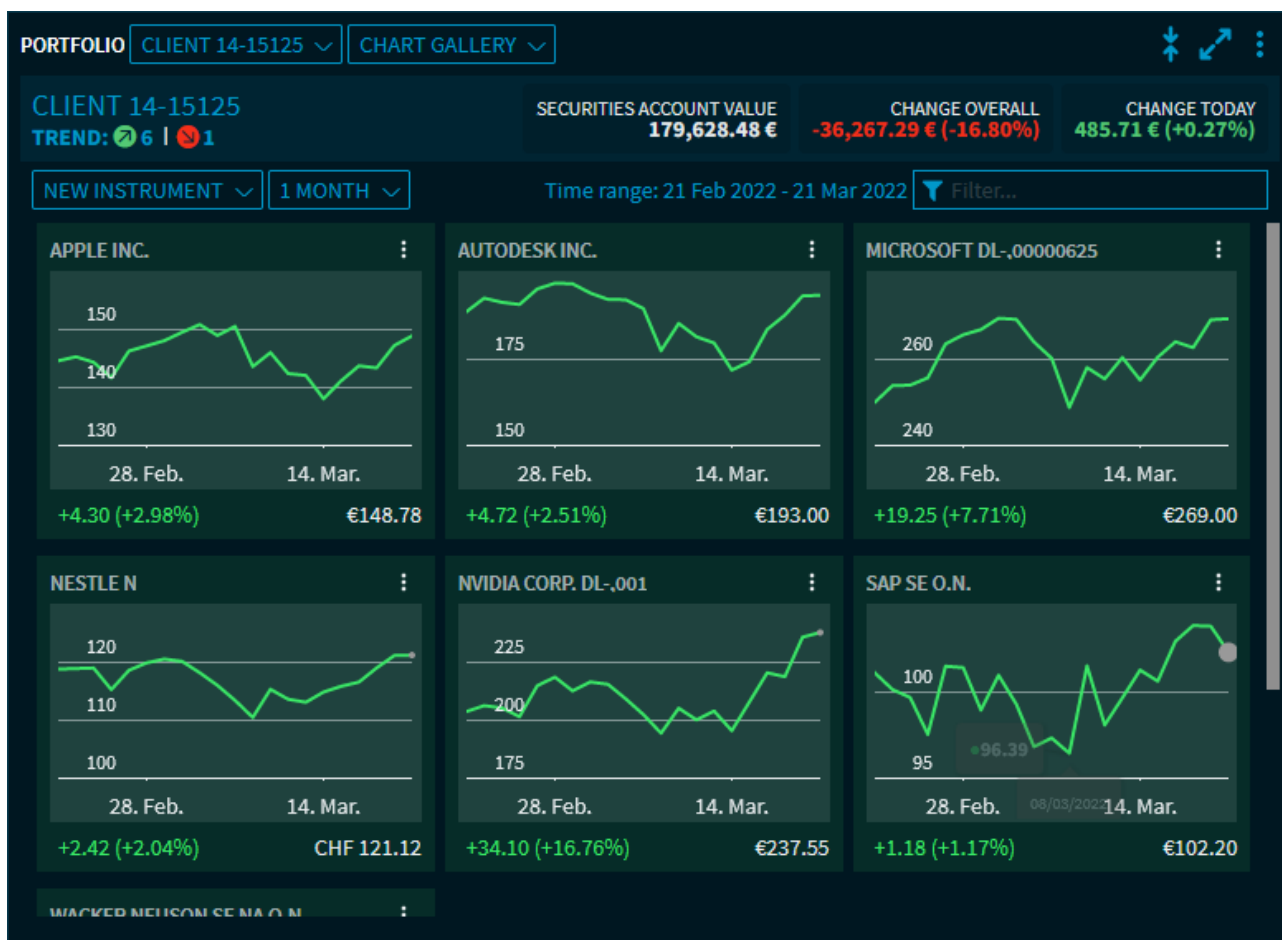
- Deposit percent
- Absolute change (+/- total)
- Absolute change (% total)

Example: Pie chart for security types



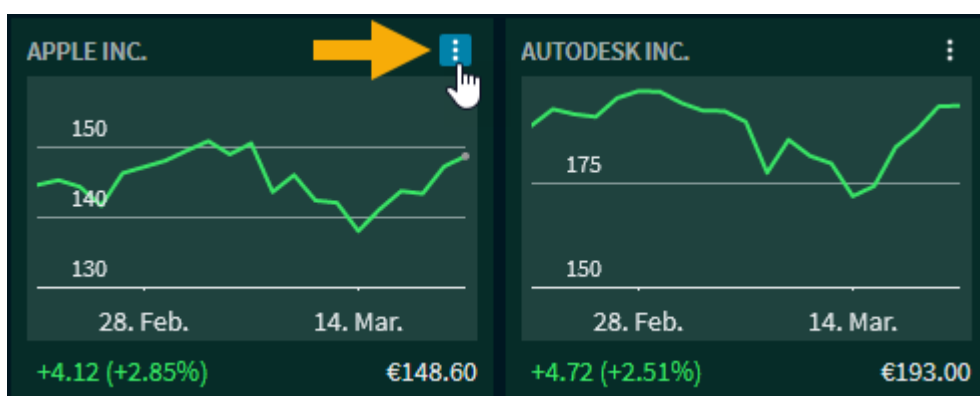
"Chart Gallery" view (portfolio)

Select the "Chart Gallery" view from the view drop-down list to display the securities in the portfolio as individual charts in a Chart Gallery.



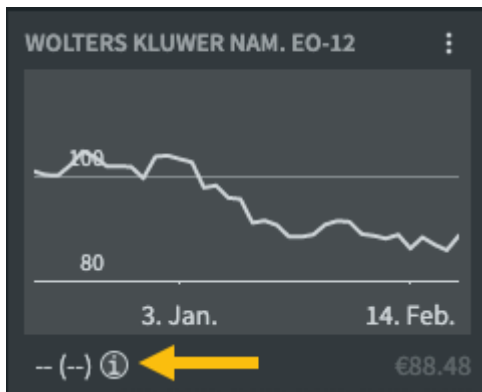
In the Chart Gallery, you can see the chart for each security of the portfolio, including security name, price and absolute and percentage price development over the period. Charts of securities with positive price development are shown in green, those with negative price development in red.

By using the drop-down lists and clicking the "Instrument search" icon above the Chart Gallery, you have the usual option of adding instruments or selecting the time period.



For each security, the familiar widget menu is available at the top right of the individual chart for further navigation.

If the currently selected time interval is not completely available for a security in the Chart Gallery (for example, for newly issued securities), the chart appears dimmed. A corresponding info icon then appears under the chart, the text "Available quote history differs from requested period" is displayed when pointing to the icon:



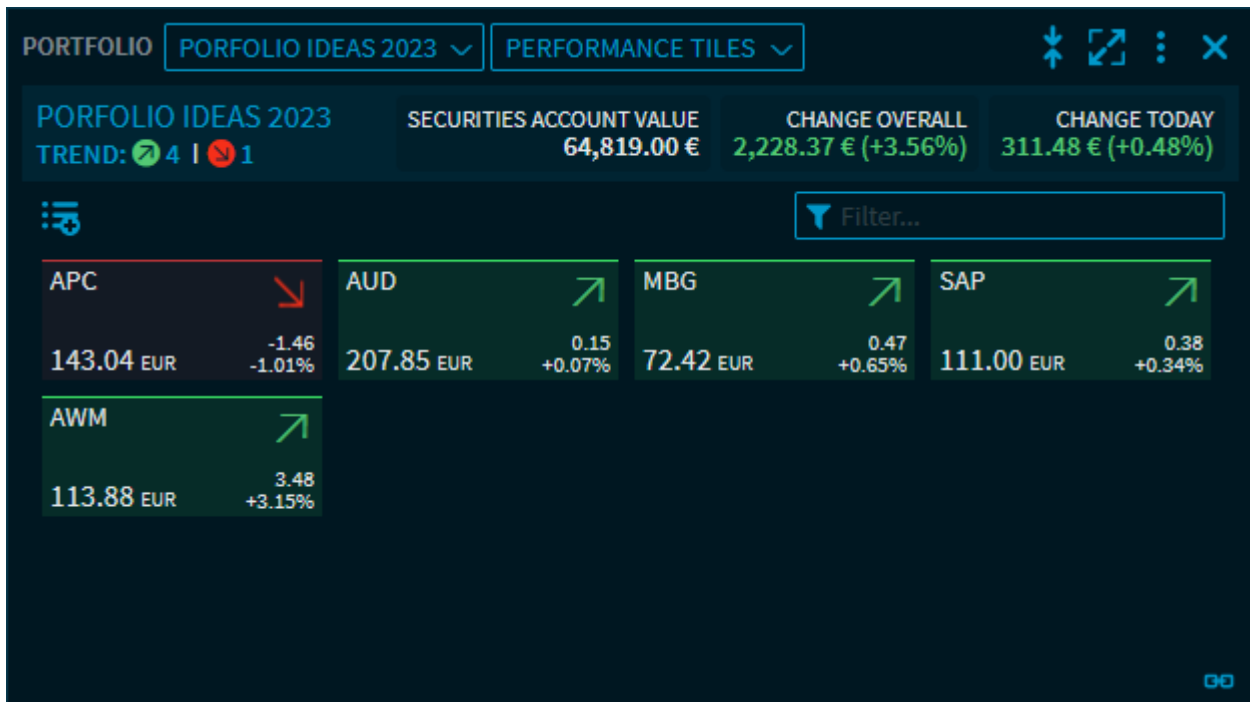
By using the [Widget settings](#), you can also make further configurations for this view, for example, show details on the securities.

Example: Show details of the securities



"Performance tiles" view (portfolio)

In many widgets of Infront Investment Manager, you can display securities lists in the "Performance tiles" view, including the "Portfolio" widget. Select the "Performance tiles" view from the second drop-down list in the upper part of the widget.



All securities in the current portfolio are shown as individual "performance tiles".

In the "Tile view" view, you can select an evaluation period for the "Tiles" via a selection list for the securities, similar to the "Performance Tile" ("Mini Quote") widget.



The following time periods are available for selection:

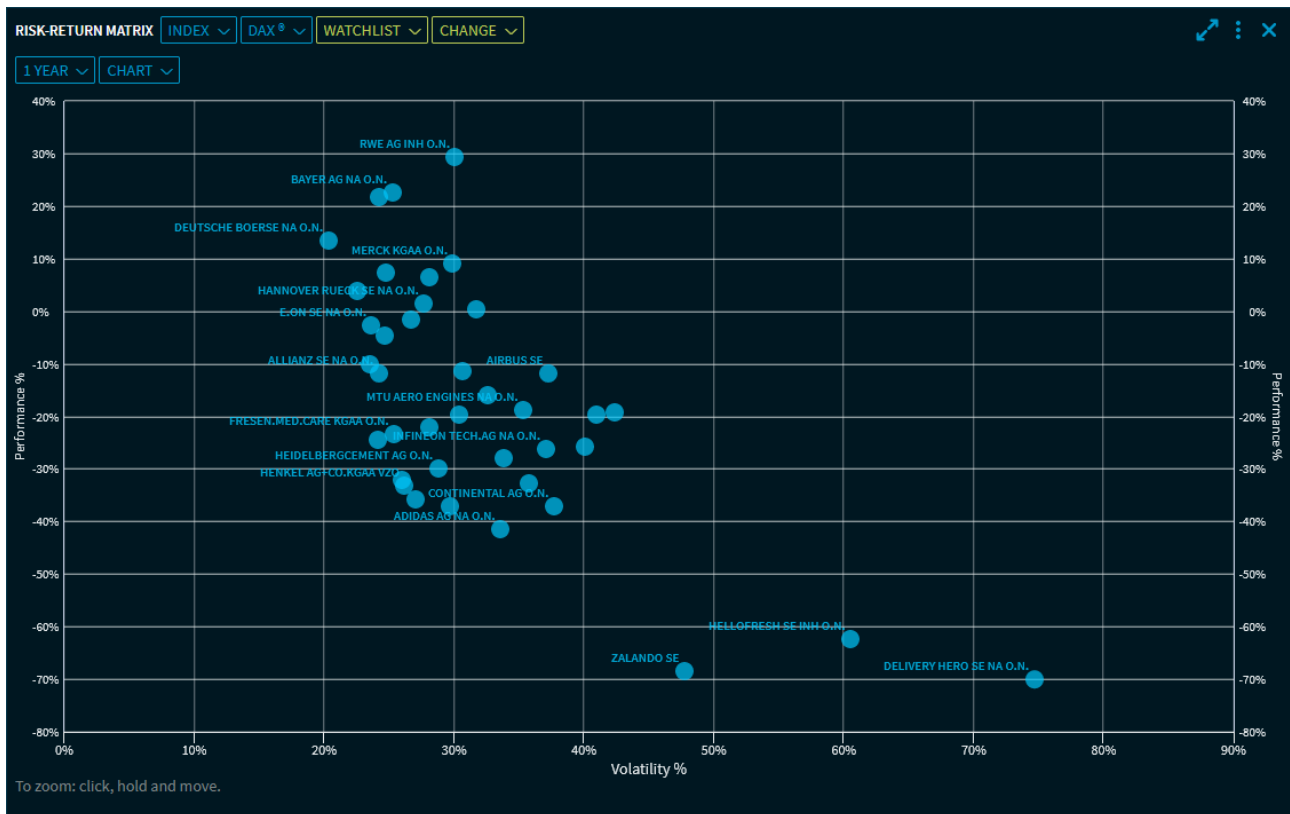
- Performance Today (default setting)
- 1-Week Performance
- 1-Month Performance
- Performance Current Year
- 1-Year Performance
- 3-Year Performance
- 5-Year Performance



You can also "buy" securities in this view by using the "Instrument search" icon. For more information, see [Add position to portfolio](#).

5.28 Risk-Return Matrix

With the "Risk-Return Matrix" widget, you can visually compare the volatility and performance of securities within an asset class over various periods. On the horizontal axis, you see the volatility in percent. On the vertical axis, you see the performance in percent.



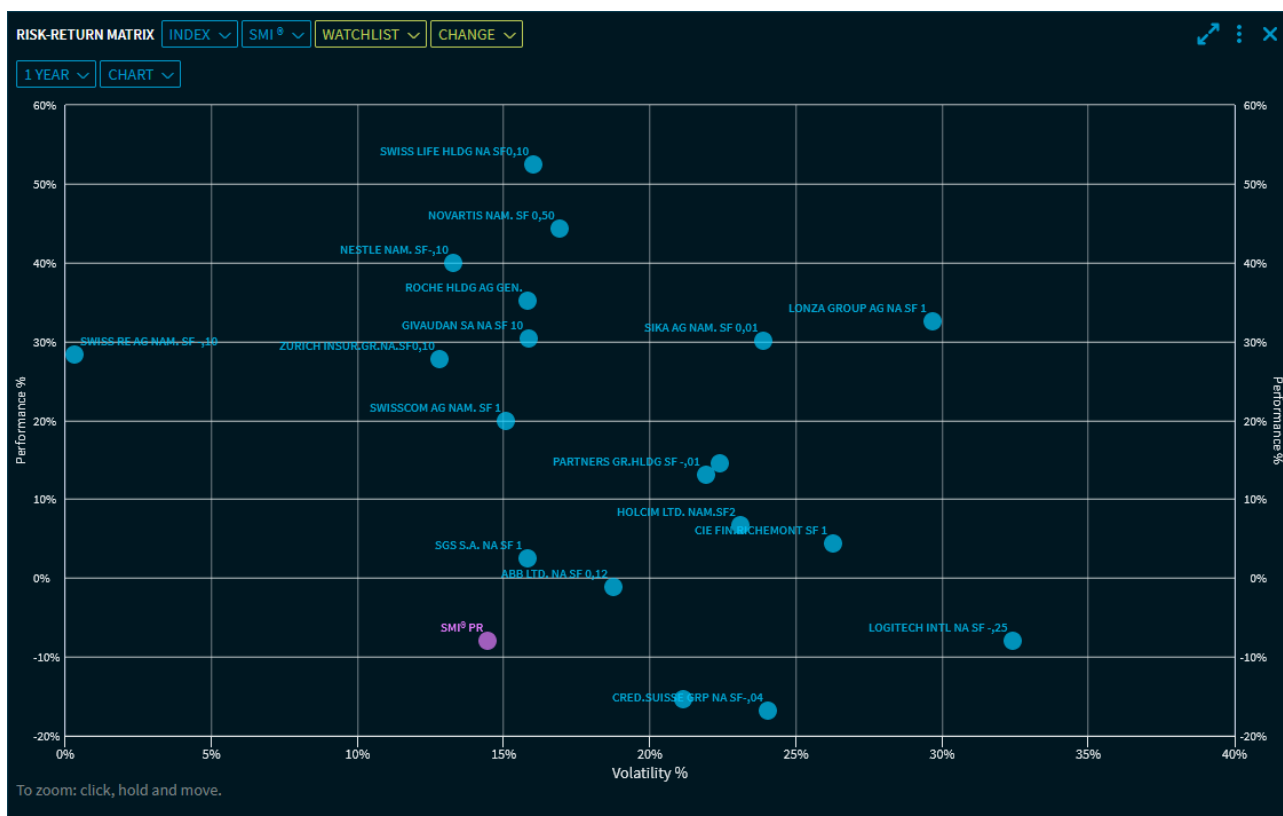
From the first drop-down list at the top of the widget, select if you want to show the securities of an index, a watchlist or a portfolio. From the second drop-down list, select the actual index, watchlist or portfolio.

Optionally, select from the third and fourth drop-down list additional indices (or watchlists or portfolios) to show their securities in the same chart. For example, you can compare securities in a portfolio with those in a watchlist, and so on.

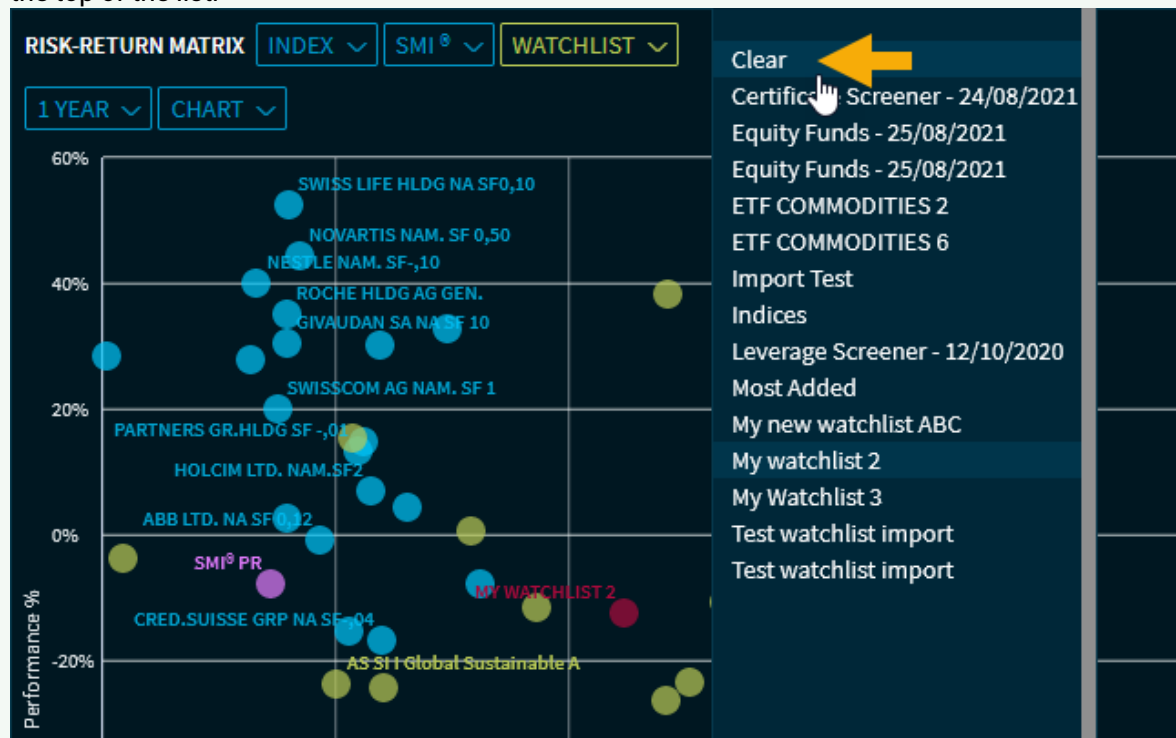
Point to a point on the chart to see details (name, WKN, exact values, and current price) for this value.

If you have a large number of data points, use the [zoom function](#) to enlarge an area of the matrix.

By using the [Settings of the widget](#), you can show the mean value of the securities, for example, for the securities in the "DAX" index, you can also show the DAX. This is then displayed in a different colour:




To remove shown lists from the display, click again in the list and select the "Clear" command at the top of the list:



In the drop-down lists below, you define the analysis period and the "Chart" or "Table" view). You can select from the following periods:

- 1 month

- 3 months
- 6 months
- 1 year (default setting)
- 3 years
- 5 years
- 10 years
- Year to date

 In a [Watchlist](#) or a [Portfolio](#), you can also select a view of this type.

See also:

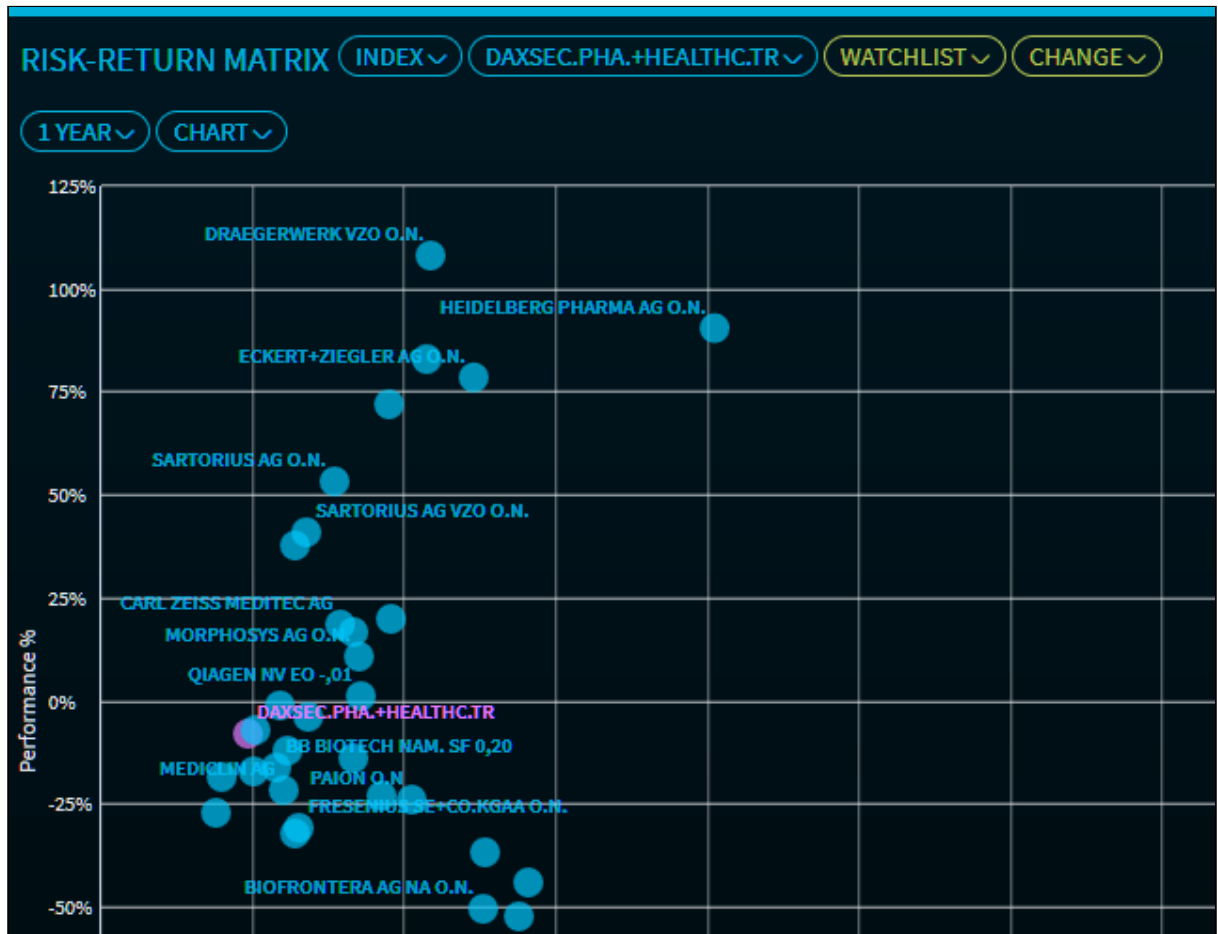
- [Zooming in the Risk-Return Matrix](#)
- ["Chart" view in the "Risk-Return Matrix" widget](#)
- ["Table" view in the "Risk-Return Matrix" widget](#)
- [Copy the Risk-Return Matrix to the clipboard](#)
- [Settings in the "Risk-Return Matrix" widget](#)

5.28.1 Zooming in the Risk-Return Matrix

If the Risk-Return Matrix contains a large number of data points, the display can get confusing. In these cases, use the zoom function to enlarge a section of the matrix.

To zoom in:

1. Click in the Risk-Return Matrix.
2. Hold down the mouse button and drag the selection rectangle that appears to the required size, and then click to enlarge the section.



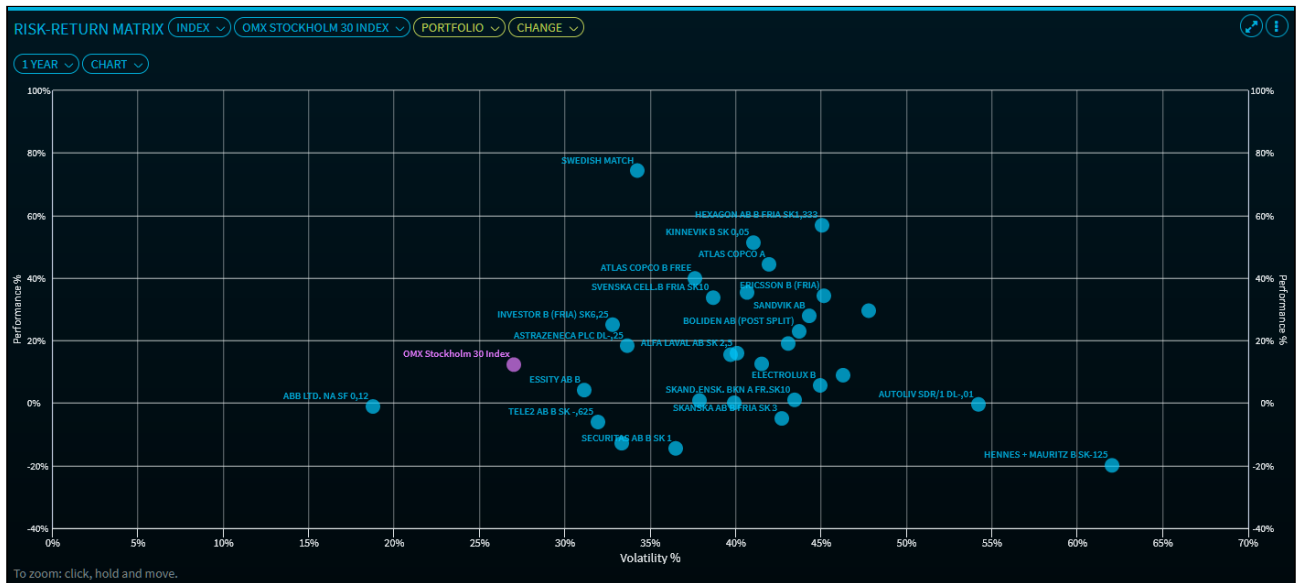
This zooms into the selected area of the matrix.

3. If necessary, repeat the zooming steps until you get the optimal display.

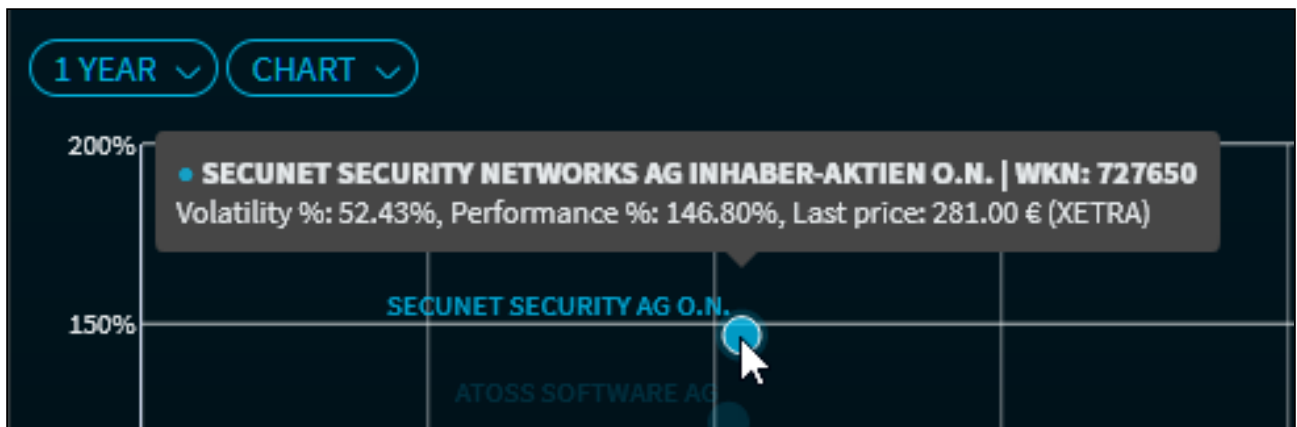
You can reset the display to the default setting at any time by clicking the "Reset zoom" button, which appears in the widget when the display is zoomed in.

5.28.2 "Chart" view in the "Risk-Return Matrix" widget

The "Chart" view is the default view of the "Risk-Return Matrix" widget. The securities of the index (or watchlist or portfolio) are displayed as data points in a chart. On the horizontal axis (x-axis), you find the volatility in percent. On the vertical axis (y-axis), you find the performance in percent.

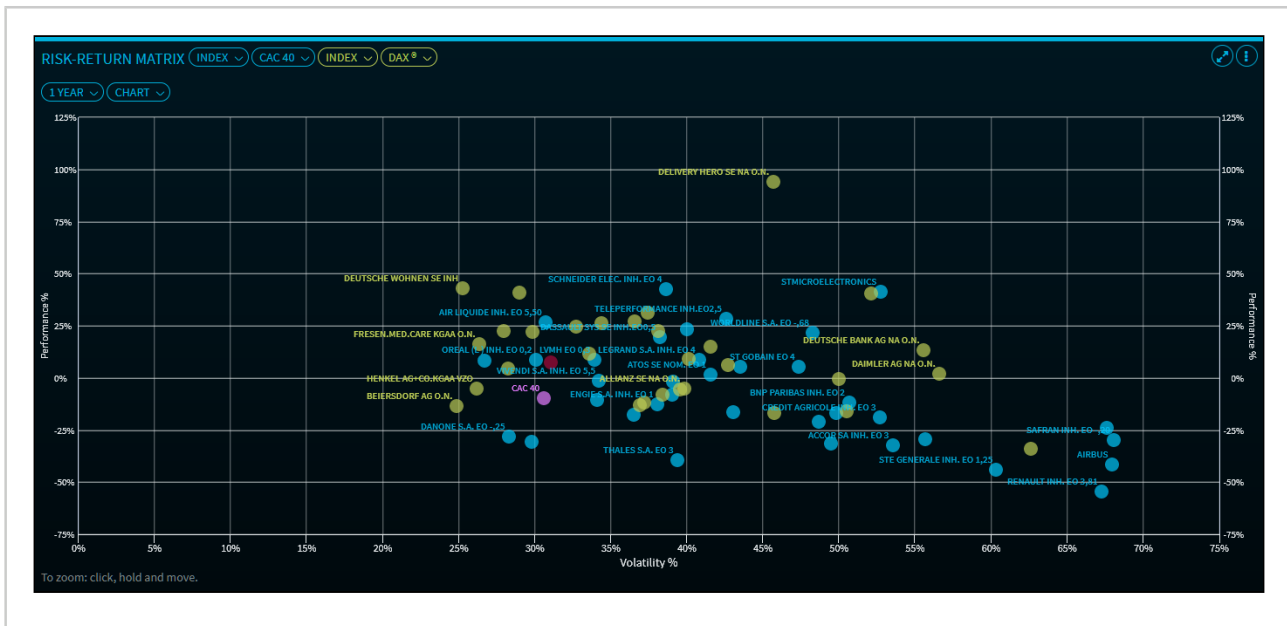


Point to a data point to show the exact values for the security.



If you selected an alternative second index (or watchlist or portfolio), then its securities are shown as data points with a new colour in the chart.

Example: Chart with CAC 40 as the first and DAX as the second index



5.28.3 "Table" view in the "Risk-Return Matrix" widget

Use the "View" drop-down list to switch between "Chart" and "Table".

RISK-RETURN MATRIX INDEX CAC 40 INDEX CHANGE				
1 YEAR TABLE				
NAME	INDEX	WKN	RETURN	VOLATILITY
CAC 40	CAC 40	969400	-9.82%	30.60%
ENGIE S.A. INH. EO 1	CAC 40	A0ER6Q	-12.51%	38.10%
LEGRAND S.A. INH. EO 4	CAC 40	A0JKB2	8.89%	40.85%
ACCOR SA INH. EO 3	CAC 40	860206	-32.37%	53.56%
CREDIT AGRICOLE INH. EO 3	CAC 40	982285	-18.73%	52.69%
AIR LIQUIDE INH. EO 5,50	CAC 40	850133	26.75%	30.71%
ATOS SE NOM. EO 1	CAC 40	877757	1.65%	41.56%
AXA S.A. INH. EO 2,29	CAC 40	855705	-16.61%	43.08%
VINCI S.A. INH. EO 2,50	CAC 40	867475	-17.03%	49.81%
SCHNEIDER ELEC. INH. EO 4	CAC 40	860180	42.69%	38.65%
DANONE S.A. EO -,25	CAC 40	851194	-28.32%	28.33%
BNP PARIBAS INH. EO 2	CAC 40	887771	-11.89%	50.68%
BOUYGUES SA INH. EO 1	CAC 40	858821	--	--
CARREFOUR S.A. INH.EO 2,5	CAC 40	852362	-10.74%	34.09%
CAPGEMINI SE INH. EO 8	CAC 40	869858	5.52%	43.50%
ST GOBAIN EO 4	CAC 40	872087	5.13%	47.38%
DASSAULT SYS SE INH.EO0,5	CAC 40	901295	19.40%	38.23%
AIRBUS	CAC 40	938914	-41.72%	67.97%

The table shows all securities that are visually displayed in the "Chart" view. The table contains the following columns:

Column	Description
Name	The name of the security.
Index	<p>The index selected above. If you selected a watchlist or portfolio instead of an index, the the name of the watchlist or portfolio appears here.</p> <p>If you selected an alternative second index (or watchlist or portfolio), then its securities are added in the table. The "Index" column then shows to which index (or watchlist or portfolio) the security belongs to.</p>
WKN	The German security ID (WKN) of the security.
Performance	The relative performance of the selected security in the period selected.
Volatility	The relative volatility of the security in the period selected.

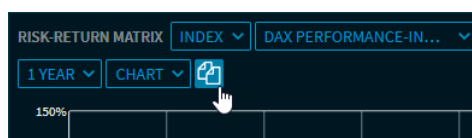
If you selected an alternative second index (or watchlist or portfolio), then its securities are added in the table.

Table view with CAC 40 as the first and DAX as the second index

RISK-RETURN MATRIX INDEX CAC 40 INDEX DAX [®]					
STMICROELECTRONICS	CAC 40	893438	--	--	
SODEXO S.A. INH. EO 4	CAC 40	870935	28.18%	21.93%	
VEOLIA ENVIRONNE. EO 5	CAC 40	501451	4.92%	19.00%	
VALEO SA INH. EO 1	CAC 40	A2ALDB	-46.13%	47.84%	
TECHNIPFMC PLC DL 1	CAC 40	A2DJQK	-3.89%	35.68%	
ARCELORMITTAL S.A. NOUV.	CAC 40	A2DRTZ	-22.09%	34.43%	
URW (STAPLED SHS) EO-,05	CAC 40	A2JH5S	-20.97%	24.17%	
DAX [®]	DAX [®]	846900	-2.43%	14.82%	
ALLIANZ	DAX [®]	840400	9.59%	17.04%	
BMW ST	DAX [®]	519000	-16.72%	21.42%	
LUFTHANSA	DAX [®]	823212	-22.42%	32.27%	
HENKEL VZ	DAX [®]	604843	-15.21%	19.30%	

5.28.4 Copy the Risk-Return Matrix to the clipboard

The Risk-Return Matrix chart can be copied to the clipboard using the icon, just like other charts.



5.28.5 Settings in the "Risk-Return Matrix" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

By using the settings of the widget, you can show the mean value of the securities in the matrix, for example, for the securities in the "DAX" index, you can also show the DAX. This is then displayed in a different colour.

To do this, select the "active" checkbox and confirm the setting with the "Save changes" button.

For an example, see [Risk-Return Matrix](#).

SETTINGS

Show average value:

☐ enabled

SAVE CHANGES

5.29 Swap Calculator

With the Swap Calculator, you can value interest rate swaps, which is particularly useful for treasurers. An interest rate swap is an exchange of future interest receipts between two parties in a currency during a period of time. The amount of interest payments is determined from the interest rate and nominal value of the corresponding interest period. The nominal value is not changed in the interest swap. The Swap Calculator considers only swaps where one party exchanges a fixed interest rate for the floating interest rate of another party. In a swap transaction, one party takes on the role of the payer (receives the variable interest rate) and the other one the role of the receiver (receives the fixed interest rate).

With the SWAP Calculator, you can easily and clearly assess interest rate swaps. Different input parameters are available. In addition to the usual selection of payer/receiver, you can also enter all relevant details for the fixed and floating positions to calculate. You get a comprehensive tabular and graphical overview of all important data, key figures, and simulations of the future cash flows.

SWAP CALCULATOR
CONTRACT DATA

FIXED

Role
PAYER

Nominal value
1,000,000.00

Currency
EURO

Value date
23/03/2023

Term from
23/03/2023

First coupon
23/03/2024

Term to
23/03/2023

Payment frequency
ANNUALLY

Day count convention
GERMAN 30/360

Fixed coupon in %
2.0000

FLOATING

Role
RECEIVER

Nominal value
1,000,000.00

Currency
EUR

Value date
23/03/2023

Term from
23/03/2023

First coupon
23/09/2023

Term to
23/03/2023

Payment frequency
SEMI-ANNUALLY

Day count convention
GERMAN 30/360

Floating spread in bp
0.00

Leverage
1.00

Valuation fixed/floating
Fixed: -170,431.78 EUR / Floating: 253,841.72 EUR

Valuation - total
83,409.94 EUR



To use the Swap Calculator, certain data packages are necessary. For more information, contact Infront Financial Technology GmbH.

The Swap Calculator offers the following views:

- [Contract data](#)
- [Cash flows](#)
- [Fixed/floating cash flow](#)
- [Net cash flow](#)

5.29.1 "Contract data" view in the Swap Calculator

The "Contract data" view is the default view of the "Swap Calculator" widget.

SWAP CALCULATOR

CONTRACT DATA

FIXED

Role

PAYER

Nominal value

1,000,000.00

Currency

EURO

Value date

23/03/2023

Term from

23/03/2023

First coupon

23/03/2024

Term to

23/03/2033

Payment frequency

ANNUALLY

Day count convention

GERMAN 30/360

Fixed coupon in %

2.0000

FLOATING

Role

RECEIVER

Nominal value

1,000,000.00

Currency

EUR

Value date

23/03/2023

Term from

23/03/2023

First coupon

23/09/2023

Term to

23/03/2033

Payment frequency

SEMI-ANNUALLY

Day count convention

GERMAN 30/360

Floating spread in bp

0.00

Leverage

1.00

Valuation fixed/floating

Fixed: -170,431.78 EUR / Floating: 253,841.72 EUR

Valuation - fixed		Valuation - floating	
Market value	-170,431.78 EUR	Market value	253,841.72 EUR
Accrued interest	0.00 EUR	Accrued interest	0.00 EUR
Total	-170,431.78 EUR	Total	253,841.72 EUR

Valuation - total

83,409.94 EUR

Market value	83,409.94 EUR
Accrued interest	0.00 EUR
Total	83,409.94 EUR

Enter the data for the valuation of a swap. The results of the valuation are shown in the lower part of the Swap Calculator. You see the market value without accrued interest, the accrued interest and the market value with accrued interest. In addition, you see the total valuation.

You find the following elements in the "Contract data" view:

"Fixed" area

Element	Description
Role	Select the role of the "Fixed" party. "Payer" (default) or "Receiver". This setting changes the sign of the cash flow.
Nominal amount	Enter the (fixed) nominal amount of the swap transaction. The nominal amount for "Fixed" and "Floating" remains unchanged.
Currency	Select the (fixed) currency of the swap transaction. The currency for "Fixed" and "Floating" remains unchanged.
Value date	Use the integrated calendar to specify the valuation date of the swap transaction. The value date cannot be before the start date of the swap transaction that you enter in the "Term from" field.
Term from	Use the integrated calendar to specify the start date of the swap transaction.
First coupon	Use the integrated calendar to specify the date of the first fixed interest payment of the swap transaction.
Term to	Use the integrated calendar to specify the end date of the swap transaction.
Payment frequency	Select the payment frequency for the fixed interest payment. The following periods are available: <ul style="list-style-type: none"> • Monthly • Quarterly • 4-monthly • Annually
Day count convention	Select the day count convention for the fixed interest payment. The following periods are available for the day count convention: <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/360 • ISMA (ACT/ACT) • ISMA 30E/360
Fixed coupon in %	The fixed interest payment in percent of the swap transaction. You can enter up to 4 decimal places here.

"Floating" area

Element	Description
Role	The role of the "receiver". The role is the one you selected in the "Fixed" area.
Nominal amount	The (floating) notional amount of the swap transaction.
Currency	The currency of the swap transaction. The currency for "Fixed" and "Floating" remains unchanged.
Value date	The value date selected in the "Fixed" area.
Term from	The start date selected in the "Fixed" area of the swap transaction.
First coupon	Use the integrated calendar to specify the date of the first floating interest payment of the swap transaction.
Term to	The end date date selected in the "Fixed" area of the swap transaction.
Payment frequency	Select the payment frequency for the floating interest payment. The following periods are available: <ul style="list-style-type: none"> • Monthly • Quarterly • 4-monthly • Annually
Day count convention	Select the day count convention for the floating interest payment. The following periods are available for the day count convention: <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/360 • ISMA (ACT/ACT) • ISMA 30E/360
Floating spread in %	The floating margin of the swap transaction in basis points added to the interest rate.
Leverage	Enter the leverage.

"Valuation" area

Element	Description
Market value "Fixed" valuation	The sum of the fixed cash flow.
Market value "Floating" valuation	The sum of the floating cash flow.
Accrued interest "Fixed" valuation	The sum of the fixed accrued interest.
Accrued interest "Floating" valuation	The sum of the floating accrued interest.
Market value "Total" valuation	The sum of entire cash flow.
Accrued interest "Total" valuation	<p>The sum of the accrued interest rate (of the fixed and floating side).</p> <p>Here, the accrued interest is calculated (provided the start date is before the value date) based on the set day count convention, floating reference interest rate and days between start and value date.</p>

5.29.2 "Cash flows" view in the Swap Calculator

From the view drop-down list in the upper part of the widget, select the "Cash flow" entry to show a table with the cash flows of the swap transaction. These cash flows are based on the configuration selected in the "Contract data" view.

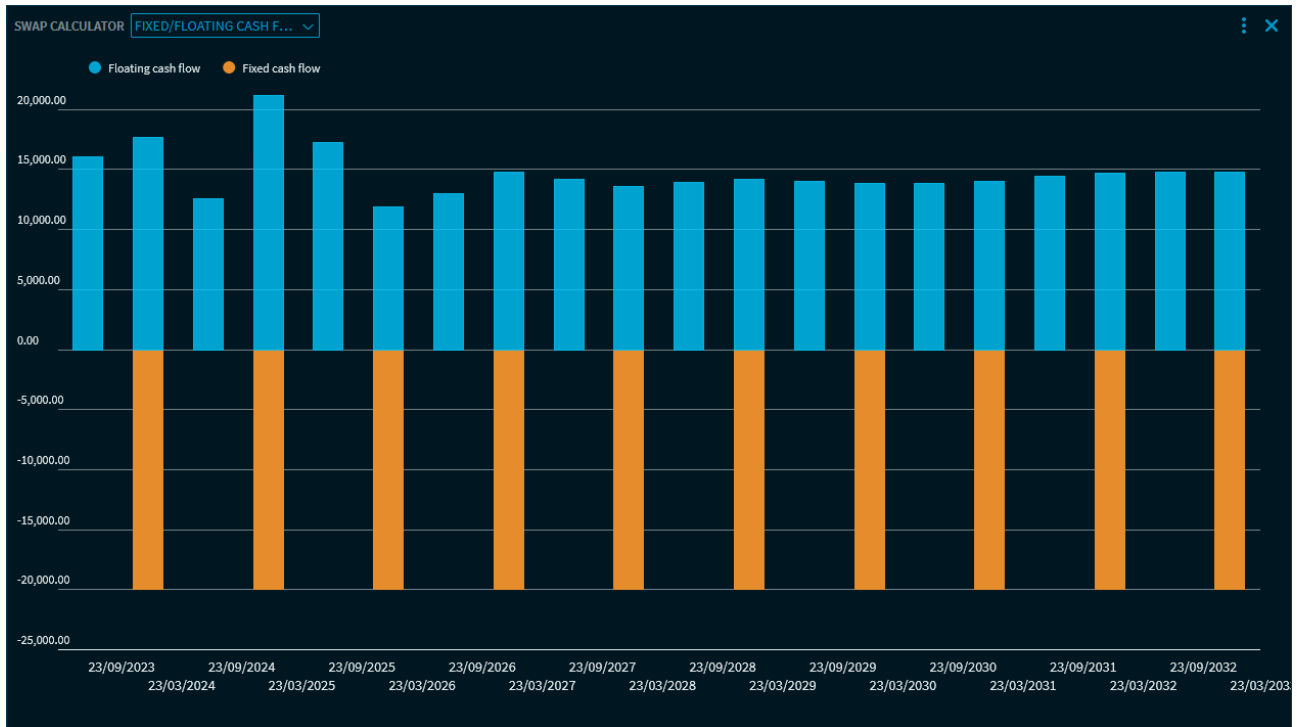
SWAP CALCULATOR		CASH FLOWS					
DATE	FLOATING RATE %	FLOATING CASH FLOW	FIXED RATE %	FIXED CASH FLOW	NET CASH FLOW	DISCOUNT FACTOR	NET PRESENT VALUE
23/09/2023	3.2057	16,028.59	—	—	16,028.59	0.984347	15,777.69
23/03/2024	3.5350	17,674.94	2.0000	-20,000.00	-2,325.06	0.967397	-2,249.25
23/09/2024	2.5048	12,523.98	—	—	12,523.98	0.955504	11,966.71
23/03/2025	4.2351	21,175.74	2.0000	-20,000.00	1,175.74	0.935891	1,100.36
23/09/2025	3.4534	17,266.81	—	—	17,266.81	0.920138	15,887.85
23/03/2026	2.3755	11,877.32	2.0000	-20,000.00	-8,122.68	0.909400	-7,386.77
23/09/2026	2.6027	13,013.62	—	—	13,013.62	0.897792	11,683.53
23/03/2027	2.9501	14,750.41	2.0000	-20,000.00	-5,249.59	0.884835	-4,645.03
23/09/2027	2.8296	14,148.11	—	—	14,148.11	0.872576	12,345.30
23/03/2028	2.7110	13,555.10	2.0000	-20,000.00	-6,444.90	0.860983	-5,548.95
23/09/2028	2.7815	13,907.47	—	—	13,907.47	0.849253	11,810.96
23/03/2029	2.8365	14,182.61	2.0000	-20,000.00	-5,817.39	0.837459	-4,871.83
23/09/2029	2.8033	14,016.41	—	—	14,016.41	0.825962	11,577.02
23/03/2030	2.7689	13,844.56	2.0000	-20,000.00	-6,155.44	0.814759	-5,015.20
23/09/2030	2.7683	13,841.42	—	—	13,841.42	0.803710	11,124.49
23/03/2031	2.8106	14,053.24	2.0000	-20,000.00	-5,946.76	0.792648	-4,713.69
23/09/2031	2.8904	14,452.01	—	—	14,452.01	0.781435	11,293.31
23/03/2032	2.9458	14,729.14	2.0000	-20,000.00	-5,270.86	0.770174	-4,059.48
23/09/2032	2.9579	14,789.35	—	—	14,789.35	0.759030	11,225.56
23/03/2033	2.9592	14,796.22	2.0000	-20,000.00	-5,203.78	0.748043	-3,892.65

You find the following columns in the "Cash flows" view:

Column	Description
Date	The date of the payment.
Floating rate %	The floating (variable) interest rate of the payment.
Floating cash flow	The variable payment amount in the currency specified.
Fixed interest rate in %	The fixed interest rate of the payment.
Fixed cash flow	The fixed payment amount in the currency specified.
Net cash flow	The net cash flow on the given payment date.
Discount factor	The discount factor on the given payment date.
Net present value	<p>The net present value of the payments.</p> <p>The net present value of an investment is the sum the present (now) value of a series of present and future cash flows. To better understand the arithmetic operation, the net present value can also be considered as the calculated amount of money that would have to be used to arrive at a balance of 0 at the end of the analysis, taking into account the interest rate and the incoming and outgoing payments. This assumes that the payments are reinvested, that is, the interim reinvestment of the surpluses at the discount rate.</p>

5.29.3 "Fixed/floating cash flow" view in the Swap Calculator

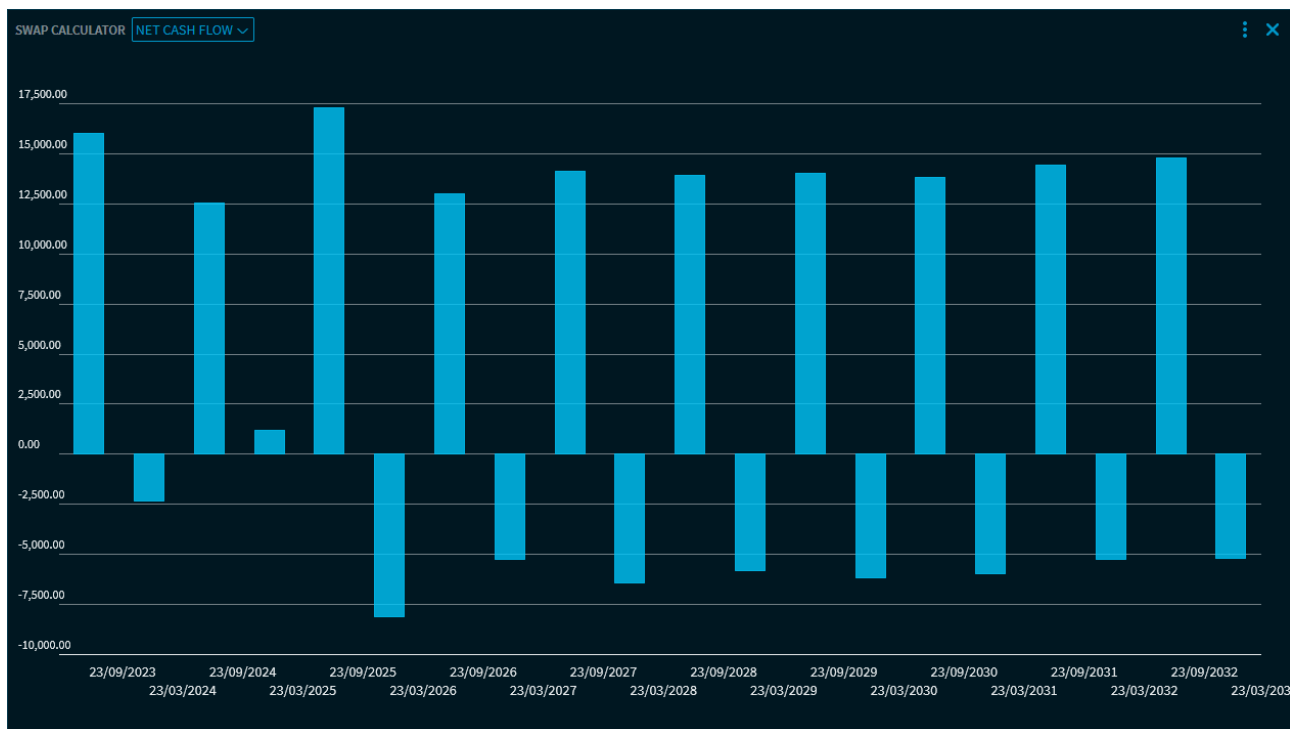
In the view drop-down list in the upper part of the widget, select the "Fixed/floating cash flow" entry to show a visual display of the fixed and floating cash flows for swap transactions. These cash flows are based on the configuration selected in the "Contract data" view.



Point to a bar in the graphic to see the exact values at this time.

5.29.4 "Net cash flow" view in the Swap Calculator

In the view drop-down at the top of the widget, select the "Net cash flow" entry to show a visual display of the net cash flows for swap transactions. These cash flows are based on the fixed and floating cash flows configured in the "Contract data" view.



Point to a bar in the graphic to see the exact values at this time.

5.30 Benchmark Bond Spread Calculator

The Benchmark Bond Spread Calculator allows you to compare the spreads between various countries. You can use the start time and time to maturity to show the data for the spreads.

BENCHMARK BOND SPREADS CALCULATOR **FEB 21, 2023** **10 YEARS**

	JAPAN	UNITED KINGDOM OF ...	FRANCE	NORWAY	SWEDEN
Japan		-310.18 bp	-248.48 bp	-285.18 bp	-209.88 bp
United Kingdom of Great Brit...	310.18 bp		61.70 bp	25.10 bp	100.40 bp
France	248.48 bp	-61.70 bp		-36.70 bp	38.60 bp
Norway	285.18 bp	-25.10 bp	36.70 bp		75.30 bp
Sweden	209.88 bp	-100.40 bp	-38.60 bp	-75.30 bp	

With the two drop-down lists at the top, you select the start date (the current date is set by default) and the time to maturity. For the time to maturity, you can select from various durations up to 30 years.

The 5 drop-down lists allow you to select up to 5 different countries.

The calculated spreads in basis points are shown in the matrix of the calculator.

Select a value from the matrix to plot the development of the selected spread over time.

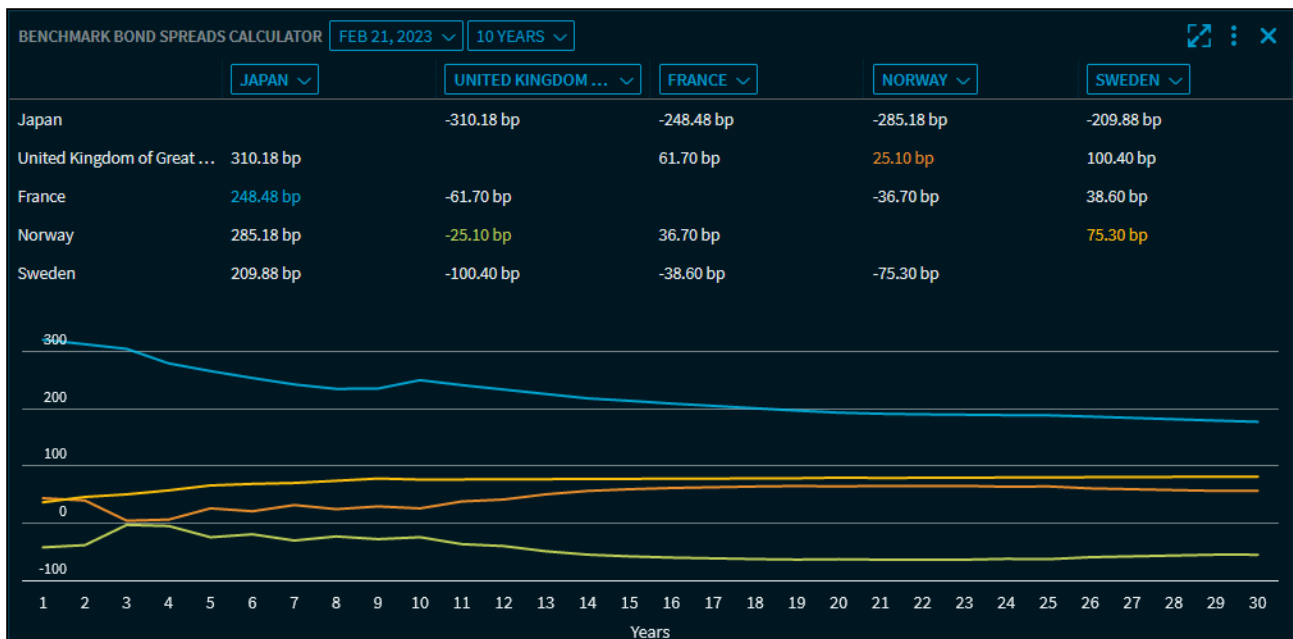
See also:

- [Show spreads in chart](#)

5.30.1 Show spreads in chart

You can display the spreads calculated in the "Benchmark Bond Spreads Calculator" as charts. To do this, follow these steps:

1. Click a spread value in the matrix.
Below the matrix, you see a chart visualising the spread across the entire period.
2. Select further values to display multiple spreads in the chart.



The values in the matrix are colour-coded according to the chart lines. To hide a value in the chart, click it in the matrix once again.

5.31 FX Matrix

The "FX Matrix" widget determines the exchange rates of the specified currencies in real time.

	EUR	USD	JPY	GBP	CHF	AUD	HKD	RUB	ZAR	CNY
	–	1.07937	143.4555	0.8795	0.99565	1.6146	8.47139	83.10115	19.8977	7.4311
	0.926397	–	132.9065	0.81476	0.92244	1.49584	0.00	76.993	18.43427	6.8847
	0.006972	0.007525	–	0.006131	0.006941	0.011257	0.059061	0.579387	0.138808	0.051809
	1.13711	1.22727	163.114	–	1.13208	1.83582	9.63223	94.49774	22.62518	8.44997
	1.004116	1.08414	144.0835	0.883314	–	1.6217	8.50884	83.4712	19.99783	7.46398
	0.619347	0.66851	88.847	0.544684	0.61664	–	5.24686	51.47136	12.33139	4.60256
	0.118042	0.1275	16.93399	0.103811	0.1176	0.19059	–	9.80994	2.35024	0.877203
	0.012033	0.012988	1.72596	0.010582	0.01198	0.019428	0.101937	–	0.239578	0.08942
	0.050225	0.054213	7.2095	0.044171	0.05005	0.081094	–	4.17401	–	0.37324
	0.134566	0.14525	19.30179	0.118344	0.133977	0.21727	1.13999	11.1832	2.67925	–

Real time | Update: 22 Mar 2023

By default, the FX Matrix shows exchange rates from the following 10 currencies:

Symbol	Currency	Symbol	Currency
	EUR Euro		AUD Australian Dollar
	USD US dollar		HKD Hongkong dollar
	JPY Japanese yen		RUB Russian ruble
	GBP British pound sterling		ZAR South African rand
	CHF Swiss franc		CNY Chinese renminbi (yuan)

When you click an exchange rate in the matrix, a context menu opens that allows you to open the security in a different widget (Chart, Full Quote, Performance Tile and so on).

In the settings, you can replace the currencies to be displayed or add others. Point to the currency abbreviations in the matrix to display the full names of the currencies.

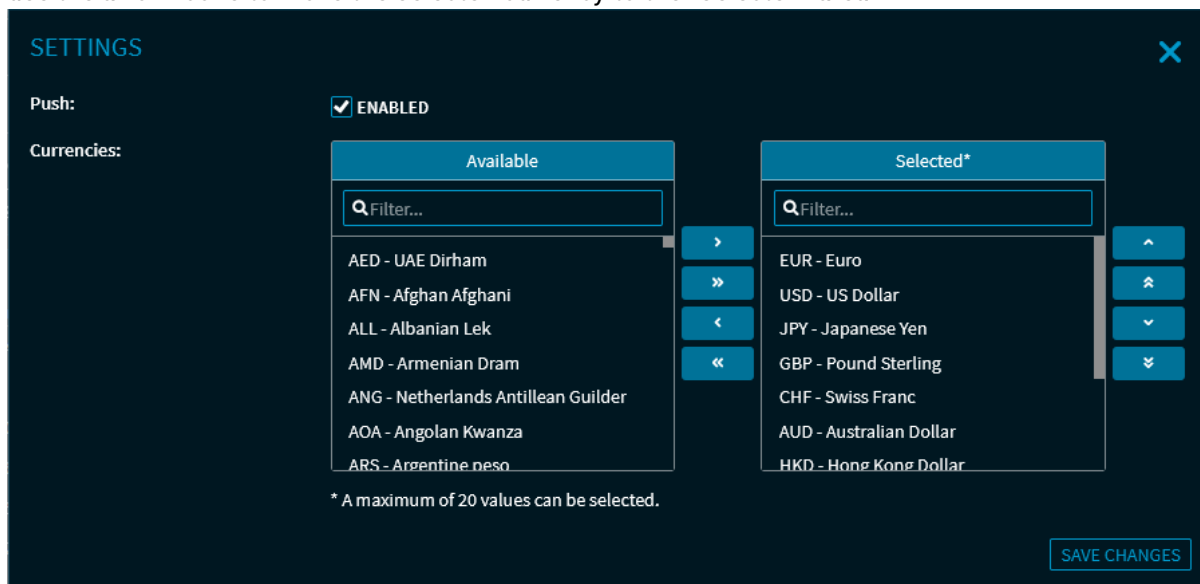
See also:

- [Add currencies to FX Matrix](#)
- [Replace currencies in the FX Matrix](#)
- [Settings in the "FX Matrix" widget](#)

5.31.1 Add currencies to FX Matrix

To add currencies to the FX Matrix:




1. Click the menu icon in the upper right corner of the "FX Matrix" widget.
2. Select "Settings" in the widget menu.
3. In the "Settings" dialogue window that appears, select the currencies you want to display. To do this, use the arrow icons to move the selected currency to the "Selected" area.









4. Click the "Save changes" button to save your selection.

The "Settings" dialogue window closes and all selected currencies are now shown in the FX Matrix.

The following elements are available:

Element	Description
"Available" area	On the left side, you find the "Available" area with all currencies. Use the filter field or the scroll bar to search for currencies.
"Selected" area	On the right side, you find the "Selected" area showing all currencies that are currently displayed in the matrix.
Filter fields	In both areas, "Available" and "Selected", you can search for securities directly in the list or just filter the list.
	Click this button to add the securities selected in the "Available" area to the "Selected" area.  You can select multiple entries at the same time by holding down the <CTRL> key. On mobile devices, you can select several values by simply selecting the values one after the other.
	Click this button to add all available currencies at once to the "Selected" area.



Element	Description
	Click this button to remove the currencies selected in the "Selected" area from the FX Matrix. You can reselect them in the "Available" area at any time to add them to the display.
	Click this button to remove all currently selected currencies from the FX Matrix. You can reselect them in the "Available" area at any time to add them to the display.
	Click this button to move the currencies selected in the "Selected" area one position up.
	Click this button to move the currencies selected in the "Selected" area to the top.
	Click this button to move the currencies selected in the "Selected" area one position down.
	Click this button to move the currencies selected in the "Selected" area to the bottom of the list.



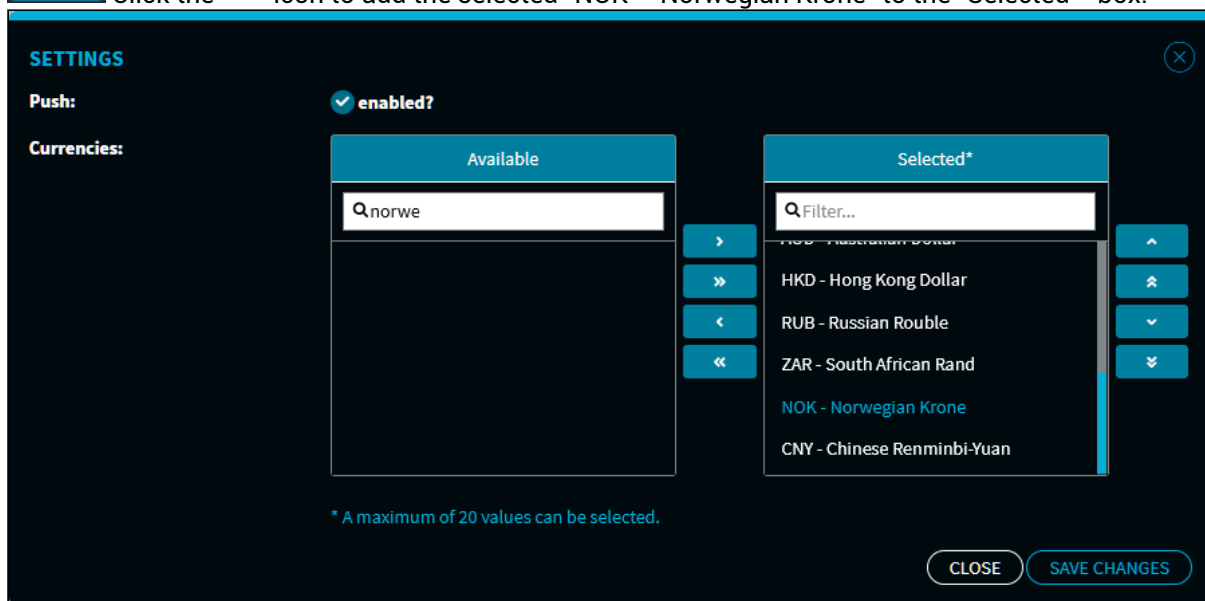
You can select up to 20 currencies and display them in the FX matrix.

5.31.2 Replace currencies in the FX Matrix

To replace a currency in the FX Matrix, for example "ZAR - South African rand" by "NOK - Norwegian krone":

-  Click the menu icon in the upper right corner of the "FX Matrix" widget.
- Select "Settings" in the widget menu.
- In the "Settings" dialogue window that appears, select the "ZAR - South African Rand" entry in the "Selected*" box.
-  Now, click the "←" icon to move the currency from the "Selected*" box to the "Available" box, thus hiding this currency in the FX matrix.
- Now, use the filter in the "Available" box to find and select the "NOK - Norwegian Krone" entry.

6.  Click the "→" icon to add the selected "NOK – Norwegian Krone" to the "Selected*" box.

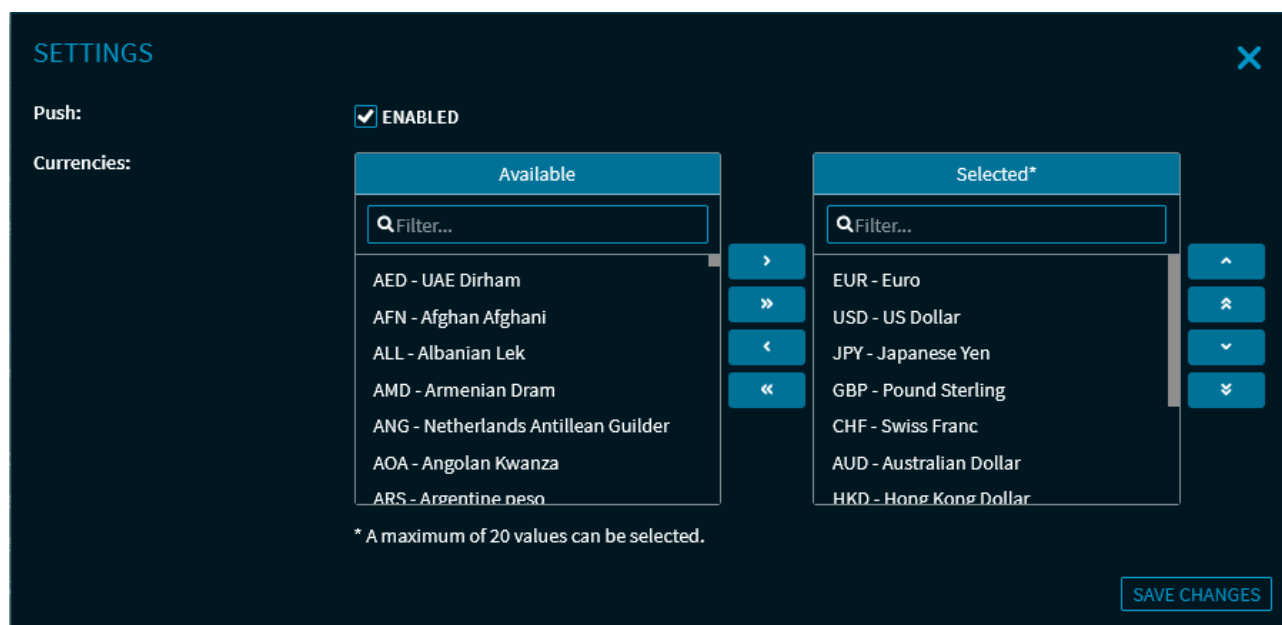


7. Click the "Save changes" button to save your selection.
The "Settings" dialogue window closes and the new currency is shown in the FX Matrix at the position selected.

5.31.3 Settings in the "FX Matrix" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.
Alternatively, you can use the "Settings" command in the widget menu.



Here, you can make the following settings:

- Enable or disable the push data feed
- Replace currencies in the FX Matrix
- Add new currencies

For more information about the widget settings, see [Commands in the widget menu](#).

For more information about showing and hiding currencies, see [Add currencies to FX Matrix](#).

5.32 Certificate Comparison

With the "Certificate Comparison" widget, you can compare up to 10 certificates. In addition to the master data, you can also find a risk and performance comparison as well as a graphical chart analysis of the certificates.

FUND COMPARISON		
<div> <div>MASTER DATA</div> <div>ADD ANOTHER FUND</div> </div>		
<div> <div>UNIGLOBAL</div> <div>DEKASTRK: ERTRAGPLUS</div> </div>		
ISIN	DE0008491051	LU0098472433
WKN	849105	989578
Issue price / Redemption price	341.84 / 325.56	37.56 / 36.82
Issuer	Union Investment Privatfonds GmbH	Deka International S.A.
Asset allocation	Equity Fund	Guarantee Fund
EFCF Category	Equity Global	Structured fund with capital protection
Country	Germany	Luxembourg
Admittance	DE, AT, LU, CH, IT	DE, LU
UCITS / AIF	UCITS	AIFM
Currency	Euro	Euro
Benchmark	MSCI WORLD NR USD	MSCI WORLD NR USD

First, use the two drop-down lists above to select the certificates that you want to compare. Alternatively, drag the certificates from other widgets. Open the securities search:

CERTIFICATE COMPARISON		
<div> <div>MASTER DATA</div> <div>ADD ANOTHER CERTIFICATE</div> </div>		
<div> <div>DZ BANK ITV. 22/23DAX</div> <div></div> </div>		
ISIN	DE000DV5P8A5	Q DZ Bank
WKN	DV5P8A	DZ ZINSFIX EXPRESS STEPDOWN... CERTIFICATE DZ8T45
Last price	99.44	DZ EXTRACHANCE ST 03 22/... CERTIFICATE DZ8T80
Net change percent	±0.00%	DZ MEMORY EXPR STEPDOWN... CERTIFICATE DZ8T52
Issuer	DZ BANK	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T54
Certificate group	Indexed Bond	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T55
Certificate type	Index Bond Classic	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T56
Currency	Euro	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T59
Maturity	24 Mar 2023	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T61
Issue date	18 Mar 2022	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T62
First trading day	25 Mar 2022	DZ MEMORY EXPRESS STEPDOWN... CERTIFICATE DZ8T63
Last trading day	16 Mar 2023	
Payment date	24 Mar 2023	
Underlying	DAX PERFORMANCE-INDEX	
Underlying category	Index	
Underlying country	Germany	

In the search menu, you can also jump directly to the general search via the "More search results" button.

Use the "Add another certificate" button to show up to 10 certificates.

ADD ANOTHER CERTIFICATE

With the drop-down lists, you can replace the selected certificate. With the "Remove" icons next to the drop-down lists, you remove the corresponding certificate.

In addition to the drop-down lists for certificates, you can select the relevant trading venue with currency for the certificate comparison for each certificate by using the associated trading venue drop-down list.

DZ BANK ITV. 22/23DAX	UBS DAX ZT 23/24	GOLDM.S.BK BONUSZ23 DAX	LANG+SCHWARZ O.E. INDEX
DE000DV5P8A5	DE000UBS95Y3	DE000GX3H450	DE000LS9ABX5
DV5P8A	UBS95Y	GX3H45	LS9ABX
99.44	99.83	152.95	92.57
±0.00%	+0.14%	+0.47%	+0.26%
DZ BANK	UBS	Goldman Sachs	Lang & Schwarz
Indexed Bond	Express	Bonus	Index
Index Bond Classic	Express Relax	Bonus Classic	Index Classic
Euro	Euro	Euro	Euro
24 Mar 2023	23 Sep 2024	21 Jun 2023	Open end

For each certificate in the widget, the familiar menu is available in the header that you can use to quickly open the certificate in another widget or also print it.

ADD ANOTHER FUND

UNIGLOBAL

DE0008491051

849105



You can copy the chart to the clipboard using the "Copy chart to clipboard" icon.



The "Certificate Comparison" widget allows you to drag instruments from other widgets such as the "Top Derivatives and New Issues" and compare them by turnover, for example.

See also:

- [Certificate Comparison – Master data](#)
- [Certificate Comparison – Chart](#)
- [Certificate Comparison - Risk](#)
- [Settings in the "Compare Certificates" widget](#)

5.32.1 Certificate Comparison – Master data

CERTIFICATE COMPARISON				
MASTER DATA				
ADD ANOTHER CERTIFICATE				
	DZ BANK ITV. 22/23DAX	UBS DAX ZT 23/24	GOLDM.S.BK.BONUSZ23 DAX	LANG+SCHWARZ O.E. INDEX
ISIN	DE000DV5P8A5	DE000UBS95Y3	DE000GX3H450	DE000LS9ABX5
WKN	DV5P8A	UBS95Y	GX3H45	LS9ABX
Last price	99.44	99.83	152.95	92.57
Net change percent	±0.00%	+0.14%	+0.47%	+0.26%
Issuer	DZ BANK	UBS	Goldman Sachs	Lang & Schwarz
Certificate group	Indexed Bond	Express	Bonus	Index
Certificate type	Index Bond Classic	Express Relax	Bonus Classic	Index Classic
Currency	Euro	Euro	Euro	Euro
Maturity	24 Mar 2023	23 Sep 2024	21 Jun 2023	Open end
Issue date	18 Mar 2022	20 Mar 2023	12 Nov 2021	12 Sep 2012
First trading day	25 Mar 2022	20 Mar 2023	12 Nov 2021	12 Sep 2012
Last trading day	16 Mar 2023	12 Sep 2024	15 Jun 2023	Open end
Payment date	24 Mar 2023	23 Sep 2024	21 Jun 2023	Open end
Underlying	DAX PERFORMANCE-INDEX	DAX PERFORMANCE-INDEX	DAX PERFORMANCE-INDEX	—
Underlying category	Index	Index	Index	—
Underlying country	Germany	Germany	Germany	—
Quanto	No	No	No	No
Capital guarantee	—	—	—	—
Interest rate	2.00%	4.60%	—	—
Strike price	9,192.87	14,735.30	—	—
Cap	—	—	—	—
Barrier	—	7,367.63	14,200.00	—
Bonus level	—	—	40,400.00	—
Subscription ratio	5439:500	3393:500000	1:100	1:1

The "Master data" view allows you to compare the certificates using the following criteria:

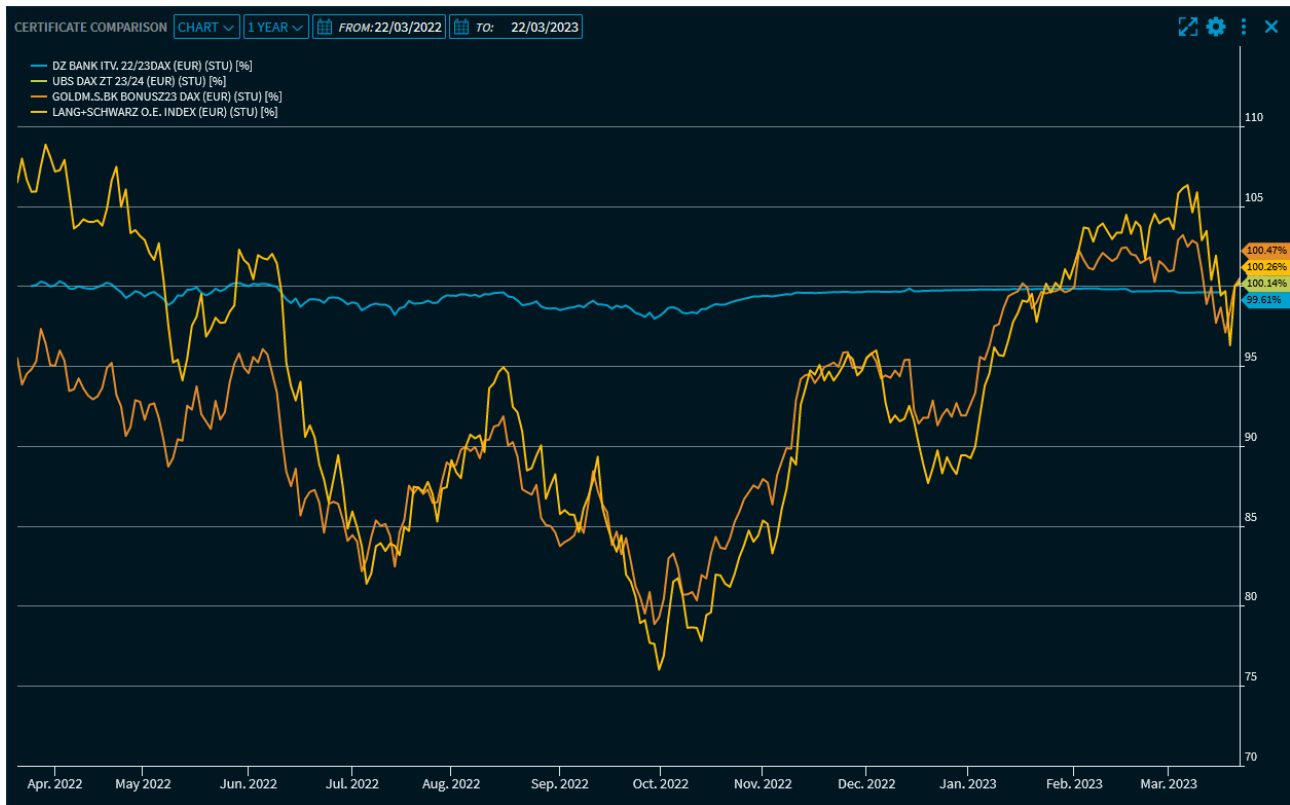
- ISIN
- WKN
- Last price
- Change in percent
- Issuer
- Certificate group (for example, "Discount" or "Express")
- Certificate type (for example, "Discount Classic" or "Express Reverse")
- Currency
- Maturity date
- Issue date
- First trading day
- Last trading day
- Payment date
- Underlying
- Underlying category
- Underlying country
- Quanto
- Capital guarantee
- Interest rate
- Strike price
- Cap
- Barrier
- Bonus level
- Subscription ratio



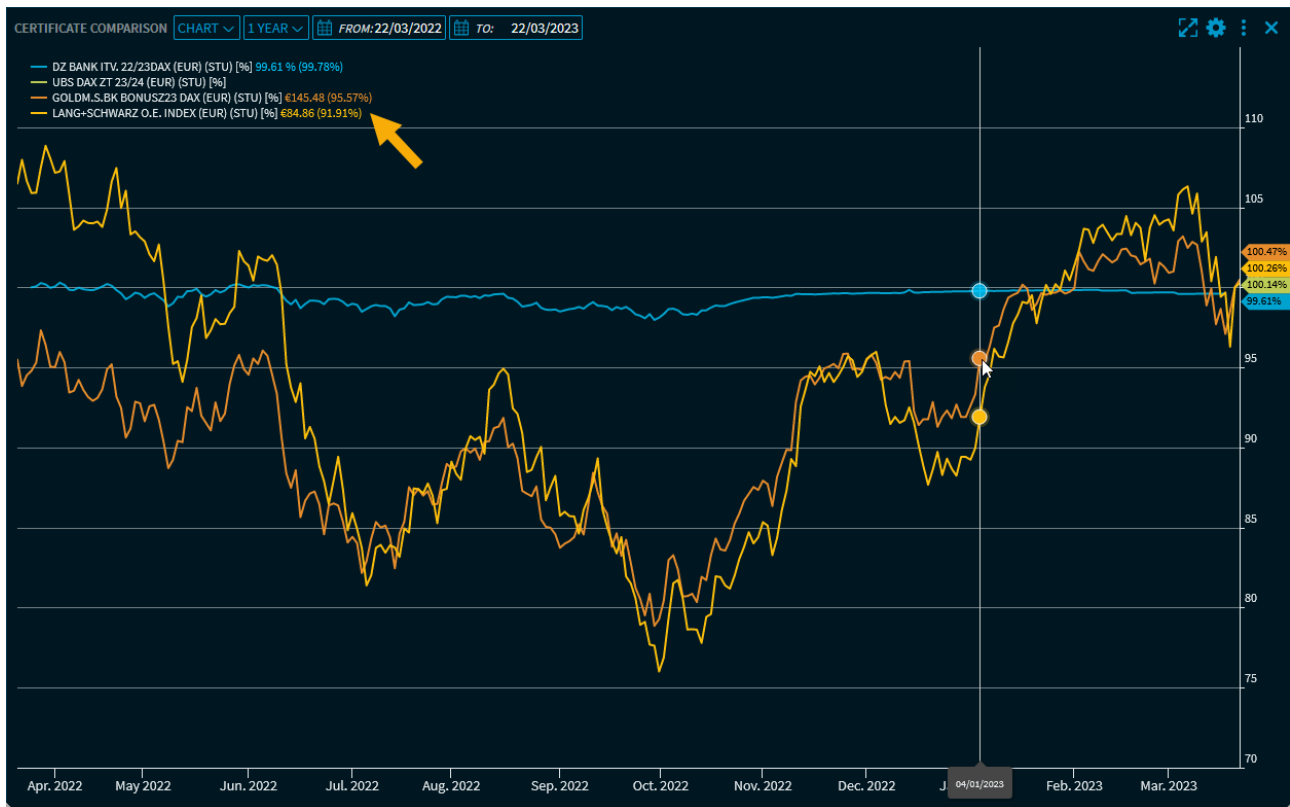
For more information about the characteristics of certificates, see [Full Quote - certificate](#).

5.32.2 Certificate Comparison – Chart

In the drop-down list at the top, select the "Chart" view to display the certificates as time series in a chart:



"1 year" is set by default, showing the performance of the certificates over the last 12 months. The 100 line corresponds to the level one year ago.



Point to the time series to show the price information for a particular date. Depending on the current settings of the widget, these are then displayed on the chart lines as a tooltip or, as here, in the legend.

The second drop-down list at the top allows you to change the period of the chart. The following periods are available:

- 3 days
- 1 week
- 1 month
- 6 months
- Year to date
- 1 year
- 3 years
- 5 years
- 10 years
- Max. (all available data since the oldest certificate issued)

In addition, you can set a custom time period using the integrated calendars in the "Date from:" and "Date to:" input fields.



Click a security name in the legend to show or hide its time series.

By using the widget's menu icon, you can export the charts in the "Certificate Comparison" widget to various file formats. For more information about working with charts, see [Chart](#).

5.32.3 Certificate Comparison - Risk

In the drop-down list at the top, select the "Risk & Performance" view to display the most important performance and risk key indicators for the certificates selected.

CERTIFICATE COMPARISON RISK & PERFORMANCE ADD ANOTHER CERTIFICATE				
	DZ BANK ITV. 22/23DAX	UBS DAX ZT 23/24	GOLDM.S.BK BONUS223 DAX	LANG+SCHWARZ O.E. INDEX
1-week performance	+0.01%	–	+0.07%	-0.38%
1-month performance	-0.20%	–	-1.41%	-3.58%
6-month performance	-1.54%	–	+18.72%	+22.03%
YTD performance	-0.14%	–	+8.81%	+11.85%
1-year performance	–	–	+6.37%	-6.01%
3-year performance	–	–	–	+47.99%
Total performance	-0.36%	–	-43.83%	+25.91%
90-day volatility	0.40%	–	14.94%	21.03%
1-year volatility	–	–	18.56%	23.15%
3-year volatility	–	–	–	24.13%
EDG rating	–/5	–/5	–/5	–/5
EDG rating date	–	–	–	–
VaR (10 days, 99%, EUR 10.000)	–	–	–	–

The key indicators in detail:

- 1-week performance
- 1-month performance
- 6-month performance
- Performance YTD
- 1-year performance
- 3-year performance
- Total performance
- 90-day volatility
- 1-year volatility
- 3-year volatility
- EDG rating
- EDG rating date
- VaR (10 days, 99%, EUR 10.000)

5.32.4 Settings in the "Compare Certificates" widget



If you have opened the **"Chart" view** in the "Certificates Comparison" widget, you can open the "Settings" dialogue window via the then visible "Widget settings" icon at the top right of the widget.

SETTINGS

Chart line and ordinate

Periods

CHART LINE AND ORDINATE SETTINGS

Ordinate outside chart:

Legend:

Show quote information:

Show last values:

Highlight chart-lines:

☒ ENABLED

☒ ENABLED

☒ IN LEGEND
☐ IN TOOLTIP

☒ ENABLED

☐ ENABLED

SAVE

Configure your chart in the "Certificate Comparison" widget here. The various setting options are clearly grouped into areas, which you can select on the left side:

- Chart line and ordinate
- Period

Chart line and ordinate

You can make the following settings for the chart graph and ordinate:

Field	Description
Ordinate outside chart	By default, the ordinates are displayed outside the chart. Clear this checkbox to display the y-axis values outside of the chart.
Legend	Clear this checkbox to hide the legend shown by default on the upper left side of the chart.
Show prices	By default, the price is displayed when pointing to the chart lines to the right of the respective legend entries. Select the "In tooltip" checkbox to display the prices directly at the mouse pointer as tooltip.
Show last values	Clear this checkbox to turn off the default display of current prices on the right side of the chart.

Field	Description
Highlight chart line	<p>Select this checkbox to switch on the "highlighting" of the chart lines (when pointing to the lines in the chart or in the legend).</p> <p>This setting is disabled by default.</p>

Period

In this section of the settings, you can define individual, custom display periods for your charts. To do this, follow these steps:

1. On the left side of the "Settings" dialogue window, select the "Periods" area.
2. Click the "Add period" button.
3. Enter the relevant name for the first custom period in the "Name" input field.
4. Then click the "Settings" button for this period.
5. Configure the new time period. The table below contains descriptions of the individual setting options.
6. Then click the "Save" button. (Use the "Back" button to exit the settings for the period without saving any changes you may have made).
7. If you want to add further columns, then select the "Add period" button in the "Periods" area and proceed in the same way.

You can delete your own time periods by clicking the respective "Delete" buttons.

The settings of the custom time periods in detail:

General	
Field	Description
Name	<p>Enter the relevant name for the period here.</p> <p>You can freely define the name of a period - or leave it blank for the time being and use the automatic name generation. The name of the column is then automatically generated by the system according to the time periods you set. The name of the period can be changed later.</p>
Automatic naming	<p>Select this setting to automatically generate the name of the period. The name is generate depending on the time periods and start and end times set below.</p>
Selected period	<p>Here, you can see the always updated period resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	

Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year
Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>
Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>

Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div style="background-color: #cccccc; padding: 5px;">Example</div> <div style="border: 1px solid #ccc; padding: 10px;"> <p>In August 2021, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2021".</p> </div>
---	---

The defined and saved time periods are then available for selection in the widget in the drop-down list of time periods. The user-defined periods are added at the bottom of the drop-down list.

5.33 Free Text

The "Free Text" widget allows you to place one (or more) widget(s) with freely defined text on your dashboard.

To edit the text in the widget:

1. Go to the "Free Text" widget or open it via the Widget Gallery.
2. Open the widget menu by using the widget menu in the upper right corner and click the "Settings" icon in the "Utilities" section.
3. Enter the corresponding widget title in the "Settings" dialogue window and the text to be displayed in the "Content" area.



Here, you can also paste text from the Clipboard, by using the key combination <CTRL>+<V>.

By using the icons above the text field, you can format the text as familiar from word processors: For more information, see [Settings in the "Free Text" widget](#).

4. Finish the text input with the "Save changes" button.
The widget now displays title and content.

IMPORTANT NOTES

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut cursus justo. Nam dictum consectetur sagittis. Nam malesuada orci at libero lobortis molestie. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Mauris turpis dolor, maximus sed sollicitudin ut, mattis non tortor. Curabitur accumsan condimentum sodales. Phasellus porttitor sodales consectetur. Donec quis ante vel ante condimentum faucibus. Etiam placerat magna a malesuada luctus. Suspendisse tempor mauris a elementum sodales. Praesent accumsan ac mauris vitae pharetra.
2. Vivamus vel dui pellentesque quam vulputate maximus. Mauris enim urna, bibendum eget dapibus id, feugiat eget nunc. Integer non nisi vehicula, fermentum dui eget, tristique nibh. Cras eget aliquam mauris. Sed scelerisque arcu nisl, in sollicitudin mauris imperdiet vitae.
3. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam id eleifend lacus. In vitae lorem fermentum, vehicula lacus ornare, fringilla urna. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia curae; Nam laoreet ornare sem ullamcorper cursus.
4. Vestibulum finibus felis nec lorem tincidunt dignissim. Praesent dapibus at ante non gravida. Sed et laoreet orci, a maximus mi.

In case of longer titles, point to the info window with the full title.

See also:

- [Settings in the "Free Text" widget](#)

5.33.1 Settings in the "Free Text" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

TITLE:

CONTENT:

Normal **B** *I* U

Type text here...

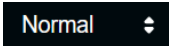










SAVE CHANGES








Enter the corresponding widget title in the "Settings" dialogue window and the text to be displayed in the "Content" area.



Here, you can also paste text from the Clipboard, by using the key combination <CTRL>+<V>.

By using the icons above the text field, you can format the text as follows:

Icon/function	Description
Text format 	<p>Select the text format in the upper left of the toolbar. Use these to structure texts cleanly. The following variants are available:</p> <ul style="list-style-type: none"> • Normal (default setting) • Heading 1 • Heading 2 • Heading 3 • Heading 4 • Heading 5 • Heading 6
	Make the text currently selected bold.
	Italicise the text currently selected.
	Underline the text currently selected.
	Cross the text out currently selected.
	Format the currently selected paragraph as blockquote.
	Format the currently selected paragraph as codeblock.
	Format the currently selected text as subscript.
	Format the currently selected text as superscript.
	Create a hyperlink.
	Format the currently selected paragraph as numbered list.

Icon/function	Description
	Format the currently selected text as bulleted list.
	Increase the indent, that is, move the currently selected paragraph closer to the margin.
	Decrease the indent, that is, move the currently selected paragraph further away from the margin.
	Change the text alignment for the paragraph currently selected. The following formats are available: <ul style="list-style-type: none"> • Left-aligned (default setting) • Centered • Right-aligned • Justified
	Change the font colour for the text currently selected.
	Change the background colour for the text currently selected.
	Clear the format of the text currently selected.

After entering your text, click the "Save changes" button.

For more information about the widget settings, see [Commands in the widget menu](#).

5.34 Trading Quote

The "Trading Quote" widget offers a compact overview of the current performance and shows the bid and ask prices including the volume for a security at a trading venue.

At the top of the widget, select the security and corresponding trading venue. You can also drag instruments from other widgets.

TRADING QUOTE  3M CO. DL-,01 XETRA (EUR) ▾				   	
O: 96.94 H: 96.94 L: 96.12 V: 1.84 k					
BID		LAST		ASK	
35	96.70	 96.87		96.90	150
26	96.65	 2		96.99	81
104	96.50	+0.87 +0.91%	12:45:10	97.00	230
Real time Update: 2 May 2023, 12:45:10					

The following data is available in the Trading Quote:

- Security name
- Trading venue
- Currency
- Open ("O")
- Daily high ("H")
- Daily low ("L")
- Volume ("V")
- 3 highest bid values (including the respective quantity)
- 3 lowest ask values (including the respective quantity)
- Last price
- Arrow for the current price development
- Last traded quantity
- Absolute and percentage price performance compared to the previous day
- Price time

See also:

- [Settings in the "Trading Quote" widget](#)

5.34.1 Settings in the "Trading Quote" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

Here, you can make the following settings:

- Enable or disable the push data feed

For more information about working with widgets, see [Commands in the widget menu](#).

5.35 Cap Floor Calculator

With the Cap Floor Calculator, you can calculate interest caps and interest floors for derivatives. Interest caps and interest floors are interest derivatives with an optional character. For an interest cap, the buyer receives a payment at the end of each period in which the interest rate exceeds the agreed strike price. For an interest floor, the buyer receives a payment at the end of each period in which the interest rate is below the agreed strike price.

CAP FLOOR CALCULATOR

GENERAL CONTRACT DATA

Issue date

2/23/23

Strike

2.00

Option model

BACHELIER

Volatility in bp

36.00

Cap floor Type

CAP

FIXED

Nominal value

1,000,000.00

Currency

EURO

Value date

2/22/23

Term to

2/22/33

Payment frequency

ANNUALLY

Day count convention

ISMA ACT/ACT

FLOATING

Nominal value

1,000,000.00

Currency

EUR

Value date

2/22/23

Term to

2/22/33

Payment frequency

Anually

Day count convention

ISMA ACT/ACT

Valuations

Premium amount

96,009.16600767 EUR

5.35.1 "General Contract Data" area

Element	Description
Issue date	Use the integrated calendar to select the issue date.
Strike price	Enter the strike price.
Option model	Select the option model for the calculation. The following models are available: <ul style="list-style-type: none"> Bachelier (default setting) Black 76
Volatility in BP	Enter the volatility in basis points.
Cap floor type	Select the type for the calculation, that is, cap or floor.

5.35.2 "Fixed" area

Element	Description
Nominal value	Enter the (fixed) nominal value for the calculation. The nominal value for "Fixed" and "Floating" remains unchanged.
Currency	Select the (fixed) currency for the calculation. The currency for "Fixed" and "Floating" remains unchanged.
Value/ Term from	Use the integrated calendar to specify the start date of the calculation. The current date is set by default.
Term to	Use the integrated calendar to specify the end date of the calculation. The default setting is the current date plus 10 years.
Payment frequency	Select the payment frequency for the fixed interest payment. The following periods are available: <ul style="list-style-type: none"> • Monthly • Quarterly • 4-monthly • Yearly (default setting)
Day count convention	Select the day count convention for the fixed interest payment. The following periods are available for the day count convention: <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/360 • act/act (ISMA) (default) • ISMA 30E/360

5.35.3 "Floating" area

Element	Description
Nominal amount	The nominal amount value of the calculation.
Currency	The currency of the calculation. The currency for "Fixed" and "Floating" remains unchanged.
Value date	The value date determined from the start date. The current date is set by default.

Element	Description
Term to	The end date selected in the "Fixed" area of the calculation. The default setting is the current date plus 10 years.
Payment frequency	The payment frequency selected in the "Fixed" area.
Day count convention	The day count convention selected in the "Fixed" area.

5.35.4 "Valuation" area

Element	Description
Premium amount	The resulting amount of the premium. The value is immediately calculated after you change the parameter.

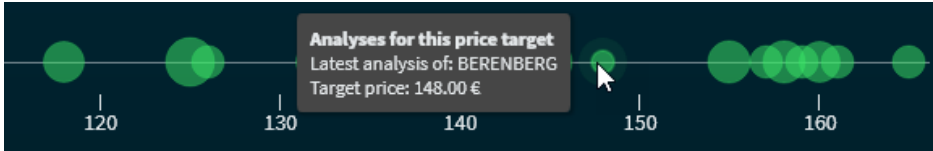
5.36 Analyst Recommendations

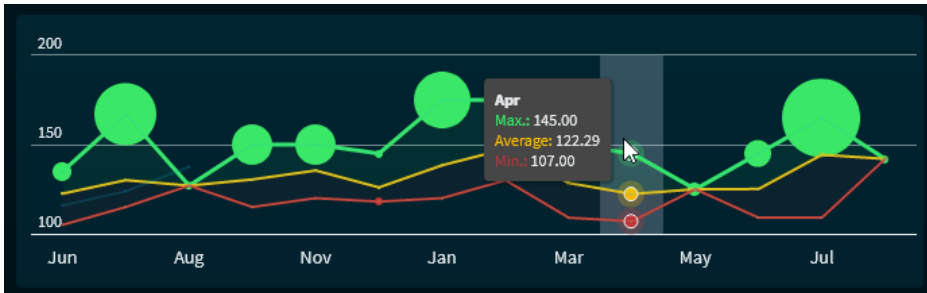
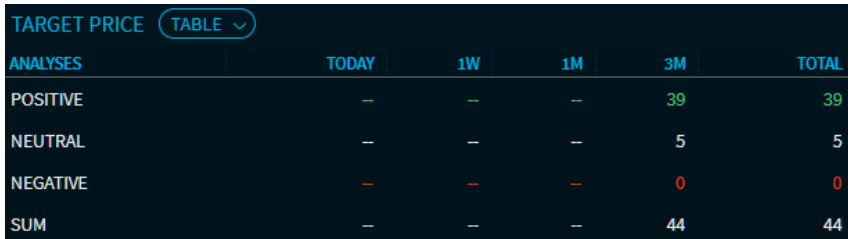
The "Analyst Recommendations" widget shows the current company analyses for a company (that is, its shares).



In the upper left corner, you can select the share. Alternatively, drag and drop a share from a different widget.

In the default view, the following functions and data are available in the "Analyst Recommendations" widget:

Element	Description
Select security	Use the security selection in the upper left corner to search and select a share.
"Analyses" graphic	<p>The graphic on the left visualises all currently filtered analyses as follows:</p> <p>At the top, you see values of the analysis: "Negative" (red), "Neutral" (yellow) or "Positive" (green). You see the number of the corresponding assessments. The arrow shows the average value.</p> <p>Below, you see the target prices from the recommendations. The colour indicates whether the recommendations are positive, neutral or negative. Point to a dot to see the exact target price, the number of recommendations with this target price and the name of the current analyst.</p>  <p>The total number of assessments is shown in the graphic ("33 analyses in the screenshot).</p> <p>Use the drop-down list above the graphic to set the period for the analyses in the graphic. Choose between the following options:</p> <ul style="list-style-type: none"> • Today • 1 week • 1 month • 3 months

Element	Description
"Target price" graphic	<p>The second graphic (on the right side of the widget) provides more details on the target prices from the analyses.</p> <p>Chart lines are drawn for the maximum, average and minimum monthly values based on the target prices of the recommendations. In addition, the current price of the security is shown. Point to the chart to show the exact values for the month.</p>  <p>Use the drop-down list above the graphic to switch to the alternative table view. Choose between the following options:</p> <ul style="list-style-type: none"> • Chart (default setting) • Table <p>In the table view, the analyses are shown for the following periods:</p> <ul style="list-style-type: none"> • Today • 1 week • 1 month • 3 months 
"Period" drop-down list for lists of the analyses	<p>Below the graphics, the individual analyses are listed. You can filter this list by period. To do this, choose between the following values in the period drop-down list:</p> <ul style="list-style-type: none"> • Today • 1 week • 1 month • 3 months • All periods (default)


Element	Description
"Assessments" drop-down list for lists of the analyses	Filter the list of analyses by assessment. To do this, choose between the following values in the assessment drop-down list: <ul style="list-style-type: none"> • Positive • Neutral • Negative • All assessments (default setting)
"Analysts" drop-down list for lists of the analyses	Filter the list of analyses by analyst assessments. To do this, select the relevant analyst from the analyst drop-down list.
"Date" column	The date of the analyst's assessment. The table is sorted by this column by default, that is, the most recent analyses appear at the top of the table.
"Analyst" column	The name of the analysts.
"Judgement" column	The result of the analysis: "Negative" (red), "Neutral" (yellow) or "Positive" (green).
"Target price" column	The target price from the recommendation.
"Period" column	The period for the target price determined from the recommendation.
"Distance" column	The percentage distance of the price to the corresponding target price from the recommendation.


5.36.1 Single recommendations

Click a table row to open the corresponding recommendation and view all details in the widget.






The following functions and data are available in the "Analyst Recommendations" widget:

Element	Description
Select security	Use the security selection in the upper left corner to search and select another share. Thus, you leave the individual view and return to the default view for the new share.
Source and recommendation	Below the security selection, you find further information about the financial analyst, analysis date as well as the assessment of the currently selected individual recommendation.
	Use the navigation arrows to go through the individual recommendations.
Current price	The current price of the security with price date.

Element	Description
Start price (time of analysis)	The analysis date including the corresponding price.
Price target (12 months)	The price target of 12 months after the analysis date.
Expected performance	The performance expected based on the performance.
Achieved performance	The performance at the current time since the price analysis time.
theScreener rating	The number of stars (1 to 5) from the theScreener rating including the rating date.
Graphic	In the graphic on the right side of the widget, you see a visualisation of the assessments and prices.
Recommendation text	In the lower part of the widget, you see the complete text of the recommendation.
	Click this icon to close the individual view in the widget and return to the standard view.

5.37 Broken Date Calculator

The Broken Date Calculator calculates forward rates for all common maturities. In addition to the forward rates (outright), the corresponding swaps and relative swaps (swaps %) are displayed. Bid and ask prices are available for all indicators.

BROKEN DATE CALCULATOR				EURO		US DOLLAR		OVERVIEW		  	
	BID		ASK		TIME						
USD/EUR	0.937559		0.937822		2/21/2023 4:08:11 PM						
USD/USD	1.000000		1.000000		—						
EUR/USD	1.066300		1.066600		2/21/2023 4:08:11 PM						
VAL.	DATE	DAYS	SWAP BID	SWAP ASK	SWAP % BID	SWAP % ASK	OUTR. BID	OUTR. ASK			
ON	2/22/2023	1	0.000064	0.000066	2.190622	2.258439	1.066364	1.066666			
TN	2/23/2023	2	0.000063	0.000064	1.083332	1.088159	1.066363	1.066664			
SN	2/24/2023	3	0.000063	0.000063	0.718798	0.722018	1.066363	1.066663			
1W	3/2/2023	9	0.000446	0.000450	1.695603	1.710323	1.066746	1.067050			
2W	3/9/2023	16	0.000896	0.000906	1.915299	1.936113	1.067196	1.067506			
3W	3/16/2023	23	0.001350	0.001360	2.006642	2.020919	1.067650	1.067960			
1M	3/23/2023	30	0.001793	0.001803	2.042409	2.053205	1.068093	1.068403			
2M	4/24/2023	62	0.003748	0.003768	2.062042	2.072426	1.070048	1.070368			
3M	5/23/2023	91	0.005511	0.005531	2.062356	2.069223	1.071811	1.072131			
4M	6/23/2023	122	0.007300	0.007340	2.034292	2.044792	1.073600	1.073940			
5M	7/24/2023	153	0.009100	0.009140	2.018705	2.026937	1.075400	1.075740			
6M	8/23/2023	183	0.010740	0.010800	1.988906	1.999349	1.077040	1.077400			
7M	9/25/2023	216	0.012520	0.012620	1.961076	1.976007	1.078820	1.079220			
8M	10/23/2023	244	0.014110	0.014210	1.953626	1.966744	1.080410	1.080810			
9M	11/23/2023	275	0.015810	0.015910	1.939191	1.950736	1.082110	1.082510			
10M	12/27/2023	309	0.017520	0.017620	1.909463	1.919654	1.083820	1.084220			
11M	1/23/2024	336	0.019710	0.019810	1.971544	1.980817	1.086010	1.086410			

Select the currencies from the first two drop-down lists.

The upper part of the widget displays the current exchange rates for the selected currencies including the exact exchange rate times. Forward points and rates are always calculated using US dollars as bridge currency.

Below, you will see the following columns in the "Overview" view:

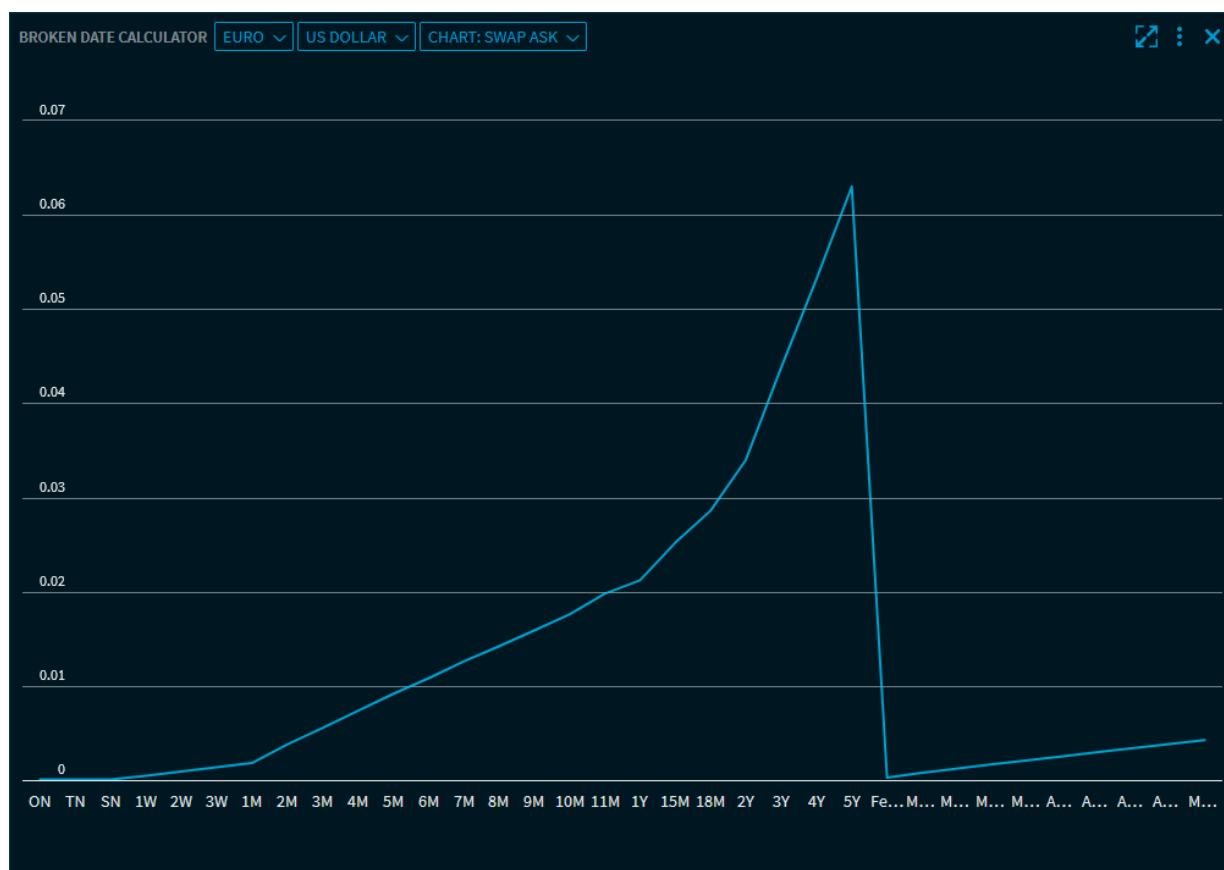
Column	Description
Val.	<p>The value date period, that is, the term of the forward transaction.</p> <p>The following applies: "ON" = Overnight, "TN" = Tomorrow Next, "SN" = Spot Next, "W" = Weeks, "M" = Months and "Y" = Years.</p>

Column	Description																																																																																										
Date	<p>The corresponding date.</p> <p>The lower 15 rows can be configured. Select the relevant date using the calendar integrated in the "Date" column.</p> <table><tr><td><input checked="" type="checkbox"/></td><td>2/27/23</td><td>6</td><td>0.000254</td><td>0.000257</td><td>1.452143</td><td>1.463995</td><td>1.066154</td><td>1.066457</td></tr><tr><td><input checked="" type="checkbox"/></td><td>3/7/23</td><td>14</td><td>0.000767</td><td>0.000775</td><td>1.874000</td><td>1.893705</td><td>1.066667</td><td>1.066975</td></tr><tr><td><input type="checkbox"/></td><td>3/14/23</td><td>21</td><td>0.001219</td><td>0.001229</td><td>1.985940</td><td>2.001646</td><td>1.067119</td><td>1.067429</td></tr><tr><td><input type="checkbox"/></td><td>3/21/23</td><td>28</td><td>0.001665</td><td>0.001675</td><td>2.033604</td><td>2.045221</td><td>1.067565</td><td>1.067875</td></tr><tr><td><input type="checkbox"/></td><td>3/28/23</td><td>35</td><td>0.002097</td><td>0.002109</td><td>2.047638</td><td>2.058328</td><td>1.067997</td><td>1.068309</td></tr><tr><td><input type="checkbox"/></td><td>4/4/23</td><td>42</td><td>0.002524</td><td>0.002538</td><td>2.053002</td><td>2.063580</td><td>1.068424</td><td>1.068738</td></tr><tr><td><input type="checkbox"/></td><td>4/11/23</td><td>49</td><td>0.002951</td><td>0.002967</td><td>2.056595</td><td>2.067091</td><td>1.068851</td><td>1.069167</td></tr><tr><td><input type="checkbox"/></td><td>4/18/23</td><td>56</td><td>0.003378</td><td>0.003396</td><td>2.059083</td><td>2.069515</td><td>1.069278</td><td>1.069596</td></tr><tr><td><input type="checkbox"/></td><td>4/25/23</td><td>63</td><td>0.003805</td><td>0.003825</td><td>2.060685</td><td>2.070898</td><td>1.069705</td><td>1.070025</td></tr><tr><td><input type="checkbox"/></td><td>5/2/23</td><td>70</td><td>0.004230</td><td>0.004250</td><td>2.060998</td><td>2.070124</td><td>1.070130</td><td>1.070450</td></tr></table> <p>The selected rows are marked in the "Val." column.</p>	<input checked="" type="checkbox"/>	2/27/23	6	0.000254	0.000257	1.452143	1.463995	1.066154	1.066457	<input checked="" type="checkbox"/>	3/7/23	14	0.000767	0.000775	1.874000	1.893705	1.066667	1.066975	<input type="checkbox"/>	3/14/23	21	0.001219	0.001229	1.985940	2.001646	1.067119	1.067429	<input type="checkbox"/>	3/21/23	28	0.001665	0.001675	2.033604	2.045221	1.067565	1.067875	<input type="checkbox"/>	3/28/23	35	0.002097	0.002109	2.047638	2.058328	1.067997	1.068309	<input type="checkbox"/>	4/4/23	42	0.002524	0.002538	2.053002	2.063580	1.068424	1.068738	<input type="checkbox"/>	4/11/23	49	0.002951	0.002967	2.056595	2.067091	1.068851	1.069167	<input type="checkbox"/>	4/18/23	56	0.003378	0.003396	2.059083	2.069515	1.069278	1.069596	<input type="checkbox"/>	4/25/23	63	0.003805	0.003825	2.060685	2.070898	1.069705	1.070025	<input type="checkbox"/>	5/2/23	70	0.004230	0.004250	2.060998	2.070124	1.070130	1.070450
<input checked="" type="checkbox"/>	2/27/23	6	0.000254	0.000257	1.452143	1.463995	1.066154	1.066457																																																																																			
<input checked="" type="checkbox"/>	3/7/23	14	0.000767	0.000775	1.874000	1.893705	1.066667	1.066975																																																																																			
<input type="checkbox"/>	3/14/23	21	0.001219	0.001229	1.985940	2.001646	1.067119	1.067429																																																																																			
<input type="checkbox"/>	3/21/23	28	0.001665	0.001675	2.033604	2.045221	1.067565	1.067875																																																																																			
<input type="checkbox"/>	3/28/23	35	0.002097	0.002109	2.047638	2.058328	1.067997	1.068309																																																																																			
<input type="checkbox"/>	4/4/23	42	0.002524	0.002538	2.053002	2.063580	1.068424	1.068738																																																																																			
<input type="checkbox"/>	4/11/23	49	0.002951	0.002967	2.056595	2.067091	1.068851	1.069167																																																																																			
<input type="checkbox"/>	4/18/23	56	0.003378	0.003396	2.059083	2.069515	1.069278	1.069596																																																																																			
<input type="checkbox"/>	4/25/23	63	0.003805	0.003825	2.060685	2.070898	1.069705	1.070025																																																																																			
<input type="checkbox"/>	5/2/23	70	0.004230	0.004250	2.060998	2.070124	1.070130	1.070450																																																																																			
Days	The exact number of days remaining until the value date for the selected currencies.																																																																																										
Swap Bid	The bid price of the swap at this value date for the selected currencies.																																																																																										
Swap Ask	The ask price of the swap at this value date for the selected currencies.																																																																																										
Swap % Bid	The bid price of the swap in percent at this value date for the selected currencies.																																																																																										
Swap % Ask	The ask price of the swap in percent at this value date for the selected currencies.																																																																																										
Outright Bid	The bid price of the outright at this value date for the selected currencies.																																																																																										
Outright Ask	The ask price of the outright at this value date for the selected currencies.																																																																																										

From the view drop-down list at the top, you can select the following views (analogous to the column) in the Broken Date Calculator:

- Overview (default view)
- Chart: Swap Bid
- Chart: Swap Ask
- Chart: Swap % Bid
- Chart: Swap % Ask
- Chart: Outright Bid
- Chart: Outright Ask

Example: "Chart" view: Swap Bid"



The bid rates of the swap are indicated on the y-axis, the corresponding periods on the x-axis. Point to the chart line to display the corresponding price.

See also:

- [Settings in the "Broken Date Calculator" widget](#)

5.37.1 Settings in the "Broken Date Calculator" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

Here, you can use the "Push" checkbox to enable or disable the push data feed.

For more information about the widget settings, see [Commands in the widget menu](#).

5.38 All Fields

In this widget, all data fields for a security are shown in one place.

ALL FIELDS
Apple
NASDAQ (USD)
Filter...

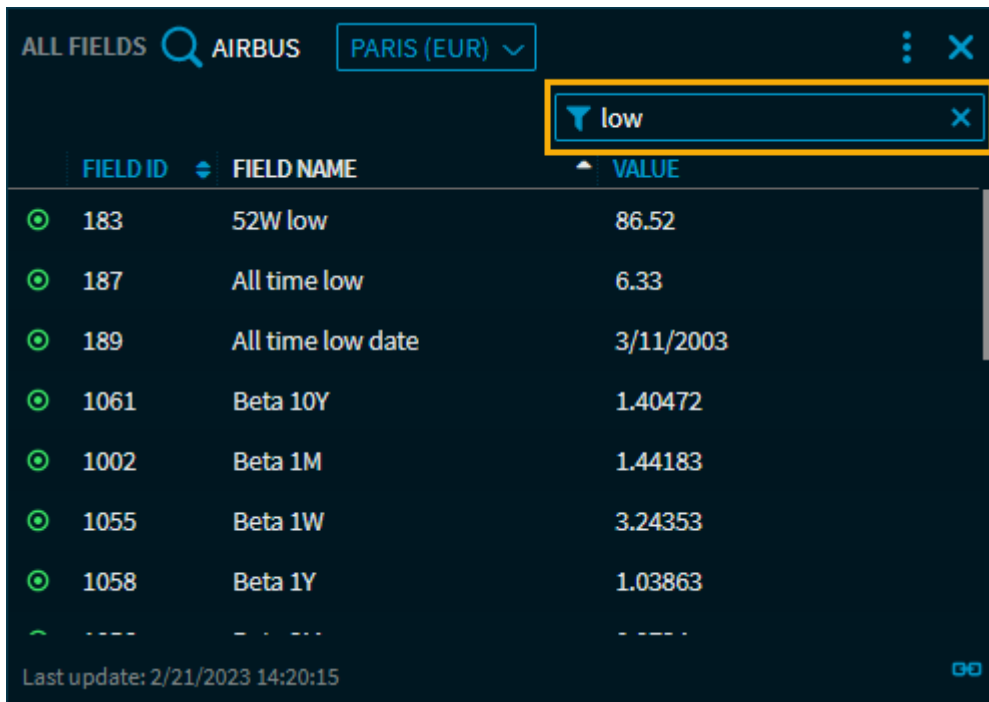
FIELD ID	FIELD NAME	VALUE
1571		1
182	52W high	179.61
183	52W low	124.17
454	Additional information	Common Shares
27	AGM date	23/02/2021
186	All time high	182.94
188	All time high date	04/01/2022
187	All time low	0.06475
189	All time low date	15/08/1985
1210	Alpha 10Y	0.221

Last update: 08/02/2023 10:09:26

The table contains the following columns:

Column	Description
Field ID	The unique field ID in the field list. The green symbol before the field ID shows that you have a permission for this field.
Field name	The unique field name. The list is sorted by this column by default.
Value	The value of this field for the security currently selected. Depending on the field type, these can be amounts, percentages or dates.

Click a column header to re-sort the table. Use the filter function to filter the comprehensive field list by your filter criteria:



FIELD ID	FIELD NAME	VALUE
183	52W low	86.52
187	All time low	6.33
189	All time low date	3/11/2003
1061	Beta 10Y	1.40472
1002	Beta 1M	1.44183
1055	Beta 1W	3.24353
1058	Beta 1Y	1.03863

Last update: 2/21/2023 14:20:15

When you enter a search term in the filter search field, you see results already when you start typing.

See also:

- [Add fields from the "All Fields" widgets to tables](#)
- [Settings in the "All Fields" widget](#)

5.38.1 Add fields from the "All Fields" widgets to tables

You can drag the fields listed in the "All Fields" widget to [Watchlists](#), [Portfolios](#) or the ["Index Members"](#) widget and thus add them as new columns.

Important notes:

- The new column created this way is displayed on the far right in the "Overview" view of the target widget table.
- The column header corresponds to the name of the field.
- For each item, the value of the field is displayed in the column. If no value is available for this field, then "-" is displayed.
- In the settings of the watchlist, portfolio or the "Index Members" widget, the new column also appears at the end of the list of available columns and can be displayed or hidden here as usual.
- In the settings, you can remove these columns completely from the widget and thus from the watchlists ("Delete" icon).

Example: Drag the "Year's high" field to the watchlist

1. In your dashboard, open an "All Fields" widget and a "Watchlist" widget in the "Overview" view.

- In the "All Fields" widget, scroll to the "Year High" field or filter the list of fields by the term "Year's high".

FIELD ID	FIELD NAME	VALUE
133	Year's high	126.04
132	Year's high date	2/20/2023

Last update: 2/21/2023 14:22:40

- Drag the "Year's high" field from the "All Fields" widget to the "Watchlist" widget.

NAME (SHORT)	TIME	LAST PRICE	NET CHANGE	%	ISIN
APPLE INC.	2:23:34 PM	141.14	-1.50	-1.05%	US0378331005
NESTLE NAM. SF,10	—	0.00	±0.00	±0.00%	CH0038863350
SARTORIUS AG VZO O.N.	2:23:29 PM	419.70	-9.50	-2.21%	DE0007165631
MUENCH.RUECKVERS.VNA O.N.	2:22:57 PM	126.04	-2.70	-0.82%	DE0008430026
SAP SE O.N.	2:22:03 PM	107.98	-1.30	-1.19%	DE0007164600
SIEMENS AG NA O.N.	2:23:23 PM	144.52	-0.14	-0.10%	DE0007236101
FRESEN.MED.CARE KGAA O.N.	2:23:28 PM	37.60	-0.22	-0.58%	DE0005785802
AAREAL BANK AG	1:57:54 PM	33.00	±0.00	±0.00%	DE0005408116
PORSCHE AUTOM.HLDG VZO	2:22:09 PM	55.00	-0.56	-1.01%	DE000PAH0038
VARTA AG O.N.	2:22:22 PM	29.00	±0.00	±0.00%	DE000A0TGJ55

Add column

This adds the field as a new column.

	NAME (SHORT)	TIME	LAST PRICE	NET CHANGE	%	ISIN	YEAR'S HIGH
<input type="checkbox"/> N	APPLE INC.	2:23:34 PM	141.14	-1.50	-1.05%	US0378331005	145.58
<input type="checkbox"/> N	NESTLE NAM. SF,10	–	0.00	±0.00	±0.00%	CH0038863350	0.00
<input type="checkbox"/> N	SARTORIUS AG VZO O.N.	2:24:19 PM	419.70	-9.50	-2.21%	DE0007165631	471.70
<input type="checkbox"/> N	MUENCH.RUECKVERS.VNA O.N.	2:23:59 PM	327.70	-2.80	-0.85%	DE0008430026	336.00
<input type="checkbox"/> N	SAP SE O.N.	2:24:25 PM	107.96	-1.32	-1.21%	DE0007164600	112.74
<input type="checkbox"/> N	SIEMENS AG NA O.N.	2:24:32 PM	144.52	-0.14	-0.10%	DE0007236101	152.20
<input type="checkbox"/> N	FRESEN.MED.CARE KGAA O.N.	2:23:28 PM	37.60	-0.22	-0.58%	DE0005785802	38.07
<input type="checkbox"/> N	AAREAL BANK AG	1:57:54 PM	33.00	±0.00	±0.00%	DE0005408116	33.12
<input type="checkbox"/> N	PORSCHE AUTOM.HLDG VZO	2:24:05 PM	55.04	-0.52	-0.94%	DE000PAH0038	58.50
<input type="checkbox"/> N	VARTA AG O.N.	2:24:00 PM	29.07	+0.07	+0.24%	DE000A0TGJ55	30.13

In the watchlist settings, the new column also appears at the end of the list of available columns and can be shown or hidden.

5.38.2 Settings in the "All Fields" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

Here, you can use the "Push" checkbox to enable or disable the push data feed. If the push is enabled in this widget, then the values are continuously updated in the "Value" column.

If you want to hide fields without values, then enable the "Do not show empty values" checkbox.

For more information about the widget settings, see [Commands in the widget menu](#).

5.39 News

Infront Investment Manager provides you with current news.

The "Company News" widget can show you all relevant news for a security. In addition to shares, indices, currencies, funds, ETFs and commodities are also supported here, for example.

Use the "News Search" widget to create individual news filters to show news filtered by your search terms, securities, topics and so on.




You can open news and news widgets in many different ways in Infront Investment Manager. For example, there is a "News" icon in portfolios and watchlists allowing you to directly open the news for this security.

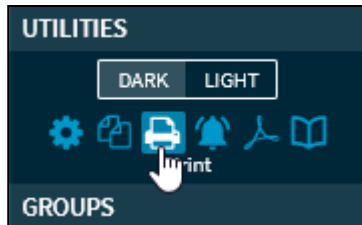
See also:

- ["News Search" widget](#)
- [Printing news](#)
- ["Company News" widget](#)

5.39.1 Printing news

You can print the news open in the "Company News" or "News Search" widget. To do this, follow these steps:

1.  Open the context menu the menu icon of the widget.
2. Click the "Print" icon in the "Utilities" area of the menu.

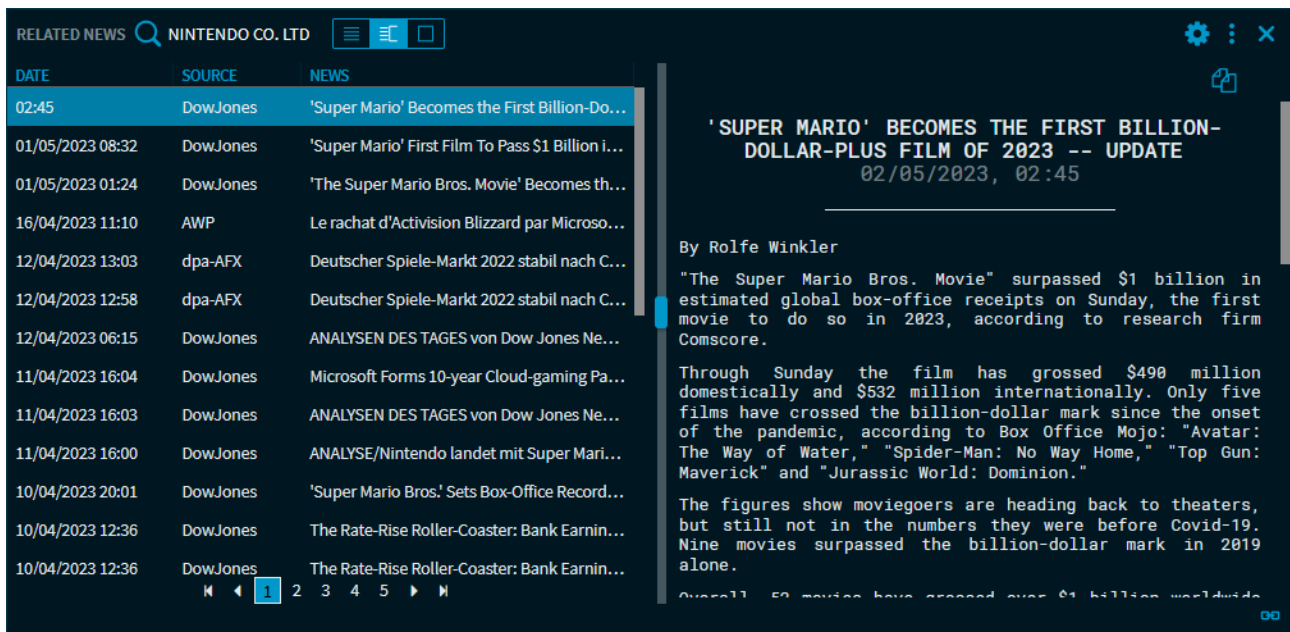


3. Make your print settings and start printing.
The heading and message text are printed.

5.39.2 "Company News" widget

The "Company News" widget shows all news for a security. In the upper left corner of the widget, you can select or search the relevant security. A list with news related to the security appears. For each message, the columns "Date", "Source" and "News" are displayed by default. You can move these columns by using drag and drop or show and hide them by using the widget [settings](#).

The most recent news are shown at the top of the list. Select a news headline to open the news text.



DATE	SOURCE	NEWS
02:45	DowJones	'Super Mario' Becomes the First Billion-Do...
01/05/2023 08:32	DowJones	'Super Mario' First Film To Pass \$1 Billion i...
01/05/2023 01:24	DowJones	'The Super Mario Bros. Movie' Becomes th...
16/04/2023 11:10	AWP	Le rachat d'Activision Blizzard par Microso...
12/04/2023 13:03	dpa-AFX	Deutscher Spiele-Markt 2022 stabil nach C...
12/04/2023 12:58	dpa-AFX	Deutscher Spiele-Markt 2022 stabil nach C...
12/04/2023 06:15	DowJones	ANALYSEN DES TAGES von Dow Jones Ne...
11/04/2023 16:04	DowJones	Microsoft Forms 10-year Cloud-gaming Pa...
11/04/2023 16:03	DowJones	ANALYSEN DES TAGES von Dow Jones Ne...
11/04/2023 16:00	DowJones	ANALYSE/Nintendo landet mit Super Mari...
10/04/2023 20:01	DowJones	'Super Mario Bros.' Sets Box-Office Record...
10/04/2023 12:36	DowJones	The Rate-Rise Roller-Coaster: Bank Earnin...
10/04/2023 12:36	DowJones	The Rate-Rise Roller-Coaster: Bank Earnin...

'SUPER MARIO' BECOMES THE FIRST BILLION-DOLLAR-PLUS FILM OF 2023 -- UPDATE
02/05/2023, 02:45

By Rolfe Winkler

"The Super Mario Bros. Movie" surpassed \$1 billion in estimated global box-office receipts on Sunday, the first movie to do so in 2023, according to research firm Comscore.

Through Sunday the film has grossed \$498 million domestically and \$532 million internationally. Only five films have crossed the billion-dollar mark since the onset of the pandemic, according to Box Office Mojo: "Avatar: The Way of Water," "Spider-Man: No Way Home," "Top Gun: Maverick" and "Jurassic World: Dominion."

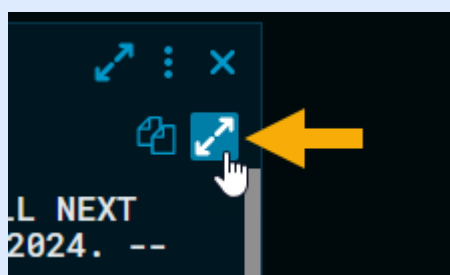
The figures show moviegoers are heading back to theaters, but still not in the numbers they were before Covid-19. Nine movies surpassed the billion-dollar mark in 2019 alone.

Overall, 52 movies have crossed over \$1 billion worldwide.

The headline of the currently selected news article is highlighted. News with a higher priority are also colour-coded:

7/26/22 8:02 PM	DowJones	Meta Raises Prices On Quest 2 Headsets By \$100, Starting Aug. 1 ...
7/26/22 11:45 AM	dpa-AFX	*BOFA CUTS APPLE PRICE TARGET TO 185 (200) USD - 'BUY'
7/26/22 11:45 AM	dpa-AFX	*BOFA SENKT ZIEL FÜR APPLE AUF 185 (200) USD - 'BUY'
7/26/22 11:37 AM	DowJones	Press Release: Apple Brompton Road Celebrates Creativity With ...
7/26/22 11:10 AM	DowJones	Dow Futures Slip, Walmart Tanks After Inflation Warning, Googl...
7/26/22 7:59 AM	DowJones	Alphabet Kicks Off Big Tech Earnings Tuesday. It's a Key Test for ...
7/25/22 11:24 PM	DowJones	A 3-Day Tech Earnings Deluge Begins. Here Are the Key Issues to...

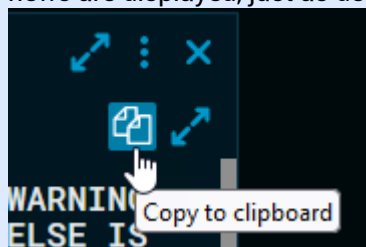
If the widget in the dashboard is wide enough, then the full text of the news article is shown to the right of the news list.



The icon next to the news text area allows you to maximise the news article to the entire widget, thus hiding the news list. By clicking the icon again, you restore the original widget view.



You can also use the icons in the upper part of the widget to change the way the news are displayed, just as described in the corresponding section for the "News Search" widget.



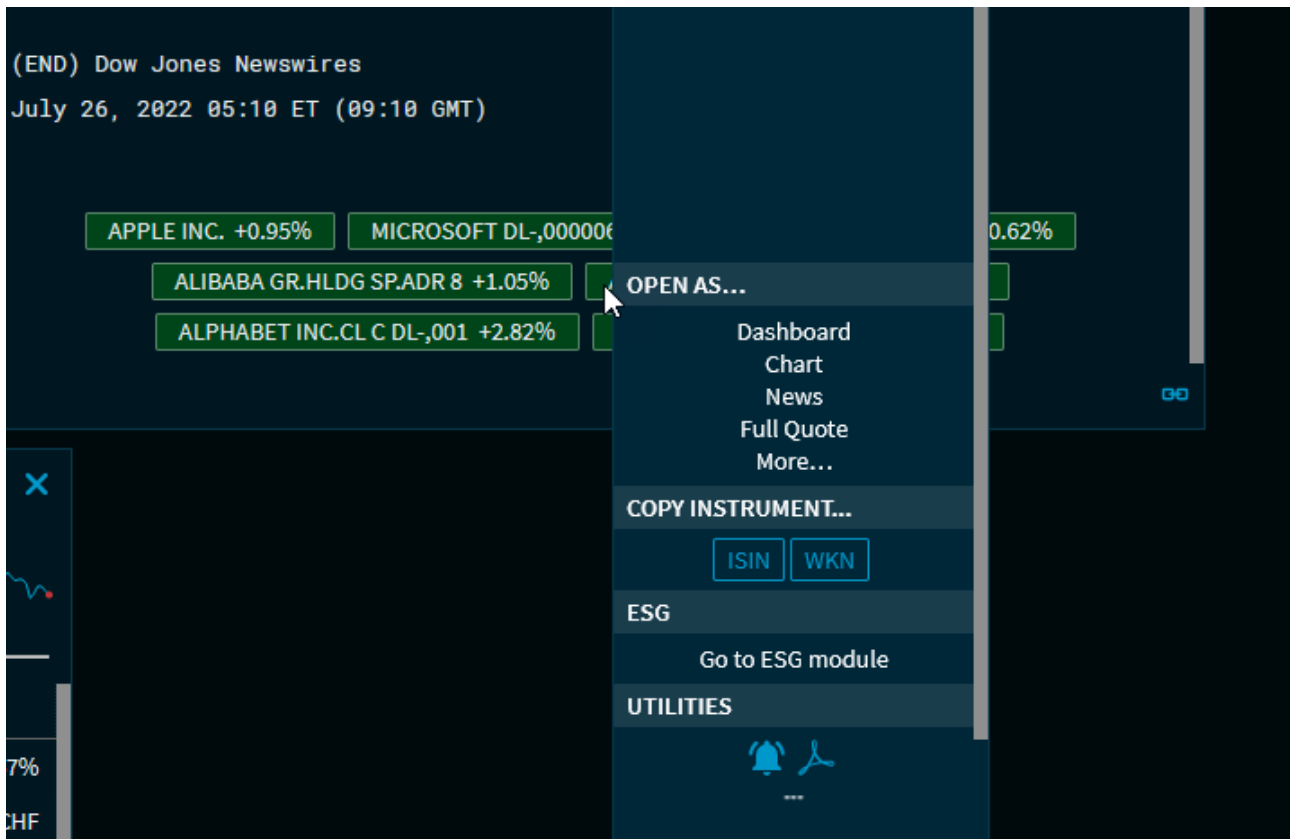
You can copy the currently displayed news text to the Clipboard and paste it into other programs by clicking the "Copy to Clipboard" icon in the top right corner of the news text window.

You can copy the news texts (or the currently marked part) by using the context menu.



You can print the news (as a PDF) by using the "Print" icon in the widget menu. For more information, see [Print widgets](#).

At the end of the news text, the associated securities are displayed as buttons that you can click. The colour of the buttons indicates the current performance. Click one of these buttons to open the menu from which you can open the security in a different widget, for example a "Chart" or "Full Quote" widget:



If you use a smaller widget (for example, on a smartphone), then the texts appear in the entire widget after the selection:

CERTIFICA...
☆
🔗
⚙️
DISCARD
SAVE
+

COMPANY NEWS
APPLE INC.


APPLE'S IPHONE GAINS MAY STALL NEXT YEAR. ANALYST EXPECTS A GREAT 2024. -- BARRONS.COM
7/25/22, 3:41 PM

Karishma Vanjani

Shipments of Apple's iPhone will decline next year, but investors should expect 2024 to be rock solid, says Susquehanna analyst Mehdi Hosseini.




Ahead of Apple's (ticker: AAPL) earnings this week, the analyst said the iPhone 15, which will be launched in mid-2023, seems to have limited new features, which he said would lead to shipments being down 8% to 10% year over year. But 2024 could potentially be a so-called supercycle because the tech giant is expected to introduce a foldable product category, while millimeter-wave services, offering the absolute best 5G speeds, finally start to work. Apple didn't immediately respond to a request for comment.

The faster mmWave 5G iPhones were predicted to come out in 2020, but the timeline shifted to 2021. Back then



 Close the text by clicking the "Close" icon to return to the headlines view.

COMPANY NEWS

APPLE INC. ▾

DATE	SOURCE	NEWS
7/25/22 11:13 PM	DowJones	Snap Stock Ne...
7/25/22 7:08 PM	DowJones	Koss Shares J...
7/25/22 6:53 PM	DowJones	Koss Shares J...
7/25/22 6:27 PM	DowJones	Meta's Earnin...
7/25/22 4:41 PM	AWP	Amazonia: m...
7/25/22 3:41 PM	DowJones	Apple's iPhon...
7/25/22 12:39 PM	DowJones	Apple and the ...
7/25/22 12:39 PM	DowJones	Apple and the ...
7/25/22 12:12 PM	DowJones	Bitcoin Prices ...
7/25/22 11:21 AM	DowJones	Dow Rises, Oil...
7/25/22 8:32 AM	DowJones	Investors Loo...
7/25/22 8:29 AM	DowJones	Giant Manage...
7/25/22 7:52 AM	dpa-AFX	ANALYSE-FLA...
7/25/22 7:52 AM	dpa-AFX	JPMorgan bel...
7/25/22 6:00 AM	Dow Jones ...	17 TERMINE, d...
7/25/22 6:00 AM	DowJones	17 TERMINE, d...
7/25/22 5:15 AM	dpa-AFX	WDH: Porsche...



1


2

3

4

5

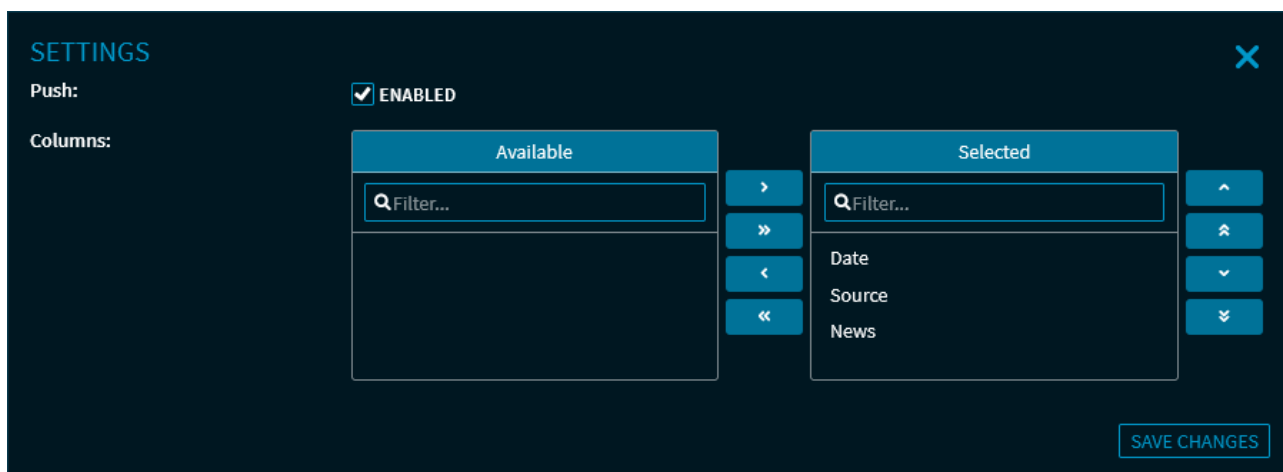


Settings in the "Company News" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here, you can make the following settings:

- Enable or disable the push data feed
- Show or hide the columns of the news display
See also [Show and hide columns of the widgets via the settings](#).

For more information about working with widgets, see [Commands in the widget menu](#).

5.39.3 "News Search" widget

Use the "News Search" widget to create individual news filters to show news filtered by your search terms, companies, topics and so on.

For each message, the columns "Date", "Source" and "News" are displayed by default. You can move these columns by using drag and drop or show and hide them by using the widget </wiki/spaces/imc/pages/90308846>.

NEWS SEARCH [SEARCH] [SAVED SEARCHES] [Menu Icon] [Close Icon]

Enabled filters: FR0000054470 | US00507V1098 | JP3435000009 | JP3756600007

DATE	SOURCE	NEWS
10/15/22 12:00 AM	DowJones	Press Release: A Future Worth Fighting for: Blizzard Entertainment's Overwatch(R) 2 R...
10/14/22 3:30 PM	DowJones	Press Release: Global Superstar Meghan Trainor's All-New "Made You Look" Music Vid...
10/7/22 11:17 AM	DowJones	ECHO BOURSE: JPMorgan réduit son objectif sur Ubisoft, mais reste à "surpondérer"
10/6/22 6:22 PM	dpa-AFX	*ACTIVISION BLIZZARD APPOINTS LULU CHENG MESERVEY AS EVP, CORPORATE AFFAI...
10/6/22 6:00 PM	DowJones	Press Release: Activision Blizzard Board Member Lulu Cheng Meservy Joins Executiv...
10/6/22 5:55 PM	DowJones	Press Release: Ubisoft Announces its Global Creative Office
10/5/22 8:57 AM	AWP	Tokyo a poursuivi sa remontée, Hong Kong euphorique
10/5/22 3:28 AM	AWP	Tokyo continue sur sa lancée à l'ouverture
10/4/22 3:08 AM	AWP	Tokyo entraînée par le courant ascendant à Wall Street
9/29/22 1:46 PM	Dow Jones ...	MARKT/Ubisoft unter Druck - Skull & Bones kommt später
9/29/22 1:46 PM	DowJones	MARKT/Ubisoft unter Druck - Skull & Bones kommt später
9/29/22 11:35 AM	DowJones	ECHO BOURSE: Le report d'un jeu d'Ubisoft peut-être plus problématique qu'il n'y par...
9/29/22 11:35 AM	DowJones	Ubisoft Shares Sink as Pirate Game Is Delayed
9/29/22 11:12 AM	DowJones	Ubisoft's Game Delay May Be More Troublesome Than It Seems - Market Talk
9/29/22 9:06 AM	DowJones	*Ubisoft perd 2,4% après avoir de nouveau repoussé la sortie de son jeu Skull and Bones
9/28/22 6:16 PM	DowJones	*Ubisoft: March 9, 2023, Is A Suitable Release Window For Further Polishing
9/28/22 6:16 PM	DowJones	*Ubisoft: 2022-2023 Financial Targets Are Unchanged
9/28/22 6:15 PM	DowJones	*Ubisoft Delays Release of Game Skull and Bones Until March 2023
9/28/22 6:15 PM	DowJones	*Ubisoft's Skull and Bones Had Been Set for November Release
9/28/22 6:09 PM	DowJones	*Ubisoft maintient ses prévisions financières pour l'exercice 2022-2023
9/28/22 6:08 PM	DowJones	*Ubisoft reporte la sortie de son jeu Skull and Bones au mois de mars prochain

PRESS RELEASE: A FUTURE WORTH FIGHTING FOR: BLIZZARD ENTERTAINMENT'S OVERWATCH(R) 2 REACHES TWENTY-FIVE MILLION PLAYERS IN FIRST TEN DAYS
10/15/22, 12:00 AM

A Future Worth Fighting for: Blizzard Entertainment's Overwatch(R) 2 Reaches Twenty-Five Million Players in First Ten Days

The sequel to the team-based shooter sets a new Overwatch record, with peak daily players almost triple that of the original game through its first ten days

A Future Worth Fighting for: Blizzard Entertainment's Overwatch(R) 2 Reaches Twenty-Five Million Players in First Ten Days

IRVINE, Calif.--(BUSINESS WIRE)--October 14, 2022--

Overwatch 2, Blizzard Entertainment's cross-platform and free-to-play team-based action game, has seen over twenty-five million heroes join the fight in the first ten days since its launch on Windows(R) PC via Battle.net(R), Xbox Series X|S, Xbox One, PlayStation(R) 5, PlayStation(R) 4, and Nintendo Switch(TM) consoles. The game has proven to be a global phenomenon, already achieving a daily player base spread near-even across EMEA, Asia, and the Americas that's nearly triple the previous daily player peak from the original Overwatch.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20221014005474/en/>

Overwatch 2 Logo (Graphic: Business Wire)

"The launch of Overwatch 2 has been such an important moment for Blizzard. We're thrilled to bring new players from around the world into Overwatch's vibrant universe while welcoming back the existing Blizzard community," said Mike Ybarra, president of Blizzard Entertainment. "This is only the beginning--there are so many possibilities to explore in the world of Overwatch, and we cannot wait for players to experience everything the team is building for the live game."

The newest Support hero to join the roster, Kiriko, has been a popular pick in matches so far, with players having successfully charged and unleashed her



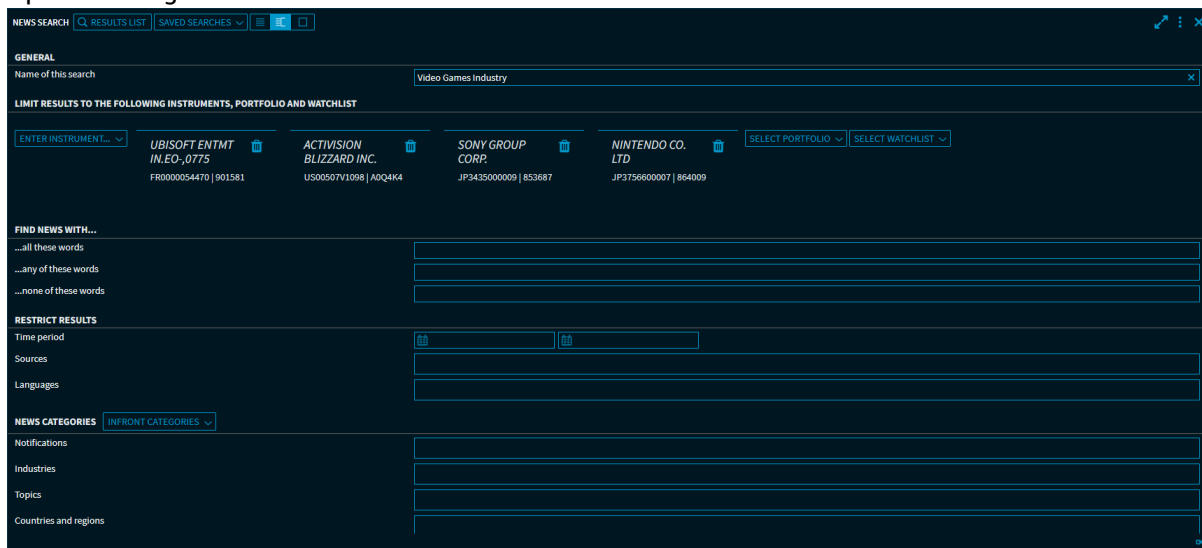
Use the icons in the upper part of the widget to </wiki/spaces/imc/pages/90244906>.

You can save your individual searches as news search definitions so that you can quickly access them any time. In addition, you can save your news searches as alerts to get a notification as soon as corresponding news are released.

The functions and workflows for the various output devices are described in </wiki/spaces/imc/pages/90243946>.

To filter the news with the "News Search" widget:

1. Open the widget and click the "Search" button.



2. Configure the news filter criteria. In the following table, you find all information about the search criteria, which you can combine as you like.
3. Use the drop-down list below the search criteria to specify the maximum displayed results (by default, the last 100 results, but you can also set 50 or 25 most current news).





You can delete all unsaved entries by clicking the "Reset" button.

4. Start the search query by clicking the "Start search" button. Click the "Result list" button above to start the search.
The news found are displayed in the results list. The most recent news are shown at the top of the list. You can see the currently selected filter (or the name of the currently selected saved search) in the "Enabled filters" field in the upper part of the widget.

The search criteria in detail:

Limit results to the following instruments, portfolio and watchlist

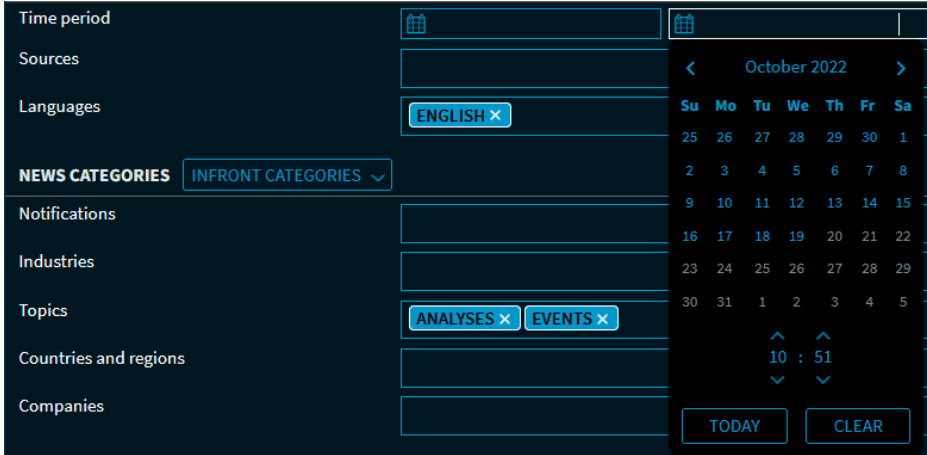
Field	Description
	Open the quick search to find securities. You can add multiple instruments. The news search is then limited to these instruments.
	 To remove the instruments you added, click the "Remove" icon of the corresponding instrument from the news search.

Field	Description
<div>SELECT PORTFOLIO ▾</div>	<p>Select a portfolio from this list if you want to configure the news search for all securities in the portfolio.</p> <p>To remove this filter if necessary, select the entry "No portfolio" which then appears at the top of the drop-down list.</p>
<div>SELECT WATCHLIST ▾</div>	<p>Watchlist from this list if you want to configure the news search for all securities in the watchlist.</p> <p>To remove this filter if necessary, select the entry "No watchlist" which then appears at the top of the drop-down list.</p>

Find news with...

Field	Description
...all these words	<p>Enter the search terms that you want to find.</p> <p>If you enter several words, then you will find only those news articles that contain all of these words.</p> <div> <p>Example:</p> <p>If you enter "car medicine", you will only get news that contain the word "car" (also as part of a word) as well as the word "medicine".</p> </div>
...any of these words	<p>Enter the search terms that you want to find.</p> <p>If you enter several words, then you will find news articles that contain at least one of these words.</p> <div> <p>Example:</p> <p>If you enter "car truck motorcycle", you find the news that contain either the word "car", "truck" or "motorcycle". News that contain several of these words will also be shown.</p> </div>
...none of these words	<p>Enter the search terms that you want to exclude.</p> <p>Enter one or more words to exclude news articles that contain these words.</p> <div> <p>Example:</p> <p>Entering "car motorcycle" will return the news that neither contain the word "car" nor the word "motorcycle".</p> </div>

Restrict results

Field	Description
Period	<p>With these two input fields, you can limit the news search to a certain period.</p> <p>To do this, select the first input field to specify the date from which you want to search for news using the integrated calendar function.</p> <p>If necessary, you can use the second input field to specify the date until which you want to find the news.</p> 
Sources	<p>Here, you can filter the news by source.</p> <p>To do this, click in the "Source" field and select the notification category from the drop-down list that appears. To add further sources, click in the input field again (start typing if the list doesn't appear) and select further news publishers.</p> <p>Examples:</p> <ul style="list-style-type: none"> • AWP • BVI • DGAP • Dow Jones Newswire • ...
Languages	<p>Select the corresponding language(s) of the news. Multiple selection is also possible.</p> <p>You can currently select the following languages:</p> <ul style="list-style-type: none"> • German • English • French • Italian • Dutch

vwd categories for news


Field	Description
vwd categories	In the "News categories" section at the top, you can use the drop-down list to specify whether you want to search for "vwd categories" (default setting) or for "Provider codes".
Notifications	<p>Here, you can filter for notifications such as security-specific announcements.</p> <p>To do this, click in the "Notifications" field and select the notification category. To add further notification categories, click in the input field again and select the category from the list.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Ad-hoc notifications German and English • Corporate news • Issuer notifications • vwd notifications • ...
Sectors	<p>Here, you can filter the news by sectors.</p> <p>To do this, click in the input field and select the relevant sector. To add further sectors, click in the input field again (start typing if the list doesn't appear) and select the sector from the list.</p> <p>Examples:</p> <ul style="list-style-type: none"> • Industry • Technology & software • Insurance companies • ...
Topics	<p>Here, you can filter the news by topic.</p> <p>To do this, click in the input field and select the relevant topic from the list that opens. To add further topics, click in the input field again (start typing if the list doesn't appear) and select the topic from the list.</p> <div> <p>Examples:</p> <ul style="list-style-type: none"> • Money and capital market • Press review • Central banks • Sports • ... </div>

Field	Description
Countries and regions	<p>Here, you can filter the news by region.</p> <p>To do this, click in the input field and select the relevant country or region from the list that opens. To add further countries or regions, click in the input field again (start typing if the list doesn't appear) and select the country or region from the list.</p> <div> Examples: <ul style="list-style-type: none"> • North America • China • Italy • ... </div>
Company	<p>Here, you can filter the news by company group.</p> <p>To do this, click in the input field and select the relevant company group. To add further company groups, click in the input field again (start typing if the list doesn't appear) and select the company group from the list.</p> <div> Examples: <ul style="list-style-type: none"> • Companies Germany • Companies NASDAQ • Companies EuroStoxx 50 • ... </div>

"Provider codes" news categories

Field	Description
vwd categories	<p>In the "News categories" section at the top, you can use the drop-down list to specify whether you want to search for "Infront categories" (default setting) or for "Provider codes".</p>
All these provider codes	<p>Enter the relevant /wiki/spaces/imc/pages/90210457 in this input field.</p> <p>If you enter multiple provider codes (separated by a space, for example), then you will find only those news articles that contain all of these provider codes.</p>
Any of these provider codes	<p>Enter the relevant /wiki/spaces/imc/pages/90210457 in this input field.</p> <p>If you enter multiple provider codes (separated by a space, for example), then you will find all news articles that contain at least one of these provider codes.</p>

Field	Description
None of these provider codes	<p>In this input field, enter the /wiki/spaces/imc/pages/90210457 you want to exclude from the news search.</p> <p>If you enter multiple provider codes (separated by a space, for example), then all news will ignored in the search containing at least one of these provider codes.</p>

 You can drag and drop securities from other widgets into the "News Search" widget. This filters the news by the ISIN of the corresponding security.

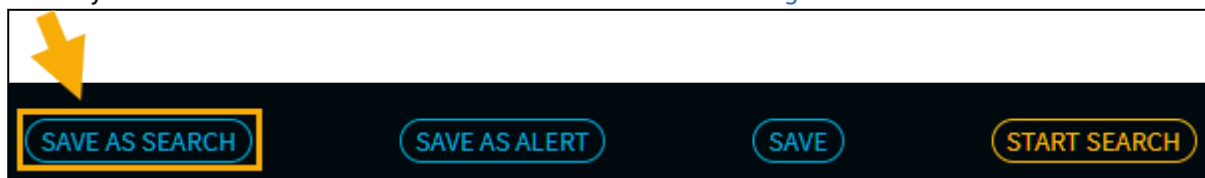
See also:

- [Save news search](#)
- [Views in the "News Search" widget](#)
- [Update saved news search](#)
- [Rename or delete saved news search](#)
- [Save news search as alert](#)
- [Delete saved news searches](#)
- [Copy news text to Clipboard](#)
- [Provider Codes](#)
- [Settings in the "News Search" widget](#)

Save news search

You can save your search currently configured in the "News Search" widget so that you can quickly apply it any time you want. To do this, follow these steps:

1. Define your search criteria as described in the ["News Search" widget](#).



2. Then click the "Save as search" button.

The settings are saved as a news search. The name of the news search is derived from the filter settings. If you want to change the name, see [Rename or delete saved news search](#). You can open the saved news search any time using the corresponding drop-down list.

Views in the "News Search" widget



By default, the widget uses a two-column display, showing the titles of incoming news on the left side and the corresponding news texts on the right side. Use the icons at the top of the widget to change the display:

Icon	Description
	<p>List view</p> <p>Click this icon to display only the list of news headlines in the widget.</p>
	<p>Column view (default setting)</p> <p>With this setting, the widget displays the headlines of incoming news on the left side and the corresponding news texts on the right side.</p>

Icon	Description
	<p>Text view</p> <p>Click this icon to display only the news text ("Story") of the currently selected news item.</p>
	<p>Text view</p> <p>You can also use this icon in the upper right corner of the news text to display the news text across the entire widget.</p>

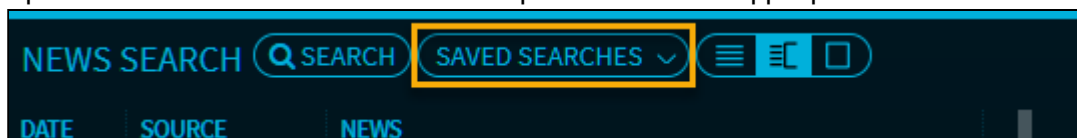


If the widget is only displayed in one column, then the icons are hidden. Drag the widget wider to show the icons at the top.

Update saved news search

You can edit saved search definitions and save them as a copy. To do this, follow these steps:

1. Open the saved search from the search drop-down list in the upper part of the "News Search" widget.



2. Then click the "Search" button to open the filter settings.
3. Make your changes.
4. Then, click the "Save as search" button.
A copy of the search definition is created.
5. Click the "Edit" icon to rename the copy of the search definition.



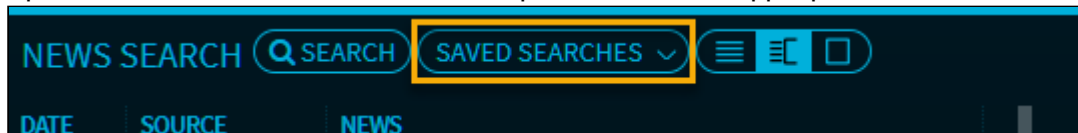
In the drop-down list with the news search definitions, the "Alert" symbol (bell) indicates news search definitions saved as alerts.

Rename or delete saved news search

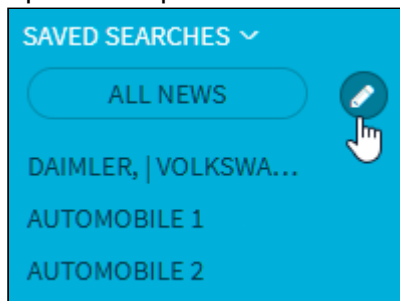
Having saved your custom news search (see [Save news search](#)), you can rename it at any time.

To do this, follow these steps:

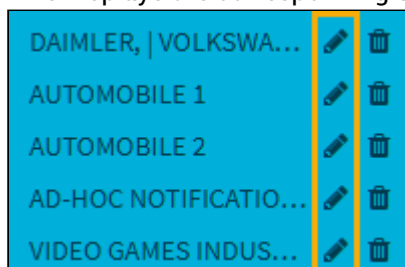
1. Open the saved search from the search drop-down list in the upper part of the "News Search" widget.



2. Open the drop-down list and click the "Edit" icon.



This displays the corresponding editing icons behind the names of the saved searches.



3. Click the edit icon and overwrite the old name.
4. Save the change with the "Save" icon of the entry.
The news search is now shown with a new name.



You can delete the saved message searches by using the delete icons visible in the selection list in edit mode.

Save news search as alert

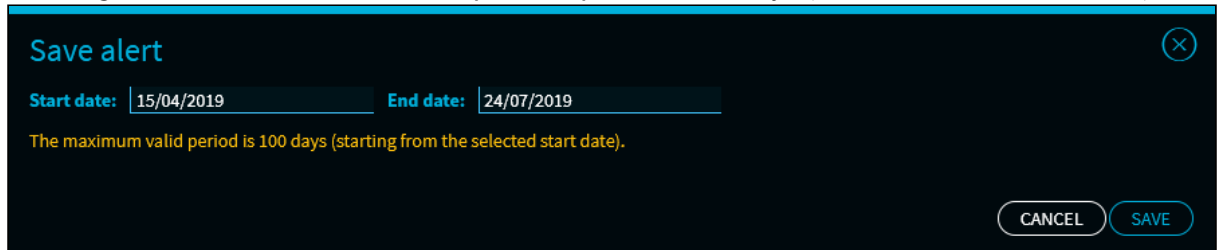
You can save the search criteria currently configured in the "News Search" widget also as news alerts so that you receive corresponding news as soon as they are published. To do this, follow these steps:

1. Define your search criteria as described in the ["News Search"](#) widget and save your search with the "Save as search" button.

- Then click the "Save as alert" button.



- In the "Save alert" dialogue window that appears, enter the start and end date of the news alert using the integrated calendar. The maximum possible period is 100 days (from the selected start date).



- Confirm the entries by clicking the "Save" button.

The settings are save as news alert. The name of the alert is derived from the filter settings (just as for the news search). To modify these, see [Rename or delete saved news search](#).

For more information about automatic notifications, see [Alerts](#).




In the drop-down list with the news search definitions, the "Alert" symbol (bell) indicates news search definitions saved as alerts:

SAVED SEARCHES ▾

ALL NEWS 

DAIMLER, | VOLKSWA...

AUTOMOBILE 1

AUTOMOBILE 2

AD-HOC NOTIFICATIO... 

Click the "Alert" symbol to open the news search definitions saved as alerts directly in an "Alert" widget. If there is no "Alert" widget in the dashboard yet, then a new one opens. Otherwise, the news alert opens in an existing "Alert" widget.

Delete saved news searches

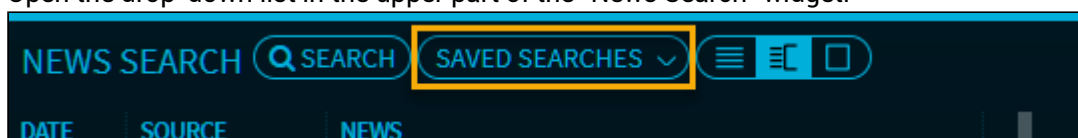
Having saved your custom news search (see [Save news search](#)), you can delete them it at any time. You can do this in two ways.

Delete news search with drop-down list

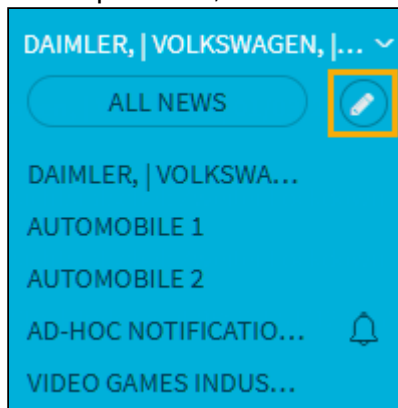
You can delete saved news searches directly by using the corresponding drop-down list in the "News Search" widget.

To do this, follow these steps:

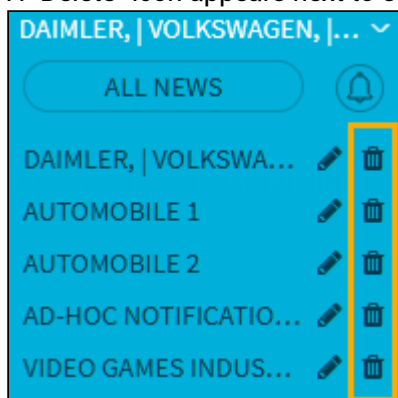
- Open the drop-down list in the upper part of the "News Search" widget.



2. In the open menu, click the "Edit" icon.

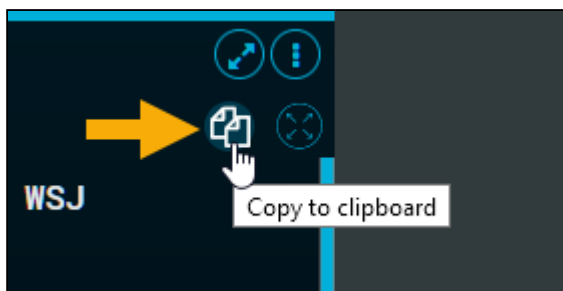


A "Delete" icon appears next to each entry. The "Alert" icon is now shown instead of the "Edit" icon.



3. Click the "Delete" icon of the entry that you want to delete.
The news search is deleted. Click the "Alert" icon to return to the original display.

Copy news text to Clipboard



You can copy the currently displayed news text to the Clipboard and paste it into other programs by clicking the "Copy to Clipboard" icon in the top right corner of the news text window.

Provider Codes

Here, you find a table with the available Provider Codes for AWP, Boursier.com, Dow Jones, dpa-AFX, FTA and Tijd in the corresponding language, which you can use in the "News Search" widget as search criteria with the "Provider codes" setting.

Provider	Category	Code	Description
----------	----------	------	-------------

AWP	Industry	AIR	Aerospace
AWP	Industry	ALC	Distiller and brewer
AWP	Industry	AUT	Automotive equipment
AWP	Industry	BLD	Building material
AWP	Industry	BNK	Banking
AWP	Industry	BTC	Biotechnology
AWP	Industry	CHM	Chemicals
AWP	Industry	CMP	Computers, Electronics
AWP	Industry	CNS	Consultancy service
AWP	Industry	CON	Construction
AWP	Industry	CPL	Corporation under public law
AWP	Industry	CSM	Consumer Goods
AWP	Industry	DRG	Pharmaceuticals, drugs
AWP	Industry	ECM	Electronic commerce
AWP	Industry	EDU	Education
AWP	Industry	ELE	Semiconductors and electronical components
AWP	Industry	EMP	Employment agency
AWP	Industry	ENE	Energy
AWP	Industry	ENG	Machine manufacturing, engineering
AWP	Industry	ENV	Environment and recycling
AWP	Industry	FIN	Financial services
AWP	Industry	FOO	Food

AWP	Industry	GLD	Gold and precious material
AWP	Industry	HTH	Healthcare provider
AWP	Industry	IND	Indices (SMI, DAX, DJ, etc)
AWP	Industry	INS	Insurance
AWP	Industry	INT	internet and software
AWP	Industry	IRO	Iron and steel
AWP	Industry	LEI	Leisure, tourism
AWP	Industry	LUX	Watches, luxury goods
AWP	Industry	MDS	Medical technology
AWP	Industry	MIN	Mining
AWP	Industry	NKL	Not classified
AWP	Industry	OIL	Oil and gas
AWP	Industry	ONF	Non ferrous metal
AWP	Industry	PAK	Paper and packaging product
AWP	Industry	PAP	Forestry and timber
AWP	Industry	PLN	Agriculture
AWP	Industry	PRO	Real estate
AWP	Industry	PUB	Publishing, media
AWP	Industry	RTS	Retail
AWP	Industry	SFT	Soft drinks
AWP	Industry	TEL	Telecommunication service
AWP	Industry	TEX	Textile and clothing

AWP	Industry	TLE	Telecommunication equipment
AWP	Industry	TOB	Tobacco
AWP	Industry	TRD	Wholesale
AWP	Industry	TRN	Transport and Logistics
AWP	Industry	TST	Investment trusts
AWP	Category code	AGM	Annual and special corporate meeting
AWP	Category code	ANL	Financial analysis
AWP	Category code	ART	Arts, culture and entertainment
AWP	Category code	BCY	Bankruptcies, receiverships, liquidations
AWP	Category code	BLV	Boulevard
AWP	Category code	BND	Bonds
AWP	Category code	CAL	Business calendar, diary features
AWP	Category code	CBK	Central banks
AWP	Category code	CLO	Closing market reports
AWP	Category code	COM	Commodity markets
AWP	Category code	DBT	Government debt
AWP	Category code	DIG	Press-Digest
AWP	Category code	DIS	Disaster and accident
AWP	Category code	DIV	Dividend announcement
AWP	Category code	ECO	Macro economics
AWP	Category code	ERN	Corporate performance
AWP	Category code	FIS	State budget and tax

AWP	Category code	FIT	Analysis (tables)
AWP	Category code	FNG	Financings and investments
AWP	Category code	FOC	Focus stories
AWP	Category code	FON	Mutual funds
AWP	Category code	FRX	Foreign exchange market
AWP	Category code	FUT	Derivative securities
AWP	Category code	GEN	Restructuring and recapitalisation
AWP	Category code	HEA	Health
AWP	Category code	IPO	IPO, going public, bookbuilding, greenshoe
AWP	Category code	IRT	Interest rate
AWP	Category code	ITV	Interview
AWP	Category code	JNV	Joint ventures, co-operations
AWP	Category code	LAB	Labour
AWP	Category code	LAW	Crime, law and justice
AWP	Category code	LIC	Licensing agreement
AWP	Category code	MGT	Management changes, board changes
AWP	Category code	MKT	Stock Market Development
AWP	Category code	MNA	Merger and acquisitions
AWP	Category code	MON	Money and monetary policy
AWP	Category code	NAT	Environmental issue
AWP	Category code	NAV	Net asset values
AWP	Category code	NEW	General News

AWP	Category code	OPE	Opening market report
AWP	Category code	ORD	New orders, major contracts
AWP	Category code	OTS	Adhoc-News
AWP	Category code	OUT	Outlooks, previews
AWP	Category code	PAN	Information about stake and shareholding
AWP	Category code	PLO	plant opening
AWP	Category code	POL	Political news
AWP	Category code	PRD	New products & services
AWP	Category code	RAD	Research and development
AWP	Category code	REG	Regulatory actions, anti-trust actions
AWP	Category code	RLG	Religion and belief
AWP	Category code	RND	Roundups
AWP	Category code	RTG	Credit ratings
AWP	Category code	RUM	Market talk, rumour
AWP	Category code	SCN	Science and technology
AWP	Category code	SER	Editorial Service
AWP	Category code	SPO	Sport
AWP	Category code	STK	Market and exchange
AWP	Category code	SUM	Summaries
AWP	Category code	TRA	Trade Policy, WTO
AWP	Category code	UNP	Company profiles
AWP	Country code	AD	Andorra

AWP	Country code	AE	United Arab Emirates
AWP	Country code	AF	Afganistan
AWP	Country code	AG	Antigua and Barbuda
AWP	Country code	AI	Anguilla
AWP	Country code	AL	Albania
AWP	Country code	AM	Armenia
AWP	Country code	AN	Netherlands Antilles
AWP	Country code	AO	Angola
AWP	Country code	AQ	Antarctica
AWP	Country code	AR	Argentina
AWP	Country code	AS	American Samoa
AWP	Country code	AT	Austria
AWP	Country code	AU	Australia
AWP	Country code	AW	Aruba
AWP	Country code	AZ	Azerbaijan
AWP	Country code	BA	Bosnia and Herzegovina
AWP	Country code	BB	Barbados
AWP	Country code	BD	Bangladesh
AWP	Country code	BE	Belgium
AWP	Country code	BF	Burkina Faso
AWP	Country code	BG	Bulgaria
AWP	Country code	BH	Bahrain

AWP	Country code	BI	Burundi
AWP	Country code	BJ	Benin
AWP	Country code	BM	Bermuda
AWP	Country code	BN	Brunei Darussalam
AWP	Country code	BO	Bolivia
AWP	Country code	BR	Brazil
AWP	Country code	BS	Bahamas
AWP	Country code	BT	Bhutan
AWP	Country code	BV	Bouvet Island
AWP	Country code	BW	Botswana
AWP	Country code	BY	Belarus
AWP	Country code	BZ	Belize
AWP	Country code	CA	Canada
AWP	Country code	CC	Cocos (Keeling) Islands
AWP	Country code	CD	Congo, Democratic Republic
AWP	Country code	CF	Central African Republic
AWP	Country code	CG	Republic of Congo
AWP	Country code	CH	Switzerland
AWP	Country code	CI	Ivory Coast
AWP	Country code	CK	Cook Islands
AWP	Country code	CL	Chile
AWP	Country code	CM	Cameroon

AWP	Country code	CN	China
AWP	Country code	CO	Columbia
AWP	Country code	CR	Costa Rica
AWP	Country code	CU	Cuba
AWP	Country code	CV	Cape Verde
AWP	Country code	CX	Christmas Island
AWP	Country code	CY	Cyprus
AWP	Country code	CZ	Czech Republic
AWP	Country code	DE	Germany
AWP	Country code	DJ	Djibouti
AWP	Country code	DK	Denmark
AWP	Country code	DM	Dominica
AWP	Country code	DO	Dominican Republic
AWP	Country code	DZ	Algeria
AWP	Country code	EC	Ecuador
AWP	Country code	EE	Estonia
AWP	Country code	EG	Egypt
AWP	Country code	EH	Western Sahara
AWP	Country code	ER	Eritrea
AWP	Country code	ES	Spain
AWP	Country code	ET	Ethiopia
AWP	Country code	EU	European Community

AWP	Country code	FI	Finland
AWP	Country code	FJ	Fiji
AWP	Country code	FK	Falkland Islands (Malvinas)
AWP	Country code	FM	Micronesia
AWP	Country code	FO	Faeroe Islands
AWP	Country code	FR	France
AWP	Country code	GA	Gabon
AWP	Country code	GB	United Kingdom
AWP	Country code	GD	Grenada
AWP	Country code	GE	Georgia (Sakartvelo)
AWP	Country code	GF	French Guiana
AWP	Country code	GH	Ghana
AWP	Country code	GI	Gibraltar
AWP	Country code	GL	Greenland
AWP	Country code	GM	Gambia
AWP	Country code	GN	Guinea
AWP	Country code	GP	Guadeloupe
AWP	Country code	GQ	Equatorial Guinea
AWP	Country code	GR	Greece
AWP	Country code	GS	Sandwich Islands
AWP	Country code	GT	Guatemala
AWP	Country code	GU	Guam

AWP	Country code	GW	Guinea-Bissau
AWP	Country code	GY	Guyana
AWP	Country code	HK	Hong Kong
AWP	Country code	HM	Heard And Mc Donald Islands
AWP	Country code	HN	Honduras
AWP	Country code	HR	Croatia
AWP	Country code	HT	Haiti
AWP	Country code	HU	Hungary
AWP	Country code	ID	Indonesia
AWP	Country code	IE	Ireland
AWP	Country code	IL	Israel
AWP	Country code	IN	India
AWP	Country code	IO	British Indian Ocean Territory
AWP	Country code	IQ	Iraq
AWP	Country code	IR	Iran
AWP	Country code	IS	Iceland
AWP	Country code	IT	Italy
AWP	Country code	JE	Jersey Island
AWP	Country code	JM	Jamaika
AWP	Country code	JO	Jordan
AWP	Country code	JP	Japan
AWP	Country code	KE	Kenya

AWP	Country code	KG	Kyrgyzstan
AWP	Country code	KH	Cambodia
AWP	Country code	KI	Kiribati
AWP	Country code	KM	Comoros
AWP	Country code	KN	St. Kitts And Nevis
AWP	Country code	KP	Democratic People's Republic of Korea
AWP	Country code	KR	Korea, Republic of
AWP	Country code	KW	Kuwait
AWP	Country code	KY	Cayman Islands
AWP	Country code	KZ	Kazakhstan
AWP	Country code	LA	Laos People's Democratic Republic
AWP	Country code	LB	Lebanon
AWP	Country code	LC	St. Lucia
AWP	Country code	LI	Liechtenstein
AWP	Country code	LK	Sri Lanka
AWP	Country code	LR	Liberia
AWP	Country code	LS	Lesotho
AWP	Country code	LT	Lithuania
AWP	Country code	LU	Luxembourg
AWP	Country code	LV	Latvia
AWP	Country code	LY	Libya
AWP	Country code	MA	Morocco

AWP	Country code	MC	Monaco
AWP	Country code	MD	Moldova, Republic Of
AWP	Country code	ME	Montenegro
AWP	Country code	MG	Madagascar
AWP	Country code	MH	Marshall Islands
AWP	Country code	MK	Macedonia
AWP	Country code	ML	Mali
AWP	Country code	MM	Myanmar
AWP	Country code	MN	Mongolia
AWP	Country code	MO	Macau
AWP	Country code	MP	Northern Mariana Islands
AWP	Country code	MQ	Martinique
AWP	Country code	MR	Mauritania
AWP	Country code	MS	Montserrat
AWP	Country code	MT	Malta
AWP	Country code	MU	Mauritius
AWP	Country code	MV	Maldives
AWP	Country code	MW	Malawi
AWP	Country code	MX	Mexico
AWP	Country code	MY	Malaysia
AWP	Country code	MZ	Mozambique
AWP	Country code	NA	Namibia

AWP	Country code	NC	New Caledonia
AWP	Country code	NE	Niger
AWP	Country code	NF	Norfolk Island
AWP	Country code	NG	Nigeria
AWP	Country code	NI	Nicaragua
AWP	Country code	NL	Netherlands
AWP	Country code	NO	Norway
AWP	Country code	NP	Nepal
AWP	Country code	NR	Nauru
AWP	Country code	NU	Niue
AWP	Country code	NZ	New Zealand
AWP	Country code	OM	Oman
AWP	Country code	PA	Panama
AWP	Country code	PE	Peru
AWP	Country code	PF	French Polynesia
AWP	Country code	PG	Papua New Guinea
AWP	Country code	PH	Phillipines
AWP	Country code	PK	Pakistan
AWP	Country code	PL	Poland
AWP	Country code	PM	St. Pierre and Miquelon
AWP	Country code	PN	Pitcairn
AWP	Country code	PR	Puerto Rico

AWP	Country code	PS	Palestinian Territory
AWP	Country code	PT	Portugal
AWP	Country code	PW	Palau
AWP	Country code	PY	Paraguay
AWP	Country code	QA	Qatar
AWP	Country code	RE	Réunion
AWP	Country code	RO	Romania
AWP	Country code	RS	Serbia
AWP	Country code	RU	Russia
AWP	Country code	RW	Rwanda
AWP	Country code	SA	Saudi Arabia
AWP	Country code	SB	Solomon Islands
AWP	Country code	SC	Seychelles
AWP	Country code	SD	Sudan
AWP	Country code	SE	Sweden
AWP	Country code	SG	Singapore
AWP	Country code	SH	St. Helena
AWP	Country code	SI	Slovenia
AWP	Country code	SJ	Svalbard and Jan Mayen Islands
AWP	Country code	SK	Slovakia
AWP	Country code	SL	Sierra Leone
AWP	Country code	SM	San Marino

AWP	Country code	SN	Senegal
AWP	Country code	SO	Somalia
AWP	Country code	SR	Suriname
AWP	Country code	SS	The Republic of South Sudan
AWP	Country code	ST	Sao Tome And Principe
AWP	Country code	SV	El Salvador
AWP	Country code	SY	Syrian Arab Republic
AWP	Country code	SZ	Swaziland
AWP	Country code	TC	Turks and Caicos Islands
AWP	Country code	TD	Chad
AWP	Country code	TF	French Southern Territories
AWP	Country code	TG	Togo
AWP	Country code	TH	Thailand
AWP	Country code	TJ	Tajikistan
AWP	Country code	TK	Tokelau
AWP	Country code	TL	Timor-Leste
AWP	Country code	TM	Turkmenistan
AWP	Country code	TN	Tunisia
AWP	Country code	TO	Tonga
AWP	Country code	TR	Turkey
AWP	Country code	TT	Trinidad and Tobago
AWP	Country code	TV	Tuvalu

AWP	Country code	TW	Taiwan
AWP	Country code	TZ	Tanzania, United Republic Of
AWP	Country code	UA	Ukraine
AWP	Country code	UG	Uganda
AWP	Country code	US	United States of America
AWP	Country code	UY	Uruguay
AWP	Country code	UZ	Uzbekistan
AWP	Country code	VA	Vatican City State (Holy See)
AWP	Country code	VC	St. Vincent and Grenadines
AWP	Country code	VE	Venezuela
AWP	Country code	VG	Virgin Islands (British)
AWP	Country code	VI	Virgin Islands (U.S.)
AWP	Country code	VN	Viet Nam
AWP	Country code	VU	Vanuatu
AWP	Country code	WF	Wallis and Futuna Islands
AWP	Country code	WS	Samoa
AWP	Country code	YE	Yemen
AWP	Country code	YT	Mayotte
AWP	Country code	ZA	South Africa
AWP	Country code	ZM	Zambia
AWP	Country code	ZO	Euro zone
AWP	Country code	ZW	Zimbabwe

AWP	Ratingcodes	AC	
AWP	Ratingcodes	AD	Accumulate
AWP	Ratingcodes	AT	Add
AWP	Ratingcodes	B	Attraktiv
AWP	Ratingcodes	MO	Buy
AWP	Ratingcodes	OP	Market Outperform
AWP	Ratingcodes	OW	Outperform
AWP	Ratingcodes	SB	Overweight
AWP	Ratingcodes	SL	Strong Buy
AWP	Ratingcodes	ÜG	Selected List
AWP	Ratingcodes	EW	
AWP	Ratingcodes	H	Equal Weight
AWP	Ratingcodes	IL	Hold
AWP	Ratingcodes	MG	In-Line
AWP	Ratingcodes	MP	
AWP	Ratingcodes	MW	Market Perform
AWP	Ratingcodes	N	Marketweight
AWP	Ratingcodes	MU	Neutral
AWP	Ratingcodes	R	Market Underperform
AWP	Ratingcodes	S	Reduce
AWP	Ratingcodes	UGW	Sell
AWP	Ratingcodes	UP	Underperform

AWP	Ratingcodes	UW	Underweight
AWP	Ratingcodes	NR	Not Rated
AWP	Ratingcodes	RS	Restricted
AWP	Ratingcodes	SU	Rating Suspended
AWP	Ratingcodes	UR	Under Review
Boursier.com	Category	NW_CA	Chiffre d'affaires (Turn over)
Boursier.com	Category	NW_RN	Résultat (Earnings)
Boursier.com	Category	NW_AP	Accords / partenariats (Ventures / partnership)
Boursier.com	Category	NW_DV	Divers (Misc.)
Boursier.com	Category	NW_AN	Analystes (Brokers)
Boursier.com	Category	NW_AV	Avis AMF (Market rules)
Boursier.com	Category	NW_MF	Marché Français (French market)
Boursier.com	Category	NW_MU	Marché US (US market)
Boursier.com	Category	NW_ME	Marché Européen (European market)
Boursier.com	Category	NW_EC	Economie (Economy)
Boursier.com	Category	NW_EU	Valeurs européennes (European stocks)
Boursier.com	Category	NW_US	Nasdaq / US (Nasdaq / US)

Boursier.com	Category	NW_PH	Point hebdo (Weekly report)
Boursier.com	Category	NW_IT	News Introduction (IPO)
Boursier.com	Category	NW_O0	OST - Admissions et radiations (coporate actions)
Boursier.com	Category	NW_O1	OST - Admission de nouveaux titres (coporate actions)
Boursier.com	Category	NW_O2	OST - Offres Publiques (coporate actions)
Boursier.com	Category	NW_O3	OST - Autres OST (coporate actions)
Boursier.com	Category	NW_O4	OST - Opérations sociales des émetteurs (coporate actions)
Boursier.com	Category	NW_O5	OST - Conventions d'actionnaires (coporate actions)
Boursier.com	Category	NW_O6	OST - Franchissement de seuil (coporate actions)
Boursier.com	Category	NW_O7	OST - Suspension / Reprises des cotations (coporate actions)
Boursier.com	Category	NW_O8	OST - Organisation des marchés et cotations (coporate actions)
Boursier.com	Category	NW_O9	OST – Obligations (coporate actions)
Boursier.com	Category	NW_AG	Agenda (Calendar)
Boursier.com	Category	NW_SC	OPCVM / Sicav (Mutual funds)
Boursier.com	Category	NW_ID	Idée d'investissement (Calendar)
Dow Jones	Category	N/10K	10-K Annual Report Filings

Dow Jones	Category	N/10Q	Quarterly Reports (SEC Form 10-Q)
Dow Jones	Category	N/13D	5% Equity Ownership (SEC Form 13D)
Dow Jones	Category	N/13F	Equity Portfolios of \$100 Million (13-F)
Dow Jones	Category	N/13FM	13F Money Managers Filings
Dow Jones	Category	N/144	Form 144 Filings
Dow Jones	Category	N/8K	Significant Corporate Events (SEC Form 8-K)
Dow Jones	Category	N/ACSC	Asian Commentary Service Content
Dow Jones	Category	N/ADB	Asian Development Bank (ADB)
Dow Jones	Category	N/ADR	American Depositary Receipts/Shares
Dow Jones	Category	N/ADSM	Abu Dhabi Stock Market
Dow Jones	Category	N/AER	Dow Jones Asian Equities Report
Dow Jones	Category	N/AFD	African Development Bank
Dow Jones	Category	N/AGC	Agricultural Commodities
Dow Jones	Category	N/AGN	Government Agency Securities
Dow Jones	Category	N/AGR	Agriculture
Dow Jones	Category	N/AIN	Alternative Investments
Dow Jones	Category	N/ALI	Aluminum
Dow Jones	Category	N/ALMT	All Market Talk
Dow Jones	Category	N/ALR	DJ Reports & Alerts
Dow Jones	Category	N/ALS	Al's Emporium
Dow Jones	Category	N/ANL	Analysts' Comments & Ratings of Stocks
Dow Jones	Category	N/ANP	Analyst Poll

Dow Jones	Category	N/ANS	Chinese Automated News Summaries
Dow Jones	Category	N/ANS2	Chinese Automated News Summaries
Dow Jones	Category	N/APIN	Asian Premium Investment News
Dow Jones	Category	N/ARAB	Arabic Language Code
Dow Jones	Category	N/ARG	Analysts' Ratings
Dow Jones	Category	N/ARI	AIDS Issues & Research
Dow Jones	Category	N/ART	Arts & Entertainment
Dow Jones	Category	N/ASL	Asset Allocation
Dow Jones	Category	N/ASMT	Asian Market Talk
Dow Jones	Category	N/ASN	Association of Southeast Asian Nations (ASEAN)
Dow Jones	Category	N/AST	Asset-Backed Securities
Dow Jones	Category	N/ATI	Chinese Auto Translated Items
Dow Jones	Category	N/AUMT	Australia Equities Market Talk
Dow Jones	Category	N/AWFB	AWP French Basic
Dow Jones	Category	N/AWFP	AWP French Premium
Dow Jones	Category	N/AWGB	AWP German Basic
Dow Jones	Category	N/AWGP	AWP German Premium
Dow Jones	Category	N/AWJ	Wall Street Journal (Asia) on Newswires
Dow Jones	Category	N/AWP	AWP News
Dow Jones	Category	N/AWPB	Swiss News Service Basic
Dow Jones	Category	N/AWPP	Swiss News Service Premium
Dow Jones	Category	N/AWSJ	The Wall Street Journal Asia

Dow Jones	Category	N/BAQ	Bankers Acceptances
Dow Jones	Category	N/BAZ	Bueroanzeiger
Dow Jones	Category	N/BBB	Bulletin Board
Dow Jones	Category	N/BBK	Buybacks
Dow Jones	Category	N/BCD	Certificates of Deposit
Dow Jones	Category	N/BCY	Bankruptcy-Related Filings
Dow Jones	Category	N/BDW	Bandwidth Topic
Dow Jones	Category	N/BEN	Beans
Dow Jones	Category	N/BFC	Chapter 11 Bankruptcy Filings & Cases
Dow Jones	Category	N/BFE	Block from email
Dow Jones	Category	N/BFL	Biofuels
Dow Jones	Category	N/BFQ	Block from Input Queue
Dow Jones	Category	N/BFX	Euribor rate fixing
Dow Jones	Category	N/BIA	Bundesverband Investment und Asset Management
Dow Jones	Category	N/BIG	Big Picture
Dow Jones	Category	N/BII	The Big Idea
Dow Jones	Category	N/BIO	Biography
Dow Jones	Category	N/BIS	Bank for International Settlements (BIS)
Dow Jones	Category	N/BKG	Dow Jones Global FX & Fixed Income News
Dow Jones	Category	N/BKT	Basketball
Dow Jones	Category	N/BKW	Broker's World
Dow Jones	Category	N/BLOG	Content Sourced from Blogs

Dow Jones	Category	N/BNEU	Dow Jones Business News Europe Plus
Dow Jones	Category	N/BNL	Business News Letters
Dow Jones	Category	N/BOE	Third Party Content from the Bank of England
Dow Jones	Category	N/BON	Bond News
Dow Jones	Category	N/BPR	Bond Pricings
Dow Jones	Category	N/BRD	Boards of Directors
Dow Jones	Category	N/BRN	Barron's on Newswires
Dow Jones	Category	N/BRNO	Barron's Online
Dow Jones	Category	N/BRNS	Barron's
Dow Jones	Category	N/BSE	Baseball
Dow Jones	Category	N/BSZ	Boersenzeitung
Dow Jones	Category	N/BUN	Bunker Fuel
Dow Jones	Category	N/BW	Business Wire
Dow Jones	Category	N/BWR	Businesswire
Dow Jones	Category	N/BZB	Business Briefs
Dow Jones	Category	N/CAC	Corporate Actions
Dow Jones	Category	N/CAL	Calendar
Dow Jones	Category	N/CAS	Class Action/Settlement
Dow Jones	Category	N/CBI	Central-Bank Intervention
Dow Jones	Category	N/CBK	Central Banks
Dow Jones	Category	N/CBT	Cobalt
Dow Jones	Category	N/CCA	Cross-asset correlation analysis

Dow Jones	Category	N/CCS	Currency Coded Story
Dow Jones	Category	N/CDE	Credit Default Options (CDO)
Dow Jones	Category	N/CDJ	General Canadian News
Dow Jones	Category	N/CDO	Collateralized Debt Obligations (CDO)
Dow Jones	Category	N/CDR	Credit Derivatives
Dow Jones	Category	N/CDS	Credit Default Swaps (CDS)
Dow Jones	Category	N/CDY	Top Canadian Stories
Dow Jones	Category	N/CEA	Economic News in Canada
Dow Jones	Category	N/CEM	Economic Indicators in Canada
Dow Jones	Category	N/CEO	Exclusive Interviews with Corporate Executives
Dow Jones	Category	N/CERN	Earnings for Canadian Companies
Dow Jones	Category	N/CFE	Coffee
Dow Jones	Category	N/CFF	DJ Chinese Forex/Fixed-Income Wire
Dow Jones	Category	N/CFW	DJ Chinese Financial Wire
Dow Jones	Category	N/CGT	Capital Gains Tax
Dow Jones	Category	N/CHD	Change in Dividend Rate
Dow Jones	Category	N/CHG	Corporate Changes
Dow Jones	Category	N/CHIN	DJ Chinese Language Code
Dow Jones	Category	N/CHMT	Chinese Market Talk
Dow Jones	Category	N/CHNE	DJ English Language Content on the Chinese Wire
Dow Jones	Category	N/CHNS	DJ Chinese (Simplified) Language Code
Dow Jones	Category	N/CHNT	DJ Chinese (Traditional) Language Code

Dow Jones	Category	N/CHS	Corporate Hedging Strategies
Dow Jones	Category	N/CIR	Citrus
Dow Jones	Category	N/CLG	Colleges & Universities
Dow Jones	Category	N/CMD	Commodities
Dow Jones	Category	N/CMDI	Capital Markets Report in DI
Dow Jones	Category	N/CMEC	CMR Economic News
Dow Jones	Category	N/CMI	Changes to Major Indexes
Dow Jones	Category	N/CMKT	Crude Spot Market Commentary
Dow Jones	Category	N/CMM	Cash Commodity Commentary
Dow Jones	Category	N/CMR	Dow Jones Global FX & Fixed Income News
Dow Jones	Category	N/CMY	Charities, Community & Civic Groups
Dow Jones	Category	N/CNCN	CCN Newswire
Dow Jones	Category	N/CNF	Conferences
Dow Jones	Category	N/CNMT	China Equities Market Talk
Dow Jones	Category	N/CNT	Contests & Awards
Dow Jones	Category	N/CNW	Company News
Dow Jones	Category	N/CO2	Carbon Dioxide
Dow Jones	Category	N/COA	Coal Markets
Dow Jones	Category	N/COB	Corporate Bonds
Dow Jones	Category	N/COC	Cocoa
Dow Jones	Category	N/COF	Corporate Officers
Dow Jones	Category	N/COGV	Corporate Governance

Dow Jones	Category	N/COMP	Executive Compensation & Pay Disclosure
Dow Jones	Category	N/CONS	DJ Chinese Online Service
Dow Jones	Category	N/COP	Currency Options
Dow Jones	Category	N/COR	Corrections
Dow Jones	Category	N/CPE	Copper
Dow Jones	Category	N/CPPI	Commercial Paper
Dow Jones	Category	N/CPRI	Crude Spot Market Prices
Dow Jones	Category	N/CRM	Crime
Dow Jones	Category	N/CRN	Corn
Dow Jones	Category	N/CRX	Corrected Stories
Dow Jones	Category	N/CSU	Consumer Issues
Dow Jones	Category	N/CTA	Corporate Taxation
Dow Jones	Category	N/CTC	Contracts, Nongovernment
Dow Jones	Category	N/CTL	Cattle/Beef
Dow Jones	Category	N/CTN	Cotton
Dow Jones	Category	N/CVD	Covered Bonds
Dow Jones	Category	N/CVT	Convertible Debt Securities
Dow Jones	Category	N/CW	Canada NewsWire
Dow Jones	Category	N/CWA	Compliance Watch
Dow Jones	Category	N/CWSJ	Chinese Language Stories used by CWSJ
Dow Jones	Category	N/DANE	Danish Language releases
Dow Jones	Category	N/DBS	Dow Jones Basic

Dow Jones	Category	N/DDD	DDP News for Dow Jones
Dow Jones	Category	N/DDP	Deutscher Depeschen Dienst
Dow Jones	Category	N/DDPR	PR news from DDP
Dow Jones	Category	N/DDY	Dow Jones Top Stories
Dow Jones	Category	N/DFC	Contracts, Defense
Dow Jones	Category	N/DFF	Debt Futures
Dow Jones	Category	N/DGAP	Third party content from DGAP
Dow Jones	Category	N/DGN	Deregulation
Dow Jones	Category	N/DID	Director Dealings
Dow Jones	Category	N/DIFE	Dubai International Financial Exchange
Dow Jones	Category	N/DIV	Dividend News
Dow Jones	Category	N/DJAE	Asian Equities Wire
Dow Jones	Category	N/DJAG	Dow Jones Agriculture News
Dow Jones	Category	N/DJAN	Dow Jones Australian/New Zealand Report
Dow Jones	Category	N/DJAR	Dow Jones Arabic-Language News
Dow Jones	Category	N/DJBN	Dow Jones Global News Select
Dow Jones	Category	N/DJBO	DJ Bourse Open
Dow Jones	Category	N/DJBP	DJ Bourse Professional
Dow Jones	Category	N/DJBW	Dow Jones Bourse Web Select
Dow Jones	Category	N/DJCB	Dow Jones Corporate Bond Service
Dow Jones	Category	N/DJCD	Dow Jones Calendar Live Data Feed
Dow Jones	Category	N/DJCH	Dow Jones Chinese Language News

Dow Jones	Category	N/DJCS	Dow Jones Commodity Service
Dow Jones	Category	N/DJDA	Dow Jones Nieuwsdienst Advanced
Dow Jones	Category	N/DJDL	Dutch Language Newswire Wireless
Dow Jones	Category	N/DJDP	Dow Jones Nieuwsdienst Particulier
Dow Jones	Category	N/DJDU	Dow Jones Nieuwsdienst Professional
Dow Jones	Category	N/DJDW	Dow Jones Elementized Data Wire
Dow Jones	Category	N/DJEI	Dow Jones European Investment News
Dow Jones	Category	N/DJEN	Dow Jones Equity Investor North America
Dow Jones	Category	N/DJEP	Dow Jones European Premium Investment News
Dow Jones	Category	N/DJEU	Dow Jones Energy Service Subwire Energy Ultralight
Dow Jones	Category	N/DJFA	DJ Bourse USA
Dow Jones	Category	N/DJFB	DJ Bourse Web
Dow Jones	Category	N/DJFI	Dow Jones Fixed-Income Service
Dow Jones	Category	N/DJFN	Dow Jones FX Select
Dow Jones	Category	N/DJFP	Dow Jones Forex Private Investor Wire
Dow Jones	Category	N/DJFR	Dow Jones French Language News
Dow Jones	Category	N/DJFX	Dow Jones Forex and Economic News subset
Dow Jones	Category	N/DJG	Dow Jones Global Markets News
Dow Jones	Category	N/DJG7	G7 Forex Wire
Dow Jones	Category	N/DJGC	Dow Jones Compact
Dow Jones	Category	N/DJGE	Dow Jones German Language Newswire
Dow Jones	Category	N/DJGF	DJ-VWD Flashes

Dow Jones	Category	N/DJGG	Dow Jones Global
Dow Jones	Category	N/DJGP	Dow Jones Global Premium Investment News
Dow Jones	Category	N/DJGS	Global Equities Spotlight
Dow Jones	Category	N/DJGT	Dow Jones Trade
Dow Jones	Category	N/DJGU	Dow Jones Austria
Dow Jones	Category	N/DJGV	Dow Jones Global Investment News
Dow Jones	Category	N/DJGX	Dow Jones FX Select in German
Dow Jones	Category	N/DJGZ	DJ-VWD Metals
Dow Jones	Category	N/DJI	Dow Jones International News Service
Dow Jones	Category	N/DJIB	Dow Jones Investment Banker
Dow Jones	Category	N/DJIN	Dow Jones Commercial Insurance Product
Dow Jones	Category	N/DJIR	Dow Jones South Asia Report
Dow Jones	Category	N/DJIT	MF Dow Jones Professional
Dow Jones	Category	N/DJIV	Off-Trading Floor Investment News
Dow Jones	Category	N/DJJA	Dow Jones Japanese Language Newswire
Dow Jones	Category	N/DJKR	Dow Jones Korean Language Service
Dow Jones	Category	N/DJLA	Dow Jones Americas en Espanol
Dow Jones	Category	N/DJMB	Asian Commentary Service
Dow Jones	Category	N/DJME	Dow Jones Base Metals News
Dow Jones	Category	N/DJMO	Off-Trading Floor Money News
Dow Jones	Category	N/DJMS	Dow Jones Money Spotlight
Dow Jones	Category	N/DJMT	Dow Jones Market Talk

Dow Jones	Category	N/ DJMW	MarketWatch News
Dow Jones	Category	N/DJN	Dow Jones News Service
Dow Jones	Category	N/DJND	Nikkei & Dow Jones Japan Report
Dow Jones	Category	N/DJOS	Dow Jones Content to Oster
Dow Jones	Category	N/DJPB	Dow Jones Portuguese Language Newswire-Brazil Content
Dow Jones	Category	N/DJPF	Dow Jones Personal Finance Product
Dow Jones	Category	N/DJPL	DJ Bolsa
Dow Jones	Category	N/DJPN	Dow Jones Portfolio News
Dow Jones	Category	N/DJPO	Dow Jones Portuguese Language Newswire
Dow Jones	Category	N/DJPT	Off-Trading Floor Portfolio News
Dow Jones	Category	N/DJQA	Dow Jones QA Product Code
Dow Jones	Category	N/DJQB	Dow Jones QB Product Code
Dow Jones	Category	N/DJQS	European Equities Spotlight
Dow Jones	Category	N/DJRT	Dow Jones Equity Trading North America
Dow Jones	Category	N/DJRU	Dow Jones Russian-Language News
Dow Jones	Category	N/DJS	Dow Jones Proprietary Stories
Dow Jones	Category	N/DJS1	Spanish Language Wire Proprietary Subwire
Dow Jones	Category	N/DJSA	EFE Dow Jones Advanced
Dow Jones	Category	N/DJSB	EFE Dow Jones Web
Dow Jones	Category	N/DJSE	EFE Dow Jones Professional
Dow Jones	Category	N/DJSG	Dow Jones Business News Select Global

Dow Jones	Category	N/DJSN	Dow Jones Swaps News
Dow Jones	Category	N/DJSW	Dow Jones Spanish Language News
Dow Jones	Category	N/DJTA	Technical Analysis
Dow Jones	Category	N/DJTT	Dow Jones Testing Wire
Dow Jones	Category	N/DJTU	Dow Jones Turkish Language Newswire
Dow Jones	Category	N/DJWB	Dow Jones Newswires Web Service
Dow Jones	Category	N/DJWI	Dow Jones News Wires
Dow Jones	Category	N/ DJWM	Dow Jones Wealth Manager
Dow Jones	Category	N/DJWR	Dow Jones Wireless Equity News
Dow Jones	Category	N/DJYY	Test Product
Dow Jones	Category	N/DLS	Stock Delistings
Dow Jones	Category	N/DMC	Dutch Market Comment
Dow Jones	Category	N/DN	Dow Jones Content Set DN
Dow Jones	Category	N/DOI	Dow Jones Oil & Gas Service
Dow Jones	Category	N/DOP	Debt Options
Dow Jones	Category	N/DPG	Dow Jones Power & Gas Service
Dow Jones	Category	N/DRV	Derivatives
Dow Jones	Category	N/DRY	Dairy
Dow Jones	Category	N/DSC	Natural Resources Discoveries
Dow Jones	Category	N/DSR	Discount Rate
Dow Jones	Category	N/DTA	Data

Dow Jones	Category	N/DUTB	Neuwsdienst Basic for Telekurs
Dow Jones	Category	N/DUTC	Dutch Language Content
Dow Jones	Category	N/DVT	Divestitures or Asset Sales
Dow Jones	Category	N/DWEB	Dutch Web product
Dow Jones	Category	N/EAH	Stories from News Aktuell
Dow Jones	Category	N/EBD	Eurobonds
Dow Jones	Category	N/EBR	European Bank for Reconstruction & Development (EBRD)
Dow Jones	Category	N/ECB	European Central Bank
Dow Jones	Category	N/ECO	Economic News, U.S.
Dow Jones	Category	N/ECR	Dow Jones European Corporate Report
Dow Jones	Category	N/EDC	Editorials & Columns
Dow Jones	Category	N/EDJ	EFE Dow Jones News
Dow Jones	Category	N/EDR	Energy Derivatives
Dow Jones	Category	N/EDU	Education
Dow Jones	Category	N/EDX	Dow Jones Proprietary Energy Indexes
Dow Jones	Category	N/EEC	European Union Issues & News
Dow Jones	Category	N/EGY	Energy Commentary
Dow Jones	Category	N/EIB	European Investment Bank
Dow Jones	Category	N/EIE	Economic Indicators Eurozone
Dow Jones	Category	N/ELM	Electricity Markets
Dow Jones	Category	N/ELX	Elections, U.S.
Dow Jones	Category	N/EMD	Emerging-Markets Debt

Dow Jones	Category	N/EMI	Economic Indicators, U.S.
Dow Jones	Category	N/EMJ	Economic Indicators (Forecasts & Analyses), U.S.
Dow Jones	Category	N/EMKT	Electricity Spot Market Reports
Dow Jones	Category	N/EMP	Economic/Monetary Policy
Dow Jones	Category	N/EMR	Emerging Markets Report
Dow Jones	Category	N/EMT	Emerging Markets Stories on Newswires
Dow Jones	Category	N/EMU	Euro Zone News & Issues
Dow Jones	Category	N/ENGL	English content on Local Language Newswires
Dow Jones	Category	N/ENTR	Enterprise News
Dow Jones	Category	N/ENV	Environmental News
Dow Jones	Category	N/ENY	Energy
Dow Jones	Category	N/EOT	Executives on Trial
Dow Jones	Category	N/EPL	Education Planning
Dow Jones	Category	N/EPO	Energy Plant Unit Outages
Dow Jones	Category	N/EPR	Dow Jones Proprietary Energy Prices
Dow Jones	Category	N/EPRI	Electricity Spot & Forward Market Prices
Dow Jones	Category	N/EQY	Equities Analysis
Dow Jones	Category	N/ERD	European Regulatory Disclosure News
Dow Jones	Category	N/ERN	Earnings
Dow Jones	Category	N/ERP	Earnings Projections by Companies or Analysts
Dow Jones	Category	N/ERST	Earnings Restatements
Dow Jones	Category	N/EST	Estate Planning

Dow Jones	Category	N/ETF	Exchange-Traded Funds
Dow Jones	Category	N/EUCM	European CMR
Dow Jones	Category	N/EWR	Dow Jones Global FX & Fixed Income News
Dow Jones	Category	N/EXC	Exotic Exchange Commentary
Dow Jones	Category	N/FBR	Fibers
Dow Jones	Category	N/FCG	Food & Cooking
Dow Jones	Category	N/FCTV	Newswires content filtered for Factiva
Dow Jones	Category	N/FDM	Feedmeals
Dow Jones	Category	N/FF	Dow Jones Corporate Filings Alert
Dow Jones	Category	N/FFR	Federal Funds Rate
Dow Jones	Category	N/FIN	Interest Rates, U.S.
Dow Jones	Category	N/FINN	Finnish language releases
Dow Jones	Category	N/FMS	Overseas Pre-Market Summaries
Dow Jones	Category	N/FMT	Fund Markets
Dow Jones	Category	N/FNC	Financing Agreements
Dow Jones	Category	N/FND	Mutual Funds
Dow Jones	Category	N/FNW	Financial News/FinancialNews
Dow Jones	Category	N/FPN	Financial Planning
Dow Jones	Category	N/FR40	DJ Bourse CAC40
Dow Jones	Category	N/FRE	French Language Content
Dow Jones	Category	N/FRN	Franchises
Dow Jones	Category	N/FRP	Federal Reserve Daily Intervention

Dow Jones	Category	N/FRT	Newspapers' Section Fronts
Dow Jones	Category	N/FRU	Fruit
Dow Jones	Category	N/FRX	Foreign Exchange
Dow Jones	Category	N/FSH	Fashion
Dow Jones	Category	N/FST	Forest Products
Dow Jones	Category	N/FTB	Football
Dow Jones	Category	N/FTH	Ratings by Fitch Ratings Inc.
Dow Jones	Category	N/FTZ	Fertilizer
Dow Jones	Category	N/FUP	Chinese Followup
Dow Jones	Category	N/FVA	Forex Volume Analytics
Dow Jones	Category	N/FWA	Fed Watch
Dow Jones	Category	N/FXC	Foreign Exchange Commentary
Dow Jones	Category	N/FXI	Fixed-Income Commentary
Dow Jones	Category	N/FXMT	Foreign Exchange Market Talk
Dow Jones	Category	N/FXT	New York Late Foreign Exchange
Dow Jones	Category	N/FXTR	FX Trader
Dow Jones	Category	N/FXW	Dow Jones Global FX & Fixed Income News
Dow Jones	Category	N/G10	Group of 10
Dow Jones	Category	N/G20	Group of 20
Dow Jones	Category	N/GCD	Corporate Disclosure-German Language Wire
Dow Jones	Category	N/GEN	General News
Dow Jones	Category	N/GENI	Global Economic News & Indicators

Dow Jones	Category	N/GERM	German Language Content
Dow Jones	Category	N/GFI	Government Filings
Dow Jones	Category	N/GG8	Group of Eight
Dow Jones	Category	N/GGG	Group of Seven (G-7)
Dow Jones	Category	N/GIV	Charitable Giving
Dow Jones	Category	N/GLF	Golf
Dow Jones	Category	N/GMG	Middle Management
Dow Jones	Category	N/GMO	German Mobile News
Dow Jones	Category	N/GNW	Non-Internet German Content
Dow Jones	Category	N/GPC	Gold Prices & Commentary
Dow Jones	Category	N/GPRW	Dow Jones Global Press Release Wire
Dow Jones	Category	N/GPS	Getting Personal
Dow Jones	Category	N/GRN	Grains
Dow Jones	Category	N/GVC	Contracts, Government (not defense)
Dow Jones	Category	N/HCP	Health-Care Policy & Issues
Dow Jones	Category	N/HED	Media Pickups
Dow Jones	Category	N/HGF	Hedge Fund News
Dow Jones	Category	N/HGN	Hugin
Dow Jones	Category	N/HGS	Hogs/Pigs/Pork
Dow Jones	Category	N/HIY	High-Yield Issuers
Dow Jones	Category	N/HKMT	Hong Kong Equities Market Talk
Dow Jones	Category	N/HKY	Hockey

Dow Jones	Category	N/HLT	Health
Dow Jones	Category	N/HOH	News Highlights
Dow Jones	Category	N/HOL	Holiday Items
Dow Jones	Category	N/HOT	Hot News
Dow Jones	Category	N/HRD	Heard on the Street
Dow Jones	Category	N/HTX	HighText
Dow Jones	Category	N/IAD	Inter-American Development Bank (IADB)
Dow Jones	Category	N/IAE	International Atomic Energy Agency (IAEA)
Dow Jones	Category	N/IBO	International Bonds
Dow Jones	Category	N/ICEL	Icelandic language releases
Dow Jones	Category	N/ICM	International Credit Markets
Dow Jones	Category	N/IEI	Economic Indicators, International
Dow Jones	Category	N/IEJ	Economic Indicators (Forecasts & Analyses), International
Dow Jones	Category	N/IEN	Economic News, International
Dow Jones	Category	N/IFX	Intraday Forex
Dow Jones	Category	N/IGR	Investment Grade Debt
Dow Jones	Category	N/IID	Investment Ideas
Dow Jones	Category	N/IINT	Italian Language Newswire-International
Dow Jones	Category	N/IMF	International Monetary Fund (IMF)
Dow Jones	Category	N/INI	Initial Public Offerings
Dow Jones	Category	N/INMT	India Equities Market Talk
Dow Jones	Category	N/IOR	Iron Ore

Dow Jones	Category	N/IOV	Industry Overview
Dow Jones	Category	N/IPR	International Petroleum Report
Dow Jones	Category	N/IRW	IRWorld
Dow Jones	Category	N/ISB	Insider Stock Buys
Dow Jones	Category	N/ISD	Insider Trading
Dow Jones	Category	N/ISL	Islamic Finance
Dow Jones	Category	N/ISS	Insider Stock Sells
Dow Jones	Category	N/ITAL	Italian Language Content
Dow Jones	Category	N/ITNS	Italian Language Newswire-Italia
Dow Jones	Category	N/ITP	Information Technology Policy & Issues
Dow Jones	Category	N/ITX	Income Tax (Corporate & Personal)
Dow Jones	Category	N/JAPN	DJ Japanese Language Code
Dow Jones	Category	N/JBIC	Japan Bank for International Cooperation
Dow Jones	Category	N/JCER	DJ China Equities Report
Dow Jones	Category	N/JDRV	DJ Japan Money Report
Dow Jones	Category	N/JEER	DJ European Equities Report Japanese
Dow Jones	Category	N/JEQU	DJ Global Equities Report Japanese
Dow Jones	Category	N/JEQW	Japanese Global Equities Report Select
Dow Jones	Category	N/JIE	Stories from wsj.com
Dow Jones	Category	N/JIER	DJ India Equities Report
Dow Jones	Category	N/JMKC	Japanese World Markets Roundup Commentary
Dow Jones	Category	N/JNL	Wall Street Journal (domestic) on Newswires

Dow Jones	Category	N/JPMT	Japan Equities Market Talk
Dow Jones	Category	N/JVN	Joint Ventures
Dow Jones	Category	N/JWFX	Japanese World Markets Roundup FX News
Dow Jones	Category	N/ JWMR	DJ World Markets Roundup Japanese
Dow Jones	Category	N/JWSK	Japanese World Markets Roundup Stock News
Dow Jones	Category	N/KRN	DJ Korean Language Code
Dow Jones	Category	N/KRNE	DJ English Language Content on the Korean Wire
Dow Jones	Category	N/LAB	Labor Issues
Dow Jones	Category	N/LAL	Latest Analysis
Dow Jones	Category	N/LBO	Leveraged Buyouts
Dow Jones	Category	N/LED	Lead
Dow Jones	Category	N/LEN	Law Enforcement
Dow Jones	Category	N/LET	Letters to the Editor
Dow Jones	Category	N/LIC	Licensing Agreements
Dow Jones	Category	N/LIF	Lifestyles
Dow Jones	Category	N/LIO	London Interbank Offered Rate (LIBOR)
Dow Jones	Category	N/LIQ	Liquidation
Dow Jones	Category	N/LL	Dow Jones Content Set LL
Dow Jones	Category	N/LNG	Liquefied Natural Gas
Dow Jones	Category	N/LTAM	Latin America Service
Dow Jones	Category	N/LTI	Latest Trading Ideas

Dow Jones	Category	N/LWS	Lawsuits
Dow Jones	Category	N/LYO	Layoffs
Dow Jones	Category	N/MAC	M&A Changes in Terms
Dow Jones	Category	N/ MADN	Multi-asset Trading Product Services on Newswires
Dow Jones	Category	N/MASN	Multi-asset Trading Product Services on secondary Newswires
Dow Jones	Category	N/MBK	Mortgage Banking
Dow Jones	Category	N/MBS	Mortgage-Backed Securities
Dow Jones	Category	N/MCOX	Ratings by Moody's Corp.
Dow Jones	Category	N/MET	Base Metals
Dow Jones	Category	N/MFO	Money/Forex Markets
Dow Jones	Category	N/MIN	MINOR METALS
Dow Jones	Category	N/MKB	Market Beat
Dow Jones	Category	N/MKC	Closing Market Commentary
Dow Jones	Category	N/MKO	Market Opening
Dow Jones	Category	N/MKT	Market News
Dow Jones	Category	N/ MKTW	MarketWire
Dow Jones	Category	N/ MKWH	MarketWatch Stories on Newswires
Dow Jones	Category	N/MLT	Military Action
Dow Jones	Category	N/MMM	Major Market Movers
Dow Jones	Category	N/MNT	Management Issues

Dow Jones	Category	N/MNY	Money Analysis
Dow Jones	Category	N/MOL	Molybdenum
Dow Jones	Category	N/MON	Money Market News
Dow Jones	Category	N/MOR	Mortgages
Dow Jones	Category	N/MRK	Marketing
Dow Jones	Category	N/MRP	Dow Jones MarketBeat
Dow Jones	Category	N/MSH	Market Share
Dow Jones	Category	N/MSM	Main Stock Market Commentary
Dow Jones	Category	N/MSN	Mediensohn
Dow Jones	Category	N/MST	Morningstar
Dow Jones	Category	N/MTA	Money Talks
Dow Jones	Category	N/MTG	Annual Meetings
Dow Jones	Category	N/MUN	Municipal Bonds
Dow Jones	Category	N/MWJ	Market Moving News from The Wall Street Journal
Dow Jones	Category	N/ MYMT	Malaysia Equities Market Talk
Dow Jones	Category	N/NACM	North American CMR
Dow Jones	Category	N/NAK	3rd Party content from NewsAktuell for the German Service
Dow Jones	Category	N/NCK	Nickel
Dow Jones	Category	N/NDQ	NASDAQ Stock Commentary
Dow Jones	Category	N/NDX	Indexes
Dow Jones	Category	N/NENG	Non-English Language Content

Dow Jones	Category	N/NET	Internet
Dow Jones	Category	N/NGS	Natural Gas
Dow Jones	Category	N/NIK	Nikkei News Service
Dow Jones	Category	N/NJR	Nikkei Dow Jones Japan Report
Dow Jones	Category	N/NKR	Nikkei Reports
Dow Jones	Category	N/NMKT	Natural Gas Spot Market Reports
Dow Jones	Category	N/NMX	Nymex
Dow Jones	Category	N/NORA	Non-regulatory announcements
Dow Jones	Category	N/ NORW	Norwegian Language
Dow Jones	Category	N/NPL	DJ PIR Profiles
Dow Jones	Category	N/NPRI	Natural Gas Spot Market Prices
Dow Jones	Category	N/NRG	Dow Jones Energy Service
Dow Jones	Category	N/ NTAKE	Non-primary take of story
Dow Jones	Category	N/NTO	North Atlantic Treaty Organization (NATO)
Dow Jones	Category	N/NUK	Nuclear Power, Energy
Dow Jones	Category	N/NUT	Nuts
Dow Jones	Category	N/NWS	Major News Events
Dow Jones	Category	N/NYH	Hot Stocks
Dow Jones	Category	N/NYS	New York Stock Market Commentary
Dow Jones	Category	N/NZMT	New Zealand Equities Market Talk
Dow Jones	Category	N/OBT	Obituaries

Dow Jones	Category	N/OCD	Organization for Economic Co-Operation & Development (OECD)
Dow Jones	Category	N/OLY	Olympics
Dow Jones	Category	N/OPC	Organization of Petroleum Exporting Countries (OPEC)
Dow Jones	Category	N/ORI	All Original Filings
Dow Jones	Category	N/OSAG	Dow Jones AgriWire
Dow Jones	Category	N/OSCM	ODJ Commodity Package
Dow Jones	Category	N/OSD	Oilseeds
Dow Jones	Category	N/OSEN	ODJ Energy Package
Dow Jones	Category	N/OSFF	ODJ Mini-Financials Futures Package
Dow Jones	Category	N/OSFR	ODJ Financial Futures Package
Dow Jones	Category	N/OSME	Dow Jones MetalsWire
Dow Jones	Category	N/OSOV	ODJ Overview Package
Dow Jones	Category	N/OSTR	Dow Jones Commodities Basic
Dow Jones	Category	N/OWN	Stock Ownership
Dow Jones	Category	N/PAG	Front Page Stories
Dow Jones	Category	N/PAN	Panda Bonds
Dow Jones	Category	N/PAP	Products-Regulatory Approval
Dow Jones	Category	N/PAT	Patents
Dow Jones	Category	N/PB	Dow Jones Content Set PB
Dow Jones	Category	N/PBOC	Peoples Bank of China
Dow Jones	Category	N/PBP	Public-Policy & Regulatory Issues

Dow Jones	Category	N/PCA	Partnerships/Contracts/Business Alliances
Dow Jones	Category	N/PCM	Proprietary Commodities Prices
Dow Jones	Category	N/PCS	Precious Metals News
Dow Jones	Category	N/PDS	Product Distribution
Dow Jones	Category	N/PDT	New Products & Services
Dow Jones	Category	N/PEC	Private Companies
Dow Jones	Category	N/PEN	Pension Funds
Dow Jones	Category	N/PER	Personnel Appointments
Dow Jones	Category	N/PERS	Farsi/Persian language code
Dow Jones	Category	N/PET	Crude Oil & Petroleum Products
Dow Jones	Category	N/PFIS	FIS Premium Content
Dow Jones	Category	N/PFN	Personal Finance
Dow Jones	Category	N/PIM	CNN Matthews
Dow Jones	Category	N/PIR	Dow Jones Professional Investor Report
Dow Jones	Category	N/PLM	Platinum Group
Dow Jones	Category	N/PLT	Politics
Dow Jones	Category	N/PMT	Practice Management
Dow Jones	Category	N/PMZN	GlobeNewswire
Dow Jones	Category	N/PORT	Portuguese Language Content
Dow Jones	Category	N/POV	Point of View
Dow Jones	Category	N/PPR	Pulp & Paper
Dow Jones	Category	N/PR	PR Newswire

Dow Jones	Category	N/PRC	Pricing of Products & Services
Dow Jones	Category	N/PRD	Oil & Natural Gas Production
Dow Jones	Category	N/PREL	Press Release Wires
Dow Jones	Category	N/PRL	Press Releases on Newswires
Dow Jones	Category	N/PRO	Profiles of Companies
Dow Jones	Category	N/PRSS	Presscut
Dow Jones	Category	N/PRT	Prime Rate
Dow Jones	Category	N/PRU	PRN Corporate Disclosure
Dow Jones	Category	N/PRX	Proxy Filings
Dow Jones	Category	N/PSTA	Pressetext Deutschland
Dow Jones	Category	N/PTA	Potatoes
Dow Jones	Category	N/PTAS	Primetass Content
Dow Jones	Category	N/PTR	Poultry/Eggs
Dow Jones	Category	N/PVT	Private Placements
Dow Jones	Category	N/PVW	EARNINGS PREVIEW
Dow Jones	Category	N/PZN	Privatizations
Dow Jones	Category	N/QDR	Equity Derivatives
Dow Jones	Category	N/RBR	Rubber
Dow Jones	Category	N/RCE	Rice
Dow Jones	Category	N/RCN	Corporate Restructurings
Dow Jones	Category	N/RCZ	Recapitalization
Dow Jones	Category	N/REF	Refinery Outages

Dow Jones	Category	N/REG	Bond & Stock Registrations
Dow Jones	Category	N/RER	Rare Earth Minerals
Dow Jones	Category	N/RET	Retirement Planning
Dow Jones	Category	N/RGU	Securities Regulations
Dow Jones	Category	N/RLE	Real-Estate Transactions
Dow Jones	Category	N/RLG	Religion
Dow Jones	Category	N/RMKT	Refined Products Spot Market Commentary
Dow Jones	Category	N/RNCA	Regulatory News Company Appointments, Directors & Meetings
Dow Jones	Category	N/RND	Research & Development
Dow Jones	Category	N/RNDC	Regulatory News Documents & Circulars
Dow Jones	Category	N/RNDU	Regulatory News Deals, Transactions & Operational Updates
Dow Jones	Category	N/RNEQ	Regulatory News Equity, Debt & Investment Trusts
Dow Jones	Category	N/RNFS	Regulatory News Financial Statements, Dividends & Corp Actions
Dow Jones	Category	N/RNIR	Regulatory News Interim Reports
Dow Jones	Category	N/RNMA	Regulatory News Market, RNS & Related Announcements
Dow Jones	Category	N/RNNR	Regulatory News Non Regulatory Announcements
Dow Jones	Category	N/RNOA	Regulatory News Other Statements & Announcements
Dow Jones	Category	N/RNOF	Regulatory News Offers
Dow Jones	Category	N/RNOR	Regulatory News Other Requirements
Dow Jones	Category	N/RNOT	Regulatory News Ownership Thresholds

Dow Jones	Category	N/RNS	RNS Content
Dow Jones	Category	N/RNSD	Regulatory News Shareholder & POTAM Disclosures
Dow Jones	Category	N/RNW	Renewables
Dow Jones	Category	N/RNWS	UK Corporate Disclosure
Dow Jones	Category	N/RPRI	Refined Products Spot Market Prices
Dow Jones	Category	N/RPT	Special Reports
Dow Jones	Category	N/RSFX	Dow Jones FX Select in Russian
Dow Jones	Category	N/RSP	Reverse Stock Splits
Dow Jones	Category	N/RSTK	DJ Stocks Russian
Dow Jones	Category	N/RTG	Bond Ratings & Comments
Dow Jones	Category	N/RUBL	Generic SmartCoding blocking code
Dow Jones	Category	N/RUSS	Russian Language Service
Dow Jones	Category	N/RVW	Reviews (Book, Movie, Art, Restaurant, Etc.)
Dow Jones	Category	N/SCD	Soft Commodities
Dow Jones	Category	N/SCN	Science & Technology
Dow Jones	Category	N/SDP	Ratings by Standard & Poor's Corp.
Dow Jones	Category	N/SDR	Sovereign Debt Derivatives
Dow Jones	Category	N/SDT	Sovereign Debt
Dow Jones	Category	N/SGMT	Singapore Equities Market Talk
Dow Jones	Category	N/SGR	Sugar
Dow Jones	Category	N/SHC	Share Capital
Dow Jones	Category	N/SHO	Short Interest Sales

Dow Jones	Category	N/SIF	Stock Index Futures
Dow Jones	Category	N/SKD	Scheduled Events
Dow Jones	Category	N/SKP	Stock Pricings
Dow Jones	Category	N/SLS	Sales Figures
Dow Jones	Category	N/SMB	Samurai Bonds
Dow Jones	Category	N/SMC	Stock Market Commentary
Dow Jones	Category	N/SME	Street Moves
Dow Jones	Category	N/SML	Small Business & Entrepreneurs
Dow Jones	Category	N/SMS	DJ Chinese Short-Message-Service
Dow Jones	Category	N/SN	Dow Jones Content Set SN
Dow Jones	Category	N/SNEW	Spot News
Dow Jones	Category	N/SNPR	Spot News
Dow Jones	Category	N/SOC	Soccer
Dow Jones	Category	N/SOP	Stock Options
Dow Jones	Category	N/SPAN	Spanish Language Content
Dow Jones	Category	N/SPC	Spices
Dow Jones	Category	N/SPL	Stock Splits
Dow Jones	Category	N/SPN	Spinoffs
Dow Jones	Category	N/SPO	Sports
Dow Jones	Category	N/SPT	Sports & Recreation
Dow Jones	Category	N/SRG	Shelf Registrations
Dow Jones	Category	N/SRP	Shareholder Rights Plans

Dow Jones	Category	N/SSEL	Short Selling Regulation
Dow Jones	Category	N/SSM	Taking Stock
Dow Jones	Category	N/STAL	Strategic Alternatives
Dow Jones	Category	N/STC	Steel
Dow Jones	Category	N/STG	Strategic Metals
Dow Jones	Category	N/STK	Stock Market News
Dow Jones	Category	N/STO	Special Market Commentary
Dow Jones	Category	N/STR	Stock Trading Disruptions
Dow Jones	Category	N/STX	Sales Tax (includes VAT)
Dow Jones	Category	N/SUB	Sub-Prime Loans
Dow Jones	Category	N/SUK	Sukuk Debt
Dow Jones	Category	N/SUM	News Summaries
Dow Jones	Category	N/SVR	Silver
Dow Jones	Category	N/SWED	Swedish language releases
Dow Jones	Category	N/SWF	Sovereign Wealth Fund
Dow Jones	Category	N/SWP	Swaps
Dow Jones	Category	N/SXMT	Spanish FX Market Talk Content
Dow Jones	Category	N/T10	Top 10 Stories on Dow Jones Australia New Zealand Report
Dow Jones	Category	N/TAB	Tabular Material
Dow Jones	Category	N/TAX	Taxes
Dow Jones	Category	N/TDS	Trade Shows
Dow Jones	Category	N/TEA	Tea

Dow Jones	Category	N/TER	Terrorism
Dow Jones	Category	N/TES	Test Message
Dow Jones	Category	N/TFL	Trade Flows in the Foreign Exchange and Fixed Income Markets
Dow Jones	Category	N/THUB	Chinese Tech Hub
Dow Jones	Category	N/TIKR	DJ Chinese Ticker Wire (U.S.)
Dow Jones	Category	N/TIN	Tin
Dow Jones	Category	N/TLK	Talk Back
Dow Jones	Category	N/TNM	Acquisitions, Mergers, Takeovers
Dow Jones	Category	N/TNS	Tennis
Dow Jones	Category	N/TNW	Today's Top Wire News
Dow Jones	Category	N/TOP1	Top 1 story on Chinese FX/FI
Dow Jones	Category	N/TOP2	Top 2 story on Chinese FX/FI
Dow Jones	Category	N/TOP3	Top 3 story on Chinese FX/FI
Dow Jones	Category	N/TOP4	Top 4 story on Chinese FX/FI
Dow Jones	Category	N/TOP5	Top 5 story on Chinese FX/FI
Dow Jones	Category	N/TOP6	Top 6 story on Chinese FX/FI
Dow Jones	Category	N/TOP7	Top 7 story on Chinese FX/FI
Dow Jones	Category	N/TOP8	Top 8 story on Chinese FX/FI
Dow Jones	Category	N/TOR	Canadian Stock Market Commentary
Dow Jones	Category	N/TOT	Tales of the Tape
Dow Jones	Category	N/TPC	Treasury Bond Prices & Commentary

Dow Jones	Category	N/TPCT	Third-Party Content
Dow Jones	Category	N/TRD	Trade Issues
Dow Jones	Category	N/TRDC	Trading Central Charts from Dow Jones
Dow Jones	Category	N/TRG	Trade Groups
Dow Jones	Category	N/TRH	Stock Trading Halts
Dow Jones	Category	N/TRR	Stock Trading Resumptions
Dow Jones	Category	N/TSG	Technically Speaking
Dow Jones	Category	N/TSGE	Dow Jones Top Stories Global Equities
Dow Jones	Category	N/TSH	Dow Jones Tip Sheet
Dow Jones	Category	N/TSP	Transportation
Dow Jones	Category	N/TSR	Tax Strategies
Dow Jones	Category	N/TST	Antitrust News
Dow Jones	Category	N/TSY	Treasury News Service
Dow Jones	Category	N/TTN	Today's Top Energy News
Dow Jones	Category	N/TURK	Turkish language code
Dow Jones	Category	N/TVL	Travel
Dow Jones	Category	N/ TWMT	Taiwan Equities Market Talk
Dow Jones	Category	N/UDY	Top UK Stories
Dow Jones	Category	N/UKMR	U.K. Market Report
Dow Jones	Category	N/UNN	United Nations
Dow Jones	Category	N/USM1	one of three codes for Chinese U.S. Pre-Market Summaries

Dow Jones	Category	N/USM2	one of three codes for Chinese U.S. Pre-Market Summaries
Dow Jones	Category	N/USM3	one of three codes for Chinese U.S. Pre-Market Summaries
Dow Jones	Category	N/VCF	Venture Capital Financing
Dow Jones	Category	N/VEG	Vegetables
Dow Jones	Category	N/VGO	Vegetable Oils
Dow Jones	Category	N/VWD	MDPS
Dow Jones	Category	N/WAA	Wall Street Journal (Asia) Stories filed direct to Newswires
Dow Jones	Category	N/WAE	Wall Street Journal (Europe) Stories filed direct to Newswires
Dow Jones	Category	N/WAER	AER and ECR content to wsj.com
Dow Jones	Category	N/WAL	Wall Street Journal (domestic) stories filed direct to Newswires
Dow Jones	Category	N/WAR	Warrants
Dow Jones	Category	N/WED	Dow Jones Global Equities News
Dow Jones	Category	N/WEI	Dow Jones Total Market Index component
Dow Jones	Category	N/WER	Dow Jones Global Equities News
Dow Jones	Category	N/WFM	Weather from Meteorlogix
Dow Jones	Category	N/WHT	Wheat
Dow Jones	Category	N/WJE	Wall Street Journal (Europe) on Newswires
Dow Jones	Category	N/WJO	wsj.com content
Dow Jones	Category	N/WKA	Week Ahead Outlooks
Dow Jones	Category	N/WLB	World Bank
Dow Jones	Category	N/WLS	Wall Street Journal (all) on Newswires

Dow Jones	Category	N/WMJ	Wealth Management Journal
Dow Jones	Category	N/WOL	Wool
Dow Jones	Category	N/WPR	WebitPR.com
Dow Jones	Category	N/WSJ	The Wall Street Journal
Dow Jones	Category	N/WSJC	Newswires content filtered for wsj.com
Dow Jones	Category	N/WSJE	The Wall Street Journal Europe
Dow Jones	Category	N/WSJS	Wall Street Journal (Sunday)
Dow Jones	Category	N/WSR	World Stock Roundup
Dow Jones	Category	N/WSV	Washington Service on DJNS
Dow Jones	Category	N/WITH	Weather & Natural Disasters
Dow Jones	Category	N/WTOT	World Trade Organization
Dow Jones	Category	N/XCH	Exchanges
Dow Jones	Category	N/XDR	Forex Derivatives
Dow Jones	Category	N/XSFX	Exclusive Spanish Foreign Exchange Content
Dow Jones	Category	N/ZDJ	Zawya Dow Jones News
Dow Jones	Category	N/ZNC	Zinc
Dow Jones	Category	N/ZYX	Press Release Duplicates
Dow Jones	Branch	I/ADV	Media Agencies
Dow Jones	Branch	I/AFL	Alternative Fuels
Dow Jones	Branch	I/AIF	Delivery Services
Dow Jones	Branch	I/AIR	Airlines
Dow Jones	Branch	I/ALC	Alternative Electricity

Dow Jones	Branch	I/ALU	Aluminum
Dow Jones	Branch	I/AMG	Asset Managers
Dow Jones	Branch	I/ARO	Aerospace & Defense
Dow Jones	Branch	I/ASP	Aerospace
Dow Jones	Branch	I/AUDJP	AUD/JPY currency pair
Dow Jones	Branch	I/AUDUS	AUD/USD currency pair
Dow Jones	Branch	I/AUT	Automobiles
Dow Jones	Branch	I/BAN	Banks-Major International
Dow Jones	Branch	I/BLD	Building Materials & Fixtures
Dow Jones	Branch	I/BNK	Banks-All
Dow Jones	Branch	I/BRD	Broadcasting & Entertainment
Dow Jones	Branch	I/BTC	Biotechnology
Dow Jones	Branch	I/BVG	Beverages-All
Dow Jones	Branch	I/CEF	Closed End Funds
Dow Jones	Branch	I/CFN	Consumer Finance
Dow Jones	Branch	I/CHC	Commodity Chemicals
Dow Jones	Branch	I/CHM	Chemicals-All
Dow Jones	Branch	I/CHS	Specialty Chemicals
Dow Jones	Branch	I/CLO	Clothing & Accessories
Dow Jones	Branch	I/CMT	Telecommunications Equipment
Dow Jones	Branch	I/CNO	Gambling
Dow Jones	Branch	I/COA	Coal

Dow Jones	Branch	I/CON	Heavy Construction
Dow Jones	Branch	I/COS	Personal Products
Dow Jones	Branch	I/CPR	Computer Hardware
Dow Jones	Branch	I/CSE	Consumer Electronics
Dow Jones	Branch	I/CSV	Specialized Consumer Services
Dow Jones	Branch	I/CTR	Containers & Packaging
Dow Jones	Branch	I/CTS	Mobile Telecommunications
Dow Jones	Branch	I/DFN	Defense
Dow Jones	Branch	I/DIA	Diamonds & Gemstones
Dow Jones	Branch	I/DIB	Industrial Suppliers
Dow Jones	Branch	I/DRG	Pharmaceuticals
Dow Jones	Branch	I/DRL	Oil Drilling
Dow Jones	Branch	I/DST	Brewers
Dow Jones	Branch	I/EAG	Business Training & Employment Agencies
Dow Jones	Branch	I/ELC	Conventional Electricity
Dow Jones	Branch	I/ELQ	Electronic Components & Equipment
Dow Jones	Branch	I/ENR	Engineering Contractors
Dow Jones	Branch	I/ENT	Entertainment & Leisure-All
Dow Jones	Branch	I/EQS	Oil Field Equipment & Services-Other
Dow Jones	Branch	I/EURAU	EUR/AUD currency pair
Dow Jones	Branch	I/EURCA	EUR/CAD currency pair
Dow Jones	Branch	I/EURCH	EUR/CHF currency pair

Dow Jones	Branch	I/EURCZ	EUR/CZK currency pair
Dow Jones	Branch	I/EURGB	EUR/GBP currency pair
Dow Jones	Branch	I/EURHU	EUR/HUF currency pair
Dow Jones	Branch	I/EURJP	EUR/JPY currency pair
Dow Jones	Branch	I/EURNO	EUR/NOK currency pair
Dow Jones	Branch	I/EURPL	EUR/PLN currency pair
Dow Jones	Branch	I/EURRU	EUR/RUB currency pair
Dow Jones	Branch	I/EURSE	EUR/SEK currency pair
Dow Jones	Branch	I/EURUS	EUR/USD currency pair
Dow Jones	Branch	I/EXT	Exchange Traded Funds
Dow Jones	Branch	I/FAC	Industrial Machinery
Dow Jones	Branch	I/FAD	Financial Administration
Dow Jones	Branch	I/FDR	Food Retailers & Wholesalers
Dow Jones	Branch	I/FIS	Specialty Finance
Dow Jones	Branch	I/FOD	Food-All
Dow Jones	Branch	I/FOR	Forestry
Dow Jones	Branch	I/FOT	Footwear
Dow Jones	Branch	I/FTR	Furnishings
Dow Jones	Branch	I/FTS	Fixed Line Telecommunications
Dow Jones	Branch	I/GAS	Gas Distribution
Dow Jones	Branch	I/GBPUS	GBP/USD currency pair
Dow Jones	Branch	I/GLD	Gold Mining

Dow Jones	Branch	I/HEA	Health Care Providers
Dow Jones	Branch	I/HIM	Home Improvement Retailers
Dow Jones	Branch	I/HOM	Home Construction
Dow Jones	Branch	I/HPD	Durable Household Products
Dow Jones	Branch	I/HPN	Nondurable Household Products
Dow Jones	Branch	I/HPR	Consumer & Household Products-Only
Dow Jones	Branch	I/IAS	Information & Online Services
Dow Jones	Branch	I/ICS	Business Support Services
Dow Jones	Branch	I/IDD	Diversified Industrials
Dow Jones	Branch	I/INB	Insurance Brokers
Dow Jones	Branch	I/INF	Full Line Insurance
Dow Jones	Branch	I/INL	Life Insurance
Dow Jones	Branch	I/INP	Property & Casualty Insurance
Dow Jones	Branch	I/INS	Insurance-All
Dow Jones	Branch	I/INU	Reinsurance
Dow Jones	Branch	I/ISV	Internet
Dow Jones	Branch	I/ITC	Electronic Equipment
Dow Jones	Branch	I/LOD	Hotels
Dow Jones	Branch	I/LTBC	Latin America Blue Chips
Dow Jones	Branch	I/MAR	Marine Transportation
Dow Jones	Branch	I/MDS	Medical Supplies
Dow Jones	Branch	I/MDV	Medical Equipment

Dow Jones	Branch	I/MED	Media-All
Dow Jones	Branch	I/MFN	Mortgage Finance
Dow Jones	Branch	I/MNG	General Mining
Dow Jones	Branch	I/MOV	Film, Television & Music Production
Dow Jones	Branch	I/MUT	Multi-utilities
Dow Jones	Branch	I/NZDUS	NZD/USD currency pair
Dow Jones	Branch	I/OFF	Electronic Office Equipment
Dow Jones	Branch	I/OFI	Food Products
Dow Jones	Branch	I/OIE	Oil Field Equipment & Services-All
Dow Jones	Branch	I/OIL	Integrated Oil & Gas
Dow Jones	Branch	I/OIS	Exploration & Production
Dow Jones	Branch	I/ONF	Nonferrous Metals
Dow Jones	Branch	I/OTA	Auto Parts
Dow Jones	Branch	I/OTS	Specialty Retailers
Dow Jones	Branch	I/PAP	Paper
Dow Jones	Branch	I/PCS	Precious Metals
Dow Jones	Branch	I/PIP	Pipelines
Dow Jones	Branch	I/PLN	Farming & Fishing
Dow Jones	Branch	I/POL	Waste & Disposal Services
Dow Jones	Branch	I/PPM	Platinum & Precious Metals
Dow Jones	Branch	I/PUB	Publishers
Dow Jones	Branch	I/RAI	Railroads

Dow Jones	Branch	I/RCS	Recreational Services
Dow Jones	Branch	I/RDT	Residential REITs
Dow Jones	Branch	I/RDV	Diversified REITs
Dow Jones	Branch	I/REA	Real Estate Investment
Dow Jones	Branch	I/RED	Real Estate Holding & Development
Dow Jones	Branch	I/REE	Renewable Energy Equipment
Dow Jones	Branch	I/REI	Real Estate Investment Trusts
Dow Jones	Branch	I/REQ	Recreational Products
Dow Jones	Branch	I/RES	Restaurants & Bars
Dow Jones	Branch	I/RHO	Hotel & Lodging REITs
Dow Jones	Branch	I/RMT	Mortgage REITs
Dow Jones	Branch	I/ROF	Industrial & Office REITs
Dow Jones	Branch	I/RRT	Retail REITs
Dow Jones	Branch	I/RSS	Real Estate Services
Dow Jones	Branch	I/RSY	Specialty REITs
Dow Jones	Branch	I/RTB	Retailers-Broadline
Dow Jones	Branch	I/RTD	Drug Retailers
Dow Jones	Branch	I/RTS	Retailers-Specialty
Dow Jones	Branch	I/SAL	Savings & Loans
Dow Jones	Branch	I/SAP	Retailers-Apparel
Dow Jones	Branch	I/SCR	Investment Services
Dow Jones	Branch	I/SEM	Semiconductors

Dow Jones	Branch	I/SFT	Soft Drinks
Dow Jones	Branch	I/SGD	Sporting Goods
Dow Jones	Branch	I/SOF	Software
Dow Jones	Branch	I/STL	Iron & Steel
Dow Jones	Branch	I/SVC	Industrial & Commercial Services-All
Dow Jones	Branch	I/TAT	Travel & Tourism
Dow Jones	Branch	I/TEX	Textiles & Apparel-All
Dow Jones	Branch	I/TIR	Tires
Dow Jones	Branch	I/TLS	Telephone Systems-All
Dow Jones	Branch	I/TMF	Toys
Dow Jones	Branch	I/TOB	Tobacco
Dow Jones	Branch	I/TRK	Trucking
Dow Jones	Branch	I/TRQ	Transportation Equipment
Dow Jones	Branch	I/TRS	Transportation Services
Dow Jones	Branch	I/TSX	Computer Services
Dow Jones	Branch	I/UKSC	UK Smallcap
Dow Jones	Branch	I/USDBR	USD/BRL currency pair
Dow Jones	Branch	I/USDCA	USD/CAD currency pair
Dow Jones	Branch	I/ USDCH	USD/CHF currency pair
Dow Jones	Branch	I/USDCL	USD/CLP currency pair
Dow Jones	Branch	I/ USDCN	USD/CNY currency pair

Dow Jones	Branch	I/ USDHK	USD/HKD currency pair
Dow Jones	Branch	I/USDIN	USD/INR currency pair
Dow Jones	Branch	I/USDJP	USD/JPY currency pair
Dow Jones	Branch	I/USDKR	USD/KRW currency pair
Dow Jones	Branch	I/ USDMX	USD/MXN currency pair
Dow Jones	Branch	I/USDRU	USD/RUB currency pair
Dow Jones	Branch	I/USDSG	USD/SGD currency pair
Dow Jones	Branch	I/USDTH	USD/THB currency pair
Dow Jones	Branch	I/USDTR	USD/TRY currency pair
Dow Jones	Branch	I/USDZA	USD/ZAR currency pair
Dow Jones	Branch	I/VIN	Distillers & Vintners
Dow Jones	Branch	I/WAT	Water
Dow Jones	Branch	I/X225	Nikkei 225 Components
Dow Jones	Branch	I/XAEX	AEX Index Components
Dow Jones	Branch	I/XAPT	DJ Automobiles & Parts Titans 30 Index
Dow Jones	Branch	I/XATI	Dow Jones Asian Titans Index Components
Dow Jones	Branch	I/XATX	ATX Components
Dow Jones	Branch	I/XB20	Bel20 Components
Dow Jones	Branch	I/XBAT	DJ Banks Titans 30 Index
Dow Jones	Branch	I/XBRT	DJ Basic Resources Titans 30 Index
Dow Jones	Branch	I/XCA4	CAC 40 Components

Dow Jones	Branch	I/XCET	DJ Chemicals Titans 30 Index
Dow Jones	Branch	I/XCMT	DJ Construction & Materials Titans 30 Index
Dow Jones	Branch	I/XCSI	CSI 300 Index (China)
Dow Jones	Branch	I/XDAX	XETRA DAX Components
Dow Jones	Branch	I/XDJAT	DJ Arabia Titans 50 Index with Saudi
Dow Jones	Branch	I/XDJGI	Dow Jones Global Index Components
Dow Jones	Branch	I/XDJI	Dow Jones Industrial Average Components
Dow Jones	Branch	I/XDJLA	DJ Latin America Large-Cap Index
Dow Jones	Branch	I/XDJLC	DJ U.S. Large-Cap Index
Dow Jones	Branch	I/XDJLT	DJ Latin America Large-Cap Index
Dow Jones	Branch	I/XDJT	Dow Jones Transportation Average
Dow Jones	Branch	I/XDJU	Dow Jones Utilities Average
Dow Jones	Branch	I/XENX	Euronext 100
Dow Jones	Branch	I/XES	EuroSTOXX50
Dow Jones	Branch	I/XFBT	DJ Food & Beverages Titans 30 Index
Dow Jones	Branch	I/XFFX	Fortune 500 Index
Dow Jones	Branch	I/XFST	DJ Financial Services Titans 30 Index
Dow Jones	Branch	I/XFT1	FTSE 100 Components
Dow Jones	Branch	I/XFT2	FTSE 250 Components
Dow Jones	Branch	I/XGDW	Global Dow Components
Dow Jones	Branch	I/XGTI	Dow Jones Global Titans Index Components
Dow Jones	Branch	I/XHCT	DJ Health Care Titans 30 Index

Dow Jones	Branch	I/XHEX	HEX Components
Dow Jones	Branch	I/XHSG	Hang Seng Components
Dow Jones	Branch	I/XIBEX	IBEX-35 Components
Dow Jones	Branch	I/XIGT	DJ Industrial Goods & Services Titans 30 Index
Dow Jones	Branch	I/XINT	DJ Insurance Titans 30 Index
Dow Jones	Branch	I/XISL	Dow Jones Islamic Index Components
Dow Jones	Branch	I/XKFX	KFX Components
Dow Jones	Branch	I/ XMDAX	DAX MidCap Index
Dow Jones	Branch	I/XMET	DJ Media Titans 30 Index
Dow Jones	Branch	I/XMIB	MIB 40 Components
Dow Jones	Branch	I/XNMP	Neuer Markt Index Components
Dow Jones	Branch	I/XNQ1	NASDAQ 100 Components
Dow Jones	Branch	I/XNYA	NYSE Composite Index Components
Dow Jones	Branch	I/XOBX	OBX Total Components
Dow Jones	Branch	I/XOGT	DJ Oil & Gas Titans 30 Index
Dow Jones	Branch	I/XORD	All Ordinaries Components
Dow Jones	Branch	I/XP20	PSI-20 Components
Dow Jones	Branch	I/XPGT	DJ Personal & Household Goods Titans 30 Index
Dow Jones	Branch	I/XRET	DJ Real Estate Titans 30 Index
Dow Jones	Branch	I/XRTT	DJ Retail Titans 30 Index
Dow Jones	Branch	I/XRUS	Russell 3000 component

Dow Jones	Branch	I/XSCI	US Small Cap Index
Dow Jones	Branch	I/XSDAX	DAX SmallCap Index
Dow Jones	Branch	I/XSLI	Global Large Cap Index
Dow Jones	Branch	I/XSMI	SMI Components
Dow Jones	Branch	I/XSP1	S&P 100 Index component
Dow Jones	Branch	I/XSP4	S&P Midcap 400
Dow Jones	Branch	I/XSP5	S&P 500 Index component
Dow Jones	Branch	I/XSP6	S&P Small Cap 600
Dow Jones	Branch	I/XST5	Dow Jones Stoxx 50 Components
Dow Jones	Branch	I/XSTC	DJ Sector Titans Composite Index
Dow Jones	Branch	I/XSTF	Dow Jones Sector Titan Index - Financial Components
Dow Jones	Branch	I/XSTS	S&P/TSX Composite (Canada)
Dow Jones	Branch	I/XSTT	Dow Jones Sector Titan Index - Telecommunications Components
Dow Jones	Branch	I/XSTX	Dow Jones Sector Titan Index - Technology Components
Dow Jones	Branch	I/XSXA	SX All Share Components
Dow Jones	Branch	I/XTDX	TecDAX Components
Dow Jones	Branch	I/XTLT	DJ Travel & Leisure Titans 30 Index
Dow Jones	Branch	I/XTSE	S&P/TSX Composite Index
Dow Jones	Branch	I/XUTT	DJ Utilities Titans 30 Index
Dow Jones	Branch	I/ZFU	Investment Products
Dow Jones	Region	R/ABD	Abu Dhabi (United Arab Emirates)

Dow Jones	Region	R/AC	Antigua & Barbuda
Dow Jones	Region	R/AE	Algeria
Dow Jones	Region	R/AF	Africa
Dow Jones	Region	R/AFG	Afghanistan
Dow Jones	Region	R/AG	Argentina
Dow Jones	Region	R/AK	Alaska
Dow Jones	Region	R/AL	Alabama
Dow Jones	Region	R/ALB	Albania
Dow Jones	Region	R/ALT	Alberta (province)
Dow Jones	Region	R/ANR	Andorra
Dow Jones	Region	R/AO	Angola
Dow Jones	Region	R/AQ	American Samoa
Dow Jones	Region	R/AR	Arkansas
Dow Jones	Region	R/ARA	Arabian Peninsula
Dow Jones	Region	R/ARB	Aruba
Dow Jones	Region	R/ASA	Australia
Dow Jones	Region	R/ASI	Asia
Dow Jones	Region	R/AU	Austria
Dow Jones	Region	R/AV	Anguilla
Dow Jones	Region	R/AY	Antarctica
Dow Jones	Region	R/AZ	Arizona
Dow Jones	Region	R/BA	Bahrain

Dow Jones	Region	R/BB	Barbados
Dow Jones	Region	R/BC	Botswana
Dow Jones	Region	R/BD	Bermuda
Dow Jones	Region	R/BEL	Belgium
Dow Jones	Region	R/BF	Bahamas
Dow Jones	Region	R/BG	Bangladesh
Dow Jones	Region	R/BI	Burundi
Dow Jones	Region	R/BK	Burkina Faso
Dow Jones	Region	R/BL	Bolivia
Dow Jones	Region	R/BLZ	Belize
Dow Jones	Region	R/BM	Myanmar (Burma)
Dow Jones	Region	R/BNN	Benin
Dow Jones	Region	R/BO	Bosnia-Herzegovina
Dow Jones	Region	R/BQ	Bonaire, Saba, St. Eustatius
Dow Jones	Region	R/BR	Brazil
Dow Jones	Region	R/BRC	British Columbia (province)
Dow Jones	Region	R/BT	Bhutan
Dow Jones	Region	R/BU	Bulgaria
Dow Jones	Region	R/BV	Bouvet Island
Dow Jones	Region	R/BVI	British Virgin Islands
Dow Jones	Region	R/BX	Brunei
Dow Jones	Region	R/BY	Belarus

Dow Jones	Region	R/CA	California
Dow Jones	Region	R/CB	Cambodia
Dow Jones	Region	R/CC	Curacao
Dow Jones	Region	R/CD	Chad
Dow Jones	Region	R/CF	Congo Republic
Dow Jones	Region	R/CFR	Central African Republic
Dow Jones	Region	R/CG	Congo
Dow Jones	Region	R/CH	China
Dow Jones	Region	R/CHE	Chechnya
Dow Jones	Region	R/CI	Chile
Dow Jones	Region	R/CJ	Cayman Islands
Dow Jones	Region	R/CK	Czech Republic
Dow Jones	Region	R/CKI	Cocos Islands
Dow Jones	Region	R/CL	Colombia
Dow Jones	Region	R/CM	Cameroon
Dow Jones	Region	R/CME	Central America
Dow Jones	Region	R/CN	Canada
Dow Jones	Region	R/CO	Colorado
Dow Jones	Region	R/COM	Comoros
Dow Jones	Region	R/CR	Croatia
Dow Jones	Region	R/CS	Costa Rica
Dow Jones	Region	R/CT	Connecticut

Dow Jones	Region	R/CU	Cuba
Dow Jones	Region	R/CV	Cape Verde
Dow Jones	Region	R/CW	Cook Islands
Dow Jones	Region	R/CY	Cyprus
Dow Jones	Region	R/CZ	Panama
Dow Jones	Region	R/DA	Denmark
Dow Jones	Region	R/DC	District of Columbia
Dow Jones	Region	R/DE	Delaware
Dow Jones	Region	R/DJB	Djibouti
Dow Jones	Region	R/DOM	Dominica
Dow Jones	Region	R/DR	Dominican Republic
Dow Jones	Region	R/DUB	Dubai (United Arab Emirates)
Dow Jones	Region	R/EA	Ecuador
Dow Jones	Region	R/EC	European Union
Dow Jones	Region	R/ECAR	East Central Area Reliability Coordination Agreement
Dow Jones	Region	R/EEU	Eastern Europe
Dow Jones	Region	R/EG	Egypt
Dow Jones	Region	R/EI	Ireland
Dow Jones	Region	R/EK	Equatorial Guinea
Dow Jones	Region	R/EMEA	Europe/Middle East/Africa Energy Region
Dow Jones	Region	R/ENG	England
Dow Jones	Region	R/EO	Estonia

Dow Jones	Region	R/ER	Eritrea
Dow Jones	Region	R/ERCT	Electric Reliability Council of Texas
Dow Jones	Region	R/ES	El Salvador
Dow Jones	Region	R/ET	Ethiopia
Dow Jones	Region	R/ETM	East Timor
Dow Jones	Region	R/EU	Europe
Dow Jones	Region	R/EUPW	European Power
Dow Jones	Region	R/EZN	Eurozone Countries
Dow Jones	Region	R/FE	Far East
Dow Jones	Region	R/FEO	Far East, Other
Dow Jones	Region	R/FG	French Guiana
Dow Jones	Region	R/FI	Finland
Dow Jones	Region	R/FJ	Fiji
Dow Jones	Region	R/FL	Florida
Dow Jones	Region	R/FLK	Falkland Islands
Dow Jones	Region	R/FPO	French Polynesia
Dow Jones	Region	R/FR	France
Dow Jones	Region	R/FRCC	Florida Reliability Coordinating Council
Dow Jones	Region	R/FXAS	FXTrader Asian content
Dow Jones	Region	R/FXEM	FXTrader EMEA content
Dow Jones	Region	R/FXLA	FXTrader Latin America content
Dow Jones	Region	R/GA	Georgia

Dow Jones	Region	R/GB	Gabon
Dow Jones	Region	R/GE	Germany
Dow Jones	Region	R/GG	Georgia (Far East)
Dow Jones	Region	R/GH	Ghana
Dow Jones	Region	R/GI	Gibraltar
Dow Jones	Region	R/GJ	Grenada
Dow Jones	Region	R/GL	Greenland
Dow Jones	Region	R/GMB	Gambia
Dow Jones	Region	R/GR	Greece
Dow Jones	Region	R/GT	Guatemala
Dow Jones	Region	R/GU	Guam
Dow Jones	Region	R/GUA	Guadeloupe
Dow Jones	Region	R/GVI	Guinea
Dow Jones	Region	R/GY	Guyana
Dow Jones	Region	R/HA	Haiti
Dow Jones	Region	R/HEL	St. Helena
Dow Jones	Region	R/HI	Hawaii
Dow Jones	Region	R/HK	Hong Kong
Dow Jones	Region	R/HO	Honduras
Dow Jones	Region	R/HU	Hungary
Dow Jones	Region	R/IA	Iowa
Dow Jones	Region	R/ICL	Iceland

Dow Jones	Region	R/ID	Idaho
Dow Jones	Region	R/II	India
Dow Jones	Region	R/IL	Illinois
Dow Jones	Region	R/IND	Indiana
Dow Jones	Region	R/IO	Indonesia
Dow Jones	Region	R/IR	Iran
Dow Jones	Region	R/ISR	Israel
Dow Jones	Region	R/ITA	Italy
Dow Jones	Region	R/IV	Ivory Coast
Dow Jones	Region	R/IZ	Iraq
Dow Jones	Region	R/JA	Japan
Dow Jones	Region	R/JD	Jordan
Dow Jones	Region	R/JM	Jamaica
Dow Jones	Region	R/KE	Kenya
Dow Jones	Region	R/KG	Kyrgyzstan
Dow Jones	Region	R/KN	North Korea
Dow Jones	Region	R/KOS	Kosovo
Dow Jones	Region	R/KR	Kiribati
Dow Jones	Region	R/KS	Kansas
Dow Jones	Region	R/KU	Kuwait
Dow Jones	Region	R/KY	Kentucky
Dow Jones	Region	R/KZ	Kazakhstan (Kazakstan)

Dow Jones	Region	R/LA	Louisiana
Dow Jones	Region	R/LAO	Laos
Dow Jones	Region	R/LAX	Los Angeles Metropolitan Area
Dow Jones	Region	R/LBN	Lebanon
Dow Jones	Region	R/LI	Liberia
Dow Jones	Region	R/LN	Lithuania
Dow Jones	Region	R/LS	Liechtenstein
Dow Jones	Region	R/LT	Lesotho
Dow Jones	Region	R/LTM	Latin America
Dow Jones	Region	R/LU	Luxembourg
Dow Jones	Region	R/LUC	St. Lucia
Dow Jones	Region	R/LV	Latvia
Dow Jones	Region	R/LY	Libya
Dow Jones	Region	R/MA	Massachusetts
Dow Jones	Region	R/MAAC	Mid-Atlantic Area Council
Dow Jones	Region	R/MAC	Macedonia
Dow Jones	Region	R/MAIN	Mid-American Interpool Network
Dow Jones	Region	R/MAN	Manitoba (province)
Dow Jones	Region	R/MAPP	Mid-Continent Area Power Pool
Dow Jones	Region	R/MB	Martinique
Dow Jones	Region	R/MC	Macau
Dow Jones	Region	R/MCO	Morocco

Dow Jones	Region	R/MCR	Micronesia
Dow Jones	Region	R/MD	Maryland
Dow Jones	Region	R/MDG	Madagascar
Dow Jones	Region	R/ME	Maine
Dow Jones	Region	R/MGR	Montenegro
Dow Jones	Region	R/MH	Montserrat
Dow Jones	Region	R/MI	Michigan
Dow Jones	Region	R/ML	Middle East
Dow Jones	Region	R/MLD	Maldives
Dow Jones	Region	R/MLI	Mali
Dow Jones	Region	R/MLT	Malta
Dow Jones	Region	R/MLV	Moldova (Moldavia)
Dow Jones	Region	R/MLW	Malawi
Dow Jones	Region	R/MM	Mongolia
Dow Jones	Region	R/MN	Minnesota
Dow Jones	Region	R/MO	Missouri
Dow Jones	Region	R/MOA	Monaco
Dow Jones	Region	R/MQ	Mozambique
Dow Jones	Region	R/MRI	Marshall Islands
Dow Jones	Region	R/MRN	Mauritania
Dow Jones	Region	R/MRT	Mauritius
Dow Jones	Region	R/MS	Mississippi

Dow Jones	Region	R/MT	Montana
Dow Jones	Region	R/MU	Oman
Dow Jones	Region	R/MX	Mexico
Dow Jones	Region	R/MY	Malaysia
Dow Jones	Region	R/NA	Netherlands Antilles
Dow Jones	Region	R/NAPW	North American Power
Dow Jones	Region	R/NBR	New Brunswick (province)
Dow Jones	Region	R/NC	North Carolina
Dow Jones	Region	R/NCD	New Caledonia
Dow Jones	Region	R/ND	North Dakota
Dow Jones	Region	R/NE	Nebraska
Dow Jones	Region	R/NEI	Northern Ireland
Dow Jones	Region	R/NERC	North American Electric Reliability Council
Dow Jones	Region	R/NFN	Newfoundland (province)
Dow Jones	Region	R/NG	Niger
Dow Jones	Region	R/NH	New Hampshire
Dow Jones	Region	R/NI	Nigeria
Dow Jones	Region	R/NIU	Niue
Dow Jones	Region	R/NJ	New Jersey
Dow Jones	Region	R/NL	Netherlands
Dow Jones	Region	R/NM	New Mexico
Dow Jones	Region	R/NMB	Namibia

Dow Jones	Region	R/NME	North America
Dow Jones	Region	R/NMI	Northern Mariana Islands
Dow Jones	Region	R/NOPW	Nordic Power Market
Dow Jones	Region	R/NOY	Norway
Dow Jones	Region	R/NP	Nepal
Dow Jones	Region	R/NPCC	Northeast Power Coordinating Council
Dow Jones	Region	R/NR	Nauru
Dow Jones	Region	R/NS	Suriname
Dow Jones	Region	R/NSC	Nova Scotia (province)
Dow Jones	Region	R/NU	Nicaragua
Dow Jones	Region	R/NV	Nevada
Dow Jones	Region	R/NVT	Nunavut
Dow Jones	Region	R/NWT	Northwest Territories
Dow Jones	Region	R/NY	New York
Dow Jones	Region	R/NYC	New York City
Dow Jones	Region	R/NZ	New Zealand
Dow Jones	Region	R/OH	Ohio
Dow Jones	Region	R/OK	Oklahoma
Dow Jones	Region	R/ONT	Ontario (province)
Dow Jones	Region	R/ORG	Oregon
Dow Jones	Region	R/PA	Pennsylvania
Dow Jones	Region	R/PC	Pitcairn

Dow Jones	Region	R/PE	Peru
Dow Jones	Region	R/PEI	Prince Edward Island (province)
Dow Jones	Region	R/PK	Pakistan
Dow Jones	Region	R/PL	Poland
Dow Jones	Region	R/PLA	Palau
Dow Jones	Region	R/PNG	Papua New Guinea
Dow Jones	Region	R/PO	Portugal
Dow Jones	Region	R/PR	Puerto Rico
Dow Jones	Region	R/PRM	Pacific Rim
Dow Jones	Region	R/PSE	Palestine
Dow Jones	Region	R/PU	Guinea-Bissau
Dow Jones	Region	R/PY	Paraguay
Dow Jones	Region	R/QA	Qatar
Dow Jones	Region	R/QBC	Quebec (province)
Dow Jones	Region	R/RE	Reunion
Dow Jones	Region	R/RI	Rhode Island
Dow Jones	Region	R/RM	Armenia
Dow Jones	Region	R/RO	Romania
Dow Jones	Region	R/RP	Philippines
Dow Jones	Region	R/RS	Russia (Russian Federation)
Dow Jones	Region	R/RW	Rwanda
Dow Jones	Region	R/SA	Saudi Arabia

Dow Jones	Region	R/SAS	Saskatchewan (province)
Dow Jones	Region	R/SB	Serbia
Dow Jones	Region	R/SC	South Carolina
Dow Jones	Region	R/SCA	Scandinavia
Dow Jones	Region	R/SCT	Scotland
Dow Jones	Region	R/SD	South Dakota
Dow Jones	Region	R/SE	Seychelles
Dow Jones	Region	R/SERC	Southeast Electric Reliability Council
Dow Jones	Region	R/SF	South Africa
Dow Jones	Region	R/SG	Senegal
Dow Jones	Region	R/SK	South Korea
Dow Jones	Region	R/SKN	St. Kitts & Nevis
Dow Jones	Region	R/SLI	Solomon Islands
Dow Jones	Region	R/SLK	Sri Lanka
Dow Jones	Region	R/SLO	Slovenia
Dow Jones	Region	R/SLV	Slovakia
Dow Jones	Region	R/SM	South America
Dow Jones	Region	R/SMO	San Marino
Dow Jones	Region	R/SN	Singapore
Dow Jones	Region	R/SOM	Somalia
Dow Jones	Region	R/SP	Spain
Dow Jones	Region	R/SPM	St. Pierre & Miquelon

Dow Jones	Region	R/SPP	Southwest Power Pool
Dow Jones	Region	R/SRL	Sierra Leone
Dow Jones	Region	R/SS	South Sudan
Dow Jones	Region	R/SSA	Southeast Asia
Dow Jones	Region	R/STM	St. Martin
Dow Jones	Region	R/STP	Sao Tome & Principe
Dow Jones	Region	R/SU	Sudan
Dow Jones	Region	R/SV	Svalbard & Jan Mayen Islands
Dow Jones	Region	R/SW	Sweden
Dow Jones	Region	R/SX	Sint Maarten (Dutch)
Dow Jones	Region	R/SY	Syria
Dow Jones	Region	R/SZ	Switzerland
Dow Jones	Region	R/TC	United Arab Emirates
Dow Jones	Region	R/TG	Tonga
Dow Jones	Region	R/TGO	Togo
Dow Jones	Region	R/TH	Thailand
Dow Jones	Region	R/TI	Tibet
Dow Jones	Region	R/TJ	Tajikistan (Tadzhikistan)
Dow Jones	Region	R/TK	Turks & Caicos Islands
Dow Jones	Region	R/TKM	Turkmenistan (Turkmenia)
Dow Jones	Region	R/TN	Tennessee
Dow Jones	Region	R/TS	Tunisia

Dow Jones	Region	R/TT	Trinidad & Tobago
Dow Jones	Region	R/TU	Turkey
Dow Jones	Region	R/TV	Tuvalu
Dow Jones	Region	R/TW	Taiwan
Dow Jones	Region	R/TX	Texas
Dow Jones	Region	R/TZ	Tanzania
Dow Jones	Region	R/UG	Uganda
Dow Jones	Region	R/UK	United Kingdom
Dow Jones	Region	R/UKR	Ukraine
Dow Jones	Region	R/UR	Commonwealth of Independent States
Dow Jones	Region	R/US	United States
Dow Jones	Region	R/USC	Central U.S.
Dow Jones	Region	R/USE	Eastern U.S.
Dow Jones	Region	R/USS	Southern U.S.
Dow Jones	Region	R/USW	Western U.S.
Dow Jones	Region	R/UT	Utah
Dow Jones	Region	R/UY	Uruguay
Dow Jones	Region	R/UZB	Uzbekistan
Dow Jones	Region	R/VA	Virginia
Dow Jones	Region	R/VC	St. Vincent & the Grenadines
Dow Jones	Region	R/VE	Venezuela
Dow Jones	Region	R/VI	U.S. Virgin Islands

Dow Jones	Region	R/VM	Vietnam
Dow Jones	Region	R/VN	Vanuatu
Dow Jones	Region	R/VT	Vermont
Dow Jones	Region	R/VTC	Vatican City
Dow Jones	Region	R/WA	Washington
Dow Jones	Region	R/WEU	Western Europe
Dow Jones	Region	R/WF	Wallis & Futuna Islands
Dow Jones	Region	R/WI	Wisconsin
Dow Jones	Region	R/WIS	West Indies
Dow Jones	Region	R/WL	Wales
Dow Jones	Region	R/WS	Western Samoa
Dow Jones	Region	R/WSA	Western Sahara
Dow Jones	Region	R/WSCC	Western Systems Coordinating Council
Dow Jones	Region	R/WV	West Virginia
Dow Jones	Region	R/WY	Wyoming
Dow Jones	Region	R/WZ	Swaziland
Dow Jones	Region	R/YE	Yemen
Dow Jones	Region	R/YUK	Yukon Territories
Dow Jones	Region	R/ZA	Zambia
Dow Jones	Region	R/ZI	Zimbabwe
Dow Jones	Region	R/ZR	Azerbaijan
Dow Jones	Government	G/AGD	Agriculture Department

Dow Jones	Government	G/CFT	Commodity Futures Trading Commission (CFTC)
Dow Jones	Government	G/CIA	Central Intelligence Agency (CIA)
Dow Jones	Government	G/CNBK	Bank of Canada
Dow Jones	Government	G/CNG	Congress
Dow Jones	Government	G/CNGV	Canadian Government
Dow Jones	Government	G/COM	Commerce Department
Dow Jones	Government	G/DCBK	Dutch Central Bank
Dow Jones	Government	G/DCBS	Dutch Central Bureau of Statistics
Dow Jones	Government	G/DEF	Defense Department
Dow Jones	Government	G/EDN	Education Department
Dow Jones	Government	G/EIB	Export-Import Bank (EIB)
Dow Jones	Government	G/EPA	Environmental Protection Agency (EPA)
Dow Jones	Government	G/ERG	Energy Department
Dow Jones	Government	G/EXE	Executive Branch
Dow Jones	Government	G/FAA	Federal Aviation Administration (FAA)
Dow Jones	Government	G/FBI	Federal Bureau of Investigation (FBI)
Dow Jones	Government	G/FCA	Farm Credit Administration (FCA)
Dow Jones	Government	G/FCC	Federal Communications Commission (FCC)
Dow Jones	Government	G/FDA	Food & Drug Administration (FDA)
Dow Jones	Government	G/FDC	Federal Deposit Insurance Corp. (FDIC)
Dow Jones	Government	G/FDL	Federal Government (General)
Dow Jones	Government	G/FED	Federal Reserve Board

Dow Jones	Government	G/FHLB	Federal Home Loan Bank
Dow Jones	Government	G/FRC	Federal Energy Regulatory Commission (FERC)
Dow Jones	Government	G/FTC	Federal Trade Commission (FTC)
Dow Jones	Government	G/GEBK	Bundesbank
Dow Jones	Government	G/GEGV	Government of Germany
Dow Jones	Government	G/GNMA	Government National Mortgage Association
Dow Jones	Government	G/GSA	General Services Administration (GSA)
Dow Jones	Government	G/HHS	Health & Human Services Department (HHS)
Dow Jones	Government	G/HLS	Homeland Security Department
Dow Jones	Government	G/HUD	Housing & Urban Development Department (HUD)
Dow Jones	Government	G/ICC	Surface Transportation Board (STB)
Dow Jones	Government	G/IGV	Governments of Non-U.S. Countries
Dow Jones	Government	G/INR	Interior Department
Dow Jones	Government	G/IRS	Internal Revenue Service (IRS)
Dow Jones	Government	G/ITD	International Trade Commission (ITC)
Dow Jones	Government	G/JABJ	Bank of Japan
Dow Jones	Government	G/JAEP	Japanese Cabinet Office
Dow Jones	Government	G/JAGV	Japanese Government
Dow Jones	Government	G/JAMF	Japanese Ministry of Finance
Dow Jones	Government	G/JUS	Justice Department
Dow Jones	Government	G/LBR	Labor Department
Dow Jones	Government	G/LOC	Local Government

Dow Jones	Government	G/MITI	Japanese Ministry of Economy, Trade & Industry
Dow Jones	Government	G/NLR	National Labor Relations Board (NLRB)
Dow Jones	Government	G/NSA	National Aeronautics & Space Administration (NASA)
Dow Jones	Government	G/NTS	National Transportation Safety Board (NTSB)
Dow Jones	Government	G/NUR	Nuclear Regulatory Commission
Dow Jones	Government	G/OSH	Occupational Safety & Health Administration (OSHA)
Dow Jones	Government	G/PBG	Pension Benefit Guaranty Corp. (PBGC)
Dow Jones	Government	G/POS	Postal Service
Dow Jones	Government	G/SBA	Small Business Administration (SBA)
Dow Jones	Government	G/SEC	Securities & Exchange Commission (SEC)
Dow Jones	Government	G/SNB	Swiss National Bank
Dow Jones	Government	G/SSA	Social Security Administration (SSA)
Dow Jones	Government	G/STD	State Department
Dow Jones	Government	G/STE	State Government
Dow Jones	Government	G/SUP	Supreme Court
Dow Jones	Government	G/THS	Office of Thrift Supervision (OTS)
Dow Jones	Government	G/TRE	Treasury Department
Dow Jones	Government	G/TRN	Transportation Department
Dow Jones	Government	G/TVA	Tennessee Valley Authority (TVA)
Dow Jones	Government	G/UKBK	Bank of England
Dow Jones	Government	G/UKGV	Government of Great Britain
Dow Jones	Government	G/USG	U.S. Government Agencies

Dow Jones	Government	G/VET	Veterans Affairs Department
Dow Jones	Wall Street Journal	J/ABS	Abreast of the Market
Dow Jones	Wall Street Journal	J/ACH	Aches & Claims
Dow Jones	Wall Street Journal	J/ADJ	Asia Deal Journal
Dow Jones	Wall Street Journal	J/ADT	Adventure & Travel
Dow Jones	Wall Street Journal	J/AGD	Agenda
Dow Jones	Wall Street Journal	J/AHD	A-Hed (Column 4)
Dow Jones	Wall Street Journal	J/AMR	The Americas
Dow Jones	Wall Street Journal	J/AOT	Ahead of the Tape
Dow Jones	Wall Street Journal	J/ARE	The Arena
Dow Jones	Wall Street Journal	J/ASF	Asian Stocks
Dow Jones	Wall Street Journal	J/ASK	Ask Teri
Dow Jones	Wall Street Journal	J/ATR	Asian Trader
Dow Jones	Wall Street Journal	J/BAY	Bay Area
Dow Jones	Wall Street Journal	J/BDS	Bonds
Dow Jones	Wall Street Journal	J/BED	Business Education

Dow Jones	Wall Journal	Street	J/BKK	Books
Dow Jones	Wall Journal	Street	J/BOL	Barron's Online Highlight
Dow Jones	Wall Journal	Street	J/BRB	Brussels Beat
Dow Jones	Wall Journal	Street	J/BRT	Barron's Roundtable
Dow Jones	Wall Journal	Street	J/BSL	Bookshelf
Dow Jones	Wall Journal	Street	J/BSS	Boss Talk
Dow Jones	Wall Journal	Street	J/BTB	Balancing the Books
Dow Jones	Wall Journal	Street	J/BZA	Business Asia
Dow Jones	Wall Journal	Street	J/BZF	Business & Finance (Column 2)
Dow Jones	Wall Journal	Street	J/BZT	Business Technology
Dow Jones	Wall Journal	Street	J/BZW	Business World
Dow Jones	Wall Journal	Street	J/CAP	Capital Journal
Dow Jones	Wall Journal	Street	J/CFO	CFO Journal
Dow Jones	Wall Journal	Street	J/CMC	Commodities Corner
Dow Jones	Wall Journal	Street	J/CMK	Commodities Report

Dow Jones	Wall Journal	Street	J/CNS	Corporate News
Dow Jones	Wall Journal	Street	J/CPL	Capital
Dow Jones	Wall Journal	Street	J/CPW	Corporate Watch
Dow Jones	Wall Journal	Street	J/CRA	Current Account
Dow Jones	Wall Journal	Street	J/CRB	Crystal Ball
Dow Jones	Wall Journal	Street	J/CRD	Credit Markets
Dow Jones	Wall Journal	Street	J/CRK	The Cranky Consumer
Dow Jones	Wall Journal	Street	J/CRS	Cars
Dow Jones	Wall Journal	Street	J/CSP	CEO Spotlight
Dow Jones	Wall Journal	Street	J/CST	Barron's Cover Story
Dow Jones	Wall Journal	Street	J/CXC	Cross Country
Dow Jones	Wall Journal	Street	J/CYD	Current Yield
Dow Jones	Wall Journal	Street	J/DCC	D.C. Current
Dow Jones	Wall Journal	Street	J/DCL	Declarations
Dow Jones	Wall Journal	Street	J/DGS	The Digital Solution

Dow Jones	Wall Journal	Street	J/DGT	Digits
Dow Jones	Wall Journal	Street	J/DLJ	Deal Journal
Dow Jones	Wall Journal	Street	J/DMK	Deals & Dealmakers
Dow Jones	Wall Journal	Street	J/DND	Design & Decorating
Dow Jones	Wall Journal	Street	J/DWK	Deal of the Week
Dow Jones	Wall Journal	Street	J/ECB	Economic Beat
Dow Jones	Wall Journal	Street	J/EDP	Editorial-Page Articles
Dow Jones	Wall Journal	Street	J/EDY	Editorial Commentary
Dow Jones	Wall Journal	Street	J/EFO	ETF Focus
Dow Jones	Wall Journal	Street	J/ENC	Entertainment & Culture
Dow Jones	Wall Journal	Street	J/ENW	Europe News
Dow Jones	Wall Journal	Street	J/ERW	Earnings Watch
Dow Jones	Wall Journal	Street	J/ETD	Eating & Drinking
Dow Jones	Wall Journal	Street	J/EUW	Europe Watch
Dow Jones	Wall Journal	Street	J/EYE	Eyes on the Road

Dow Jones	Wall Journal	Street	J/FBB	Financial Briefing Book
Dow Jones	Wall Journal	Street	J/FEA	Features
Dow Jones	Wall Journal	Street	J/FEX	Currency Trading
Dow Jones	Wall Journal	Street	J/FLM	Review/Film
Dow Jones	Wall Journal	Street	J/FMV	Family Value
Dow Jones	Wall Journal	Street	J/FMX	Work & Family Mailbox
Dow Jones	Wall Journal	Street	J/FOI	Fund of Information
Dow Jones	Wall Journal	Street	J/FOL	Follow-Up
Dow Jones	Wall Journal	Street	J/FRJ	Friday Journal
Dow Jones	Wall Journal	Street	J/FVB	Five Best
Dow Jones	Wall Journal	Street	J/GGO	Getting Going
Dow Jones	Wall Journal	Street	J/GLF	Global Finance
Dow Jones	Wall Journal	Street	J/GLJ	Golf Journal
Dow Jones	Wall Journal	Street	J/GLV	Global View
Dow Jones	Wall Journal	Street	J/GNG	Gear & Gadgets

Dow Jones	Wall Journal	Street	J/GNY	Greater New York section of The WSJ
Dow Jones	Wall Journal	Street	J/GUY	The Numbers Guy
Dow Jones	Wall Journal	Street	J/GWK	Gadget of the Week
Dow Jones	Wall Journal	Street	J/HDG	Home & Digital
Dow Jones	Wall Journal	Street	J/HFL	Heard on the Field
Dow Jones	Wall Journal	Street	J/HLH	Health
Dow Jones	Wall Journal	Street	J/HOZ	On the Horizon
Dow Jones	Wall Journal	Street	J/HRT	Heart Beat
Dow Jones	Wall Journal	Street	J/HST	Heard on the Street Column
Dow Jones	Wall Journal	Street	J/HSW	House of Worship
Dow Jones	Wall Journal	Street	J/HWL	Health & Wellness
Dow Jones	Wall Journal	Street	J/ICO	Icons
Dow Jones	Wall Journal	Street	J/IDA	Ideas Market
Dow Jones	Wall Journal	Street	J/IIN	International Investor
Dow Jones	Wall Journal	Street	J/ILB	In the Lab

Dow Jones	Wall Journal	Street	J/INA	Information Age
Dow Jones	Wall Journal	Street	J/INO	IPO Outlook
Dow Jones	Wall Journal	Street	J/IPT	Informed Patient
Dow Jones	Wall Journal	Street	J/ITN	Insider Transactions Column
Dow Jones	Wall Journal	Street	J/ITV	Barron's Interview
Dow Jones	Wall Journal	Street	J/ITZ	European Trader
Dow Jones	Wall Journal	Street	J/JOB	Careers
Dow Jones	Wall Journal	Street	J/LAS	Life & Style
Dow Jones	Wall Journal	Street	J/LFW	Life/Work
Dow Jones	Wall Journal	Street	J/LJL	Law Journal
Dow Jones	Wall Journal	Street	J/LME	Late Markets Edition
Dow Jones	Wall Journal	Street	J/LMJ	Large Majors
Dow Jones	Wall Journal	Street	J/LNA	Leisure & Arts
Dow Jones	Wall Journal	Street	J/LRS	Letters to the Editor
Dow Jones	Wall Journal	Street	J/MAN	Mansion

Dow Jones	Wall Journal	Street	J/MAS	Main Street
Dow Jones	Wall Journal	Street	J/MBG	Mailbag
Dow Jones	Wall Journal	Street	J/MBT	MarketBeat
Dow Jones	Wall Journal	Street	J/MCS	Main Cover Story
Dow Jones	Wall Journal	Street	J/MDL	The Middle Seat
Dow Jones	Wall Journal	Street	J/MEC	Me & My Car
Dow Jones	Wall Journal	Street	J/MED	Media
Dow Jones	Wall Journal	Street	J/MFD	Barron's Mutual Funds
Dow Jones	Wall Journal	Street	J/MGC	Managing
Dow Jones	Wall Journal	Street	J/MIM	Major Market Items
Dow Jones	Wall Journal	Street	J/MKR	Market Focus
Dow Jones	Wall Journal	Street	J/MKW	Market Watch
Dow Jones	Wall Journal	Street	J/MMB	Mossberg's Mailbox
Dow Jones	Wall Journal	Street	J/MMK	Marketing & Media
Dow Jones	Wall Journal	Street	J/MNO	Minors

Dow Jones	Wall Journal	Street	J/MSP	Masterpiece
Dow Jones	Wall Journal	Street	J/MTM	Moving the Market
Dow Jones	Wall Journal	Street	J/MTW	Market Week
Dow Jones	Wall Journal	Street	J/NAQ	Notable & Quotable
Dow Jones	Wall Journal	Street	J/NBS	The New Basics
Dow Jones	Wall Journal	Street	J/NID	In Depth
Dow Jones	Wall Journal	Street	J/OFD	Off Duty
Dow Jones	Wall Journal	Street	J/OLK	The Outlook
Dow Jones	Wall Journal	Street	J/OOF	On Other Fronts
Dow Jones	Wall Journal	Street	J/OST	On Style
Dow Jones	Wall Journal	Street	J/OTV	Other Voices
Dow Jones	Wall Journal	Street	J/OTW	Off the Wall
Dow Jones	Wall Journal	Street	J/PFL	Profile
Dow Jones	Wall Journal	Street	J/PGO	Page One Umbrella
Dow Jones	Wall Journal	Street	J/PLP	Plots & Ploys

Dow Jones	Wall Journal	Street	J/PMK	Panmarkets
Dow Jones	Wall Journal	Street	J/POM	Potomac Watch
Dow Jones	Wall Journal	Street	J/PPT	Private Properties
Dow Jones	Wall Journal	Street	J/PRP	The Property Report
Dow Jones	Wall Journal	Street	J/PSF	Personal Finance
Dow Jones	Wall Journal	Street	J/PSJ	Personal Journal
Dow Jones	Wall Journal	Street	J/PTK	Personal Technology
Dow Jones	Wall Journal	Street	J/QMF	Quarterly Mutual Funds
Dow Jones	Wall Journal	Street	J/REM	Remembrances
Dow Jones	Wall Journal	Street	J/REV	Review
Dow Jones	Wall Journal	Street	J/RNP	Review & Outlook Primary
Dow Jones	Wall Journal	Street	J/RNS	Review & Outlook Secondary
Dow Jones	Wall Journal	Street	J/RPJ	Reporter's Journal
Dow Jones	Wall Journal	Street	J/RRP	The Research Report
Dow Jones	Wall Journal	Street	J/RSR	Research Reports

Dow Jones	Wall Journal	Street	J/RVP	Review & Preview
Dow Jones	Wall Journal	Street	J/RVT	Review: Theater
Dow Jones	Wall Journal	Street	J/SBZ	Small Business
Dow Jones	Wall Journal	Street	J/SCP	Sizing Up Small Caps
Dow Jones	Wall Journal	Street	J/SDV	Speaking of Dividends
Dow Jones	Wall Journal	Street	J/SFR	Second Front
Dow Jones	Wall Journal	Street	J/SIG	Sightings
Dow Jones	Wall Journal	Street	J/SNT	Style & Travel
Dow Jones	Wall Journal	Street	J/SPE	Special Sections
Dow Jones	Wall Journal	Street	J/SPO	Sports
Dow Jones	Wall Journal	Street	J/SPR	The Striking Price
Dow Jones	Wall Journal	Street	J/STF	Style & Fashion
Dow Jones	Wall Journal	Street	J/STY	Style
Dow Jones	Wall Journal	Street	J/SWX	Streetwise
Dow Jones	Wall Journal	Street	J/TAC	The Activist Spotlight

Dow Jones	Wall Journal	Street	J/TCH	Technology
Dow Jones	Wall Journal	Street	J/TCT	The Count
Dow Jones	Wall Journal	Street	J/TEI	The Electronic Investor
Dow Jones	Wall Journal	Street	J/TEK	Technology Week
Dow Jones	Wall Journal	Street	J/TEU	Tech Europe
Dow Jones	Wall Journal	Street	J/TFR	Third Front Umbrella
Dow Jones	Wall Journal	Street	J/TGA	The Game
Dow Jones	Wall Journal	Street	J/THD	13d Filings
Dow Jones	Wall Journal	Street	J/THF	The Home Front
Dow Jones	Wall Journal	Street	J/TII	The Intelligent Investor
Dow Jones	Wall Journal	Street	J/TPT	Business & Finance Column Stories
Dow Jones	Wall Journal	Street	J/TRV	Travel
Dow Jones	Wall Journal	Street	J/TSS	Tricks of the Trade
Dow Jones	Wall Journal	Street	J/TTD	The Trader
Dow Jones	Wall Journal	Street	J/TTR	Tech Trader

Dow Jones	Wall Journal	Street	J/TVR	Review: Television
Dow Jones	Wall Journal	Street	J/TWA	The Week Ahead
Dow Jones	Wall Journal	Street	J/TWK	This Week
Dow Jones	Wall Journal	Street	J/TXR	Tax Report
Dow Jones	Wall Journal	Street	J/UPD	Up & Down Wall Street
Dow Jones	Wall Journal	Street	J/UPE	Upside
Dow Jones	Wall Journal	Street	J/USN	U.S. News
Dow Jones	Wall Journal	Street	J/VNO	Wine
Dow Jones	Wall Journal	Street	J/WAH	What's Ahead
Dow Jones	Wall Journal	Street	J/WIX	Weekend Investor
Dow Jones	Wall Journal	Street	J/WKI	The Weekend Interview
Dow Jones	Wall Journal	Street	J/WKJ	Weekend Journal
Dow Jones	Wall Journal	Street	J/WLD	World-Wide (Column 3)
Dow Jones	Wall Journal	Street	J/WLH	Wealth Manager
Dow Jones	Wall Journal	Street	J/WND	Wonder Land

Dow Jones	Wall Street Journal	J/WNE	World News
Dow Jones	Wall Street Journal	J/WOW	World Watch
Dow Jones	Wall Street Journal	J/WRK	Work & Family
Dow Jones	Wall Street Journal	J/WST	World Stock Markets
Dow Jones	Wall Street Journal	J/WUS	U.S. Watch
Dow Jones	Wall Street Journal	J/WYW	What's Your Workout?
Dow Jones	Market Sector	M/AED	UAE Dirham
Dow Jones	Market Sector	M/AFN	Afghani
Dow Jones	Market Sector	M/ALL	Lek
Dow Jones	Market Sector	M/AMD	Armenian Dram
Dow Jones	Market Sector	M/ANG	Netherlands Antillean Guilder
Dow Jones	Market Sector	M/AOA	Kwanza
Dow Jones	Market Sector	M/ARS	Argentine Peso
Dow Jones	Market Sector	M/AUD	Australian Dollar
Dow Jones	Market Sector	M/AUDH	Australian Dollar for Trader Alerts
Dow Jones	Market Sector	M/AWG	Aruban Guilder
Dow Jones	Market Sector	M/AZN	Azerbaijani Manat
Dow Jones	Market Sector	M/BAM	Bosnia-Herzegovina Convertible Marks
Dow Jones	Market Sector	M/BBD	Barbados Dollar

Dow Jones	Market Sector	M/BDT	Taka
Dow Jones	Market Sector	M/BGN	Bulgarian Lev
Dow Jones	Market Sector	M/BHD	Bahraini Dinar
Dow Jones	Market Sector	M/BIF	Burundi Franc
Dow Jones	Market Sector	M/BMD	Bermudian Dollar
Dow Jones	Market Sector	M/BND	Brunei Dollar
Dow Jones	Market Sector	M/BOB	Boliviano
Dow Jones	Market Sector	M/BRL	Brazilian Real
Dow Jones	Market Sector	M/BSC	Basic Materials
Dow Jones	Market Sector	M/BSD	Bahamian Dollar
Dow Jones	Market Sector	M/BTN	Ngultrum
Dow Jones	Market Sector	M/BWP	Pula
Dow Jones	Market Sector	M/BYR	Belarus Ruble
Dow Jones	Market Sector	M/BZD	Belize Dollar
Dow Jones	Market Sector	M/CAD	Canadian Dollar
Dow Jones	Market Sector	M/CADH	Canadian Dollar for Trader Alerts
Dow Jones	Market Sector	M/CDF	Congolese Franc
Dow Jones	Market Sector	M/CHF	Swiss Franc
Dow Jones	Market Sector	M/CHFH	Swiss Franc for Trader Alerts
Dow Jones	Market Sector	M/CLF	Unidades de Fomento
Dow Jones	Market Sector	M/CLP	Chilean Peso
Dow Jones	Market Sector	M/CNY	Yuan Renminbi

Dow Jones	Market Sector	M/COP	Colombian Peso
Dow Jones	Market Sector	M/CRC	Costa Rican Colon
Dow Jones	Market Sector	M/CUP	Cuban Peso
Dow Jones	Market Sector	M/CVE	Cape Verde Escudo
Dow Jones	Market Sector	M/CYC	Consumer Services
Dow Jones	Market Sector	M/CZK	Czech Koruna
Dow Jones	Market Sector	M/DJF	Djibouti Franc
Dow Jones	Market Sector	M/DKK	Danish Krone
Dow Jones	Market Sector	M/DOP	Dominican Peso
Dow Jones	Market Sector	M/DZD	Algerian Dinar
Dow Jones	Market Sector	M/EEK	Kroon
Dow Jones	Market Sector	M/EGP	Egyptian Pound
Dow Jones	Market Sector	M/ENE	Oil & Gas
Dow Jones	Market Sector	M/ERN	Eritrean Nakfa
Dow Jones	Market Sector	M/ETB	Ethiopian Birr
Dow Jones	Market Sector	M/EUR	Euro European Union
Dow Jones	Market Sector	M/EURH	Euro for Trader Alerts
Dow Jones	Market Sector	M/FCL	Financial
Dow Jones	Market Sector	M/FJD	Fiji Dollar
Dow Jones	Market Sector	M/FKP	Falkland Islands Pound
Dow Jones	Market Sector	M/GBP	Pound Sterling
Dow Jones	Market Sector	M/GBPH	Pound Sterling for Trader Alerts

Dow Jones	Market Sector	M/GBUS	US and Euro money pair
Dow Jones	Market Sector	M/GEL	Georgian Lari
Dow Jones	Market Sector	M/GHC	Cedi
Dow Jones	Market Sector	M/GIP	Gibraltar Pound
Dow Jones	Market Sector	M/GMD	Dalasi
Dow Jones	Market Sector	M/GNF	Guinea Franc
Dow Jones	Market Sector	M/GTQ	Quetzal
Dow Jones	Market Sector	M/GYD	Guyana Dollar
Dow Jones	Market Sector	M/HCR	Health Care
Dow Jones	Market Sector	M/HKD	Hong Kong Dollar
Dow Jones	Market Sector	M/ HKDH	Hong Kong Dollar for Trader Alerts
Dow Jones	Market Sector	M/HNL	Lempira
Dow Jones	Market Sector	M/HRK	Croatia Kuna
Dow Jones	Market Sector	M/HTG	Gourde
Dow Jones	Market Sector	M/HUF	Forint
Dow Jones	Market Sector	M/IDR	Rupiah
Dow Jones	Market Sector	M/IDU	Industrials
Dow Jones	Market Sector	M/ILS	Shekel
Dow Jones	Market Sector	M/INR	Indian Rupee
Dow Jones	Market Sector	M/IQD	Iraqi Dinar
Dow Jones	Market Sector	M/IRR	Iranian Rial

Dow Jones	Market Sector	M/ISK	Icelandic Krona
Dow Jones	Market Sector	M/JMD	Jamaican Dollar
Dow Jones	Market Sector	M/JOD	Jordanian Dinar
Dow Jones	Market Sector	M/JPY	Yen Japan
Dow Jones	Market Sector	M/JPYH	Yen Japan for Trader Alerts
Dow Jones	Market Sector	M/KES	Kenyan Shilling
Dow Jones	Market Sector	M/KGS	Kyrgyz Som
Dow Jones	Market Sector	M/KHR	Riel
Dow Jones	Market Sector	M/KMF	Comoro Franc
Dow Jones	Market Sector	M/KPW	North Korean Won
Dow Jones	Market Sector	M/KRW	South Korean Won
Dow Jones	Market Sector	M/KWD	Kuwaiti Dinar
Dow Jones	Market Sector	M/KYD	Cayman Islands Dollar
Dow Jones	Market Sector	M/KZT	Kazakh Tenge
Dow Jones	Market Sector	M/LAK	Kip
Dow Jones	Market Sector	M/LBP	Lebanese Pound
Dow Jones	Market Sector	M/LKR	Sri Lanka Rupee
Dow Jones	Market Sector	M/LRD	Liberian Dollar
Dow Jones	Market Sector	M/LSL	Loti
Dow Jones	Market Sector	M/LTL	Lithuania Litas
Dow Jones	Market Sector	M/LVL	Latvia Lats
Dow Jones	Market Sector	M/LYD	Libyan Dinar

Dow Jones	Market Sector	M/MAD	Moroccan Dirham
Dow Jones	Market Sector	M/MDL	Moldova Leu
Dow Jones	Market Sector	M/MGA	Malagasy Ariary
Dow Jones	Market Sector	M/MKD	Macedonian Denar
Dow Jones	Market Sector	M/MMK	Kyat
Dow Jones	Market Sector	M/MMR	More News to Follow
Dow Jones	Market Sector	M/MNT	Tugrik
Dow Jones	Market Sector	M/MOP	Pataca
Dow Jones	Market Sector	M/MRO	Ouguiya
Dow Jones	Market Sector	M/MUR	Mauritius Rupee
Dow Jones	Market Sector	M/MVR	Rufiyaa
Dow Jones	Market Sector	M/MWK	KWACHA
Dow Jones	Market Sector	M/MXN	Mexican Nuevo Peso
Dow Jones	Market Sector	M/ MXNH	Mexican Nuevo Peso for Trader Alerts
Dow Jones	Market Sector	M/MYR	Malaysian Ringgit
Dow Jones	Market Sector	M/MZN	Mozambique Metical
Dow Jones	Market Sector	M/NAD	Namibian Dollar
Dow Jones	Market Sector	M/NCY	Consumer Goods
Dow Jones	Market Sector	M/NGN	Naira
Dow Jones	Market Sector	M/NIO	Oro
Dow Jones	Market Sector	M/NND	End of Story

Dow Jones	Market Sector	M/NOK	Norwegian Krone
Dow Jones	Market Sector	M/NPR	Nepalese Rupee
Dow Jones	Market Sector	M/NZD	New Zealand Dollar
Dow Jones	Market Sector	M/OMR	Omani Rial
Dow Jones	Market Sector	M/PAB	Balboa
Dow Jones	Market Sector	M/PEN	Nuevo Sol
Dow Jones	Market Sector	M/PGK	Kina
Dow Jones	Market Sector	M/PHP	Philippine Peso
Dow Jones	Market Sector	M/PKR	Pakistan Rupee
Dow Jones	Market Sector	M/PLN	Zloty
Dow Jones	Market Sector	M/PYG	Guarani
Dow Jones	Market Sector	M/QAR	Qatari Rial
Dow Jones	Market Sector	M/RON	Romanian New Leu
Dow Jones	Market Sector	M/RSD	Serbian Dinar
Dow Jones	Market Sector	M/RUB	Russian Ruble
Dow Jones	Market Sector	M/RUBH	Russian Ruble for Trader Alerts
Dow Jones	Market Sector	M/RWF	Rwanda Franc
Dow Jones	Market Sector	M/SAR	Saudi Riyal
Dow Jones	Market Sector	M/SBD	Solomon Islands Dollar
Dow Jones	Market Sector	M/SCR	Seychelles Rupee
Dow Jones	Market Sector	M/SDD	Sudanese Dinar
Dow Jones	Market Sector	M/SEK	Swedish Krone

Dow Jones	Market Sector	M/SGD	Singapore Dollar
Dow Jones	Market Sector	M/SHP	St. Helena Pound
Dow Jones	Market Sector	M/SKK	Slovak Koruna
Dow Jones	Market Sector	M/SLL	Leone
Dow Jones	Market Sector	M/SOS	Somali Shilling
Dow Jones	Market Sector	M/SRD	Suriname dollar
Dow Jones	Market Sector	M/SSP	South Sudanese Pound
Dow Jones	Market Sector	M/STD	Dobra
Dow Jones	Market Sector	M/SVC	El Salvador Colon
Dow Jones	Market Sector	M/SYP	Syrian Pound
Dow Jones	Market Sector	M/SZL	Lilangeni
Dow Jones	Market Sector	M/TEC	Technology
Dow Jones	Market Sector	M/TEL	Telecommunications
Dow Jones	Market Sector	M/THB	Baht
Dow Jones	Market Sector	M/TJS	Tajikistan Somoni
Dow Jones	Market Sector	M/TMT	Turkmen Manat
Dow Jones	Market Sector	M/TND	Tunisian Dinar
Dow Jones	Market Sector	M/TOP	Pa'anga
Dow Jones	Market Sector	M/TPX	Clip Blocking Code
Dow Jones	Market Sector	M/TRY	New Turkish Lira
Dow Jones	Market Sector	M/TTD	Trinidad & Tobago Dollar
Dow Jones	Market Sector	M/TWD	New Taiwan Dollar

Dow Jones	Market Sector	M/TZS	Tanzanian Shilling
Dow Jones	Market Sector	M/UAH	Ukraine Hryvnia
Dow Jones	Market Sector	M/UGX	Uganda Shilling
Dow Jones	Market Sector	M/USD	U.S. Dollar
Dow Jones	Market Sector	M/USDH	US Dollar for Trader Alerts
Dow Jones	Market Sector	M/USX	Dollar index
Dow Jones	Market Sector	M/UTI	Utilities
Dow Jones	Market Sector	M/UYU	Uruguayan Peso
Dow Jones	Market Sector	M/UZS	Uzbek Sum
Dow Jones	Market Sector	M/VEF	Venezuelan Bolivars Fuerte
Dow Jones	Market Sector	M/VND	Dong
Dow Jones	Market Sector	M/VUV	Vatu
Dow Jones	Market Sector	M/WST	Tala
Dow Jones	Market Sector	M/XAF	CFA Franc BEAC
Dow Jones	Market Sector	M/XCD	East Caribbean Dollar
Dow Jones	Market Sector	M/XOF	CFA Franc BCEAO
Dow Jones	Market Sector	M/XPF	CFP Franc
Dow Jones	Market Sector	M/YER	Yemeni Rial
Dow Jones	Market Sector	M/ZAR	Rand
Dow Jones	Market Sector	M/ZMK	Kwacha
Dow Jones	Market Sector	M/ZWD	Zimbabwe Dollar
Dow Jones	Product	P/AAG	Aktiencheck.de AG / financial advertising AG via FTP

Dow Jones	Product	P/AAP	Auto-Auto-Published Stories on DJBN
Dow Jones	Product	P/ACD	Autopublished Corporate Data
Dow Jones	Product	P/ACMD	Grand Central Asset Class Commodities
Dow Jones	Product	P/ACS	French corporate disclosures (French language) from Actus
Dow Jones	Product	P/AENE	Grand Central Asset Class Energy
Dow Jones	Product	P/AEQ	Asian Equities Spotlight
Dow Jones	Product	P/AEQI	Grand Central Asset Class Equities
Dow Jones	Product	P/AFXB	Grand Central Asset Class Forex Basic
Dow Jones	Product	P/AFXI	Grand Central Asset Class Fixed Income
Dow Jones	Product	P/AFXP	Grand Central Asset Class Forex Premium
Dow Jones	Product	P/AGF	Agence France Presse
Dow Jones	Product	P/ASU	Alerts Suppression
Dow Jones	Product	P/AWEB	Americas en Espanol Web
Dow Jones	Product	P/AWPk	AWP K Wire for Unlisted Company news
Dow Jones	Product	P/BCCC	Biotech Corporate Communications Consulting, Germany IE b3c Germ
Dow Jones	Product	P/BFX	Forex Block
Dow Jones	Product	P/BKCO	UK Market Talk Roundup: Broker Comments
Dow Jones	Product	P/BKG	Companies on the Bankers Report
Dow Jones	Product	P/BPFX	Dow Jones FX Select in Portuguese for Brazil
Dow Jones	Product	P/BSEX	Press releases from the Bombay Stock Exchange
Dow Jones	Product	P/BTG	beteiligungsreport.de

Dow Jones	Product	P/BWVC	Venture Capital content from Business wire for Private Markets
Dow Jones	Product	P/CALD	Dow Jones Calendar Live Data Feed (ex FX Trader content)
Dow Jones	Product	P/CDFX	FX Trader Calendar content
Dow Jones	Product	P/CMDA	Premium Commodities Asset Class Dominant Analysis Code
Dow Jones	Product	P/CMDM	Premium Commodities Asset Class Dominant News code
Dow Jones	Product	P/CMEN	News for CME
Dow Jones	Product	P/CMR	Companies on the Capital Markets Report
Dow Jones	Product	P/COMW	Companies for MarketWatch
Dow Jones	Product	P/COPY	Republished Newswires Items
Dow Jones	Product	P/CRU	Special Reports Energy
Dow Jones	Product	P/CSN	Press release and disclosures Cision
Dow Jones	Product	P/DAP	Autoprocessed Stories
Dow Jones	Product	P/DCX	Copy from DC Bureau
Dow Jones	Product	P/DHS	Stocks To Watch
Dow Jones	Product	P/DIND	Deals India
Dow Jones	Product	P/DJBP	DJ em Portuguese
Dow Jones	Product	P/DJBR	stories from Dow Jones Bankruptcy Review
Dow Jones	Product	P/DJCB	Companies on the Corporate Bond Service
Dow Jones	Product	P/DJCG	Dow Jones Commodities News German for RBS
Dow Jones	Product	P/DJCN	Dow Jones Commodities News English for RBS

Dow Jones	Product	P/DJCS	Companies on the Dow Jones Commodities Service
Dow Jones	Product	P/DLAP	Dutch Language Newswires auto-published items
Dow Jones	Product	P/E2H	Auto-generated elementized-to-headlines content
Dow Jones	Product	P/E2HE	auto-generated English elementized-to-headline (E2H)
Dow Jones	Product	P/ECON	Algo Econ content
Dow Jones	Product	P/EDS	Edited summaries
Dow Jones	Product	P/EIE	Equity Investor Europe
Dow Jones	Product	P/EMB	Embargoed Journal Stories
Dow Jones	Product	P/ENDA	Premium Energy Asset Class Dominant Analysis Code
Dow Jones	Product	P/ENDM	Premium Energy Asset Class Dominant News code
Dow Jones	Product	P/EQDA	Premium Equities Asset Class Dominant Analysis Code
Dow Jones	Product	P/EQDM	Premium Equities Asset Class Dominant News Code
Dow Jones	Product	P/EQE	Equity Trader Europe
Dow Jones	Product	P/ESPT	eSpot editor content
Dow Jones	Product	P/EWR	Companies on the Economic Report
Dow Jones	Product	P/EXCL	Exclusive
Dow Jones	Product	P/FAN	fair-NEWS.de
Dow Jones	Product	P/FDTN	Dow Jones French Domestic Top News
Dow Jones	Product	P/FIDA	Premium Fixed Income Asset Class Dominant Analysis Code
Dow Jones	Product	P/FIDM	Premium Fixed Income Asset Class Dominant News Code
Dow Jones	Product	P/FNVW	Financial News Vendor Wire

Dow Jones	Product	P/FRTN	Dow Jones French Regional Top News
Dow Jones	Product	P/FXAR	Dow Jones FX Select in Arabic
Dow Jones	Product	P/FXCH	Dow Jones Chinese FX Select
Dow Jones	Product	P/FXCL	FXTrader Exclusive FXCall
Dow Jones	Product	P/FXCM	FX Commodities Market Coverage
Dow Jones	Product	P/FXDA	Premium FX Asset Class Dominant Analysis Code
Dow Jones	Product	P/FXDM	FXTrader Dominant
Dow Jones	Product	P/FXEQ	FXTrader Equities Market Coverage
Dow Jones	Product	P/FXEX	FX Trader Exclusive
Dow Jones	Product	P/FXFT	FXTrader First Take
Dow Jones	Product	P/FXFX	FX Foreign Exchange Market Coverage
Dow Jones	Product	P/FXHT	FX hot
Dow Jones	Product	P/FXIR	FX Interest Rates Market Coverage
Dow Jones	Product	P/FXJA	Dow Jones Japanese FX Select
Dow Jones	Product	P/FXLM	FX Latest Market Coverage
Dow Jones	Product	P/FXMB	FX Morning Briefing
Dow Jones	Product	P/FXRU	FX Select Russian
Dow Jones	Product	P/FXSI	MF Dow Jones FX Select in Italian
Dow Jones	Product	P/FXST	FXTrader Exclusive Strategy
Dow Jones	Product	P/FXTR	Dow Jones FX Trader
Dow Jones	Product	P/GAM	Globe & Mail
Dow Jones	Product	P/GDTN	Dow Jones German Domestic Top News

Dow Jones	Product	P/GEEC	German Energy & Commodity News from Nabuu
Dow Jones	Product	P/GEI	G7 Economic Indicators Headlines
Dow Jones	Product	P/GMA	German Multi Asset
Dow Jones	Product	P/GRTN	Dow Jones German Regional Top News
Dow Jones	Product	P/GWEB	German DJ Web
Dow Jones	Product	P/HDL	Headline-Only Items-All
Dow Jones	Product	P/HIF	Headline Indicator Feed
Dow Jones	Product	P/HKEX	Press releases from the Hong Kong Stock Exchange
Dow Jones	Product	P/HLO	Headline-Only Items-Standalone
Dow Jones	Product	P/IBC	Investment Banker content
Dow Jones	Product	P/IDTN	MF Dow Jones Italian Domestic Top News
Dow Jones	Product	P/IMBL	Stock Imbalances
Dow Jones	Product	P/IRTN	MF Dow Jones Italian Regional Top News
Dow Jones	Product	P/ITLP	Italian Language Package
Dow Jones	Product	P/JSE	Johannesburg Stock Exchange News Service
Dow Jones	Product	P/JWS	Stories from the Japanese Language wsj.com
Dow Jones	Product	P/KSXC	Karachi Stock Exchange in Pakistan
Dow Jones	Product	P/LALR	Latvian Language Releases
Dow Jones	Product	P/LCK	Washington, D.C. Lockups
Dow Jones	Product	P/LTLR	Lithuanian Language releases
Dow Jones	Product	P/MAAD	Dow Jones Multi-Asset Advanced
Dow Jones	Product	P/MABA	Dow Jones Multi-Asset Basic

Dow Jones	Product	P/MACT	London Most Actives
Dow Jones	Product	P/MAFX	Macro for FX Trader
Dow Jones	Product	P/MAST	Dow Jones Multi-Asset Standard
Dow Jones	Product	P/MCOL	MarketWatch column
Dow Jones	Product	P/MDK	Media Monitor Desk Pickups
Dow Jones	Product	P/MFIT	MFDJ Italian
Dow Jones	Product	P/ MWAH	After Hours
Dow Jones	Product	P/MWAJ	Amotz Asa-El's View from Jerusalem
Dow Jones	Product	P/MWAL	Al Lewis
Dow Jones	Product	P/ MWAM	Asia Markets
Dow Jones	Product	P/ MWAN	Analysts
Dow Jones	Product	P/ MWAS	Airline Stocks
Dow Jones	Product	P/ MWBB	Before the Bell
Dow Jones	Product	P/ MWBO	Bond Report
Dow Jones	Product	P/ MWBU	MarketWatch Bulletins
Dow Jones	Product	P/ MWCA	Caixin Online
Dow Jones	Product	P/ MWCB	Consumer Banking
Dow Jones	Product	P/ MWCC	Commodities Corner

Dow Jones	Product	P/ MWCH	Craig Stephen's This Week in China
Dow Jones	Product	P/MWCJ	Chuck Jaffe
Dow Jones	Product	P/ MWCM	Credit Markets
Dow Jones	Product	P/ MWCN	Canadian Markets
Dow Jones	Product	P/ MWCR	Capitol Report
Dow Jones	Product	P/ MWCU	Currencies
Dow Jones	Product	P/ MWCV	Car Review
Dow Jones	Product	P/ MWCX	Corrections
Dow Jones	Product	P/MWEC	Earnings
Dow Jones	Product	P/MWEI	ETF Investing
Dow Jones	Product	P/ MWEM	Emerging Markets Report
Dow Jones	Product	P/ MWEN	Economic Outlook
Dow Jones	Product	P/ MWEQ	Earnings Outlook
Dow Jones	Product	P/MWEP	Economic Preview
Dow Jones	Product	P/MWER	Economic Report
Dow Jones	Product	P/MWES	Energy Stocks
Dow Jones	Product	P/ MWEW	Earnings Watch

Dow Jones	Product	P/ MWFM	Forecaster of the Month
Dow Jones	Product	P/MWFR	The Fed
Dow Jones	Product	P/MWFS	Financial Stocks
Dow Jones	Product	P/MWFT	MarketWatch First Take
Dow Jones	Product	P/ MWFU	Futures Movers
Dow Jones	Product	P/ MWHC	Health-care Stocks
Dow Jones	Product	P/ MWHG	Hedge Funds
Dow Jones	Product	P/ MWHL	MarketWatch Headlines
Dow Jones	Product	P/MWID	Indications
Dow Jones	Product	P/MWIK	Irwin Kellner
Dow Jones	Product	P/MWIP	IPO Report
Dow Jones	Product	P/MWJB	Jonathan Burton's Life Savings
Dow Jones	Product	P/ MWJD	John Dvorak's Second Opinion
Dow Jones	Product	P/MWJF	Jon Friedman's Media Web
Dow Jones	Product	P/MWJL	Jim Lowell
Dow Jones	Product	P/MWJP	John Prestbo's Indexed Investor
Dow Jones	Product	P/ MWKM	Kathleen Madigan
Dow Jones	Product	P/MWLA	Latin American Markets

Dow Jones	Product	P/ MWLM	Lawrence G. McMillan
Dow Jones	Product	P/ MWLN	London Markets
Dow Jones	Product	P/ MWMF	Mutual Funds
Dow Jones	Product	P/ MWMH	Mark Hulbert
Dow Jones	Product	P/ MWMK	Europe Markets
Dow Jones	Product	P/ MWMO	Marsh on Monday
Dow Jones	Product	P/ MWMR	Media Report
Dow Jones	Product	P/ MWMS	Metals Stocks
Dow Jones	Product	P/ MWMT	Mortgages
Dow Jones	Product	P/ MWMV	Movers & Shakers
Dow Jones	Product	P/MWN	Energy on Market Watch
Dow Jones	Product	P/ MWNW	Newswatch
Dow Jones	Product	P/ MWOB	Outside the Box
Dow Jones	Product	P/ MWPB	MarketWatch Pulse Bullets
Dow Jones	Product	P/ MWPC	Darrell Delamaide's Political Capital
Dow Jones	Product	P/ MWPD	Personal Finance Daily

Dow Jones	Product	P/MWPF	Paul B. Farrell
Dow Jones	Product	P/MWRE	Real Estate Weekly
Dow Jones	Product	P/ MWRG	The Ratings Game
Dow Jones	Product	P/MWRL	Retirement Living
Dow Jones	Product	P/ MWRN	Rex Nutting
Dow Jones	Product	P/ MWRP	Robert Powell
Dow Jones	Product	P/ MWRS	Retail Stocks
Dow Jones	Product	P/ MWSN	Market Snapshot
Dow Jones	Product	P/MWST	Stocks to Watch
Dow Jones	Product	P/ MWSW	SportsWatch
Dow Jones	Product	P/MWT	MarketWatch Content
Dow Jones	Product	P/MWTI	The Technical Indicator
Dow Jones	Product	P/MWTL	Telecom Stocks
Dow Jones	Product	P/ MWTN	Top Ten
Dow Jones	Product	P/ MWTP	Therese Poletti's Tech Tales
Dow Jones	Product	P/ MWTR	Telecom Report
Dow Jones	Product	P/MWTS	Tech Stocks
Dow Jones	Product	P/ MWTV	Travel

Dow Jones	Product	P/ MWWC	Washington Calendar
Dow Jones	Product	P/MWWI	Weekend Investor
Dow Jones	Product	P/ MWWK	Mutual Funds Weekly
Dow Jones	Product	P/ MWWM	Andrea Coombes' Ways and Means
Dow Jones	Product	P/ MWWS	MarketWatch Full Story
Dow Jones	Product	P/ MWWW	David Weidner's Writing on the Wall
Dow Jones	Product	P/NIB	Nordic International Basic
Dow Jones	Product	P/NIP	Nordic International Pro
Dow Jones	Product	P/NRG	Companies on the Energy Service
Dow Jones	Product	P/OAC	Open Access Content
Dow Jones	Product	P/OACF	Open Access Chinese Financial Wire Headlines
Dow Jones	Product	P/OACO	Open Access Chinese Online Service
Dow Jones	Product	P/OACT	Open Access Chinese US Ticker Headlines
Dow Jones	Product	P/OAFF	Open Access Chinese Forex & Fixed Income News Headlines
Dow Jones	Product	P/OAFX	Open Access FX Select
Dow Jones	Product	P/OAGW	Open Access German Web
Dow Jones	Product	P/OBI	disclosure content from the Oslo Bors
Dow Jones	Product	P/OLGE	Online German
Dow Jones	Product	P/ORCS	Original Commodity Service Content

Dow Jones	Product	P/PIC	Wall Street Journal Graphics
Dow Jones	Product	P/PMDA	Premium Dominant Analysis Code
Dow Jones	Product	P/ PMDM	Premium Dominant News Code
Dow Jones	Product	P/PNR	Press'n'Relations GmbH
Dow Jones	Product	P/POA	Portuguese Open Access
Dow Jones	Product	P/PR15	DJ Premium 15-minute embargo
Dow Jones	Product	P/PR1M	DJ Premium 1-minute embargo
Dow Jones	Product	P/PR30	DJ Premium 30-minute embargo
Dow Jones	Product	P/PRE	Premium breaking news (real time)
Dow Jones	Product	P/PREX	DJ Premium Exclusive
Dow Jones	Product	P/PRG	pressrelations GmbH
Dow Jones	Product	P/PRXX	DJ Premium xx-minute embargo
Dow Jones	Product	P/PSH	Dow Jones North America Equities News
Dow Jones	Product	P/PWFX	Dow Jones FX Select in Portuguese
Dow Jones	Product	P/QL1	Quick Links 1 for FX Trader
Dow Jones	Product	P/QL10	Quick Links 10 for FX Trader
Dow Jones	Product	P/QL2	Quick Links 2 for FX Trader
Dow Jones	Product	P/QL3	Quick Links 3 for FX Trader
Dow Jones	Product	P/QL4	Quick Links 4 for FX Trader
Dow Jones	Product	P/QL5	Quick Links 5 for FX Trader
Dow Jones	Product	P/QL6	Quick Links 6 for FX Trader

Dow Jones	Product	P/QL7	Quick Links 7 for FX Trader
Dow Jones	Product	P/QL8	Quick Links 8 for FX Trader
Dow Jones	Product	P/QL9	Quick Links 9 for FX Trader
Dow Jones	Product	P/REP	Story Tracking Code
Dow Jones	Product	P/RNAC	AIM Notice (insert number)
Dow Jones	Product	P/RNAG	AGM Statement
Dow Jones	Product	P/RNAI	Annual Information Update
Dow Jones	Product	P/RNAL	Re Alliance
Dow Jones	Product	P/RNAP	Change of Adviser
Dow Jones	Product	P/RNAQ	Acquisition
Dow Jones	Product	P/RNAR	Re Agreement
Dow Jones	Product	P/RNAU	AIM Admission Update
Dow Jones	Product	P/RNAV	Regulatory Approval
Dow Jones	Product	P/RNBC	Base Rate Change
Dow Jones	Product	P/RNBD	Directorate change
Dow Jones	Product	P/RNBL	Blocklisting Interim Review
Dow Jones	Product	P/RNCA	Compulsory Acqn of Shares
Dow Jones	Product	P/RNCC	Statement re. (COMP COMM)
Dow Jones	Product	P/RNCH	Change to the Nomad Register
Dow Jones	Product	P/RNCI	Circ re. [add further text]
Dow Jones	Product	P/RNCN	Change of Name
Dow Jones	Product	P/RNCR	Capital Reorganisation

Dow Jones	Product	P/RNCS	Company Secretary Change
Dow Jones	Product	P/RNCT	Re Contract
Dow Jones	Product	P/RNCV	Conversion of Securities
Dow Jones	Product	P/RNDC	Doc re. [add further text]
Dow Jones	Product	P/RNDD	Rule 8.1 - [add security name]
Dow Jones	Product	P/RNDI	Disposal
Dow Jones	Product	P/RNDN	Director Declaration
Dow Jones	Product	P/RNDR	Drilling Report
Dow Jones	Product	P/RNDS	Director/PDMR Shareholding
Dow Jones	Product	P/RNDT	Disclosure Table
Dow Jones	Product	P/RNDV	Dividend Declaration
Dow Jones	Product	P/RNEG	EGM Statement
Dow Jones	Product	P/RNEX	Exch Suspension/Restoration
Dow Jones	Product	P/RNFD	Final Announcement Released
Dow Jones	Product	P/RNFH	FTSE Only (Add Headline)
Dow Jones	Product	P/RNFN	Formal Notice
Dow Jones	Product	P/RNFR	Final Results
Dow Jones	Product	P/RNFU	Further re (insert text)
Dow Jones	Product	P/RNGD	Geographical Distribution
Dow Jones	Product	P/RNHL	Holding(s) in Company
Dow Jones	Product	P/RNID	Issue of Debt
Dow Jones	Product	P/RNIE	Issue of Equity

Dow Jones	Product	P/RNIH	ISE Only (Add Headline)
Dow Jones	Product	P/RNIM	Interim Management Statement
Dow Jones	Product	P/RNIR	Interim Results
Dow Jones	Product	P/RNJV	Re Joint Venture
Dow Jones	Product	P/RNLI	Letter of Intent Signed
Dow Jones	Product	P/RNLR	Annual report & accounts
Dow Jones	Product	P/RNLS	Additional Listing
Dow Jones	Product	P/RNMR	Merger Update
Dow Jones	Product	P/RNMS	Miscellaneous
Dow Jones	Product	P/RNNA	Notice of AGM
Dow Jones	Product	P/RNNE	Notice of EGM
Dow Jones	Product	P/RNNR	Notice of Results
Dow Jones	Product	P/RNNV	Net Asset Value(s)
Dow Jones	Product	P/RNOB	Offer by [add offeror's name],
Dow Jones	Product	P/RNOD	Offer Document Posted
Dow Jones	Product	P/RNOF	Offer for [add offeree's name]
Dow Jones	Product	P/RNON	Official List Notice
Dow Jones	Product	P/RNOU	Offer Update
Dow Jones	Product	P/RNPA	AIM Prospective Admission
Dow Jones	Product	P/RNPC	Statement re. Press Comment
Dow Jones	Product	P/RNPE	Price Monitoring Extension
Dow Jones	Product	P/RNPL	Product Launch

Dow Jones	Product	P/RNPM	Stmnt re Share Price Movement
Dow Jones	Product	P/RNPN	Prior Notice of Merger
Dow Jones	Product	P/RNPO	Statement re Possible Offer
Dow Jones	Product	P/RNPP	Restructure Proposals
Dow Jones	Product	P/RNPS	Publication of Prospectus
Dow Jones	Product	P/RNPT	Statement re (POTAM)
Dow Jones	Product	P/RNPU	Portfolio Update
Dow Jones	Product	P/RNQF	1st Quarter Results
Dow Jones	Product	P/RNQT	3rd Quarter Results
Dow Jones	Product	P/RNRA	Result of AGM
Dow Jones	Product	P/RNRD	Rule 8.3 - [add security name]
Dow Jones	Product	P/RNRE	Result of EGM
Dow Jones	Product	P/RNRH	Reach
Dow Jones	Product	P/RNRI	Result of Equity Issue
Dow Jones	Product	P/RNRL	Restoration of Listing
Dow Jones	Product	P/RNRM	Result of Meeting
Dow Jones	Product	P/RNRO	Result of Tender Offer
Dow Jones	Product	P/RNRP	Regulatory Application
Dow Jones	Product	P/RNRS	Response to (insert text)
Dow Jones	Product	P/RNRT	Rule 2.10 Announcement
Dow Jones	Product	P/RNSB	Stabilisation Notice
Dow Jones	Product	P/RNSC	Scheme of arrangement

Dow Jones	Product	P/RNSE	Stock Exchange Notice(number)
Dow Jones	Product	P/RNSP	Second Price Monitoring Extn
Dow Jones	Product	P/RNSR	Statement re (insert text)
Dow Jones	Product	P/RNSS	Statement re. Suspension
Dow Jones	Product	P/RNSU	Temporary Suspension
Dow Jones	Product	P/RNSY	Syndicate Results
Dow Jones	Product	P/RNTE	Tender Offer
Dow Jones	Product	P/RNTG	Test Message
Dow Jones	Product	P/RNTK	Treasury Stock
Dow Jones	Product	P/RNTO	Transaction in Own Securities
Dow Jones	Product	P/RNTS	Trading Statement
Dow Jones	Product	P/RNTT	Offer Talks Terminated
Dow Jones	Product	P/RNVO	Total Voting Rights
Dow Jones	Product	P/RNVR	FRN Variable Rate Fix
Dow Jones	Product	P/RTRS	Hot Headlines for Reuters 2000
Dow Jones	Product	P/RWD	Stories from the rewrite desk
Dow Jones	Product	P/SCF	SEC filings
Dow Jones	Product	P/SCM	Scandinavian Small Caps
Dow Jones	Product	P/SGAN	UK Market Talk Roundup: Shares Gaining
Dow Jones	Product	P/SGN	Significant Story
Dow Jones	Product	P/SLOS	UK Market Talk Roundup: Shares Losing
Dow Jones	Product	P/SPF	SID Sport-Informationsdienst GmbH

Dow Jones	Product	P/STAT	Items from STATS LLC about sports
Dow Jones	Product	P/STD	Premium breaking news (standard)
Dow Jones	Product	P/STN	Secondary Top News
Dow Jones	Product	P/SWFX	Dow Jones FX Select in Spanish
Dow Jones	Product	P/SXH	press releases from the Singapore Exchange
Dow Jones	Product	P/TAL	FX Trader Alert
Dow Jones	Product	P/TAP	Press Releases Auto-Published on Ticker
Dow Jones	Product	P/TENS	Tensid AG stories
Dow Jones	Product	P/TGON	Dow Jones Front Page News
Dow Jones	Product	P/TICD	Test Calendar
Dow Jones	Product	P/TIFX	Test FX
Dow Jones	Product	P/TIO	2iQ Research GmbH
Dow Jones	Product	P/ TOMW	Content routed specifically to Marketwatch
Dow Jones	Product	P/UKC	UKMR derived content
Dow Jones	Product	P/UKCA	UK Calendar
Dow Jones	Product	P/UKCL	UK Calendar of Corporate Events - Week Ahead
Dow Jones	Product	P/UKGN	UK General News
Dow Jones	Product	P/UKM	Content from Sky News
Dow Jones	Product	P/UKMB	UK Morning Briefing
Dow Jones	Product	P/UKMC	UK Market Talk Brokers Comments
Dow Jones	Product	P/UKMG	UK Market Talk Gainers

Dow Jones	Product	P/UKML	UK Market Talk Losers
Dow Jones	Product	P/UKRI	UK Economic Data-Recent Indicators
Dow Jones	Product	P/UKSM	UK SUMMARY
Dow Jones	Product	P/UKSP	UK Sport
Dow Jones	Product	P/UKSR	UK SMALLCAP ROUNDUP
Dow Jones	Product	P/UKTV	UK Travel
Dow Jones	Product	P/UKWT	UK Weather
Dow Jones	Product	P/VRG	Vara Research GmbH
Dow Jones	Product	P/WLNK	WILink Reports
Dow Jones	Product	P/WMAI	Dow Jones Advisor Practice
Dow Jones	Product	P/WMMI	Dow Jones Advisor Markets
Dow Jones	Product	P/WMN	Wealth Management News
Dow Jones	Product	P/WSP	Web Scraping
Dow Jones	Product	P/WTX	Portuguese content from Webtextto
Dow Jones	Product	P/XDJN	Content Differentiation for Wealth Manager
Dow Jones	Product	P/XLN	Chinese Language DJ-Xinhua MMS Service
Dow Jones	Product	P/ZAW	Zawya content for Factiva
Dow Jones	Statistical	S/ABC	US ABC/Money Consumer Sentiment Survey
Dow Jones	Statistical	S/ACT	Most Actives
Dow Jones	Statistical	S/ADPE	US ADP Employment Report
Dow Jones	Statistical	S/AIW	Asian IPO Watch
Dow Jones	Statistical	S/ALL	All Statistics

Dow Jones	Statistical	S/API	American Petroleum Institute Weekly Statistics
Dow Jones	Statistical	S/ATPI	Air Travel Price Index
Dow Jones	Statistical	S/AUBA	Australia Building Approvals
Dow Jones	Statistical	S/AUBI	Australia Business Indicators
Dow Jones	Statistical	S/AUBP	Australia Balance of Payments
Dow Jones	Statistical	S/AUCP	Australia CPI
Dow Jones	Statistical	S/AUCR	Australia RBA Cash Rate
Dow Jones	Statistical	S/AUCS	Australia Consumer Sentiment
Dow Jones	Statistical	S/AUEM	Australia Employment
Dow Jones	Statistical	S/AUFX	Australia RBA Foreign Exchange Transactions
Dow Jones	Statistical	S/AUGP	Australia GDP
Dow Jones	Statistical	S/AUHF	Australia Housing Finance
Dow Jones	Statistical	S/AUHS	Australia Housing Starts
Dow Jones	Statistical	S/AUIT	Australia International Trade
Dow Jones	Statistical	S/AULP	Australia Labor Price Index
Dow Jones	Statistical	S/AUPP	Australia PPI
Dow Jones	Statistical	S/AURS	Australia Retail Sales
Dow Jones	Statistical	S/ AUWM	Australia Westpac-MI Leading Index
Dow Jones	Statistical	S/AVA	PIR Average Volume
Dow Jones	Statistical	S/BEBC	Belgium Business Confidence
Dow Jones	Statistical	S/BECP	Belgium CPI - Estimate

Dow Jones	Statistical	S/BEGP	Belgium GDP
Dow Jones	Statistical	S/BLP	US Building Permits
Dow Jones	Statistical	S/BRCA	Brazil Current Account
Dow Jones	Statistical	S/BREM	Brazil Employment/Unemployment
Dow Jones	Statistical	S/BRFT	Brazil Foreign Trade
Dow Jones	Statistical	S/BRGP	Brazil GDP
Dow Jones	Statistical	S/BRIC	Brazil IPCA CPI (Inflation)
Dow Jones	Statistical	S/BRIO	Brazil Industrial Output
Dow Jones	Statistical	S/BRPD	Brazil Public Debt
Dow Jones	Statistical	S/BRRS	Brazil Retail Sales
Dow Jones	Statistical	S/BRSE	Brazil SELIC Interest Rate/Reference Rate
Dow Jones	Statistical	S/CALL	Calendar Live
Dow Jones	Statistical	S/CCR	US Consumer Credit
Dow Jones	Statistical	S/CCU	Capacity Utilization
Dow Jones	Statistical	S/CGA	Canadian Gas Storage
Dow Jones	Statistical	S/CHFL	China HSBC Mfg PMI - Final
Dow Jones	Statistical	S/CHMF	China HSBC Mfg PMI - Flash Estimate
Dow Jones	Statistical	S/CHPB	China PBOC Rate Change
Dow Jones	Statistical	S/CHPM	China CFLP Mfg PMI
Dow Jones	Statistical	S/CHRT	China Retail Sales
Dow Jones	Statistical	S/CMMI	US Chicago Fed MMI
Dow Jones	Statistical	S/CNAI	US Chicago Fed NAI

Dow Jones	Statistical	S/CNBL	Canada Building Permits
Dow Jones	Statistical	S/CNBP	Canada Balance of Payments
Dow Jones	Statistical	S/CNC	US Consumer Confidence
Dow Jones	Statistical	S/CNCP	Canada CPI
Dow Jones	Statistical	S/CNEM	Canada Employment
Dow Jones	Statistical	S/CNFA	China Fixed-Asset Investment
Dow Jones	Statistical	S/CNGD	Canada GDP
Dow Jones	Statistical	S/CNGP	China GDP
Dow Jones	Statistical	S/CNHP	Canada New House Prices
Dow Jones	Statistical	S/CNHS	Canada Housing Starts
Dow Jones	Statistical	S/CNIC	Canada Industrial Capacity Utilization Rate
Dow Jones	Statistical	S/CNIP	China Industrial Production
Dow Jones	Statistical	S/CNIR	Canada BoC Interest Rate Decision
Dow Jones	Statistical	S/CNIS	Canada International Securities Transactions
Dow Jones	Statistical	S/CNIV	Canada Ivey PMI Index
Dow Jones	Statistical	S/CNLI	Canada Leading Indicators
Dow Jones	Statistical	S/CNMR	Canada Monetary Reserves
Dow Jones	Statistical	S/CNMS	Canada Manufacturing Survey
Dow Jones	Statistical	S/CNMT	Canada Merchandise Trade
Dow Jones	Statistical	S/CNPB	China PBOC Financial Statistics
Dow Jones	Statistical	S/CNPI	China CPI
Dow Jones	Statistical	S/CNPP	China PPI

Dow Jones	Statistical	S/CNRM	Canada Industrial Raw Material Prices
Dow Jones	Statistical	S/CNRS	Canada Retail Sales
Dow Jones	Statistical	S/CNTD	China Trade (exports, imports, surplus)
Dow Jones	Statistical	S/CNWT	Canada Wholesale Trade
Dow Jones	Statistical	S/CPI	US Consumer Price Index
Dow Jones	Statistical	S/CSR	Consumer Savings Rates
Dow Jones	Statistical	S/CSS	US Construction Spending
Dow Jones	Statistical	S/DAFS	US Dallas Fed Survey
Dow Jones	Statistical	S/DECB	Denmark Central Bank Rate Decision
Dow Jones	Statistical	S/DECE	Denmark Consumer Expectations
Dow Jones	Statistical	S/DECP	Denmark CPI
Dow Jones	Statistical	S/DEGD	Denmark GDP
Dow Jones	Statistical	S/DEPM	Denmark PMI Manufacturing
Dow Jones	Statistical	S/DESI	US Economic Sentiment Indicator
Dow Jones	Statistical	S/DEUN	Denmark Unemployment
Dow Jones	Statistical	S/DJA	Dow Jones Stock Averages (Half-Hourly)
Dow Jones	Statistical	S/DOE	Department of Energy Weekly Data
Dow Jones	Statistical	S/DTB	Stock Market Data Bank
Dow Jones	Statistical	S/DUR	US Durable Goods
Dow Jones	Statistical	S/DVA	PIR Dollar Volume Most Actives
Dow Jones	Statistical	S/DVR	Dividend Report Table
Dow Jones	Statistical	S/DWB	Discount Window Borrowings

Dow Jones	Statistical	S/ECI	US Employment Cost Index
Dow Jones	Statistical	S/EEI	Edison Electric Institute Weekly Electric Output
Dow Jones	Statistical	S/ERS	Earnings Alerts
Dow Jones	Statistical	S/EUBC	European Union Bus & Cons Confidence
Dow Jones	Statistical	S/EUBD	European Union ECB Bank Direction
Dow Jones	Statistical	S/EUBP	European Union Balance of Payments
Dow Jones	Statistical	S/EUBR	European Union ECB Bank Rate
Dow Jones	Statistical	S/EUCC	European Union Flash Consumer Confidence
Dow Jones	Statistical	S/EUCF	European Union CPI2-Final
Dow Jones	Statistical	S/EUCP	European Union CPI1-Est
Dow Jones	Statistical	S/EUG1	European Union GDP1-Flash
Dow Jones	Statistical	S/EUG2	European Union GDP2-Revised
Dow Jones	Statistical	S/EUG3	European Union GDP3-Final
Dow Jones	Statistical	S/EUIP	European Union Industrial Production
Dow Jones	Statistical	S/EUJR	European Union Jobless Rate
Dow Jones	Statistical	S/EULC	European Union Labor Cost Index
Dow Jones	Statistical	S/EUMS	European Union Money Supply
Dow Jones	Statistical	S/EUNO	European Union New Orders
Dow Jones	Statistical	S/EUPG	European Union PMI-Flash Estimates
Dow Jones	Statistical	S/EUPM	European Union PMI-Manufacturing
Dow Jones	Statistical	S/EUPP	European Union Producer Prices
Dow Jones	Statistical	S/EURS	European Union Retail Sales

Dow Jones	Statistical	S/EUSV	European Union PMI-Services
Dow Jones	Statistical	S/EUTB	European Union Trade Balance
Dow Jones	Statistical	S/EXD	Stocks Ex-Dividend
Dow Jones	Statistical	S/FCO	US Factory Orders
Dow Jones	Statistical	S/FNS	Mutual Fund Statistics-Data
Dow Jones	Statistical	S/FRBC	France Consumer Confidence
Dow Jones	Statistical	S/FRBS	France Business Sentiment
Dow Jones	Statistical	S/FRCP	France CPI1 -Prelim
Dow Jones	Statistical	S/FRCS	France Consumer Spending
Dow Jones	Statistical	S/FREP	US Federal Reserve Economic Projections
Dow Jones	Statistical	S/FRGF	France GDP1 -Flash
Dow Jones	Statistical	S/FRGP	France GDP3-Final
Dow Jones	Statistical	S/FRIP	France Industrial Production
Dow Jones	Statistical	S/FRJR	France Jobless Rate
Dow Jones	Statistical	S/FRMU	France Monthly Unemployed
Dow Jones	Statistical	S/FRPE	France PMI-Flash Estimates
Dow Jones	Statistical	S/FRPM	France PMI-Manufacturing
Dow Jones	Statistical	S/FRPP	France PPI
Dow Jones	Statistical	S/FRPS	France PMI-Services
Dow Jones	Statistical	S/FRS	Federal Reserve Surveys
Dow Jones	Statistical	S/FXH	Foreign Exchange Rates (Hourly)
Dow Jones	Statistical	S/GEBA	Germany Bavaria CPI

Dow Jones	Statistical	S/GEBR	Germany Brandenburg CPI
Dow Jones	Statistical	S/GEBW	Germany Baden-Wuerttemberg CPI
Dow Jones	Statistical	S/GECC	Germany Consumer Confidence
Dow Jones	Statistical	S/GE CF	Germany CPI2-Final
Dow Jones	Statistical	S/GECP	Germany CPI1 -Prelim
Dow Jones	Statistical	S/GE G2	Germany GDP2
Dow Jones	Statistical	S/GE GF	Germany GDP1-Flash
Dow Jones	Statistical	S/GEHE	Germany Hesse CPI
Dow Jones	Statistical	S/GEIB	Germany IFO Business Confidence
Dow Jones	Statistical	S/GEIF	Germany IFO Business Confidence Direction
Dow Jones	Statistical	S/GEIP	Germany Industrial Production
Dow Jones	Statistical	S/GEJR	Germany Jobless Rate Actual
Dow Jones	Statistical	S/GEJS	Germany Jobless Rate Source
Dow Jones	Statistical	S/GE MO	Germany Manufacturing Orders
Dow Jones	Statistical	S/GENR	Germany North-Rhine Westphalia CPI
Dow Jones	Statistical	S/GE PF	Germany PMI-Flash Estimates
Dow Jones	Statistical	S/GE PM	Germany PMI-Manufacturing
Dow Jones	Statistical	S/GE PP	Germany PPI
Dow Jones	Statistical	S/GE PS	Germany PMI-Services
Dow Jones	Statistical	S/GE RS	Germany Retail Sales
Dow Jones	Statistical	S/GE SC	Germany Saxony CPI
Dow Jones	Statistical	S/GE ZE	Germany ZEW Business Confidence

Dow Jones	Statistical	S/GNP	US Gross Domestic Product
Dow Jones	Statistical	S/GRBD	Greece Budget Deficit
Dow Jones	Statistical	S/GRCN	Greece Consumer Prices
Dow Jones	Statistical	S/GRGP	Greece GDP
Dow Jones	Statistical	S/GRUN	Greece Unemployment
Dow Jones	Statistical	S/HCL	Housing Completions
Dow Jones	Statistical	S/HFO	US H.4.1 Release
Dow Jones	Statistical	S/HKCP	HK CPI
Dow Jones	Statistical	S/HKGD	HK GDP
Dow Jones	Statistical	S/HKRS	HK Retail Sales
Dow Jones	Statistical	S/HKTD	HK Trade
Dow Jones	Statistical	S/HKUP	HK Unemployment
Dow Jones	Statistical	S/HLR	Analysts' Highest-, Lowest-Rated Stocks
Dow Jones	Statistical	S/HOS	US Housing Starts
Dow Jones	Statistical	S/HSE	US Existing Home Sales
Dow Jones	Statistical	S/HSL	US Home Sales
Dow Jones	Statistical	S/HWI	Conference Board Help-Wanted Index
Dow Jones	Statistical	S/IEBD	Ireland Budget Deficit
Dow Jones	Statistical	S/IECP	Ireland CPI
Dow Jones	Statistical	S/IEGP	Ireland GDP
Dow Jones	Statistical	S/IEUN	Ireland Unemployment
Dow Jones	Statistical	S/IJC	US Initial Jobless Claims

Dow Jones	Statistical	S/INM	US ISM Non-Manufacturing
Dow Jones	Statistical	S/INV	US Business Inventories
Dow Jones	Statistical	S/IOCB	Indonesia Central Bank Rate Decisions
Dow Jones	Statistical	S/IOCP	Indonesia CPI
Dow Jones	Statistical	S/IOGD	Indonesia GDP
Dow Jones	Statistical	S/IOTR	Indonesia Trade
Dow Jones	Statistical	S/IPD	US Industrial Production
Dow Jones	Statistical	S/IPO	IPO Spotlight
Dow Jones	Statistical	S/ITBC	Italy Business Confidence
Dow Jones	Statistical	S/ITCC	Italy Consumer Confidence
Dow Jones	Statistical	S/ITCF	Italy CPI-Final
Dow Jones	Statistical	S/ITCP	Italy CPI Prelim
Dow Jones	Statistical	S/ITGD	Italy GDP1-Prelim
Dow Jones	Statistical	S/ITGF	Italy GDP2-Final
Dow Jones	Statistical	S/ITIO	Italy Industrial Orders & Sales
Dow Jones	Statistical	S/ITIP	Italy Industrial Production
Dow Jones	Statistical	S/ITPM	Italy PMI-Manufacturing
Dow Jones	Statistical	S/ITPP	Italy Producer Prices
Dow Jones	Statistical	S/ITPS	Italy PMI-Services
Dow Jones	Statistical	S/ITR	Insider Transactions
Dow Jones	Statistical	S/JAAE	Japan Auto Exports
Dow Jones	Statistical	S/JAAI	Japan All Industry Activity Index

Dow Jones	Statistical	S/JAAP	Japan Auto Production
Dow Jones	Statistical	S/JAAS	Japan Auto Sales
Dow Jones	Statistical	S/JABL	Japan Bank Lending
Dow Jones	Statistical	S/JABT	Japan Balance of Trade
Dow Jones	Statistical	S/JACA	Japan Current Account
Dow Jones	Statistical	S/JACG	Japan Corporate Goods Price Index
Dow Jones	Statistical	S/JACO	Japan Construction Orders
Dow Jones	Statistical	S/JACP	Japan CPI
Dow Jones	Statistical	S/JAFR	Japan Foreign Reserves
Dow Jones	Statistical	S/JAGP	Japan GDP1-Prelim
Dow Jones	Statistical	S/JAGR	Japan GDP2-Revised
Dow Jones	Statistical	S/JAHS	Japan Housing Starts
Dow Jones	Statistical	S/JAIP	Japan Industrial Production Preliminary
Dow Jones	Statistical	S/JAIR	Japan Industrial Production Revised
Dow Jones	Statistical	S/JAJR	Japan Jobless Rate
Dow Jones	Statistical	S/JALI	Japan Leading Indicators
Dow Jones	Statistical	S/JAMO	Japan Machinery Orders
Dow Jones	Statistical	S/JAMS	Japan Money Supply
Dow Jones	Statistical	S/JARC	Japan BoJ Rate Change
Dow Jones	Statistical	S/JARS	Japan Retail Sales
Dow Jones	Statistical	S/JATI	Japan Tertiary Industry Activity Index
Dow Jones	Statistical	S/JATN	Japan Tankan

Dow Jones	Statistical	S/JAWE	Japan Wage Earn Household Spending
Dow Jones	Statistical	S/JPR	Japan Preliminary Portfolio Data indicator
Dow Jones	Statistical	S/JRD	Johnson Redbook
Dow Jones	Statistical	S/KCMS	US Kansas City Fed Manufacturing Survey
Dow Jones	Statistical	S/KIR	Key Interest Rates
Dow Jones	Statistical	S/LIN	US Leading Indicators
Dow Jones	Statistical	S/MFG	US ISM Manufacturing
Dow Jones	Statistical	S/MFS	Mutual Fund Scorecard
Dow Jones	Statistical	S/MNE	Money Supply
Dow Jones	Statistical	S/MNR	Money Rates
Dow Jones	Statistical	S/MXCA	Mexico Current Account
Dow Jones	Statistical	S/MXGP	Mexico GDP
Dow Jones	Statistical	S/MXIN	Mexico CPI (Inflation)
Dow Jones	Statistical	S/MXIO	Mexico Industrial Output
Dow Jones	Statistical	S/MXIR	Mexico Interest Rate
Dow Jones	Statistical	S/MXTB	Mexico Trade Balance
Dow Jones	Statistical	S/MYCB	Malaysia Central Bank Rate Decision
Dow Jones	Statistical	S/MYCP	Malaysia CPI
Dow Jones	Statistical	S/MYGD	Malaysia GDP
Dow Jones	Statistical	S/MYIP	Malaysia Industrial Production
Dow Jones	Statistical	S/MYTR	Malaysia Trade
Dow Jones	Statistical	S/NBL	National Bank Loans

Dow Jones	Statistical	S/NFB	US Non-Farm Business Productivity (Quarterly)
Dow Jones	Statistical	S/NFP	US Employment/Non-Farm Payrolls (Monthly)
Dow Jones	Statistical	S/NLCC	Netherlands Consumer Confidence
Dow Jones	Statistical	S/NLCN	Netherlands Consumer Prices
Dow Jones	Statistical	S/NLGP	Netherlands GDP
Dow Jones	Statistical	S/NLPC	Netherlands Producer Confidence
Dow Jones	Statistical	S/NLTR	Netherlands Trade
Dow Jones	Statistical	S/NLUN	Netherlands Unemployment
Dow Jones	Statistical	S/NOCP	Norway CPI
Dow Jones	Statistical	S/NOET	Norway External Trade
Dow Jones	Statistical	S/NOGD	Norway GDP
Dow Jones	Statistical	S/NOLF	Norway Labor Force Survey
Dow Jones	Statistical	S/NONB	Norway Norges Bank Rate
Dow Jones	Statistical	S/NOPI	Norway Production Index
Dow Jones	Statistical	S/NORS	Norway Retail Sales
Dow Jones	Statistical	S/NSI	NASDAQ/NYSE/Amex Short Interest
Dow Jones	Statistical	S/NYFE	US NY Fed Empire State Survey
Dow Jones	Statistical	S/NYI	US ISM-NY Current Business Index
Dow Jones	Statistical	S/NZBC	New Zealand NBNZ Business Confidence
Dow Jones	Statistical	S/NZBP	New Zealand Balance of Payments
Dow Jones	Statistical	S/NZCP	New Zealand CPI
Dow Jones	Statistical	S/NZGD	New Zealand GDP

Dow Jones	Statistical	S/NZHL	New Zealand Household Labor Survey
Dow Jones	Statistical	S/NZOM	New Zealand Overseas Merchandise Trade
Dow Jones	Statistical	S/NZPP	New Zealand PPI
Dow Jones	Statistical	S/NZRR	New Zealand RBNZ Rate
Dow Jones	Statistical	S/NZRS	New Zealand Retail Sales
Dow Jones	Statistical	S/NZTI	New Zealand Trade Indexes
Dow Jones	Statistical	S/OEX	CBOE S&P 100 Index Options Closing Prices
Dow Jones	Statistical	S/OIL	Oil
Dow Jones	Statistical	S/PAL	PIR Price Alerts
Dow Jones	Statistical	S/PGT	Program Trading
Dow Jones	Statistical	S/PHCB	Philippines Central Bank Decisions
Dow Jones	Statistical	S/PHEX	Philippines Exports
Dow Jones	Statistical	S/PHFS	US Philadelphia Fed Survey
Dow Jones	Statistical	S/PHGD	Philippines GDP
Dow Jones	Statistical	S/PHIM	Philippines Imports
Dow Jones	Statistical	S/PHIN	Philippines Inflation
Dow Jones	Statistical	S/PHWR	Philippines Overseas Workers Remittance
Dow Jones	Statistical	S/PIN	US Personal Income
Dow Jones	Statistical	S/PPG	PIR Price Percentage Gainers
Dow Jones	Statistical	S/PPI	US Producer Price Index
Dow Jones	Statistical	S/PPL	PIR Price Percentage Losers
Dow Jones	Statistical	S/PTBD	Portugal Budget Deficit

Dow Jones	Statistical	S/PTCP	Portugal CPI
Dow Jones	Statistical	S/PTF	Closed-End Funds
Dow Jones	Statistical	S/PTGP	Portugal GDP
Dow Jones	Statistical	S/PTUN	Portugal Unemployment
Dow Jones	Statistical	S/PUR	US Purchasing Agents' Surveys
Dow Jones	Statistical	S/REN	Real Earnings
Dow Jones	Statistical	S/RFSV	US Richmond Fed Survey
Dow Jones	Statistical	S/RISK	Risk Tables
Dow Jones	Statistical	S/RSL	US Retail Sales
Dow Jones	Statistical	S/RSV	US Reserve Assets
Dow Jones	Statistical	S/SKCP	South Korea CPI
Dow Jones	Statistical	S/SKGP	South Korea GDP
Dow Jones	Statistical	S/SKIP	South Korea Industrial Production
Dow Jones	Statistical	S/SKNP	South Korea Current Account (no preview)
Dow Jones	Statistical	S/SKRD	South Korea Rate Decision
Dow Jones	Statistical	S/SKTB	South Korea Trade Balance
Dow Jones	Statistical	S/SNCP	Singapore Consumer Price Index
Dow Jones	Statistical	S/SNET	Singapore External Trade
Dow Jones	Statistical	S/SNGA	Singapore GDP, Advance
Dow Jones	Statistical	S/SNGU	Singapore GDP, Update
Dow Jones	Statistical	S/SNMA	Singapore MAS Policy reviews
Dow Jones	Statistical	S/SNP	Price/Earnings Ratio Table

Dow Jones	Statistical	S/SNR	Investor Sentiment Readings
Dow Jones	Statistical	S/SPBD	Spain Budget Deficit
Dow Jones	Statistical	S/SPCA	Spain Current Account
Dow Jones	Statistical	S/SPCP	Spain CPI
Dow Jones	Statistical	S/SPGP	Spain GDP
Dow Jones	Statistical	S/SPHC	Spain Flash HCPI-Estimate
Dow Jones	Statistical	S/SPHP	Spain House Prices
Dow Jones	Statistical	S/SPI	Stock Index Futures Settlement Prices
Dow Jones	Statistical	S/SPUN	Spain Unemployment
Dow Jones	Statistical	S/STT	Stock Market Statistics
Dow Jones	Statistical	S/SVA	PIR Share Volume Most Actives
Dow Jones	Statistical	S/SWBP	Sweden Balance of Payments
Dow Jones	Statistical	S/SWCP	Sweden CPI
Dow Jones	Statistical	S/SWCT	Sweden Consumer Tendency Survey
Dow Jones	Statistical	S/SWGP	Sweden GDP
Dow Jones	Statistical	S/SWIP	Sweden Industrial Production
Dow Jones	Statistical	S/SWLF	Sweden Labor Force Survey
Dow Jones	Statistical	S/SWPP	Sweden PPI
Dow Jones	Statistical	S/SWRR	Sweden Riksbank Repo Rate
Dow Jones	Statistical	S/SWRS	Sweden Retail Sales
Dow Jones	Statistical	S/SWTB	Sweden Trade Balance
Dow Jones	Statistical	S/SZCH	Switzerland CHF 3Mo Libor Rate Band

Dow Jones	Statistical	S/SZCI	Switzerland Consumption Indicator
Dow Jones	Statistical	S/SZCP	Switzerland CPI
Dow Jones	Statistical	S/SZCS	Switzerland Consumer Sentiment Index
Dow Jones	Statistical	S/SZES	Switzerland ZEW-CS Economic Sentiment
Dow Jones	Statistical	S/SZFT	Switzerland Foreign Trade
Dow Jones	Statistical	S/SZGD	Switzerland GDP
Dow Jones	Statistical	S/SZIP	Switzerland Industrial Production
Dow Jones	Statistical	S/SZKO	Switzerland KOF Economic Barometer
Dow Jones	Statistical	S/SZPM	Switzerland PMI
Dow Jones	Statistical	S/SZPP	Switzerland PPI
Dow Jones	Statistical	S/SZRS	Switzerland Retail Sales
Dow Jones	Statistical	S/SZSN	Switzerland SNB Currency Reserves
Dow Jones	Statistical	S/SZUM	Switzerland Unemployment
Dow Jones	Statistical	S/TDM	Trade: Goods & Services
Dow Jones	Statistical	S/THBO	Thailand BOT Rate Decision
Dow Jones	Statistical	S/THCP	Thailand CPI
Dow Jones	Statistical	S/THGD	Thailand GDP
Dow Jones	Statistical	S/TNX	US Conference Board Trends Index
Dow Jones	Statistical	S/TOS	Canadian Stock Market Statistics
Dow Jones	Statistical	S/TSI	Transportation Services Index
Dow Jones	Statistical	S/TTE	Tracking the Economy
Dow Jones	Statistical	S/TWCB	Taiwan Central Bank Rate Decision

Dow Jones	Statistical	S/TWCP	Taiwan CPI/WPI
Dow Jones	Statistical	S/TWEO	Taiwan Export Orders
Dow Jones	Statistical	S/TWGD	Taiwan GDP
Dow Jones	Statistical	S/TWIP	Taiwan Industrial Output
Dow Jones	Statistical	S/TWTR	Taiwan Trade
Dow Jones	Statistical	S/UKBI	UK Business Investment
Dow Jones	Statistical	S/UKBO	UK BOE MPC Vote Results
Dow Jones	Statistical	S/UKBP	UK Balance of Payments
Dow Jones	Statistical	S/UKBR	UK BoE Bank Rate
Dow Jones	Statistical	S/UKCB	UK CBI Industrial Trends Survey
Dow Jones	Statistical	S/UKCC	UK GfKNOP Consumer Confidence
Dow Jones	Statistical	S/UKCI	UK CPI
Dow Jones	Statistical	S/UKCL	UK Consumer Lending
Dow Jones	Statistical	S/UKCR	UK CBI Retail Sales
Dow Jones	Statistical	S/UKG1	UK GDP1-First Estimate
Dow Jones	Statistical	S/UKG2	UK GDP2-Revised
Dow Jones	Statistical	S/UKG3	UK GDP3-Final
Dow Jones	Statistical	S/UKHH	UK Halifax House Prices
Dow Jones	Statistical	S/UKJR	UK Jobless Rate Earnings
Dow Jones	Statistical	S/UKMI	UK Mfg and Ind Production
Dow Jones	Statistical	S/UKNP	UK Nationwide House Prices
Dow Jones	Statistical	S/UKPF	UK Public Finances

Dow Jones	Statistical	S/UKPM	UK PMI-Manufacturing
Dow Jones	Statistical	S/UKPP	UK Producer Prices
Dow Jones	Statistical	S/UKPS	UK PMI-Services
Dow Jones	Statistical	S/UKRH	UK RICS House Price
Dow Jones	Statistical	S/UKRM	UK BRC Retail Sales Monitor
Dow Jones	Statistical	S/UKRS	UK Retail Sales
Dow Jones	Statistical	S/UKTB	UK Trade Balance
Dow Jones	Statistical	S/USBT	US DJ-BTMU Business Barometer
Dow Jones	Statistical	S/USCA	US Current Account
Dow Jones	Statistical	S/USCH	US ICSC/GS Chain Store Sales
Dow Jones	Statistical	S/USCS	US S&P Case Shiller Home Price Index
Dow Jones	Statistical	S/USDE	US DOE EIA Weekly Petroleum Storage Report
Dow Jones	Statistical	S/USDW	US FedFunds-Discount Rate
Dow Jones	Statistical	S/USFF	US Fed Discount Window
Dow Jones	Statistical	S/USFH	US FHFA House Price Index
Dow Jones	Statistical	S/USHS	US NAHB Housing Index
Dow Jones	Statistical	S/USIB	US IBD-TIPP Economic Optimism Index
Dow Jones	Statistical	S/USIP	US Import Prices
Dow Jones	Statistical	S/USIT	US International Trade
Dow Jones	Statistical	S/USMB	US MBA Survey
Dow Jones	Statistical	S/USOM	US New York Fed Open Market Operation
Dow Jones	Statistical	S/USRS	US Redbook Retail Sales

Dow Jones	Statistical	S/USTA	US Treasury Auctions
Dow Jones	Statistical	S/USTR	US TIC Report
Dow Jones	Statistical	S/UVM	University of Michigan Consumer Sentiment Index
Dow Jones	Statistical	S/VOA	PIR Volume Alerts
Dow Jones	Statistical	S/WHO	US Wholesale Prices
Dow Jones	Statistical	S/WIN	Total Market Indexes
Dow Jones	Statistical	S/XMI	AMEX MMI Options Closing Prices
Dow Jones	Capital Markets	1009	European Lookahead
Dow Jones	Capital Markets	1010	UK Summary
Dow Jones	Capital Markets	1011	European Briefing
Dow Jones	Capital Markets	1012	DJ Market Talk/FX Foreign Exchange
Dow Jones	Capital Markets	1013	EU Crisis Road Map
Dow Jones	Capital Markets	1014	The Big Idea
Dow Jones	Capital Markets	1015	Top 10 Stories On Zawya Dow Jones
Dow Jones	Capital Markets	1023	Exchange Rates for IMF
Dow Jones	Capital Markets	1026	Malaysian Money Market Rates
Dow Jones	Capital Markets	1027	Mexico's Peso Comment

Dow Jones	Capital Markets	1028	Dow Jones Market Talk/Thailand Money
Dow Jones	Capital Markets	1030	DJ News Highlights
Dow Jones	Capital Markets	1032	International Calendar
Dow Jones	Capital Markets	1033	World Forex
Dow Jones	Capital Markets	1034	Asia Forex
Dow Jones	Capital Markets	1035	Midday Europe Forex
Dow Jones	Capital Markets	1037	DJ Market Talk/JP/Japan Money
Dow Jones	Capital Markets	1038	Asian Calendar
Dow Jones	Capital Markets	1039	Eurobonds
Dow Jones	Capital Markets	1042	Bank of Japan Watch
Dow Jones	Capital Markets	1043	Fed Watch
Dow Jones	Capital Markets	1044	WSJ Commodities Column
Dow Jones	Capital Markets	1048	BOE Watch
Dow Jones	Capital Markets	1049	French domestic top news
Dow Jones	Capital Markets	1050	Swiss Bonds

Dow Jones	Capital Markets	1051	French regional top news
Dow Jones	Capital Markets	1052	U.S. Political Economic Calendar
Dow Jones	Capital Markets	1053	DJ Market Talk/HK/Hong Kong Dollar
Dow Jones	Capital Markets	1054	DJ Market Talk/AU Australia Money
Dow Jones	Capital Markets	1056	Euro Money Market
Dow Jones	Capital Markets	1058	German domestic top news
Dow Jones	Capital Markets	1060	DJ Market Talk: Phillippines Money
Dow Jones	Capital Markets	1061	DJ Market Talk: Taiwan Money
Dow Jones	Capital Markets	1062	New Zealand Dollar Comment
Dow Jones	Capital Markets	1063	DJ Market Talk: Korea Money
Dow Jones	Capital Markets	1064	German regional top news
Dow Jones	Capital Markets	1066	Forex Focus
Dow Jones	Capital Markets	1067	European Commodity Technicals
Dow Jones	Capital Markets	1071	Peru's Sol
Dow Jones	Capital Markets	1072	Key Euro-Zone Data

Dow Jones	Capital Markets	1073	U.K. Indicators
Dow Jones	Capital Markets	1074	Latest Dollar Comment
Dow Jones	Capital Markets	1075	Asia Daily Forex Outlook
Dow Jones	Capital Markets	1078	Inside Indochina
Dow Jones	Capital Markets	1079	U.S. Treasury Comment
Dow Jones	Capital Markets	1083	London Interbank Offered Rate For Dollars
Dow Jones	Capital Markets	1084	Euro Interbank Offered Rates Fixing (Euribor)
Dow Jones	Capital Markets	1085	Global Market Talk: Fixed Income & Foreign Exchange
Dow Jones	Capital Markets	1086	Nymex Comment
Dow Jones	Capital Markets	1087	Interbank Foreign Exchange Rates
Dow Jones	Capital Markets	1088	Italian domestic top news
Dow Jones	Capital Markets	1090	OsterDowJones Precious Metals Commentary
Dow Jones	Capital Markets	1093	Italian regional top news
Dow Jones	Capital Markets	1101	AWSJ: What's News World-Wide
Dow Jones	Capital Markets	1102	AWSJ: What's News Business & Finance

Dow Jones	Capital Markets	1103	ECB Watch
Dow Jones	Capital Markets	1105	European Technicals-Forex
Dow Jones	Capital Markets	1106	Global Markets
Dow Jones	Capital Markets	1107	UK Risers Markets Item
Dow Jones	Capital Markets	1108	European Interest Rate Technicals
Dow Jones	Capital Markets	1109	Charting Europe
Dow Jones	Capital Markets	1112	UK Fallers Markets Item
Dow Jones	Capital Markets	1113	UK Stock Talk Item
Dow Jones	Capital Markets	1114	Barron's: Commodities Corner
Dow Jones	Capital Markets	1115	Barron's: Economic Beat
Dow Jones	Capital Markets	1116	Barron's Fund of Information
Dow Jones	Capital Markets	1117	Barron's Review & Preview
Dow Jones	Capital Markets	1118	Barron's Tech Trader
Dow Jones	Capital Markets	1119	Barron's: Asian Trader
Dow Jones	Capital Markets	1120	US DATA Week Ahead: CPI, PPI And Industrial Production

Dow Jones	Capital Markets	1136	Asia Forex Outlook
Dow Jones	Capital Markets	1137	China Bond Comment
Dow Jones	Capital Markets	1141	Forex View
Dow Jones	Capital Markets	1143	UK Travel News
Dow Jones	Capital Markets	1145	UK Calendar of Corporate Events-Day Ahead
Dow Jones	Capital Markets	1146	UK Indicators Table
Dow Jones	Capital Markets	1149	UK Daily Weather
Dow Jones	Capital Markets	1150	Charting Forex
Dow Jones	Capital Markets	1153	China Yuan Comment
Dow Jones	Capital Markets	1156	Brazil's Real
Dow Jones	Capital Markets	1158	Canada Dollar
Dow Jones	Capital Markets	1160	Asian Morning Briefing
Dow Jones	Capital Markets	1161	Asia Debt Pipeline
Dow Jones	Capital Markets	1163	Singapore Dollar
Dow Jones	Capital Markets	1164	Indian Rupee

Dow Jones	Capital Markets	1167	Key Central/East Europe Data
Dow Jones	Capital Markets	1168	Key Scandinavian Data
Dow Jones	Capital Markets	1169	The Week Ahead-The News in Perspective
Dow Jones	Capital Markets	1170	Chile's Peso
Dow Jones	Capital Markets	1171	Hot Topic
Dow Jones	Capital Markets	1176	U.S. Economic Indicators
Dow Jones	Capital Markets	1177	U.S. Economic Indicators
Dow Jones	Capital Markets	1178	WSJ Credit Markets
Dow Jones	Capital Markets	1182	Canada Bonds
Dow Jones	Capital Markets	1184	Central Bank Watch
Dow Jones	Capital Markets	1185	Closing European Report
Dow Jones	Capital Markets	1188	Australia Watch
Dow Jones	Capital Markets	1189	Swedish Bonds; Krona
Dow Jones	Capital Markets	1198	Analyst Ratings Changes-Hourly (London)
Dow Jones	Capital Markets	1804	News Highlights (EMR)

Dow Jones	Capital Markets	1806	CEE Morning Briefing
Dow Jones	Capital Markets	1815	East Europe Today
Dow Jones	Capital Markets	1819	Global Stock Indexes
Dow Jones	Capital Markets	1833	EMR: Argentina Peso
Dow Jones	Capital Markets	1836	Emerging Market Shares
Dow Jones	Capital Markets	1837	Peru's Sol
Dow Jones	Capital Markets	1843	Brazilian Real Comment
Dow Jones	Capital Markets	1844	Chilean Peso Comment
Dow Jones	Capital Markets	1847	Indian Bond Comment
Dow Jones	Capital Markets	1848	DJ Market Talk/ID Indonesia Money
Dow Jones	Capital Markets	1851	Malaysian Interbank Overnight Rates
Dow Jones	Capital Markets	1852	Mexican Peso Comment
Dow Jones	Capital Markets	1853	Philippine Peso Closing
Dow Jones	Capital Markets	1858	South Korean Won Closing
Dow Jones	Capital Markets	1859	Singapore Dollar Comment

Dow Jones	Capital Markets	1861	Thai Baht Closing
Dow Jones	Capital Markets	1863	N.Y./Asia Forex
Dow Jones	Capital Markets	1865	World Forex Comment
Dow Jones	Capital Markets	20711	NZ Dollar Comment
Dow Jones	Capital Markets	20712	NZ Stock Comment
Dow Jones	Capital Markets	20714	World Forex Report
Dow Jones	Capital Markets	20715	Treasury Comment
Dow Jones	Capital Markets	20716	N.Y. Stock Comment
Dow Jones	Capital Markets	22754	Australian CPI
Dow Jones	Capital Markets	22755	Australian Labor
Dow Jones	Capital Markets	22756	Australian Housing Numbers
Dow Jones	Capital Markets	22757	Australian Auto Registrations
Dow Jones	Capital Markets	22758	Australian Retail Sales
Dow Jones	Capital Markets	22759	Australian Weekly Wages
Dow Jones	Capital Markets	22763	Australia/NZ Political/Economic Calendar

Dow Jones	Capital Markets	22765	Australian Dollar Comment
Dow Jones	Capital Markets	22766	DJ MARKET TALK/AU Australia Money
Dow Jones	Capital Markets	22767	DJ Market Talk/AU-EQ Australia Equities
Dow Jones	Capital Markets	22768	Australian Inventories
Dow Jones	Capital Markets	22769	Australian Residential Building Approvals
Dow Jones	Capital Markets	22771	Australian Company Profits
Dow Jones	Capital Markets	22772	Australian Consumer Sentiment
Dow Jones	Capital Markets	22774	Australian Trade Deficit
Dow Jones	Capital Markets	22776	Australian Currency Deficit
Dow Jones	Capital Markets	22777	Australian GDP
Dow Jones	Capital Markets	22779	Australian Job Ads
Dow Jones	Capital Markets	22782	Australian Pvt-Sector Credit
Dow Jones	Capital Markets	22787	Australian Export Price Index
Dow Jones	Capital Markets	22788	MARKET TALK: Australian Equities Roundup
Dow Jones	Capital Markets	22790	Australian Capex

Dow Jones	Capital Markets	28017	Table Of Europe Refinery Operating Status
Dow Jones	Capital Markets	28018	European Brent Comment
Dow Jones	Capital Markets	28028	IPE Comment
Dow Jones	Capital Markets	28031	Nymex Comment: Oil Futures
Dow Jones	Capital Markets	28032	U.S. Spot Crude Comment
Dow Jones	Capital Markets	28033	Asian Crude Comment
Dow Jones	Capital Markets	28036	Energy Highlights
Dow Jones	Capital Markets	28037	Asia Bunkers
Dow Jones	Capital Markets	28038	Foreign Exchange News
Dow Jones	Capital Markets	28041	Asian Spot Crude Outlook
Dow Jones	Capital Markets	28042	NYMEX/API Comment
Dow Jones	Capital Markets	28044	Asian Oil Outlook
Dow Jones	Capital Markets	28045	U.S. Gas Cash Prices
Dow Jones	Capital Markets	28050	Energy Matters
Dow Jones	Capital Markets	28063	CFTC Data

Dow Jones	Capital Markets	28066	Korea Refinery Watch
Dow Jones	Capital Markets	28068	EMEA Power & Gas Market Talk
Dow Jones	Capital Markets	28072	Nymex Henry Hub Gas Futures
Dow Jones	Capital Markets	28074	West Coast Crude Comment
Dow Jones	Capital Markets	28075	West Coast Products
Dow Jones	Capital Markets	28080	European Oil Products
Dow Jones	Capital Markets	28083	Arb Watch
Dow Jones	Capital Markets	28093	Asian Naphtha, Gasoline
Dow Jones	Capital Markets	28094	Asian Middle Distillates
Dow Jones	Capital Markets	28095	Asian Residual Fuel
Dow Jones	Capital Markets	28096	CHINA HSFO FUTURES
Dow Jones	Capital Markets	28113	DJ Market Talk/Energy Gas and Power
Dow Jones	Capital Markets	28706	U.S. AGA Underground Natural Gas Storage Volumes
Dow Jones	Capital Markets	28780	European Gasoil Barges FOB ARA
Dow Jones	Capital Markets	28837	U.S. EIA Underground Natural Gas Storage-Weekly Recap

Dow Jones	Capital Markets	4015	U.S. Economic Indicators
Dow Jones	Capital Markets	4016	U.S. Economic Indicators
Dow Jones	Capital Markets	4017	U.S. Economic Indicators
Dow Jones	Capital Markets	4018	U.S. Economic Indicators
Dow Jones	Capital Markets	4019	U.S. Economic Indicators: Data View
Dow Jones	Capital Markets	4020	Toronto Stock Comment
Dow Jones	Capital Markets	4022	Global Market Talk: Fixed Income & Foreign Exchange
Dow Jones	Capital Markets	4029	European Stock Comment
Dow Jones	Capital Markets	4030	Euro Interbank Offered Rates Fixing (Euribor)
Dow Jones	Capital Markets	4033	Asia Forex Outlook
Dow Jones	Capital Markets	4034	Fed Funds Traded
Dow Jones	Capital Markets	4035	Equities Market Talk
Dow Jones	Capital Markets	4037	Treasury/Agency Auction Calendar
Dow Jones	Capital Markets	4040	Fed Sets Overnight RPs
Dow Jones	Capital Markets	4041	Treasury Comment

Dow Jones	Capital Markets	4043	Fed Watch
Dow Jones	Capital Markets	4045	Calendar Of U.S. Economic Data
Dow Jones	Capital Markets	4046	Interbank Foreign Exchange Rates
Dow Jones	Capital Markets	4048	U.S. Mortgages
Dow Jones	Capital Markets	4051	Asian Economic And Political Calendar
Dow Jones	Capital Markets	4059	International Debt Calendar
Dow Jones	Capital Markets	4062	NYSE Bond Transactions
Dow Jones	Capital Markets	4066	WSJ: Credit Markets
Dow Jones	Capital Markets	4069	WSJ: Abreast of the Market
Dow Jones	Capital Markets	4072	Municipal Pricing Calendar
Dow Jones	Capital Markets	4082	Big Picture
Dow Jones	Capital Markets	4087	Calendar Of Canada Economic Data And Events
Dow Jones	Capital Markets	4090	Key Interest Rates
Dow Jones	Capital Markets	4093	Bank of England Watch
Dow Jones	Capital Markets	4096	U.S. MBA Market Index

Dow Jones	Capital Markets	4107	Nymex Comment Page
Dow Jones	Capital Markets	4109	Australian Dollar
Dow Jones	Capital Markets	4116	N.Y. Stock Comment
Dow Jones	Capital Markets	4119	Nasdaq Indexes; Net Change Percentages
Dow Jones	Capital Markets	4120	U.S. Treasury Bills
Dow Jones	Capital Markets	4121	NYSE Net Change Percentage Gainers & Losers/Most Actives
Dow Jones	Capital Markets	4125	Asian Stock Comment
Dow Jones	Capital Markets	4126	European Commodity Technicals
Dow Jones	Capital Markets	4131	Bank of Japan Watch
Dow Jones	Capital Markets	4135	European Government Bond Comment
Dow Jones	Capital Markets	4136	London Interbank Offered Rates (Libor) For Dollars
Dow Jones	Capital Markets	4142	European Technicals-Equity Index
Dow Jones	Capital Markets	4143	International Economic & Political Calendar
Dow Jones	Capital Markets	4150	Eurobonds
Dow Jones	Capital Markets	4152	Canadian Bond Comment

Dow Jones	Capital Markets	4153	DJ Market Talk/JP/ Japan Money Market
Dow Jones	Capital Markets	4159	Tokyo Shares Data
Dow Jones	Capital Markets	4162	Asia Forex Roundup
Dow Jones	Capital Markets	4163	Midday Europe Forex
Dow Jones	Capital Markets	4164	World Foreign Exchange Comment
Dow Jones	Capital Markets	4171	New Zealand Bond Comment
Dow Jones	Capital Markets	4173	U.K. Economic Indicators
Dow Jones	Capital Markets	4175	M&A Highlights Package
Dow Jones	Capital Markets	4179	Total Market Indexes
Dow Jones	Capital Markets	4180	News Highlights
Dow Jones	Capital Markets	4185	U.S. Bank Business Loans
Dow Jones	Capital Markets	4194	Bank of Canada T-Bill
Dow Jones	Capital Markets	4199	Benchmark Government Yields
Dow Jones	Capital Markets	4201	Japan Credit
Dow Jones	Capital Markets	4203	Charting Forex

Dow Jones	Capital Markets	4209	European Interest Rate Technicals
Dow Jones	Capital Markets	4210	European Forex Technicals
Dow Jones	Capital Markets	4211	Charting Europe
Dow Jones	Capital Markets	4213	US Economic News
Dow Jones	Capital Markets	4214	US Economic News
Dow Jones	Capital Markets	4230	CMR page 4230
Dow Jones	Capital Markets	4237	US Economic Indicators Calendar
Dow Jones	Capital Markets	4253	Central Bank Watch
Dow Jones	Capital Markets	4257	Daily Digest of Heard on the Street
Dow Jones	Capital Markets	4258	FX Asia
Dow Jones	Capital Markets	4260	Australia Watch
Dow Jones	Capital Markets	4275	U.S. Swaps
Dow Jones	Capital Markets	4295	Swiss Economic Indicators
Dow Jones	Capital Markets	4311	German Treasury Bond Comment
Dow Jones	Capital Markets	4313	Spanish Economic News

Dow Jones	Capital Markets	4321	U.K. T-Bill Sale
Dow Jones	Capital Markets	4332	New Zealand Economic Indicators
Dow Jones	Capital Markets	4333	New Zealand Economic Indicators
Dow Jones	Capital Markets	4335	French Economic Indicators
Dow Jones	Capital Markets	4337	Australian Economic Indicators
Dow Jones	Capital Markets	4339	European Central Bank News
Dow Jones	Capital Markets	4341	Euro Stoxx 50 report on the Portuguese language service
Dow Jones	Capital Markets	4342	Canadian Economic Indicators
Dow Jones	Capital Markets	4343	Canadian Economic Indicators/ Bank of Canada Advances
Dow Jones	Capital Markets	4345	US stock market report on the Portuguese language service
Dow Jones	Capital Markets	4346	Bank of Canada News
Dow Jones	Capital Markets	4347	European markets round-up on the Portuguese language service
Dow Jones	Capital Markets	4350	Lisbon SE market report on the Portuguese language service
Dow Jones	Capital Markets	44431	Eurobonds Column
Dow Jones	Capital Markets	44460	Treasurys Column

Dow Jones	Capital Markets	44462	Midday European Forex
Dow Jones	Capital Markets	48026	CBOT Grains/Oilseeds
Dow Jones	Capital Markets	48027	CBOT Delivery Intentions (Total)
Dow Jones	Capital Markets	48028	US Grain Morning Truck Bids
Dow Jones	Capital Markets	48033	US Crop Progress Corn
Dow Jones	Capital Markets	48034	US Crop Progress Soybeans
Dow Jones	Capital Markets	48035	US Crop Progress Winter Wheat
Dow Jones	Capital Markets	48036	US Crop Progress Spring Wheat
Dow Jones	Capital Markets	48037	US Grain Export Inspections
Dow Jones	Capital Markets	48038	US Export Sales
Dow Jones	Capital Markets	48039	US Crop Yield Report
Dow Jones	Capital Markets	48040	USDA Supply/Demand Summary
Dow Jones	Capital Markets	48041	Winnipeg Cash Grain Close
Dow Jones	Capital Markets	48042	CSCE Coffee, Sugar, Cocoa Futures
Dow Jones	Capital Markets	48043	International Coffee Organization Prices

Dow Jones	Capital Markets	48044	Comex Precious Metals Stocks
Dow Jones	Capital Markets	48045	CME Livestock Volume/Open Interest
Dow Jones	Capital Markets	48047	CME Milk and Butter Futures
Dow Jones	Capital Markets	48048	USDA Milk, Butter
Dow Jones	Capital Markets	48049	ODJ Grain Update
Dow Jones	Capital Markets	48050	CBOT Rice Futures/Options
Dow Jones	Capital Markets	48051	Canada Crop/Seed/Plantings Reports
Dow Jones	Capital Markets	48052	Federal Reserve Money Supply
Dow Jones	Capital Markets	48055	OneChicago Futures Open Interest
Dow Jones	Capital Markets	48060	US Export Sales Highlights
Dow Jones	Capital Markets	48061	ODJ Cotton, Orange Juice Calendar-Futures, Options Dates
Dow Jones	Capital Markets	48063	USDA Grain Stock Summary
Dow Jones	Capital Markets	48069	CBOT Financial Final Vol/Open Interest
Dow Jones	Capital Markets	48070	CME Currency Futures
Dow Jones	Capital Markets	48071	CME Futures Volume

Dow Jones	Capital Markets	48072	Nymex Natural Gas Review
Dow Jones	Capital Markets	48073	Nymex Crude Close
Dow Jones	Capital Markets	48074	Nymex Heating Oil Close
Dow Jones	Capital Markets	48076	Nymex Capp Coal Close
Dow Jones	Capital Markets	48077	Nymex Gasoline Close
Dow Jones	Capital Markets	48078	Nymex Volume Figures
Dow Jones	Capital Markets	48079	US Hog/Cattle Kills
Dow Jones	Capital Markets	48080	Finex Currency Close
Dow Jones	Capital Markets	48081	Technical Analysis: US Soy Complex Futures
Dow Jones	Capital Markets	48082	Sheep/Lamb Reports
Dow Jones	Capital Markets	48083	US Textile Imports
Dow Jones	Capital Markets	48084	US Corn/Livestock Ratios
Dow Jones	Capital Markets	48085	Liverpool Cotlook Cotton Index
Dow Jones	Capital Markets	48087	Asia Pacific Commodities Calendar
Dow Jones	Capital Markets	48088	IMF/SDR Exchange Data

Dow Jones	Capital Markets	48090	Turkey Production, Prices
Dow Jones	Capital Markets	48094	NYFE Volume/Open Interest
Dow Jones	Capital Markets	48098	Retail Meat Prices
Dow Jones	Capital Markets	48099	USDA TX/CA/AK/LA Rice Review
Dow Jones	Capital Markets	48100	Global Commodity Calendar
Dow Jones	Capital Markets	48101	OsterDowJones Soft Commodity Commentary
Dow Jones	Capital Markets	48104	Johnson Matthey Platinum Group Base prices
Dow Jones	Capital Markets	48106	Liffe cocoa gradings, tenders
Dow Jones	Capital Markets	48107	LIFFE Coffee Tenders
Dow Jones	Capital Markets	48109	Rotterdam Wheat, Corn CIF Prices
Dow Jones	Capital Markets	48111	Rotterdam soymeal prices
Dow Jones	Capital Markets	48112	North German feed ingredients
Dow Jones	Capital Markets	48113	Rotterdam Feed Ingredients
Dow Jones	Capital Markets	48114	European Veg Oil/ Soft Oil Prices
Dow Jones	Capital Markets	48116	Indonesia Palm oil/olein prices

Dow Jones	Capital Markets	48117	Sicom Rubber Futures Prices
Dow Jones	Capital Markets	48118	ODJ API/DOE Comparison Table
Dow Jones	Capital Markets	5005	DJ MARKET TALK/EU-Equities
Dow Jones	Capital Markets	5007	Global Stock Indexes
Dow Jones	Capital Markets	5008	DJ Focus
Dow Jones	Capital Markets	5011	Tokyo Shares Data
Dow Jones	Capital Markets	5012	DJ Market Talk/SG/KL/Singapore Shares
Dow Jones	Capital Markets	5013	DJ Market Talk/HK/Hong Kong Shares
Dow Jones	Capital Markets	5014	DJ Market Talk/AU-EQ Australia Equities
Dow Jones	Capital Markets	5015	Dow Jones Stock Market Comment: London
Dow Jones	Capital Markets	5016	German Stock Comment
Dow Jones	Capital Markets	5017	French Stock Comment
Dow Jones	Capital Markets	5018	Belgian Stock Comment
Dow Jones	Capital Markets	5019	Italian Stock Comment
Dow Jones	Capital Markets	5020	Dutch Stock Comment

Dow Jones	Capital Markets	5021	Dow Jones Stock Market Comment: Madrid
Dow Jones	Capital Markets	5022	Dow Jones Stock Market Comment: Zurich
Dow Jones	Capital Markets	5023	S. African Stock Comment
Dow Jones	Capital Markets	5024	Dow Jones Stock Market Comment: Stockholm
Dow Jones	Capital Markets	5026	Philippine Stock Comment
Dow Jones	Capital Markets	5027	Taiwan Stock Comment
Dow Jones	Capital Markets	5028	New Zealand Stock Comment
Dow Jones	Capital Markets	5029	S. Korea Stock Comment
Dow Jones	Capital Markets	5030	DJ News Highlights
Dow Jones	Capital Markets	5032	Barron's: The Striking Price
Dow Jones	Capital Markets	5033	Barron's: European Trader
Dow Jones	Capital Markets	5034	Barron's: Current Yield
Dow Jones	Capital Markets	5035	Barron's: The Trader
Dow Jones	Capital Markets	5036	Barron's: Up & Down Wall Street
Dow Jones	Capital Markets	5037	Asian Closing Stock Comment

Dow Jones	Capital Markets	5038	DJ Market Talk/KL Malaysia Shares
Dow Jones	Capital Markets	5041	European Equity Index Technicals
Dow Jones	Capital Markets	5042	N.Y. Stock Comment
Dow Jones	Capital Markets	5043	WSJ: Heard On The Street
Dow Jones	Capital Markets	5046	Toronto Stock Comment
Dow Jones	Capital Markets	5047	Mexican Stock Comment
Dow Jones	Capital Markets	5048	Thai Stock Comment
Dow Jones	Capital Markets	5049	ADR Report
Dow Jones	Capital Markets	5051	Dow Jones Stock Market Comment: Copenhagen
Dow Jones	Capital Markets	5053	Brazilian Stock Comment
Dow Jones	Capital Markets	5054	Argentina Stock Comment
Dow Jones	Capital Markets	5055	Indonesian Stock Comment
Dow Jones	Capital Markets	5057	Chilean Stock Comment
Dow Jones	Capital Markets	5059	Portuguese Stock Comment
Dow Jones	Capital Markets	5060	Czech Stock Comment

Dow Jones	Capital Markets	5063	China B Shares Comment
Dow Jones	Capital Markets	5064	DJ Market Talk/IN India Shares
Dow Jones	Capital Markets	5065	International Calendar of Corporate Events
Dow Jones	Capital Markets	5067	Polish Stock Comment
Dow Jones	Capital Markets	5069	Hungarian Stock Comment
Dow Jones	Capital Markets	5075	Dow Jones Stock Market Comment: Moscow
Dow Jones	Capital Markets	5076	Emerging Market Stock Comment
Dow Jones	Capital Markets	5081	Greek Stock Comment
Dow Jones	Capital Markets	5090	The Skeptic
Dow Jones	Capital Markets	5095	FX Asia
Dow Jones	Capital Markets	53014	European Stock Comment
Dow Jones	Capital Markets	53030	WSJ: Abreast Of The Market
Dow Jones	Capital Markets	55101	DJ News Highlights
Dow Jones	Capital Markets	55102	Asian Economic/Political/Corporate Calendar
Dow Jones	Capital Markets	55103	Holiday Advisory: Asia

Dow Jones	Capital Markets	55105	Global Stock Indexes Page 55105
Dow Jones	Capital Markets	55106	DJ Market Talk/IN India Shares
Dow Jones	Capital Markets	55107	Thai Stock Comment Page 55107
Dow Jones	Capital Markets	55108	DJ Market Talk/HK/ Hong Kong Shares
Dow Jones	Capital Markets	55109	Indonesian Stock Comment Page 55109
Dow Jones	Capital Markets	55110	DJ Market Talk/KL Malaysia Shares
Dow Jones	Capital Markets	55111	Philippine Stock Comment Page 55111
Dow Jones	Capital Markets	55112	Korean Stock Comment
Dow Jones	Capital Markets	55113	China Stock Comment
Dow Jones	Capital Markets	55114	DJ Market Talk/SG/KL/ Singapore Shares
Dow Jones	Capital Markets	55115	DJ Market Talk/AU-EQ Australia Equities
Dow Jones	Capital Markets	55116	Taiwan Stock Comment Page 55116
Dow Jones	Capital Markets	55117	Tokyo Shares Data
Dow Jones	Capital Markets	55118	New Zealand Stock Comment Page 55118
Dow Jones	Capital Markets	55138	Overnight Markets Report

Dow Jones	Capital Markets	55141	Asian IPO Watch: Southeast
Dow Jones	Capital Markets	61020	Metals Derivatives Calendar
Dow Jones	Capital Markets	61021	Coffee Derivatives Calendar
Dow Jones	Capital Markets	61022	Agricultural Commodities Calendar
Dow Jones	Capital Markets	61025	Market Talk: Commodities
Dow Jones	Capital Markets	61026	Market Talk Daily Commodities Roundup
Dow Jones	Capital Markets	61028	China Metal Commentary
Dow Jones	Capital Markets	61029	LME Warehouse Inventory
Dow Jones	Capital Markets	61030	LME Commentary
Dow Jones	Capital Markets	61031	Sugar Derivatives Calendar
Dow Jones	Capital Markets	61032	Cocoa Derivatives Calendar
Dow Jones	Capital Markets	61035	New York Precious Metals Commentary
Dow Jones	Capital Markets	61037	Comex Copper Commentary
Dow Jones	Capital Markets	61041	LME Metals In Asia
Dow Jones	Capital Markets	61045	Europe Precious Metals Commentary

Dow Jones	Capital Markets	61047	Liffe Coffee Commentary
Dow Jones	Capital Markets	61060	Debt Futures
Dow Jones	Capital Markets	61062	Steel Update
Dow Jones	Capital Markets	61063	Base Metals Commentary
Dow Jones	Capital Markets	61066	US Economic Calendar
Dow Jones	Capital Markets	61067	Market Talk: Rubber
Dow Jones	Capital Markets	61069	Precious Metals Commentary
Dow Jones	Capital Markets	61072	CBOT Corn Commentary
Dow Jones	Capital Markets	61073	US Cattle Commentary
Dow Jones	Capital Markets	61075	US Wheat Commentary
Dow Jones	Capital Markets	61076	WCE Grain/Oilseeds Commentary
Dow Jones	Capital Markets	61077	KCBT Wheat Prices
Dow Jones	Capital Markets	61078	US Grain Commentary
Dow Jones	Capital Markets	61079	Europe Cash Wheat Commentary
Dow Jones	Capital Markets	61082	Market Talk: Edible Oils

Dow Jones	Capital Markets	61084	CBOT Soy Review
Dow Jones	Capital Markets	61086	Europe Vegoils
Dow Jones	Capital Markets	61087	CME Livestock Comment
Dow Jones	Capital Markets	61088	LME Lumber Review
Dow Jones	Capital Markets	61089	CBOT Financials Close
Dow Jones	Capital Markets	61091	Asia Soybean Commentary
Dow Jones	Capital Markets	61094	ODJ GWS Weather Highlights for Europe/CIS
Dow Jones	Capital Markets	61095	ODJ GWS Weather Highlights Asia/Australia
Dow Jones	Capital Markets	61097	Asia Grain Outlook
Dow Jones	Capital Markets	61098	Stock Index Futures
Dow Jones	Capital Markets	61110	CBOT Grains Commentary
Dow Jones	Capital Markets	62500	Indian Morning Briefing
Dow Jones	Capital Markets	62506	Indian Rupee Comment
Dow Jones	Capital Markets	62543	AWSJ Headline
Dow Jones	Capital Markets	62544	AWSJ Headline

Dow Jones	Capital Markets	62545	AWSJ Headline
Dow Jones	Capital Markets	62546	AWSJ Headline
Dow Jones	Capital Markets	62547	AWSJ Headline
Dow Jones	Capital Markets	62548	AWSJ Headline
Dow Jones	Capital Markets	62550	Dow Jones Asia-Pacific Top Stories Sked
Dow Jones	Capital Markets	62560	Asian Stock Comment Page 62560
Dow Jones	Capital Markets	6818	Baltic Exchange Daily Fixtures
Dow Jones	Capital Markets	6819	Baltic Exchange Maritime Shipping Indices
Dow Jones	Capital Markets	70001	US Potato Production
Dow Jones	Capital Markets	70002	US Crop Production/Progress
Dow Jones	Capital Markets	70009	Asia Physical Rubber Prices
Dow Jones	Capital Markets	70011	Cocoa Weather
Dow Jones	Capital Markets	70014	Brazil Weather
Dow Jones	Capital Markets	70020	South Africa Closing Corn, Wheat Futures
Dow Jones	Capital Markets	70023	US Grain Receipts/Shipments

Dow Jones	Capital Markets	70024	CBOT Soy Futures
Dow Jones	Capital Markets	70028	CBOT Grains/Oilseeds Volume/Interest
Dow Jones	Capital Markets	70029	CIF Rotterdam Soy, Feed Prices
Dow Jones	Capital Markets	70030	CIF Rotterdam Wheat/Barley/Corn/Rye Prices
Dow Jones	Capital Markets	70032	CME Livestock Futures Volume & Open Interest
Dow Jones	Capital Markets	70033	Lumber & Pulp Futures Data
Dow Jones	Capital Markets	70034	US Agricultural Reserve Loan Activity
Dow Jones	Capital Markets	70035	US Agricultural Supply and Demand
Dow Jones	Capital Markets	70036	US Census Bureau -- Fats & Oils
Dow Jones	Capital Markets	70037	US Census Bureau -- Fibers
Dow Jones	Capital Markets	70039	Comex Copper Warehouse Stocks
Dow Jones	Capital Markets	70040	Comex Gold Volume & Open Interest
Dow Jones	Capital Markets	70043	Argentina Weather
Dow Jones	Capital Markets	70044	Nybot Coffee Stocks
Dow Jones	Capital Markets	70045	Nybot Coffee/Sugar/Cocoa Open Interest

Dow Jones	Capital Markets	70047	Cash Prices Of U.S. Corn And Wheat
Dow Jones	Capital Markets	70048	Cash Prices Of U.S. Soybeans
Dow Jones	Capital Markets	70052	USDA Meat Prices
Dow Jones	Capital Markets	70053	USDA Lamb/Sheep Prices
Dow Jones	Capital Markets	70056	US Livestock Import, Export Data
Dow Jones	Capital Markets	70059	EU Grain Export License Awards
Dow Jones	Capital Markets	70064	Engelhard Silver, Platinum, Palladium Prices
Dow Jones	Capital Markets	70070	European Ferro-Alloys Trading
Dow Jones	Capital Markets	70072	European Soft Vegetable Oil Prices
Dow Jones	Capital Markets	70074	German Power Index
Dow Jones	Capital Markets	70075	DOE Refinery
Dow Jones	Capital Markets	70076	Fishmeal Prices In Europe
Dow Jones	Capital Markets	70077	Gold Krugerrand
Dow Jones	Capital Markets	70083	German Rapeseed Cash Prices
Dow Jones	Capital Markets	70085	DJ Handy & Harman's Silver Price

Dow Jones	Capital Markets	70088	ICCO Cocoa Daily Price
Dow Jones	Capital Markets	70090	INRA London Rubber Prices
Dow Jones	Capital Markets	70092	International Sugar Organization Prices
Dow Jones	Capital Markets	70094	Johnson Matthey Plantinum Group Metals Base Prices
Dow Jones	Capital Markets	70095	KCBT Wheat Derivatives
Dow Jones	Capital Markets	70096	Liffe Cocoa Futures
Dow Jones	Capital Markets	70097	Liffe Robusta Coffee Futures
Dow Jones	Capital Markets	70098	California Citrus Weather
Dow Jones	Capital Markets	70099	US Southeast Ag Weather
Dow Jones	Capital Markets	70103	London Closing Sugar
Dow Jones	Capital Markets	70104	London Daily Sugar Prices
Dow Jones	Capital Markets	70106	LME Session Prices
Dow Jones	Capital Markets	70108	London Open Gold And Silver
Dow Jones	Capital Markets	70109	London Palladium Fixing
Dow Jones	Capital Markets	70110	Kuala Lumpur Tin Market Price & Volume

Dow Jones	Capital Markets	70111	London Silver Fixing
Dow Jones	Capital Markets	70114	US Plains, Canada Grain Weather
Dow Jones	Capital Markets	70115	USDA Rice Stocks
Dow Jones	Capital Markets	70117	Comex Silver Futures
Dow Jones	Capital Markets	70120	Nybot Cocoa
Dow Jones	Capital Markets	70121	Nybot Coffee
Dow Jones	Capital Markets	70122	Comex Copper Futures Settlement Prices
Dow Jones	Capital Markets	70123	Nybot Cotton Futures Settlement Prices
Dow Jones	Capital Markets	70126	Nymex Platinum Futures Settlement Prices
Dow Jones	Capital Markets	70127	Nybot Sugar Closing Prices
Dow Jones	Capital Markets	70132	Nymex Platinum & Palladium Warehouse Stocks
Dow Jones	Capital Markets	70134	Cotton Price Data
Dow Jones	Capital Markets	70135	Cotton Production Data
Dow Jones	Capital Markets	70136	Lumber Prices
Dow Jones	Capital Markets	70138	Asian Market Pulp

Dow Jones	Capital Markets	70144	G7 Political, Economic Calendar (MoneyWire)
Dow Jones	Capital Markets	70145	G7 Political, Economic Calendar (Ticker)
Dow Jones	Capital Markets	70148	US Political, Economic Calendar
Dow Jones	Capital Markets	70149	Canada Political, Economic Calendar
Dow Jones	Capital Markets	70150	Rubber Trade Association Daily Prices
Dow Jones	Capital Markets	70152	Sicom Closing Physical Rubber Prices
Dow Jones	Capital Markets	70166	CMA Cocoa Bean And Product Prices
Dow Jones	Capital Markets	70167	Comex Gold Futures Settlements Prices
Dow Jones	Capital Markets	70169	USDA Boxed Beef Cut-Out Values
Dow Jones	Capital Markets	70170	USDA Cotton Basis/Prices/Transactions
Dow Jones	Capital Markets	70171	US Grain Stocks
Dow Jones	Capital Markets	70172	USDA Agricultural-Price Stats
Dow Jones	Capital Markets	70174	USDA Cash Grain Prices
Dow Jones	Capital Markets	70175	USDA Soybean Processor Bids
Dow Jones	Capital Markets	70176	USDA Hog Volumes, Base Costs

Dow Jones	Capital Markets	70177	USDA Iowa-Southern Minnesota Hog Prices
Dow Jones	Capital Markets	70178	Midwest Grain Prices
Dow Jones	Capital Markets	70180	USDA Slaughter/Feeder Cattle
Dow Jones	Capital Markets	70181	USDA Slaughtered Steer Hide, Offal Prices
Dow Jones	Capital Markets	70182	USDA Soybean Export Prices
Dow Jones	Capital Markets	70183	USDA Tallow/Protein/Hide Prices
Dow Jones	Capital Markets	70184	USDA Portland Grain Prices
Dow Jones	Capital Markets	70186	WCE Grain Oilseed Futures Volumes & Open Interest
Dow Jones	Capital Markets	70191	Liffe Wheat Futures
Dow Jones	Capital Markets	70195	US Livestock Auctions
Dow Jones	Capital Markets	70196	Euronext Rapeseed Futures
Dow Jones	Capital Markets	70197	Euronext Grain Futures
Dow Jones	Capital Markets	70201	International Coffee Organization Prices
Dow Jones	Capital Markets	70205	NY Merchant Tin Prices
Dow Jones	Capital Markets	70209	China Rubber Futures

Dow Jones	Capital Markets	70215	Indonesia Palm Oil Prices
Dow Jones	Capital Markets	70218	USDA Feedlot and Range Sales
Dow Jones	Capital Markets	70220	USDA World Agricultural Production Statistics
Dow Jones	Capital Markets	70222	USDA Livestock Import Statistics
Dow Jones	Capital Markets	70223	USDA Peanuts/Edible Beans
Dow Jones	Capital Markets	70224	USDA Sunflowers
Dow Jones	Capital Markets	70226	DOE Propane
Dow Jones	Capital Markets	70227	North Sea Brent Crude Oil
Dow Jones	Capital Markets	70229	USDA Feed Ingredient Prices
Dow Jones	Capital Markets	70232	Caribbean Weather Report
Dow Jones	Capital Markets	70238	USDA Livestock Export Statistics
Dow Jones	Capital Markets	70249	Comex Gold Delivery Notice
Dow Jones	Capital Markets	70250	Comex Copper Delivery Notice
Dow Jones	Capital Markets	70251	Comex Silver Delivery Notice
Dow Jones	Capital Markets	70252	Nybot Coffee Delivery Notices Issued

Dow Jones	Capital Markets	70253	Nybot Coffee Delivery Notices Issued
Dow Jones	Capital Markets	70254	Comex Copper Volume & Open Interest
Dow Jones	Capital Markets	70256	Nymex Platinum & Palladium Volume & Open Interest
Dow Jones	Capital Markets	70257	USDA World Rice Prices
Dow Jones	Capital Markets	70259	WCE Delivery Notices
Dow Jones	Capital Markets	70260	WCE Canola/Wheat/Barley Futures Settlement Prices
Dow Jones	Capital Markets	70263	USDA Daily Slaughter Estimate of Cattle and Hogs
Dow Jones	Capital Markets	70280	Russia (CIS/FSU) Weather
Dow Jones	Capital Markets	70281	Malaysia Monthly Palm Oil Exports-SGS
Dow Jones	Capital Markets	70284	Shanghai Futures Exchange Metal Inventories
Dow Jones	Capital Markets	70285	South America Weather
Dow Jones	Capital Markets	70286	Thailand 3-Month Rice Exports
Dow Jones	Capital Markets	70289	Japan Rubber Stocks Week-to-Week
Dow Jones	Capital Markets	70294	Liffe End-Month Robusta Coffee Stocks
Dow Jones	Capital Markets	70295	USDA Livestock Production/Inventories

Dow Jones	Capital Markets	70296	USDA Boxed/Butchered Cattle
Dow Jones	Capital Markets	70298	India Vegoils Weekly Report: Meal Supply
Dow Jones	Capital Markets	70299	US Poultry Statistics
Dow Jones	Capital Markets	70303	CRB Spot Index Close
Dow Jones	Capital Markets	70305	Spot Commodity Index
Dow Jones	Capital Markets	70306	Moody's Commodity Index; Metals Index
Dow Jones	Capital Markets	70307	CFTC Commitments Report on CSCE Cocoa Futures
Dow Jones	Capital Markets	70308	CFTC Commitments Report on CSCE Coffee Futures
Dow Jones	Capital Markets	70309	CFTC Commitments Report on NYCE Cotton Futures
Dow Jones	Capital Markets	70310	CFTC Commitments Report on NYCE Orange Juice Futures
Dow Jones	Capital Markets	70311	CFTC Commitments Report on CBOT Corn Futures
Dow Jones	Capital Markets	70312	CFTC Commitments Report on CBOT Wheat Futures
Dow Jones	Capital Markets	70313	CFTC Commitments Report on CME Cattle Futures
Dow Jones	Capital Markets	70314	CFTC Commitments Report on CME Hog Futures
Dow Jones	Capital Markets	70315	CFTC Commitments Report on CME Pork Belly Futures

Dow Jones	Capital Markets	70316	CFTC Commitments Report on Comex Copper Futures
Dow Jones	Capital Markets	70317	CFTC Commitments Report on Comex Gold Futures
Dow Jones	Capital Markets	70318	CFTC Commitments Report on Comex Silver Futures
Dow Jones	Capital Markets	70319	CFTC Commitments Report on CBOT Soybeans
Dow Jones	Capital Markets	70320	CFTC Commitments Report on CBOT Soybean Meal Futures
Dow Jones	Capital Markets	70321	CFTC Commitments Report on CBOT Soybean Oil Futures
Dow Jones	Capital Markets	70322	CFTC Commitments Report on CSCE Sugar Futures
Dow Jones	Capital Markets	70329	North German Feed Ingredients
Dow Jones	Capital Markets	70338	Bunker Fuel Prices (Int'l)
Dow Jones	Capital Markets	70363	US Egg Statistics
Dow Jones	Capital Markets	70368	US Dairy Statistics
Dow Jones	Capital Markets	70372	USDA Grain Stocks
Dow Jones	Capital Markets	70373	Asia Weather
Dow Jones	Capital Markets	70387	Australia Grains Weather
Dow Jones	Capital Markets	70390	USDA: U.S. Annual Cotton Crop Total

Dow Jones	Capital Markets	70391	USDA: U.S. Annual Corn Crop Total
Dow Jones	Capital Markets	70392	USDA: Weekly Corn Exports & Sales
Dow Jones	Capital Markets	70393	USDA: Weekly Wheat Exports & Sales
Dow Jones	Capital Markets	70394	USDA: U.S. Sugar News
Dow Jones	Capital Markets	70396	USDA: National Feeder Cattle Weekly Summary
Dow Jones	Capital Markets	70399	USDA: U.S. Wheat Growth Report
Dow Jones	Capital Markets	70404	USDA: Weekly Rice Export Sales
Dow Jones	Capital Markets	70405	Closing Grain Prices - Alberta
Dow Jones	Capital Markets	70411	USDA: U.S. Soybean Crop Report
Dow Jones	Capital Markets	70412	USDA: U.S. Soybean Harvest Report
Dow Jones	Capital Markets	70413	CME Livestock And Meat Futures Prices
Dow Jones	Capital Markets	70414	USDA: 7-State Cattle On Feed Report
Dow Jones	Capital Markets	70415	USDA: Frozen Pork/Beef Stock Report
Dow Jones	Capital Markets	70416	USDA: Grain Export Inspections Report
Dow Jones	Capital Markets	70422	Canadian Canola

Dow Jones	Capital Markets	70424	NOPA U.S. Soybean Crush On Month
Dow Jones	Capital Markets	70425	USDA: Soybean Oil & Meal Yields & Values Report
Dow Jones	Capital Markets	70426	USDA: Weekly Soy/Cotton Export
Dow Jones	Capital Markets	70427	USDA: Weekly Barley Export
Dow Jones	Capital Markets	70428	USDA: U.S. Annual Rice Exports
Dow Jones	Capital Markets	70431	USDA: Weekly Rice Exports
Dow Jones	Capital Markets	70432	USDA: Cotton Crop Report vs. 5-yr Average
Dow Jones	Capital Markets	70433	USDA: All U.S. Monthly Hog Inventory
Dow Jones	Capital Markets	70437	USDA: Weekly Cotton Exports
Dow Jones	Capital Markets	70438	Rail Car Loadings/Unloadings
Dow Jones	Capital Markets	70442	CFTC Commitments Report on CME Feeder Cattle Futures
Dow Jones	Capital Markets	70443	CFTC Commitments Report on CME Lumber Futures
Dow Jones	Capital Markets	70444	CFTC Commitments Report on KCBT Wheat Futures
Dow Jones	Capital Markets	70445	CFTC Commitments Report on MGE Wheat Futures
Dow Jones	Capital Markets	70451	CFTC Commitments Report: CBOT Ags

Dow Jones	Capital Markets	70454	CFTC Commitments Report on CSCE Cocoa Futures/Options
Dow Jones	Capital Markets	70455	CFTC Commitments Report on CSCE Coffee Futures/Options
Dow Jones	Capital Markets	70456	CFTC Commitments Report on NYCE Cotton Futures/Options
Dow Jones	Capital Markets	70458	CFTC Commitments Report on CBOT Corn Futures/Options
Dow Jones	Capital Markets	70459	CFTC Commitments Report on CBOT Wheat Futures/Options
Dow Jones	Capital Markets	70460	CFTC Commitments Report on CME Cattle Futures/Options
Dow Jones	Capital Markets	70461	CFTC Commitments Report on CME Hog Futures/Options
Dow Jones	Capital Markets	70466	CFTC Commitments Report on CBOT Soybean Futures/Options
Dow Jones	Capital Markets	70467	CFTC Commitments Report on CBOT Soymeal Futures/Options
Dow Jones	Capital Markets	70469	CFTC Commitments Report on CSCE Sugar Futures/Options
Dow Jones	Capital Markets	70470	CFTC Commitments Report on CME Feeder Futures/Options
Dow Jones	Capital Markets	70471	CFTC Report On CME Lumber Futures/Options
Dow Jones	Capital Markets	70472	CFTC Commitments Report on KCBT Wheat Futures/Options
Dow Jones	Capital Markets	70473	CFTC Commitments Report on MGE Wheat Futures/Options
Dow Jones	Capital Markets	70476	World Coffee Weather

Dow Jones	Capital Markets	70478	Cotton Weather
Dow Jones	Capital Markets	70491	U.S. Green Coffee Stocks
Dow Jones	Capital Markets	70492	CBOT Delivery Intentions
Dow Jones	Capital Markets	70493	CME Live Cattle Delivery Notices
Dow Jones	Capital Markets	70494	World Wheat Weather
Dow Jones	Capital Markets	70497	Australia Grains Weather
Dow Jones	Capital Markets	70502	CBOT Corn Options
Dow Jones	Capital Markets	70503	CBOT Stock Index Futures/Options
Dow Jones	Capital Markets	70504	World Corn/Maize Weather
Dow Jones	Capital Markets	70507	Africa Weather
Dow Jones	Capital Markets	70509	Global Oilseed Weather
Dow Jones	Capital Markets	70510	Europe Weather
Dow Jones	Capital Markets	70512	India/Pakistan Weather
Dow Jones	Capital Markets	70514	CME Currency Futures
Dow Jones	Capital Markets	70516	CME Stock Index Futures

Dow Jones	Capital Markets	70518	KCBT Agricultural Commodities
Dow Jones	Capital Markets	70521	CME Dairy Futures
Dow Jones	Capital Markets	70522	CBOT Soy Futures Settlement Prices
Dow Jones	Capital Markets	70525	US Economic Releases
Dow Jones	Capital Markets	70529	Nybot Cotton Certificated Stocks
Dow Jones	Capital Markets	70530	CME Lean Hog Index
Dow Jones	Capital Markets	70531	CBOT Grain & Soy Options
Dow Jones	Capital Markets	70532	Nybot Cocoa Warehouse Stocks
Dow Jones	Capital Markets	70533	Nybot Cotton Delivery Notices
Dow Jones	Capital Markets	70534	Nybot Orange Juice Delivery Notices
Dow Jones	Capital Markets	70535	Florida Orange Juice Weekly Movements
Dow Jones	Capital Markets	70538	CBOT Warehouse Wheat Stocks in Bushels
Dow Jones	Capital Markets	70539	CBOT Warehouse Corn Stocks in Bushels
Dow Jones	Capital Markets	70543	KCBT Wheat Futures Settlement Prices
Dow Jones	Capital Markets	70551	Ethanol & Natural Gas Futures Data

Dow Jones	Capital Markets	70559	U.S. Newsprint Imports
Dow Jones	Capital Markets	70564	Nymex Crude Oil
Dow Jones	Capital Markets	70565	Nymex Heating Oil
Dow Jones	Capital Markets	70572	Nymex Capp Coal
Dow Jones	Capital Markets	70573	Nymex Gasoline
Dow Jones	Capital Markets	70574	NYMEX Electric Swaps/Futures
Dow Jones	Capital Markets	70575	China Agricultural Commodities
Dow Jones	Capital Markets	70576	China Metals
Dow Jones	Capital Markets	70577	ECB Reference Rates
Dow Jones	Capital Markets	70578	US Federal Reserve Data
Dow Jones	Capital Markets	70579	Nybot Currencies Futures/Options
Dow Jones	Capital Markets	70580	Global Rice Weather
Dow Jones	Capital Markets	70581	Infograin-French Grains
Dow Jones	Capital Markets	70582	U.S. Monthly Gold Imports
Dow Jones	Capital Markets	70584	U.S. Monthly Palladium, Platinum Imports

Dow Jones	Capital Markets	70585	U.S. Monthly Coffee Imports
Dow Jones	Capital Markets	70586	U.S. Monthly Cocoa Imports
Dow Jones	Capital Markets	70587	Rubber Import/Export/Usage Data
Dow Jones	Capital Markets	70599	Liffe Coffee Gradings
Dow Jones	Capital Markets	70600	Liffe Cocoa Gradings
Dow Jones	Capital Markets	70601	Nybot Dollar Futures
Dow Jones	Capital Markets	70602	US Monthly Metals Imports Data
Dow Jones	Capital Markets	70603	US Monthly Metals Export Data
Dow Jones	Capital Markets	70608	Indian Oilseeds/Edible Oils/Feedmeals Prices
Dow Jones	Capital Markets	70613	US Crop Production Reports
Dow Jones	Capital Markets	70616	US/Japan Livestock Trade
Dow Jones	Capital Markets	70621	USDA Periodic Livestock Reports
Dow Jones	Capital Markets	70627	US Grain Barge Traffic
Dow Jones	Capital Markets	70628	World Sugar Weather
Dow Jones	Capital Markets	70639	Tocom, Osaka Closing

Dow Jones	Capital Markets	70640	Malaysia Rubber Output
Dow Jones	Capital Markets	70642	US Commerce Grain/Oilseeds/Meal Export/Import
Dow Jones	Capital Markets	70647	Part 2 - Summary of Eurex Exchange Fixtures
Dow Jones	Capital Markets	70650	Montreal Financial Futures Prices
Dow Jones	Capital Markets	70659	USDA Kansas Cattle Feedlot Sales Report
Dow Jones	Capital Markets	70660	USDA Texas Panhandle & Oklahoma Feedlot Sales
Dow Jones	Capital Markets	70661	USDA Nebraska Cattle Feedlot Sales
Dow Jones	Capital Markets	70662	USDA National Carlot Pork
Dow Jones	Capital Markets	70681	EU Economic, Political Calendar - Week Ahead
Dow Jones	Capital Markets	70682	DJ France - Agenda Economique et Politique (French)
Dow Jones	Capital Markets	70683	Germany Economic, Political Calendar - Week Ahead
Dow Jones	Capital Markets	70684	Italy Economic, Political Calendar - Week Ahead
Dow Jones	Capital Markets	70686	UK Economic, Political Calendar - Week Ahead
Dow Jones	Capital Markets	70689	Before the Bell
Dow Jones	Capital Markets	70693	Data Preview

Dow Jones	Capital Markets	70694	Data Snap
Dow Jones	Capital Markets	70699	Options Report
Dow Jones	Capital Markets	70701	Point of View
Dow Jones	Capital Markets	70703	Technically Speaking
Dow Jones	Capital Markets	70706	Taking Stock
Dow Jones	Capital Markets	70707	US Morning Briefing
Dow Jones	Capital Markets	70708	Getting Personal
Dow Jones	Capital Markets	70713	Something Ventured
Dow Jones	Capital Markets	70715	U.S. Tip Sheet
Dow Jones	Capital Markets	70716	Canada Tip Sheet
Dow Jones	Capital Markets	70719	Asia Crude Outlook
Dow Jones	Capital Markets	70720	Asia Oil Products Outlook
Dow Jones	Capital Markets	70721	European Calendar of Corporate Events - Week Ahead
Dow Jones	Capital Markets	70722	DJ France - Agenda des Entreprises (French)
Dow Jones	Capital Markets	70723	German Calendar of Corporate Events - Week Ahead

Dow Jones	Capital Markets	70724	Italy Calendar of Corporate Events - Week Ahead
Dow Jones	Capital Markets	70725	UK Calendar of Corporate Events - Week Ahead
Dow Jones	Capital Markets	70730	Italian corporate and Macro Daily Events
Dow Jones	Capital Markets	70736	DJ Zeebrugge Index for Natural Gas
Dow Jones	Capital Markets	70737	European Midday Briefing
Dow Jones	Capital Markets	70739	CMR US Morning Briefing
Dow Jones	Capital Markets	70741	Nybot Cocoa Futures Volume
Dow Jones	Capital Markets	70743	Nybot Cotton Futures Volume
Dow Jones	Capital Markets	70744	Nybot Cotton Futures Open Interest
Dow Jones	Capital Markets	70745	Nybot FCOJ Futures Volume
Dow Jones	Capital Markets	70746	Nybot FCOJ Futures Open Interest
Dow Jones	Capital Markets	70748	Liffe coffee, cocoa futures volume, open interest
Dow Jones	Capital Markets	70765	Top Five Dividend Yielding Stocks
Dow Jones	Capital Markets	70768	In the Money
Dow Jones	Capital Markets	70769	Tales of the Tape

Dow Jones	Capital Markets	70770	Earnings Calendar
Dow Jones	Capital Markets	70772	Netherlands Calendar of Corporate Events
Dow Jones	Capital Markets	70773	Spain Calendar of Corporate Events
Dow Jones	Capital Markets	70774	Sweden Calendar of Corporate Events
Dow Jones	Capital Markets	70775	Switzerland Calendar of Corporate Events
Dow Jones	Capital Markets	70777	DJ Bulletin du Matin (French)
Dow Jones	Capital Markets	70779	Asset Class Column
Dow Jones	Capital Markets	70781	DJ Obligataire (French)
Dow Jones	Capital Markets	70782	DJ Monetaire (French)
Dow Jones	Capital Markets	70783	DJ Changes (French)
Dow Jones	Capital Markets	70784	DJ Analyse Technique (French)
Dow Jones	Capital Markets	70785	DJ Etats-Unis (French)
Dow Jones	Capital Markets	70786	U.S. Coffee/Cocoa Imports
Dow Jones	Capital Markets	70787	DJ Boletin Matutino
Dow Jones	Capital Markets	70789	DJN Highlights of the Service

Dow Jones	Capital Markets	70792	EMEA Stoxx 50 Earnings Forecast
Dow Jones	Capital Markets	70793	U.S. Treasury, General
Dow Jones	Capital Markets	70794	Malaysian Palm Oil prices midday
Dow Jones	Capital Markets	70795	Malaysian Palm Oil prices evening
Dow Jones	Capital Markets	70797	Key CEE Data
Dow Jones	Capital Markets	70799	Echo Bourse (French)
Dow Jones	Capital Markets	70801	Europa Vandaag (Netherlands)
Dow Jones	Capital Markets	70802	Overnight: Morning Briefing (Deutsche)
Dow Jones	Capital Markets	70803	Dutch-Lang. Svc. US Vandaag
Dow Jones	Capital Markets	70804	Dutch-Lang. Svc. Amsterdam Vandaag
Dow Jones	Capital Markets	70805	Dutch-Lang. Svc. DJ Focus
Dow Jones	Capital Markets	70806	Dutch-Lang. Svc. Dutch Market Talk Mid-Caps
Dow Jones	Capital Markets	70807	Dutch-Lang. Svc. Dutch Market Talk Small-Caps
Dow Jones	Capital Markets	70808	Spanish Wire Market Talk
Dow Jones	Capital Markets	70811	Updates on news in Dutch

Dow Jones	Capital Markets	70964	New Zealand Food Prices
Dow Jones	Capital Markets	71080	Plains States Estimated Cattle Showlists
Dow Jones	Capital Markets	75024	Oil Futures DJES E-Mail
Dow Jones	Capital Markets	75025	Market Talk: US Summary
Dow Jones	Capital Markets	75044	Nymex Energy Futures/Options Calendar
Dow Jones	Capital Markets	75051	IPE Prices
Dow Jones	Capital Markets	75058	US Corn Processor Bids
Dow Jones	Capital Markets	75062	Early Sterling Index
Dow Jones	Capital Markets	75074	DJ Plus (French)
Dow Jones	Capital Markets	75075	Portuguese Early Morning Briefing
Dow Jones	Capital Markets	75078	NIKKEI 225 commentaire (French)
Dow Jones	Capital Markets	75079	FTSE 100 commentaire (French)
Dow Jones	Capital Markets	75080	DAX 30 commentaire (French)
Dow Jones	Capital Markets	75081	CAC 40 commentaire (French)
Dow Jones	Capital Markets	75082	BEL 20 commentaire (French)

Dow Jones	Capital Markets	75083	MIB 30 commentaire (French)
Dow Jones	Capital Markets	75084	AEX commentaire (French)
Dow Jones	Capital Markets	75085	IBEX 30 commentaire (French)
Dow Jones	Capital Markets	75086	SMI commentaire (French)
Dow Jones	Capital Markets	75087	DJ FRANCE: L' actualite en bref
Dow Jones	Capital Markets	75088	NASDAQ commentaire (French)
Dow Jones	Capital Markets	75089	DJIA commentaire (French)
Dow Jones	Capital Markets	75090	DJ MONDE: L' Actualite en bref
Dow Jones	Capital Markets	75091	Central/Eastern Europe (CEE) Briefing
Dow Jones	Capital Markets	75092	Presse pickup
Dow Jones	Capital Markets	75099	Italian Service: Focus: I temi del giorno
Dow Jones	Capital Markets	75100	Italian Service: Focus: Politici
Dow Jones	Capital Markets	75101	Italian Service: European Morning Briefing
Dow Jones	Capital Markets	75102	Italian Service: Nota di apertura/chiusura
Dow Jones	Capital Markets	75103	Italian Service: Analisi Tecnica Banca Sella

Dow Jones	Capital Markets	75104	Italian Service: Earnings Previews
Dow Jones	Capital Markets	75105	DJ Plus Europe (French)
Dow Jones	Capital Markets	75106	DJ Plus Etats-Unis (French)
Dow Jones	Capital Markets	75107	Italian Service: Sotto La Lente
Dow Jones	Capital Markets	75109	Asian Commodities Calendar
Dow Jones	Capital Markets	75110	Market Beat-Beat Watch
Dow Jones	Capital Markets	75111	Getting Personal Canada
Dow Jones	Capital Markets	75112	Asian Commentary Market Talk
Dow Jones	Capital Markets	75113	DJMB ADR Report
Dow Jones	Capital Markets	75115	UK Small Cap Report
Dow Jones	Capital Markets	75116	DJ Petrole
Dow Jones	Capital Markets	75117	Market Talk - Asia Summary
Dow Jones	Capital Markets	75120	EMEA Press Digest
Dow Jones	Capital Markets	75121	UK Morning Briefing
Dow Jones	Capital Markets	75125	MFDJ Market Talk

Dow Jones	Capital Markets	75126	Storie di Borsa
Dow Jones	Capital Markets	75127	Storie di Borsa Mondo
Dow Jones	Capital Markets	75129	Macroanalisi
Dow Jones	Capital Markets	75130	Il Punto Politico
Dow Jones	Capital Markets	75131	IPO Mondo
Dow Jones	Capital Markets	75137	Market Talk Daily Asia Outlook Snippet
Dow Jones	Capital Markets	75155	Italian Language FX Select Market Talk
Dow Jones	Capital Markets	75200	Italian Language FX news
Dow Jones	Capital Markets	77777	DJOS AG News Flashes
Dow Jones	Capital Markets	77778	China Monthly Trade Data
Dow Jones	Capital Markets	77783	Consensus (French-Language)
Dow Jones	Capital Markets	77784	G7 Calendar (French-Language)
Dow Jones	Capital Markets	77785	Market Beat Snippets Equities/Credit
Dow Jones	Capital Markets	77786	Market Beat Snippets Forex/Debt
Dow Jones	Capital Markets	77788	Belgian Corporate Calendar

Dow Jones	Capital Markets	77789	Commento Preapertura e Ciusura (Ital.)
Dow Jones	Capital Markets	77791	Nordic Morning Briefing
Dow Jones	Capital Markets	77910	Nordic Technical Report
Dow Jones	Capital Markets	77911	Nordic Roundup
Dow Jones	Capital Markets	79000	Spanish service Latest dollar comment
Dow Jones	Capital Markets	79001	Spanish service London interbank offered rate for dollars
Dow Jones	Capital Markets	79002	Spanish service Canada dollar comment
Dow Jones	Capital Markets	79006	Chilean peso comment
Dow Jones	Capital Markets	79007	Mexican market comments (stks and forex)
Dow Jones	Capital Markets	79008	Argentinean market comments (stks, bonds, forex)
Dow Jones	Capital Markets	79009	Brazilian stock comment
Dow Jones	Capital Markets	79010	Brazilian market comments (stks and forex)
Dow Jones	Capital Markets	79011	Brazil's forex comment
Dow Jones	Capital Markets	79013	Trading Topic
Dow Jones	Capital Markets	80000	Dow Jones Market Talk/US Equities

Dow Jones	Capital Markets	80051	Global Monthly Commodity Calendar
Dow Jones	Capital Markets	80052	Global Monthly Commodity Calendar - Part 2
Dow Jones	Capital Markets	80053	Global Monthly Commodity Calendar - Part 3
Dow Jones	Capital Markets	80054	Global Monthly Commodity Calendar - Part 4
Dow Jones	Capital Markets	80055	US Monthly Economic Calendar
Dow Jones	Capital Markets	80056	US Monthly Economic Calendar - Part 2
Dow Jones	Capital Markets	80057	US Monthly Economic Calendar - Part 3
Dow Jones	Capital Markets	80059	Energy Calendar - Futures, Options Dates
Dow Jones	Capital Markets	80061	Asia-Pacific Monthly Commodities Calendar
Dow Jones	Capital Markets	80095	Moody's Commodity Index
Dow Jones	Capital Markets	80246	Net Purchases Of US Securities By Foreign Invstrs
Dow Jones	Capital Markets	80247	Net Purchases Of US Treasuries By Foreign Invstrs
Dow Jones	Capital Markets	80303	Technical Analysis: US Credit Futures
Dow Jones	Capital Markets	80306	Technical Analysis: S&P 500, Nasdaq Futures
Dow Jones	Capital Markets	80321	CBOT Financial Final Volume/Open Interest

Dow Jones	Capital Markets	80322	CBOT Financial Final Volume/Open Interest
Dow Jones	Capital Markets	80338	IMM 3-Month EuroDollar Close
Dow Jones	Capital Markets	80346	CBOT Financials Close
Dow Jones	Capital Markets	80372	CME/IMM Financials Volume and Open Interest
Dow Jones	Capital Markets	80415	CME EuroYen Close
Dow Jones	Capital Markets	80856	ECB Foreign Exchange Reference Rates
Dow Jones	Capital Markets	80921	CME Currencies Close
Dow Jones	Capital Markets	80922	CME Currencies Volume/Open Interest
Dow Jones	Capital Markets	80945	Finex Crossrate Currencies Close
Dow Jones	Capital Markets	80957	CFTC Commitments: NYCE US Dlr Index Futures
Dow Jones	Capital Markets	80995	IMF Listing Of SDR Values
Dow Jones	Capital Markets	81000	Bangkok Closing Stock Prices
Dow Jones	Capital Markets	81001	Bombay Closing Stock Prices
Dow Jones	Capital Markets	81003	Hong Kong Closing Stock Prices
Dow Jones	Capital Markets	81004	Jakarta Closing Stock Prices

Dow Jones	Capital Markets	81005	Kuala Lumpur Closing Stock Prices
Dow Jones	Capital Markets	81006	Manila Closing Stock Prices
Dow Jones	Capital Markets	81007	Seoul Closing Stock Prices
Dow Jones	Capital Markets	81008	Shanghai Closing Stock Prices
Dow Jones	Capital Markets	81009	Shenzhen Closing Stock Prices
Dow Jones	Capital Markets	81010	Singapore Closing Stock Prices
Dow Jones	Capital Markets	81011	Sydney Closing Stock Prices
Dow Jones	Capital Markets	81013	Tokyo Closing Stock Prices
Dow Jones	Capital Markets	81014	Wellington Closing Stock Prices
Dow Jones	Capital Markets	81202	US Weekly & Daily Treasury Constant Maturities
Dow Jones	Capital Markets	81210	GWS Weather Statistics : Daily Northwest Europe
Dow Jones	Capital Markets	81219	GWS Weather Statistics : Daily Southeast Europe
Dow Jones	Capital Markets	81220	GWS Weather Statistics : Weekly Southeast Europe
Dow Jones	Capital Markets	81222	FED RESERVE: US Money Supply, Stock Measures-STATS
Dow Jones	Capital Markets	81375	CBOT Dow Jones Index Futures Close

Dow Jones	Capital Markets	81395	CME Nasdaq Volume And Open Interest
Dow Jones	Capital Markets	81396	CME NASDAQ 100 Close
Dow Jones	Capital Markets	81397	OneChicago Futures Open Interest
Dow Jones	Capital Markets	8142	German Power Index (GPI) - Daily Electric
Dow Jones	Capital Markets	8144	Zeebrugge Natural Gas Index (ZIG) - Daily
Dow Jones	Capital Markets	81441	OneChicago Futures Close
Dow Jones	Capital Markets	81450	CRB Futures Price Indices
Dow Jones	Capital Markets	81462	NYFE Futures Volume/Open Interest
Dow Jones	Capital Markets	81468	NYFE Commodity Research Bureau Close
Dow Jones	Capital Markets	81476	Finex US Dollar Index Close
Dow Jones	Capital Markets	81488	CME S&P Stock, Russell, Fortune E-50 Close
Dow Jones	Capital Markets	81489	CME S&P Stock Index Volume And Open Interest
Dow Jones	Capital Markets	81492	CME Nikkei Close
Dow Jones	Capital Markets	81551	Euro Interbank Offered Rates (Euribor)
Dow Jones	Capital Markets	81738	Nymex Capp Coal Close

Dow Jones	Capital Markets	81739	Nymex Capp Coal Volume
Dow Jones	Capital Markets	81740	Nymex Capp Coal Futures Open Interest
Dow Jones	Capital Markets	81820	IPE Gas Oil Close
Dow Jones	Capital Markets	81821	IPE Brent Crude Oil Close
Dow Jones	Capital Markets	81830	Spot Rotterdam Bunker Oil Prices
Dow Jones	Capital Markets	81877	CFTC Commitments: Nymex PJM Electricity Futures
Dow Jones	Capital Markets	81880	CFTC Commitments: Nymex Heating Oil Futures
Dow Jones	Capital Markets	81881	CFTC Commitments: NYMEX Crude Oil Futures
Dow Jones	Capital Markets	81883	CFTC Commitments: Nymex Natural Gas Futures
Dow Jones	Capital Markets	81885	CFTC Commitments: Nymex Swaps Futures
Dow Jones	Capital Markets	81887	CFTC Commitments: Nymex LBMP Swap Futures
Dow Jones	Capital Markets	81914	Nymex Access Volumes Breakdown
Dow Jones	Capital Markets	81918	CFTC Commitments: NYMEX Unleaded Gasoline
Dow Jones	Capital Markets	81923	Nymex Access Final Volumes
Dow Jones	Capital Markets	81924	Nymex Light Crude Oil Close

Dow Jones	Capital Markets	81925	Nymex Crude Oil Futures Volume
Dow Jones	Capital Markets	81926	Nymex Crude Oil Futures Open Interest
Dow Jones	Capital Markets	81933	Nymex Unleaded Gas Futures Volume
Dow Jones	Capital Markets	81934	Nymex Unleaded Gas Futures Open Interest
Dow Jones	Capital Markets	81939	Nymex Heating Oil Close
Dow Jones	Capital Markets	81940	Nymex Heating Oil Futures Volume
Dow Jones	Capital Markets	81941	Nymex Heating Oil Futures Open Interest
Dow Jones	Capital Markets	81948	Nymex Natural Gas Close
Dow Jones	Capital Markets	81949	Nymex Natural Gas Futures Volume
Dow Jones	Capital Markets	81950	Nymex Natural Gas Futures Open Interest
Dow Jones	Capital Markets	81953	US DOE Oil Data: Location of Crude Oil Stks For Wk Ended ...
Dow Jones	Capital Markets	81957	US DOE Oil Data: Gas, Distillate Stock Levels Wk Ended ...
Dow Jones	Capital Markets	81967	US DOE Oil Data: PADD Breakdown For Week Ended
Dow Jones	Capital Markets	81990	CBOT Ethanol Close
Dow Jones	Capital Markets	81991	CBOT Ethanol Final Volume/Open Interest

Dow Jones	Capital Markets	82000	Frankfurt Closing Stock Prices
Dow Jones	Capital Markets	82001	Oslo Closing Stock Prices
Dow Jones	Capital Markets	82002	Stockholm Closing Stock Prices
Dow Jones	Capital Markets	82003	Metals Calendar - Futures, Options Dates
Dow Jones	Capital Markets	82004	London Closing Stock Prices
Dow Jones	Capital Markets	82005	China Copper Futures
Dow Jones	Capital Markets	82006	Lisbon Closing Stock Prices
Dow Jones	Capital Markets	82007	CFTC Copper Commitments
Dow Jones	Capital Markets	82009	China Copper Futures Comment
Dow Jones	Capital Markets	82010	Kuala Lumpur Tin Market Closing Price, Volume
Dow Jones	Capital Markets	82011	Brussels Closing Stock Prices
Dow Jones	Capital Markets	82013	Zurich Closing Stock Prices
Dow Jones	Capital Markets	82026	China Shanghai Metals Futures Closing Prices, Volume
Dow Jones	Capital Markets	82042	LME Warehouse Stocks Aluminum Alloy
Dow Jones	Capital Markets	82043	LME Warehouse Stocks Aluminum

Dow Jones	Capital Markets	82044	LME Warehouse Stocks Copper
Dow Jones	Capital Markets	82045	LME Warehouse Stocks Lead
Dow Jones	Capital Markets	82046	LME Warehouse Stocks Nickel
Dow Jones	Capital Markets	82047	LME Warehouse Stocks Tin
Dow Jones	Capital Markets	82048	LME Warehouse Stocks Zinc
Dow Jones	Capital Markets	82049	LME Warrant Banding Report
Dow Jones	Capital Markets	82050	LME Review
Dow Jones	Capital Markets	82056	LME Final Evening Evaluations
Dow Jones	Capital Markets	82060	LME Daily Official Prices
Dow Jones	Capital Markets	82061	LME Daily Unofficial Prices
Dow Jones	Capital Markets	82062	LME AM Kerb Close
Dow Jones	Capital Markets	82063	LME PM Kerb Close
Dow Jones	Capital Markets	82088	US DOE Propane Stocks
Dow Jones	Capital Markets	82093	LMEX Base Metals Index Closes
Dow Jones	Capital Markets	82096	Johnson Matthey Platinum Group Base Prices

Dow Jones	Capital Markets	82102	Comex Copper Pre-Open Comment
Dow Jones	Capital Markets	82105	CFTC Commitments: Comex Copper Futures
Dow Jones	Capital Markets	82106	CFTC Commitments: Comex Silver Futures
Dow Jones	Capital Markets	82107	CFTC Commitments: Comex Gold Futures
Dow Jones	Capital Markets	82108	Nymex Platinum, Palladium Warehouse Stocks
Dow Jones	Capital Markets	82109	Comex Copper Warehouse Stocks
Dow Jones	Capital Markets	82110	Comex Futures Volume
Dow Jones	Capital Markets	82111	Comex Futures Open Interest
Dow Jones	Capital Markets	82113	Comex Copper Delivery Intentions Breakdown
Dow Jones	Capital Markets	82115	Comex Gold And Silver Warehouse Stocks
Dow Jones	Capital Markets	82116	Nymex Palladium/Platinum Volume
Dow Jones	Capital Markets	82117	Nymex Palladium/Platinum Futures Open Interest
Dow Jones	Capital Markets	82118	NY Engelhard Silver, Platinum, Palladium Prices
Dow Jones	Capital Markets	82119	Nymex Platinum Delivery Intentions Breakdown
Dow Jones	Capital Markets	82120	Nymex Palladium Delivery Intentions Breakdown

Dow Jones	Capital Markets	82122	Comex Copper Close
Dow Jones	Capital Markets	82131	Nymex Palladium Close
Dow Jones	Capital Markets	82139	China Spot Gold Comment
Dow Jones	Capital Markets	82140	NY Merchant Tin Price Indications
Dow Jones	Capital Markets	82142	LME Settlement Conversion Exchange Rates
Dow Jones	Capital Markets	82145	LME Futures Banding Report
Dow Jones	Capital Markets	82149	LME Copper Warehouse Stocks
Dow Jones	Capital Markets	82150	LME Tin Warehouse Stocks
Dow Jones	Capital Markets	82151	LME Lead Warehouse Stocks
Dow Jones	Capital Markets	82152	LME Zinc Warehouse Stocks
Dow Jones	Capital Markets	82153	LME Nickel Warehouse Stocks
Dow Jones	Capital Markets	82154	LME Aluminum Warehouse Stocks
Dow Jones	Capital Markets	82155	LME Alu Alloy Warehouse Stocks
Dow Jones	Capital Markets	82157	LME Warrant Cash Report
Dow Jones	Capital Markets	82158	LME N Amer Alloy Warehouse Stocks

Dow Jones	Capital Markets	82159	LME Warehouse Stocks North American Alloy
Dow Jones	Capital Markets	82160	LME Warrant Tom Report
Dow Jones	Capital Markets	82202	Base Metals Update Comment
Dow Jones	Capital Markets	82203	Precious Metals Update
Dow Jones	Capital Markets	82213	Comex Gold Delivery Intentions Breakdown
Dow Jones	Capital Markets	82214	Comex Silver Delivery Intentions Breakdown
Dow Jones	Capital Markets	82265	Indonesian Physical Palm Oil Prices
Dow Jones	Capital Markets	82267	CSCE Cocoa, Coffee, Sugar Estimated Volumes At 1200 ET
Dow Jones	Capital Markets	82268	USDA US Rice Stocks: Rough/Milled Rice
Dow Jones	Capital Markets	82269	US Export Sales: Commodity Highlights
Dow Jones	Capital Markets	82270	European Precious Metals Comment
Dow Jones	Capital Markets	82272	USDA Chicago Terminal Grain
Dow Jones	Capital Markets	82292	Technical Analysis: US Soy Complex Futures
Dow Jones	Capital Markets	82306	Hussey Copper Price
Dow Jones	Capital Markets	82317	USDA US Crop Production: Soybeans

Dow Jones	Capital Markets	82330	European Minor Metals, Ferro-Alloys Spot Prices
Dow Jones	Capital Markets	82333	NY Precious Metals Review
Dow Jones	Capital Markets	82334	Comex Access Closing Estimated Volumes
Dow Jones	Capital Markets	82335	NOTICE:USDA Crop Progress Update Menu For Week
Dow Jones	Capital Markets	82339	Handy And Harman Gold Prices
Dow Jones	Capital Markets	82340	Philadelphia Exch XAU Index
Dow Jones	Capital Markets	82341	Comex 100oz Gold Close
Dow Jones	Capital Markets	82349	NY Engelhard Gold Prices
Dow Jones	Capital Markets	82351	USDA US Crop Production: Spring Potatoes
Dow Jones	Capital Markets	82356	Comex Silver Close
Dow Jones	Capital Markets	82370	CFTC Commitments: NYMEX Platinum/Palladium Futures
Dow Jones	Capital Markets	82371	Nymex Platinum Close
Dow Jones	Capital Markets	82375	USDA US Crop Production: Corn Plant Population
Dow Jones	Capital Markets	82377	USDA US Crop Production: Cotton Cumulative Bolls
Dow Jones	Capital Markets	82378	USDA Crop Production: Yield/Prod Summary(Add)

Dow Jones	Capital Markets	82386	Handy/Harman Silver, Platinum, Palladium Prices
Dow Jones	Capital Markets	82387	USDA Annual US Crop Production: Peanuts
Dow Jones	Capital Markets	82389	USDA Report: Verbatim Text Crop Production
Dow Jones	Capital Markets	82390	USDA Report: Verbatim Text Supply And Demand
Dow Jones	Capital Markets	82392	Survey: USDA Quarterly Grain Stocks Forecast
Dow Jones	Capital Markets	82399	USDA Supply/Demand: Crop Summary
Dow Jones	Capital Markets	82406	USDA World Corn Trade Projections
Dow Jones	Capital Markets	82416	Survey: Soybean Outlook
Dow Jones	Capital Markets	82417	USDA Grain Report Recap
Dow Jones	Capital Markets	82418	USDA Crop Production: Yield/Prod Summary
Dow Jones	Capital Markets	82424	USDA US Prospective Plantings: Corn
Dow Jones	Capital Markets	82426	USDA US Prospective Plantings: Soybeans
Dow Jones	Capital Markets	82427	USDA US Prospective Plantings: All Sorghum
Dow Jones	Capital Markets	82428	USDA US Prospective Plantings: All Rice, Classes
Dow Jones	Capital Markets	82434	USDA US Prospective Plantings: All Sunseeds

Dow ones	Capital Markets	82435	USDA Final US Crop Production: All Cotton
Dow Jones	Capital Markets	82436	USDA US Crop Production: Citrus Fruits
Dow Jones	Capital Markets	82437	USDA US Crop Production: Sugarbeets/Cane
Dow Jones	Capital Markets	82440	USDA Crop Progress: US Pasture & Range Progress
Dow Jones	Capital Markets	82447	Summary: USDA Grain Report
Dow Jones	Capital Markets	82448	USDA Colorado/Nebraska Dry Edible Bean Bids
Dow Jones	Capital Markets	82449	USDA Weekly Dry Edible Bean/Pea/Lentil Summary
Dow Jones	Capital Markets	82450	USDA Supply/Demand: US Wheat And Wheat By Class
Dow Jones	Capital Markets	82451	USDA Crop Production: Planted/Harvested Summary
Dow Jones	Capital Markets	82452	USDA Supply/Demand: US Feed Grain And Corn
Dow Jones	Capital Markets	82453	USDA Supply/Demand: US Soybeans And Products
Dow Jones	Capital Markets	82454	USDA Supply/Demand: Selected Oilseeds
Dow Jones	Capital Markets	82456	USDA Supply/Demand: US Sorghum, Barley And Oats
Dow Jones	Capital Markets	82457	USDA Supply/Demand: US Rice
Dow Jones	Capital Markets	82458	USDA Supply/Demand: US Animal Products And Prices

Dow Jones	Capital Markets	82459	USDA Supply/Demand: US Meats
Dow Jones	Capital Markets	82460	USDA Supply/Demand: US Eggs and Milk
Dow Jones	Capital Markets	82461	USDA Supply/Demand: US Cotton
Dow Jones	Capital Markets	82462	USDA Supply/Demand: US Sugar
Dow Jones	Capital Markets	82465	USDA Supply/Demand: Grain/Cotton Summary
Dow Jones	Capital Markets	82467	USDA Supply/Demand: World Wheat
Dow Jones	Capital Markets	82468	USDA Supply/Demand: World Corn
Dow Jones	Capital Markets	82469	USDA Supply/Demand: World Soybeans
Dow Jones	Capital Markets	82470	USDA Supply/Demand: World Soyoil
Dow Jones	Capital Markets	82471	USDA Supply/Demand: World Soymeal
Dow Jones	Capital Markets	82472	USDA Supply/Demand: World Rice
Dow Jones	Capital Markets	82473	USDA Supply/Demand: World Coarse Grain
Dow Jones	Capital Markets	82474	USDA Supply/Demand: World Cotton
Dow Jones	Capital Markets	82475	USDA World Agricultural Production: Wheat
Dow Jones	Capital Markets	82476	USDA World Agricultural Production: Corn

Dow Jones	Capital Markets	82477	USDA World Agricultural Production: Soybeans
Dow Jones	Capital Markets	82479	USDA World Agricultural Production: Rice
Dow Jones	Capital Markets	82480	USDA World Agricultural Production: Coarse Grains
Dow Jones	Capital Markets	82481	USDA World Agricultural Production: Sunseed
Dow Jones	Capital Markets	82482	USDA World Agricultural Production: Rapeseed
Dow Jones	Capital Markets	82483	USDA World Agricultural Production: Cottonseed
Dow Jones	Capital Markets	82484	USDA World Agricultural Production: All Cotton
Dow Jones	Capital Markets	82485	USDA World Agricultural Production: Peanuts
Dow Jones	Capital Markets	82487	US Grain Imports
Dow Jones	Capital Markets	82488	USDA Crop Progress: US Cotton Condition/Progress
Dow Jones	Capital Markets	82489	USDA Crop Progress: US Soybean Condition/Progress
Dow Jones	Capital Markets	82490	USDA Loan Activity: Sorghum, Barley, Rice, Oats
Dow Jones	Capital Markets	82491	USDA Loan Activity: Wheat, Corn, Soybeans, Cotton
Dow Jones	Capital Markets	82492	Annual Crop Sorghum Entries
Dow Jones	Capital Markets	82493	Annual Crop Corn Entries

Dow Jones	Capital Markets	82494	Annual Crop Wheat Entries
Dow Jones	Capital Markets	82496	USDA Crop Progress: US Corn Condition/Progress
Dow Jones	Capital Markets	82497	USDA Crop Progress: US Winter Wht Condition/Progress
Dow Jones	Capital Markets	82498	USDA Crop Progress: US Sorghum Progress
Dow Jones	Capital Markets	82499	USDA Crop Progress: US Rice Condition/Progress
Dow Jones	Capital Markets	82516	US Grain, Soybean Export Inspections Estimates
Dow Jones	Capital Markets	82517	USDA Grain Inspections For Export By Regions/Port
Dow Jones	Capital Markets	82519	USDA Grain Inspections For Export
Dow Jones	Capital Markets	82520	USDA Wheat Inspections For Export By Regions/Port
Dow Jones	Capital Markets	82521	USDA Grain Export Inspections By Country/Destination
Dow Jones	Capital Markets	82522	USDA Grain Inspections For Export In Metric Tons
Dow Jones	Capital Markets	82524	USDA Crop Progress: GWS Corn Condition Index
Dow Jones	Capital Markets	82525	Crop Progress: GWS Winter Wheat Condition Index
Dow Jones	Capital Markets	82526	USDA Crop Progress: GWS Sorghum Condition Index
Dow Jones	Capital Markets	82528	USDA Crop Progress: GWS Soybean Condition Index

Dow Jones	Capital Markets	82530	US Weekly Grain Stocks
Dow Jones	Capital Markets	82531	MGE Deliverable Hard Red Spring Wheat Stocks
Dow Jones	Capital Markets	82533	KCBT Deliverable Hard Red Winter Wheat Stocks
Dow Jones	Capital Markets	82534	USDA Minneapolis Weekly Feed Ingredient Prices
Dow Jones	Capital Markets	82535	USDA Crop Progress: GWS Cotton Condition Index
Dow Jones	Capital Markets	82536	USDA St. Louis Weekly Feed Ingredient Prices
Dow Jones	Capital Markets	82537	USDA Chicago Points Weekly Feed Ingredient Prices
Dow Jones	Capital Markets	82538	USDA Kansas City Weekly Feed Ingredient Prices
Dow Jones	Capital Markets	82539	USDA Memphis Weekly Feed Ingredient Prices
Dow Jones	Capital Markets	82550	USDA Grain Inspections For Export, Historical
Dow Jones	Capital Markets	82551	US Export Sales: Corn Historical
Dow Jones	Capital Markets	82552	US Export Sales: All Wheat Historical
Dow Jones	Capital Markets	82554	CBOT Corn Outlook
Dow Jones	Capital Markets	82556	Crop Soybeans Entries
Dow Jones	Capital Markets	82563	USDA World Agricultural Production: Sorghum

Dow Jones	Capital Markets	82565	US Export Sales: Soybeans Historical
Dow Jones	Capital Markets	82566	US Export Sales: Upland Cotton Historical
Dow Jones	Capital Markets	82568	US Export Sales: Net Sales For Soybeans
Dow Jones	Capital Markets	82569	US Export Sales: Net Sales For Wheat
Dow Jones	Capital Markets	82570	US Export Sales: Net Sales For Cotton
Dow Jones	Capital Markets	82571	US Export Sales And Shipments: Corn
Dow Jones	Capital Markets	82572	US Export Sales And Shipments: Minor Grains
Dow Jones	Capital Markets	82573	US Export Sales And Shipments: Soybeans
Dow Jones	Capital Markets	82574	US Export Sales And Shipments: All Wheat
Dow Jones	Capital Markets	82575	US Export Sales And Shipments: Upland, Pima Cotton
Dow Jones	Capital Markets	82576	US Export Sales and Shipments: Wheat classes, products
Dow Jones	Capital Markets	82577	US Export Sales: Net Sales For Soymeal
Dow Jones	Capital Markets	82578	US Export Sales: Net Sales For Soyoil
Dow Jones	Capital Markets	82579	US Export Sales: Net Sales For Corn
Dow Jones	Capital Markets	82580	US Export Sales: Net Sales For Sorghum

Dow Jones	Capital Markets	82581	US Export Sales: Net Sales For Barley
Dow Jones	Capital Markets	82582	US Export Sales: Net Sales For Rice
Dow Jones	Capital Markets	82583	US Export Sales: Weekly Sales Totals
Dow Jones	Capital Markets	82584	US Export Sales and Shipments: Wheat classes, products - Part 3
Dow Jones	Capital Markets	82585	US Export Sales: Weekly Shipment Totals
Dow Jones	Capital Markets	82586	US Export Sales: Bushel Conversions
Dow Jones	Capital Markets	82588	US Weekly Rail Car Loadings
Dow Jones	Capital Markets	82589	Europe Cash Wheat Review
Dow Jones	Capital Markets	82590	India Edible Oils
Dow Jones	Capital Markets	82592	USDA Crop Progress: US Peanuts Condition/Progress
Dow Jones	Capital Markets	82593	USDA California Weekly Grain Report
Dow Jones	Capital Markets	82596	US Grain Exports
Dow Jones	Capital Markets	82597	USDA Weekly Barge Grain Movement
Dow Jones	Capital Markets	82600	CFTC Commitments: CBOT Wheat Futures
Dow Jones	Capital Markets	82601	CFTC Commitments: KCBT Wheat Futures

Dow Jones	Capital Markets	82602	CFTC Commitments: MGE Wheat Futures
Dow Jones	Capital Markets	82603	CFTC Commitments: CBOT Corn Futures
Dow Jones	Capital Markets	82604	CFTC Commitments: CBOT Soybean Futures
Dow Jones	Capital Markets	82605	CFTC Commitments: CBOT Soyoil Futures
Dow Jones	Capital Markets	82606	CFTC Commitments: CBOT Soymeal Futures
Dow Jones	Capital Markets	82607	CFTC Commitments: CBOT Oats Futures
Dow Jones	Capital Markets	82608	CFTC Commitments: CBOT Rough Rice Futures
Dow Jones	Capital Markets	82629	Infograin French Soft Wheat, Barley, Corn Markets
Dow Jones	Capital Markets	82633	InfoGrain French Hard Wheat, Feed Pea, Oilseed Markets
Dow Jones	Capital Markets	82635	InfoGrain EU Grain, Oilseed, Feed Pea Markets
Dow Jones	Capital Markets	82643	N Europe Barge Freights
Dow Jones	Capital Markets	82645	USDA Soybean Export Prices
Dow Jones	Capital Markets	82646	USDA Grain Export Prices
Dow Jones	Capital Markets	82647	USDA Central Illinois Soybean Processor Bids
Dow Jones	Capital Markets	82649	German Grain Cash Prices

Dow Jones	Capital Markets	82650	Rotterdam Soymeal Prices
Dow Jones	Capital Markets	82651	European Veg Oil AM Soft Oil Prices
Dow Jones	Capital Markets	82652	European Veg Oil AM Palm & Lauric Oil Prices
Dow Jones	Capital Markets	82653	Rotterdam Soybean Prices
Dow Jones	Capital Markets	82657	North European Feed Arrivals
Dow Jones	Capital Markets	82660	Rotterdam Wheat, Corn CIF/Ex-Store Prices
Dow Jones	Capital Markets	82670	North German Feed Ingredients
Dow Jones	Capital Markets	82671	Rotterdam Feed Ingredients Business
Dow Jones	Capital Markets	82672	Rotterdam Feed Ingredients
Dow Jones	Capital Markets	82680	European Veg Oil PM Soft Oil Prices
Dow Jones	Capital Markets	82687	USDA World Market Rice Price
Dow Jones	Capital Markets	82690	European Veg Oil PM Palm & Lauric Oil Prices
Dow Jones	Capital Markets	82700	CBOT Corn Review Comment
Dow Jones	Capital Markets	82703	US Wheat Outlook
Dow Jones	Capital Markets	82705	US Wheat Review

Dow Jones	Capital Markets	82710	Technical Analysis: US Corn, Wheat Futures
Dow Jones	Capital Markets	82711	Cotton, Orange Juice Calendar - Futures, Options Dates
Dow Jones	Capital Markets	82714	CBOT Early Call: Grains, Oilseeds Comment
Dow Jones	Capital Markets	82715	CFTC Commitments: KCBT Wheat Futures/Options
Dow Jones	Capital Markets	82717	CFTC Commitments: MGE Futures/Options
Dow Jones	Capital Markets	82719	US Grain: Corn AM Gulf Barge
Dow Jones	Capital Markets	82720	WCE Grain/Oilseed Review
Dow Jones	Capital Markets	82721	WCE Grain/Oilseed Midday
Dow Jones	Capital Markets	82723	Update: US Grain: Corn Midday Gulf Barge
Dow Jones	Capital Markets	82729	US Cash Grain Review
Dow Jones	Capital Markets	82731	US Grain: Wheat AM Gulf Barge/Track
Dow Jones	Capital Markets	82732	US Grain: Wheat Midday Gulf Barge/Track
Dow Jones	Capital Markets	82733	US Grain: Wheat PNW Track
Dow Jones	Capital Markets	82735	USDA Iowa/Minn Daily Barge Terminal Grain Prices
Dow Jones	Capital Markets	82736	US Grain: Wheat Basis Bids

Dow Jones	Capital Markets	82738	KCBT Wheat Delivery Breakdown
Dow Jones	Capital Markets	82739	US Grain: Sorghum Basis Bids
Dow Jones	Capital Markets	82740	Grain Update:
Dow Jones	Capital Markets	82745	US Millfeed Prices
Dow Jones	Capital Markets	82746	MGE Wheat Delivery Breakdown
Dow Jones	Capital Markets	82747	CBOT Delivery Intentions Breakdown: Wheat
Dow Jones	Capital Markets	82748	CBOT Deliverable Stocks Of Grain
Dow Jones	Capital Markets	82749	USDA Soft And Hard Red Wheat Bids
Dow Jones	Capital Markets	82750	CBOT Grain/Oilseeds Final Volume/Open Interest
Dow Jones	Capital Markets	82752	CBOT Soybean/Corn/Oat/Wheat Close
Dow Jones	Capital Markets	82754	CBOT Grains/Oilseeds Settlements
Dow Jones	Capital Markets	82756	CBOT Grain/Oilseeds Preliminary Volume/Open Interest
Dow Jones	Capital Markets	82758	CBOT Delivery Intentions: Totals
Dow Jones	Capital Markets	82760	Agriculture Calendar - Futures, Options Dates
Dow Jones	Capital Markets	82762	CBOT Grain Warehouse Receipt/Certificates

Dow Jones	Capital Markets	82764	KCBT Wheat Volume And Open Interest
Dow Jones	Capital Markets	82765	KCBT Wheat Estimated Volumes
Dow Jones	Capital Markets	82766	KCBT And MGE Grain Settlements
Dow Jones	Capital Markets	82769	WCE Grains Close
Dow Jones	Capital Markets	82770	WCE Grains Volume And Open Interest
Dow Jones	Capital Markets	82771	CBOT Wheat Options Close
Dow Jones	Capital Markets	82774	KCBT Wheat Close
Dow Jones	Capital Markets	82775	KCBT Wheat Options Close
Dow Jones	Capital Markets	82776	KCBT Wheat Options Volume And Open Interest
Dow Jones	Capital Markets	82778	MGE Grains Close
Dow Jones	Capital Markets	82779	MGE Grains Volume And Open Interest
Dow Jones	Capital Markets	82781	MGE Wheat Options Volume And Open Interest
Dow Jones	Capital Markets	82782	MGE Grains Estimated Volumes
Dow Jones	Capital Markets	82785	KCBT Wheat Protein Premium Scale
Dow Jones	Capital Markets	82786	USDA Minnesota Wheat Protein Premium/To Arrive Bids

Dow Jones	Capital Markets	82787	CCC PIK Daily Wheat/Grain Market Rates
Dow Jones	Capital Markets	82795	CBOT Corn Options Close
Dow Jones	Capital Markets	82796	USDA Crop Progress: US Sunflowers Progress
Dow Jones	Capital Markets	82801	US Grain: Morning Truck Basis
Dow Jones	Capital Markets	82802	US Grain: Corn Basis Bids
Dow Jones	Capital Markets	82805	CBOT Oats Options Close
Dow Jones	Capital Markets	82807	USDA World Agricultural Production: Oats
Dow Jones	Capital Markets	82809	USDA World Agricultural Production: Barley
Dow Jones	Capital Markets	82812	USDA Ark/Louisiana/Tex/Calif Weekly Rice Review
Dow Jones	Capital Markets	82815	CBOT Rough Rice Close
Dow Jones	Capital Markets	82817	CBOT Rice Options Close
Dow Jones	Capital Markets	82819	USDA California Weekly Feed Ingredient Prices
Dow Jones	Capital Markets	82822	Closing Grain Prices In Alberta
Dow Jones	Capital Markets	82824	Bunge Canada: Closing Canola/Flax Prices
Dow Jones	Capital Markets	82826	KCBT Cash Grain Range

Dow Jones	Capital Markets	82827	KCBT Millfeed Close
Dow Jones	Capital Markets	82828	Kansas City Receipts And Shipments
Dow Jones	Capital Markets	82829	Kansas City Elevator Stocks
Dow Jones	Capital Markets	82831	USDA Kansas City Daily Feed Ingredient Prices
Dow Jones	Capital Markets	82833	Minneapolis Grain Receipts
Dow Jones	Capital Markets	82834	CBOT Grain/Oilseeds Final Volume/Open Interest-2
Dow Jones	Capital Markets	82835	USDA Minneapolis Cash Grain Close
Dow Jones	Capital Markets	82837	Daily Grain Receipts And Shipments
Dow Jones	Capital Markets	82838	Chicago Grain To Arrive Bids
Dow Jones	Capital Markets	82839	Winnipeg Cash Grain Close
Dow Jones	Capital Markets	82842	Liffe Closing Wheat Futures
Dow Jones	Capital Markets	82845	NOTICE: Cash Basis Values for Barge Freight
Dow Jones	Capital Markets	82847	USDA Portland Cash Grain Prices-AM
Dow Jones	Capital Markets	82848	USDA Portland Cash Grain Prices-PM
Dow Jones	Capital Markets	82853	USDA Colorado Cash Grain Prices

Dow Jones	Capital Markets	82855	USDA Nebraska Cash Grain Prices
Dow Jones	Capital Markets	82858	USDA Virginia Cash Grain Prices
Dow Jones	Capital Markets	82859	USDA Missouri Cash Grain Prices
Dow Jones	Capital Markets	82860	USDA Interior Iowa Cash Grain Prices
Dow Jones	Capital Markets	82861	USDA Illinois Cash Grain Prices
Dow Jones	Capital Markets	82862	Hutchinson Deliverable Hard Red Winter Wheat Stocks
Dow Jones	Capital Markets	82864	Hutchinson Receipts And Shipments
Dow Jones	Capital Markets	82865	USDA Oklahoma Cash Grain Prices
Dow Jones	Capital Markets	82866	Hutchinson Elevator Stocks
Dow Jones	Capital Markets	82871	USDA Daily National Grain Market Summary
Dow Jones	Capital Markets	82875	USDA World Agricultural Production: Rye
Dow Jones	Capital Markets	82886	CBOT Delivery Intentions Breakdown: Corn
Dow Jones	Capital Markets	82890	Euronext Closing Corn Futures
Dow Jones	Capital Markets	82897	WCE Delivery Notices
Dow Jones	Capital Markets	82900	CBOT Brazil Soybean Comment

Dow Jones	Capital Markets	82903	CBOT Soy Outlook
Dow Jones	Capital Markets	82905	USDA Ogden, Utah Cash Grain Bids
Dow Jones	Capital Markets	82909	WCE Canadian Canola Board Margin Index Close
Dow Jones	Capital Markets	82910	US Grain: Soybean AM Gulf Barge
Dow Jones	Capital Markets	82911	Update: US Grain: Soybean Midday Gulf Barge
Dow Jones	Capital Markets	82913	Weekly Canadian Grain Handling Statistics
Dow Jones	Capital Markets	82914	US Grain: Soybean Basis Bids
Dow Jones	Capital Markets	82925	US Oilseed, Meal, Oils/Fats Exports
Dow Jones	Capital Markets	82926	Canadian Lumber Prices
Dow Jones	Capital Markets	82929	US Export Sales And Shipments: Soyml/Oil;Ctn/Sun Oil
Dow Jones	Capital Markets	82930	USDA US To Mexico Weekly Livestock Summary
Dow Jones	Capital Markets	82931	CBOT Delivery Intentions Breakdown: Soybeans
Dow Jones	Capital Markets	82932	CBOT Delivery Intentions Breakdown: Soymeal
Dow Jones	Capital Markets	82933	CBOT Delivery Intentions Breakdown: Oats
Dow Jones	Capital Markets	82934	CBOT Delivery Intentions Breakdown: Rice

Dow Jones	Capital Markets	82938	USDA Montana Cash Grain Report
Dow Jones	Capital Markets	82939	Canadian Canola Board Crush Margin
Dow Jones	Capital Markets	82951	Canadian Oilseed Processors Association Weekly Crush
Dow Jones	Capital Markets	82954	CBOT Soyoil/Soymeal Close
Dow Jones	Capital Markets	82955	CBOT Soyoil Options Close
Dow Jones	Capital Markets	82956	CBOT Soyoil/Soymeal/Rice Registrations
Dow Jones	Capital Markets	82965	CBOT Soybeans Options Close
Dow Jones	Capital Markets	82966	CBOT Delivery Intentions Breakdown: Soyoil
Dow Jones	Capital Markets	82972	USDA Central Illinois Corn Processor Bids
Dow Jones	Capital Markets	82973	USDA Kansas Sunflower Market Report
Dow Jones	Capital Markets	82974	USDA East River South Dakota Grain Markets
Dow Jones	Capital Markets	82975	CBOT Soymeal Options Close
Dow Jones	Capital Markets	82978	US Grain: Soymeal Basis Offers
Dow Jones	Capital Markets	82979	USDA Minnesota/North Dakota Daily Oilseed Prices
Dow Jones	Capital Markets	82989	US Soymeal & Selected Vegetable Oil, Oilsd Imports

Dow Jones	Capital Markets	82990	NOPA Soybean Crush Breakdown
Dow Jones	Capital Markets	82995	NOPA Soybean Crush, Meal, Oil Historical
Dow Jones	Capital Markets	82996	USDA North Central Shell Eggs
Dow Jones	Capital Markets	83001	USDA Weekly National Sunflower Report
Dow Jones	Capital Markets	83002	Survey: NOPA Soy Crush
Dow Jones	Capital Markets	83008	South African Closing Corn, Wheat Futures
Dow Jones	Capital Markets	83010	USDA National Base Cost Lean Value Hog Carcass
Dow Jones	Capital Markets	83013	USDA Kingdom City, Missouri Livestock Auction
Dow Jones	Capital Markets	83014	USDA Patton, Missouri Livestock Auction
Dow Jones	Capital Markets	83017	USDA Pratt, Kansas Opening Livestock Auction
Dow Jones	Capital Markets	83018	USDA Indiana/Michigan/Ohio Direct Feeder Cattle
Dow Jones	Capital Markets	83019	USDA Cold Storage
Dow Jones	Capital Markets	83020	USDA Cold Storage: Red Meat
Dow Jones	Capital Markets	83021	USDA Cold Storage: Poultry/Eggs
Dow Jones	Capital Markets	83026	Cash Grain For Livestock, Truck Delivered

Dow Jones	Capital Markets	83032	USDA Virginia Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83033	USDA Kentucky Livestock Auctions
Dow Jones	Capital Markets	83034	USDA Kentucky Weekly Livestock Auction
Dow Jones	Capital Markets	83048	US Crop Progress Wrap
Dow Jones	Capital Markets	83049	USDA Cold Storage: Historical
Dow Jones	Capital Markets	83059	USDA Cold Storage: Fruits And Vegetables
Dow Jones	Capital Markets	83060	USDA Japanese Weekly Livestock Slaughter
Dow Jones	Capital Markets	83061	Malaysian Cash Market Prices For Palm Oil
Dow Jones	Capital Markets	83066	USDA Japanese Monthly Beef Supply And Demand
Dow Jones	Capital Markets	83067	Malaysian Cash Market Prices For Palm Oil
Dow Jones	Capital Markets	83068	USDA Japanese Monthly Pork Supply And Demand
Dow Jones	Capital Markets	83070	CME Live Cattle Delivery Intentions Total
Dow Jones	Capital Markets	83071	USDA Texas To Mexico Livestock Exports
Dow Jones	Capital Markets	83072	USDA Mexico Livestock Exports To Texas
Dow Jones	Capital Markets	83073	USDA Mexico Livestock Exports To New Mexico

Dow Jones	Capital Markets	83074	USDA Texas/New Mexico Weekly Imported Feeder Cattle
Dow Jones	Capital Markets	83075	USDA New Mexico Livestock Exports To Mexico
Dow Jones	Capital Markets	83076	USDA Mexico Livestock Exports To Arizona
Dow Jones	Capital Markets	83078	CME Live Cattle Delivery Breakdown
Dow Jones	Capital Markets	83081	USDA Weekly Mexico Livestock Exports To US
Dow Jones	Capital Markets	83084	USDA Bowling Green, Missouri Livestock Auction
Dow Jones	Capital Markets	83087	USDA South Dakota Weekly Direct Feeder Cattle
Dow Jones	Capital Markets	83088	USDA Wyoming/W Neb/Dakotas Wkly Direct Fdr Cattle
Dow Jones	Capital Markets	83089	USDA Colorado Weekly Direct Feeder Cattle
Dow Jones	Capital Markets	83090	USDA Montana Weekly Direct Feeder Cattle
Dow Jones	Capital Markets	83092	USDA Tulsa, Oklahoma Livestock Auction
Dow Jones	Capital Markets	83094	USDA Joplin, Missouri Livestock Auction
Dow Jones	Capital Markets	83096	USDA Palmyra, Missouri Livestock Auction
Dow Jones	Capital Markets	83097	USDA Sedalia, Missouri Livestock Auction
Dow Jones	Capital Markets	83098	USDA Billings, Montana Sheep Auction

Dow Jones	Capital Markets	83099	USDA Kingsville, Missouri Livestock Auction
Dow Jones	Capital Markets	83103	USDA Vienna, Missouri Livestock Auction
Dow Jones	Capital Markets	83104	USDA Farmington, Missouri Livestock Auction
Dow Jones	Capital Markets	83105	USDA Salina, Kansas Livestock Auction
Dow Jones	Capital Markets	83106	USDA New Cambria, Missouri Livestock Auction
Dow Jones	Capital Markets	83109	Technical Analysis: US Livestock Futures
Dow Jones	Capital Markets	83112	USDA South Carolina Weekly Livestock Auction
Dow Jones	Capital Markets	83113	USDA Mississippi Livestock Auctions
Dow Jones	Capital Markets	83114	USDA Mississippi Weekly Livestock Auction
Dow Jones	Capital Markets	83115	USDA Estimated Calf Slaughter By Type
Dow Jones	Capital Markets	83138	Norfolk, NE Butcher Hogs Livestock Market Auction
Dow Jones	Capital Markets	83139	Norfolk,NE Fat Cattle Livestock Market Auction
Dow Jones	Capital Markets	83140	Norfolk,NE Feeder Cattle Livestock Mkt Auction
Dow Jones	Capital Markets	83141	USDA Apache, Oklahoma Livestock Auction
Dow Jones	Capital Markets	83142	USDA McAlester, Oklahoma Livestock Auction

Dow Jones	Capital Markets	83143	USDA Ada, Oklahoma Livestock Auction
Dow Jones	Capital Markets	83144	USDA Creston, Iowa Livestock Auction
Dow Jones	Capital Markets	83148	USDA St. Joseph, Missouri Feeder Cattle Auction
Dow Jones	Capital Markets	83149	USDA Columbia, Missouri Livestock Auction
Dow Jones	Capital Markets	83153	USDA Lamoni, Iowa Livestock Auction
Dow Jones	Capital Markets	83155	USDA Texas Pan/W Oklahoma Direct Feeder Cattle
Dow Jones	Capital Markets	83157	USDA Iowa/S Minnesota Weekly Direct Feeder Cattle
Dow Jones	Capital Markets	83158	USDA Kansas Weekly Direct Feeder Cattle
Dow Jones	Capital Markets	83159	USDA Colorado Auction Feeder Cattle Summary
Dow Jones	Capital Markets	83161	USDA Roswell, New Mexico Livestock Auction
Dow Jones	Capital Markets	83164	USDA Conway, Arkansas Livestock Auction
Dow Jones	Capital Markets	83165	USDA Amarillo, Texas Weekly Livestock Auction
Dow Jones	Capital Markets	83166	USDA Riverton, Wyoming Livestock Auction
Dow Jones	Capital Markets	83167	USDA Winter/Dodge City Opening Livestock Auction
Dow Jones	Capital Markets	83169	USDA Kearney, Nebraska Livestock Auction

Dow Jones	Capital Markets	83173	USDA Glenwood, Arkansas Livestock Auction
Dow Jones	Capital Markets	83176	USDA Georgia Weekly Livestock Auction
Dow Jones	Capital Markets	83177	USDA Pratt, Kansas Livestock Auction
Dow Jones	Capital Markets	83178	USDA Alabama Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83179	USDA Arkansas Weekly Livestock Auction
Dow Jones	Capital Markets	83180	USDA Ft. Collins, Colorado Livestock Auction
Dow Jones	Capital Markets	83182	USDA Lexington, Nebraska Livestock Auction
Dow Jones	Capital Markets	83190	USDA Missouri Direct Hogs
Dow Jones	Capital Markets	83191	USDA New Mexico Weekly Direct Cattle/Sheep Sales
Dow Jones	Capital Markets	83194	USDA Northwest Feedlot And Range Sales
Dow Jones	Capital Markets	83195	CME Live Cattle Comment
Dow Jones	Capital Markets	83196	CME Lean Hogs Comment
Dow Jones	Capital Markets	83202	Early CME Call: Cattle, Hogs, Bellies
Dow Jones	Capital Markets	83207	Estimated US Pork Packer Margin Index
Dow Jones	Capital Markets	83209	USDA Total Meat Production

Dow Jones	Capital Markets	83210	US Cash Hogs Pre-Open
Dow Jones	Capital Markets	83214	US Cash Cattle Pre-Open Comment
Dow Jones	Capital Markets	83215	USDA Weekly Livestock Slaughter
Dow Jones	Capital Markets	83218	USDA National Weekly Carlot Beef Trade
Dow Jones	Capital Markets	83219	USDA Prev-Day MW Dir Hog Purchase Prices
Dow Jones	Capital Markets	83223	USDA Ft. Pierre, South Dakota Livestock Auction
Dow Jones	Capital Markets	83225	USDA Kansas Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83227	USDA West Plains, Missouri Livestock Auction
Dow Jones	Capital Markets	83228	USDA Mexico To US Imported Feeder Cattle Prices
Dow Jones	Capital Markets	83229	US Total Hog, Sow/Gilt Slaughter Vs Year Ago
Dow Jones	Capital Markets	83230	Livestock Update
Dow Jones	Capital Markets	83231	CME Livestock Outlook
Dow Jones	Capital Markets	83233	US Retail Meat
Dow Jones	Capital Markets	83235	Hog/Corn, Steer/Corn Ratios
Dow Jones	Capital Markets	83236	USDA Weekly Cow Slaughter By State

Dow Jones	Capital Markets	83242	CME Livestock Close
Dow Jones	Capital Markets	83243	CME Live Cattle Options Close
Dow Jones	Capital Markets	83247	CME Feeder Steer Avg Cash Settlement Prices
Dow Jones	Capital Markets	83248	CME Feeder Cattle Options Close
Dow Jones	Capital Markets	83250	CME Livestock Volume/Open Interest
Dow Jones	Capital Markets	83251	USDA Weekly By-Product Value Hog Report
Dow Jones	Capital Markets	83256	USDA Humeston, Iowa Livestock Auction
Dow Jones	Capital Markets	83257	CME Lean Hog Options Close
Dow Jones	Capital Markets	83262	CFTC Commitments: CME Live Cattle Futures
Dow Jones	Capital Markets	83263	CFTC Commitments: CME Feeder Cattle Futures
Dow Jones	Capital Markets	83265	CFTC Commitments: CME Lean Hog Futures
Dow Jones	Capital Markets	83269	USDA Hogs and Pigs: US Farrowings by state
Dow Jones	Capital Markets	83270	USDA Hogs and Pigs: US Farrowings By State
Dow Jones	Capital Markets	83271	GWS Weather Statistics : Daily Northern Brazil
Dow Jones	Capital Markets	83272	GWS Weather Statistics : Weekly Northern Brazil

Dow Jones	Capital Markets	83273	GWS Weather Statistics : Monthly Northern Brazil
Dow Jones	Capital Markets	83274	GWS Weather Statistics : Daily Southern Brazil
Dow Jones	Capital Markets	83276	Survey: Cattle-on-Feed Estimates
Dow Jones	Capital Markets	83277	Survey: Cattle-on-Feed Outlook
Dow Jones	Capital Markets	83279	USDA ReportL Cattle-on-Feed Report Reaction
Dow Jones	Capital Markets	83282	GWS Weather Statistics : Weekly Southern Brazil
Dow Jones	Capital Markets	83286	USDA Illinois Direct Midday Hogs
Dow Jones	Capital Markets	83289	USDA Missouri Direct Hogs
Dow Jones	Capital Markets	83292	GWS Weather Statistics : Monthly Southern Brazil
Dow Jones	Capital Markets	83299	USDA Weekly By-Product Value Cow Report
Dow Jones	Capital Markets	83303	Peoria Midday Hogs
Dow Jones	Capital Markets	83304	USDA Hogs and Pigs: US Monthly Hogs and Pigs
Dow Jones	Capital Markets	83308	USDA E Cornbelt Weekly Direct Feeder Pig Summary
Dow Jones	Capital Markets	83312	USDA Sioux Falls Hogs
Dow Jones	Capital Markets	83314	GWS Weather Statistics : Daily Japan and Korea

Dow Jones	Capital Markets	83315	USDA South St. Paul Hogs
Dow Jones	Capital Markets	83319	USDA Import Beef Trade: Australia/New Zealand
Dow Jones	Capital Markets	83324	USDA CME Daily Cash Cheddar Cheese Prices
Dow Jones	Capital Markets	83326	USDA CME Daily Cash Nonfat Dry Milk Prices
Dow Jones	Capital Markets	83327	Beef-O-Meter
Dow Jones	Capital Markets	83330	USDA Iowa/S. Minnesota Weekly Hog Average Weights
Dow Jones	Capital Markets	83332	USDA Denison, Iowa Livestock Auction Wtd Avgs
Dow Jones	Capital Markets	83335	CME 2-Day Average Lean Hog Index Values
Dow Jones	Capital Markets	83336	Projected 2-Day Lean Hog Index
Dow Jones	Capital Markets	83346	Survey: Quarterly Hogs & Pigs Estimates
Dow Jones	Capital Markets	83347	Survey: Quarterly Hogs & Pigs Outlook
Dow Jones	Capital Markets	83349	USDA Report: Quarterly Hogs & Pigs Reaction
Dow Jones	Capital Markets	83350	USDA Meat Prices: 1600 Carlot Summary
Dow Jones	Capital Markets	83352	USDA Meat Prices: 1115 National Carlot Pork
Dow Jones	Capital Markets	83353	USDA Meat Prices: 1500 National Carlot Pork

Dow Jones	Capital Markets	83356	USDA Hogs and Pigs: US Inventory, By Class, Weight
Dow Jones	Capital Markets	83357	USDA Hogs and Pigs: US Farrowings, Pig Crop
Dow Jones	Capital Markets	83358	USDA Hogs and Pigs: US State Breeding, Market
Dow Jones	Capital Markets	83359	USDA Hogs and Pigs: US-State Breeding, Market, Total(Add)
Dow Jones	Capital Markets	83360	USDA Hogs and Pigs: US-State Weight Breakdowns
Dow Jones	Capital Markets	83361	USDA Hogs and Pigs: US-State Weight Breakdowns(Add)
Dow Jones	Capital Markets	83362	USDA Hogs and Pigs: US Intentions By State
Dow Jones	Capital Markets	83363	USDA Hogs and Pigs: US Intentions By State
Dow Jones	Capital Markets	83364	USDA Cattle On Feed: 7-State 1,000+ Lots Totals
Dow Jones	Capital Markets	83365	USDA Cattle On Feed: US Ttl 1,000+ Mktg, Other Disappear
Dow Jones	Capital Markets	83366	USDA Cattle On Feed: US Ttl on Feed By Class/Quarter
Dow Jones	Capital Markets	83368	USDA Cattle On Feed: Total 1,000+ Lots State Breakdown
Dow Jones	Capital Markets	83369	USDA Cattle On Feed: By Weight Group, State Breakdown
Dow Jones	Capital Markets	83386	USDA New Mexico Direct Cattle Sales
Dow Jones	Capital Markets	83390	USDA Morning National Slaughter Cattle Review

Dow Jones	Capital Markets	83391	USDA Afternoon National Slaughter Cattle Review
Dow Jones	Capital Markets	83394	USDA Bloomfield, Iowa Livestock Auction
Dow Jones	Capital Markets	83414	Cattle-Fax 6-State, KS/Panhandle Dly Fed Str Price
Dow Jones	Capital Markets	83418	USDA National Feeder Cattle Summary
Dow Jones	Capital Markets	83424	USDA Charlotte, Arkansas Livestock Auction
Dow Jones	Capital Markets	83425	USDA Winter/Dodge City Closing Livestock Auction
Dow Jones	Capital Markets	83432	USDA Oklahoma City Livestock Auction
Dow Jones	Capital Markets	83434	USDA San Angelo Midday/Closing Livestock Auction
Dow Jones	Capital Markets	83437	USDA Oklahoma City Closing Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83438	USDA El Reno, Oklahoma Livestock Auction
Dow Jones	Capital Markets	83439	USDA Springfield, Missouri Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83440	USDA Daily Livestock Summary
Dow Jones	Capital Markets	83442	USDA Cattle On Feed: 7-State, 12-State, Total Historical
Dow Jones	Capital Markets	83443	USDA Cattle On Feed: 7, 12-State, Total Historical - Part 2
Dow Jones	Capital Markets	83444	USDA Cattle On Feed: 7, 12-State, Total Historical - Part 3

Dow Jones	Capital Markets	83447	USDA Central US Daily Direct Feedlot Slaughter Cattle
Dow Jones	Capital Markets	83449	USDA Amarillo, Texas Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83450	USDA Voluntary Tennessee Daily Fdr Cattle Wtd Avgs
Dow Jones	Capital Markets	83451	USDA Georgia Livestock Auctions
Dow Jones	Capital Markets	83454	USDA La Junta, Colorado Livestock Auction
Dow Jones	Capital Markets	83455	USDA Brush, Colorado Livestock Auction
Dow Jones	Capital Markets	83457	USDA Cattle On Feed: Total 1,000+ Lots Placed On Feed
Dow Jones	Capital Markets	83461	USDA Torrington, Wyoming Livestock Auction
Dow Jones	Capital Markets	83462	USDA Billings, Montana Livestock Auction
Dow Jones	Capital Markets	83465	USDA Cattle on Feed: 1,000+ Lots Total US, 12-State
Dow Jones	Capital Markets	83466	USDA Nebraska Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83467	USDA Wyoming Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83470	USDA San Angelo, Texas Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83472	USDA Woodward, Oklahoma Livestock Auction
Dow Jones	Capital Markets	83473	USDA Dalhart, Texas Livestock Auction

Dow Jones	Capital Markets	83475	USDA Limon, Colorado Livestock Auction
Dow Jones	Capital Markets	83478	USDA Amarillo, TX Superior Livestock Video Auction
Dow Jones	Capital Markets	83482	USDA Weekly West Coast Cow Carcass
Dow Jones	Capital Markets	83483	USDA Meat Prices: Carcass Price Equivalent Index
Dow Jones	Capital Markets	83484	USDA Meat Prices: 1115 National Carlot Beef
Dow Jones	Capital Markets	83485	USDA Meat Prices: 1500 National Carlot Beef
Dow Jones	Capital Markets	83486	USDA Meat Prices: Carlot Veal Carcass Report
Dow Jones	Capital Markets	83488	USDA Meat: Daily Estimatd Hide And Offal Value
Dow Jones	Capital Markets	83489	USDA Meat Prices: Daily Hide And Offal Trade
Dow Jones	Capital Markets	83492	GWS Weather Statistics : Daily Argentina Cities
Dow Jones	Capital Markets	83493	USDA Natl 5-Day Rolling Cutter Cow Cutout/Bxd Cow Bf
Dow Jones	Capital Markets	83494	USDA Natl 5-Day Rolling Cutter Cow Cutout/Bxd Cow Bf
Dow Jones	Capital Markets	83495	GWS Weather Statistics : Weekly Argentina Cities
Dow Jones	Capital Markets	83497	USDA Meat Prices: Daily Hide And Offal Trade
Dow Jones	Capital Markets	83498	USDA Livestock Slaughter: Live Weight/Meat Production

Dow Jones	Capital Markets	83499	USDA Livestock Slaughter: By Class/Dressed weight
Dow Jones	Capital Markets	83500	USDA Estimated Daily Livestock Slaughter
Dow Jones	Capital Markets	83501	Daily Estimated Livestock Slaughter (Add)
Dow Jones	Capital Markets	83502	Hog and Cattle Kill Projections
Dow Jones	Capital Markets	83503	Live Equivalent Based on Hot/Hog Carcass
Dow Jones	Capital Markets	83506	USDA Los Angeles Eggs
Dow Jones	Capital Markets	83514	USDA Report: Hogs/Cattle Summary
Dow Jones	Capital Markets	83517	USDA Voluntary US Slaughter Sow Report
Dow Jones	Capital Markets	83518	US Export Sales: Net Sales For Cattle Hides
Dow Jones	Capital Markets	83520	USDA Export Sales: Beef
Dow Jones	Capital Markets	83521	US Export Sales And Shipments: Beef
Dow Jones	Capital Markets	83522	US Weekly Export Sales: Performance Indicator
Dow Jones	Capital Markets	83525	US Export Sales And Shipments: Cattle Hides, Whole
Dow Jones	Capital Markets	83527	USDA South St. Paul Midday/Close Sheep
Dow Jones	Capital Markets	83529	US Export Sales: Net Sales For Beef

Dow Jones	Capital Markets	83531	USDA San Angelo Midday/Closing Sheep Auction
Dow Jones	Capital Markets	83540	USDA Lexington, KY Livestock Auction
Dow Jones	Capital Markets	83541	USDA National Sheep Summary
Dow Jones	Capital Markets	83546	USDA Mountain Areas/Western US Sheep Report
Dow Jones	Capital Markets	83549	USDA Phillip, South Dakota Livestock Auction
Dow Jones	Capital Markets	83550	USDA Poultry Slaughter: Turkeys By Area
Dow Jones	Capital Markets	83551	USDA Poultry Slaughter: Fryers Available For Market
Dow Jones	Capital Markets	83552	USDA Mitchell, South Dakota Livestock Auction
Dow Jones	Capital Markets	83555	USDA National Broiler Market
Dow Jones	Capital Markets	83556	USDA Southern Broiler Report
Dow Jones	Capital Markets	83557	USDA Missouri Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83558	USDA Texas Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83559	USDA Oklahoma Weekly Feeder Cattle Wtd Avgs
Dow Jones	Capital Markets	83560	USDA Delmarva Broiler/Fryer Market
Dow Jones	Capital Markets	83562	USDA Northeast Broiler/Fryer Parts

Dow Jones	Capital Markets	83563	USDA Clovis, New Mexico Livestock Auction
Dow Jones	Capital Markets	83565	USDA Imports Of Canadian Live Animals By Entry State
Dow Jones	Capital Markets	83566	USDA Estimated Broiler/Fryer Slaughter
Dow Jones	Capital Markets	83567	USDA Tennessee Weekly Feeder Cattle Summary
Dow Jones	Capital Markets	83569	USDA Weekly Cold Storage Holdings
Dow Jones	Capital Markets	83570	USDA Georgia Poultry Market
Dow Jones	Capital Markets	83571	USDA Preliminary Estimated US Poultry Slaughter
Dow Jones	Capital Markets	83572	USDA Poultry Slaughter: Totals By Type
Dow Jones	Capital Markets	83574	USDA Poultry Slaughter Monthly Report
Dow Jones	Capital Markets	83575	USDA Chicago Broiler/Fryer Report
Dow Jones	Capital Markets	83578	USDA Broiler/Egg Set-Chicks Placed Report
Dow Jones	Capital Markets	83580	USDA National Turkey Market
Dow Jones	Capital Markets	83581	USDA 12-City Composite Wtd Avg Broiler/Fryer Prices
Dow Jones	Capital Markets	83582	USDA US Federally Inspected Egg Products
Dow Jones	Capital Markets	83583	USDA Eggs And Chickens: Eggs/Layers By Type

Dow Jones	Capital Markets	83584	USDA Eggs And Chickens: Hatchery Production
Dow Jones	Capital Markets	83585	USDA Movement Of Eggs Into Retail Channels
Dow Jones	Capital Markets	83586	USDA Commerical Egg Movement Report
Dow Jones	Capital Markets	83587	USDA Southeast Breaking Stock Egg Report
Dow Jones	Capital Markets	83588	USDA Weekly Liquid/Frozen Dried Egg Report
Dow Jones	Capital Markets	83591	USDA Monthly Dried Egg Report
Dow Jones	Capital Markets	83594	USDA National Egg Market
Dow Jones	Capital Markets	83600	NYBOT Cotton Review
Dow Jones	Capital Markets	83606	USDA Cotton Ginnings Report
Dow Jones	Capital Markets	83607	US Cotton Exports
Dow Jones	Capital Markets	83608	Age Of Cotton In Certificated Stock
Dow Jones	Capital Markets	83609	Forward Contracting Of US Cotton
Dow Jones	Capital Markets	83612	Final Texas Upland Cotton Production Estimates
Dow Jones	Capital Markets	83622	Cotton Under Loan
Dow Jones	Capital Markets	83624	Certificated Cotton Stocks

Dow Jones	Capital Markets	83626	NYBOT Cotton Close
Dow Jones	Capital Markets	83628	USDA Volume Of Cotton Classed Report
Dow Jones	Capital Markets	83631	NYBOT Cotton Options Volume And Open Interest
Dow Jones	Capital Markets	83638	On-Call Cotton
Dow Jones	Capital Markets	83640	USDA US Spot Cotton Quotations
Dow Jones	Capital Markets	83641	Cotlook Cotton Indexes Higher
Dow Jones	Capital Markets	83642	NYBOT Daily Cotton Stocks
Dow Jones	Capital Markets	83644	The Seam Daily Cotton Prices
Dow Jones	Capital Markets	83646	NYBOT: Cotton Notices Posted
Dow Jones	Capital Markets	83647	Coffee Calendar - Futures, Options Dates
Dow Jones	Capital Markets	83648	CFTC Commitments: NYCE Cotton Futures
Dow Jones	Capital Markets	83649	Argentina Soybeans Weather
Dow Jones	Capital Markets	83654	US Commerce Dept Textile And Apparel Imports
Dow Jones	Capital Markets	83667	Liffe Coffee Review
Dow Jones	Capital Markets	83674	Liffe Cocoa Gradings

Dow Jones	Capital Markets	83679	USDA Crop Progress: US Sugarbeets Progress
Dow Jones	Capital Markets	83680	Cocoa Calendar - Futures, Options Dates
Dow Jones	Capital Markets	83684	US Coffee, Cocoa Imports
Dow Jones	Capital Markets	83687	Liffe Robusta Coffee Close
Dow Jones	Capital Markets	83688	Liffe Coffee Gradings, Tenders
Dow Jones	Capital Markets	83692	International Coffee Organization Prices
Dow Jones	Capital Markets	83693	ICCO Cocoa Daily Price
Dow Jones	Capital Markets	83695	Liffe Cocoa Close
Dow Jones	Capital Markets	83702	London Daily Sugar Prices
Dow Jones	Capital Markets	83703	International Sugar Organization Prices
Dow Jones	Capital Markets	83705	Liffe White Sugar Close
Dow Jones	Capital Markets	83709	US Rubber Imports
Dow Jones	Capital Markets	83712	US Coffee, Tea Export, Re-exports
Dow Jones	Capital Markets	83713	CFTC Commitments: NYCE FCOJ Futures
Dow Jones	Capital Markets	83714	Softs Update

Dow Jones	Capital Markets	83718	CFTC Commitments: CSCE Cocoa Futures
Dow Jones	Capital Markets	83719	CFTC Commitments: CSCE Coffee C Futures
Dow Jones	Capital Markets	83720	Liffe Coffee, Cocoa Volumes and Open Interest
Dow Jones	Capital Markets	83722	CSCE: Sugar 11 Notices Posted
Dow Jones	Capital Markets	83727	CSCE: Coffee Notices Posted
Dow Jones	Capital Markets	83736	NYBOT FCOJ Review
Dow Jones	Capital Markets	83742	CSCE Sugar Review
Dow Jones	Capital Markets	83750	CSCE Coffee, Sugar, Cocoa Final Volume
Dow Jones	Capital Markets	83751	CSCE Coffee, Sugar, Cocoa Open Interest
Dow Jones	Capital Markets	83752	CSCE Coffee, Sugar, Cocoa Closing Estimated Volumes
Dow Jones	Capital Markets	83755	CSCE Coffee Close
Dow Jones	Capital Markets	83757	CSCE Coffee Options Volume And Open Interest
Dow Jones	Capital Markets	83759	CSCE Coffee Warehouse Stocks
Dow Jones	Capital Markets	83763	US Green Coffee Stocks
Dow Jones	Capital Markets	83765	CSCE Cocoa Close

Dow Jones	Capital Markets	83766	CSCE Cocoa Options Close
Dow Jones	Capital Markets	83768	CSCE Cocoa Warehouse Stocks
Dow Jones	Capital Markets	83769	CMA Spot Cocoa Bean And Product Price Indications
Dow Jones	Capital Markets	83771	CSCE: Cocoa Notices Posted
Dow Jones	Capital Markets	83775	CSCE Sugar 11 Close
Dow Jones	Capital Markets	83776	CSCE Sugar 14 Close
Dow Jones	Capital Markets	83778	CSCE Sugar Options Volume And Open Interest
Dow Jones	Capital Markets	83780	CFTC Commitments: CSCE Sugar 11 Futures
Dow Jones	Capital Markets	83782	Florida FCOJ Movement And Pack
Dow Jones	Capital Markets	83785	NYBOT FCOJ Close
Dow Jones	Capital Markets	83787	NYBOT FCOJ Options Close
Dow Jones	Capital Markets	83806	US Midwest SRW Wheat Weather
Dow Jones	Capital Markets	83814	Plains States Estimated Cattle Showlists
Dow Jones	Capital Markets	83816	India Rice Weather
Dow Jones	Capital Markets	83818	West Africa Cocoa Weather

Dow Jones	Capital Markets	83819	Brazil Coffee Weather
Dow Jones	Capital Markets	83821	Northeast China Corn Weather
Dow Jones	Capital Markets	83824	US Northern Plains Great Weather
Dow Jones	Capital Markets	83825	US Midwest Soybeans Weather
Dow Jones	Capital Markets	83827	Florida Citrus Weather
Dow Jones	Capital Markets	83828	US Southeast Soybeans Weather
Dow Jones	Capital Markets	83833	North Africa Winter Wheat Weather
Dow Jones	Capital Markets	83834	Pakistan/India Cotton Weather
Dow Jones	Capital Markets	83835	Argentina/Paraguay Cotton Weather
Dow Jones	Capital Markets	83836	US Northern Plains Spring Wheat Weather
Dow Jones	Capital Markets	83838	Southeast Asia Sugarcane Weather
Dow Jones	Capital Markets	83839	Southeast Asia Cocoa Weather
Dow Jones	Capital Markets	83840	Southeast Asia Coffee Weather
Dow Jones	Capital Markets	83842	Indo China Rice Weather
Dow Jones	Capital Markets	83844	Canadian Prairies Canola Weather

Dow Jones	Capital Markets	83852	Southeast Asia Rice Weather
Dow Jones	Capital Markets	83859	China Cotton Weather
Dow Jones	Capital Markets	83860	China Winter Wheat Weather
Dow Jones	Capital Markets	83861	Former Soviet Union Cotton Weather
Dow Jones	Capital Markets	83862	Western FSU Sugarbeets Weather
Dow Jones	Capital Markets	83864	Europe Rapeseed Weather
Dow Jones	Capital Markets	83866	Australia Sugarcane Weather
Dow Jones	Capital Markets	83867	US Southwest Cotton Weather
Dow Jones	Capital Markets	83889	Euronext Closing Rapeseed Futures
Dow Jones	Capital Markets	83901	Sugar Calendar - Futures, Options Dates
Dow Jones	Capital Markets	83910	US Grain, Soybean Weekly Export Sales Estimates
Dow Jones	Capital Markets	83927	USDA Cuba, Missouri Livestock Auction
Dow Jones	Capital Markets	83930	Thailand Corn Weather
Dow Jones	Capital Markets	83931	Thailand Rubber Weather
Dow Jones	Capital Markets	83933	India/Sri Lanka Rubber Weather

Dow Jones	Capital Markets	83936	CME Milk/Butter Close
Dow Jones	Capital Markets	83960	US Midwest Corn Weather
Dow Jones	Capital Markets	83961	US Southern Plains HRW Wheat Weather
Dow Jones	Capital Markets	83962	California Citrus Weather
Dow Jones	Capital Markets	83963	US Southeast Corn Weather
Dow Jones	Capital Markets	83964	Colombia/Ecuador Coffee Weather
Dow Jones	Capital Markets	83974	USDA Agricultural Prices: Historical
Dow Jones	Capital Markets	83975	USDA US Agricultural Parity Prices
Dow Jones	Capital Markets	83976	USDA US Agricultural Parity Prices - Part 2
Dow Jones	Capital Markets	83977	USDA US Agricultural Prices Received
Dow Jones	Capital Markets	83978	USDA US Agricultural Prices Received - Part 2
Dow Jones	Capital Markets	83981	Florida, Caribbean Sugarcane Weather
Dow Jones	Capital Markets	83982	US Southeast Cotton Weather
Dow Jones	Capital Markets	83989	NYBOT: FCOJ Notices Posted
Dow Jones	Capital Markets	83992	USDA Greenville, Illinois Livestock Auction

Dow Jones	Capital Markets	83994	USDA Natl Steer/Heifer Estimated Grading Percent
Dow Jones	Capital Markets	83995	USDA Weekly Cheddar Cheese Prices
Dow Jones	Capital Markets	83996	USDA Weekly Butter, Dry Milk And Dry Whey Prices
Dow Jones	Capital Markets	84001	CME Livestock/Lumber Options Estimated Volumes
Dow Jones	Capital Markets	84006	CME Agricultural Estimated Futures Volumes
Dow Jones	Capital Markets	84022	West Africa Coffee Weather
Dow Jones	Capital Markets	84023	India Sugarcane Weather
Dow Jones	Capital Markets	84024	South China Sugarcane Weather
Dow Jones	Capital Markets	84027	Europe Sugarbeets Weather
Dow Jones	Capital Markets	84028	Australia Wheat Weather
Dow Jones	Capital Markets	84029	East Africa Coffee Weather
Dow Jones	Capital Markets	84030	India/Pakistan Winter Wheat Weather
Dow Jones	Capital Markets	84031	North China Soybeans Weather
Dow Jones	Capital Markets	84033	Europe Wheat Weather
Dow Jones	Capital Markets	84034	Australia Cotton Weather

Dow Jones	Capital Markets	84087	USDA Green City, Missouri Livestock Auction
Dow Jones	Capital Markets	84204	Great Plains Cattle Feeding Breakevens
Dow Jones	Capital Markets	84342	USDA Arizona To Mexico Livestock Export Report
Dow Jones	Capital Markets	84345	USDA California To Mexico Livestock Export Report
Dow Jones	Capital Markets	84391	US ECONOMIC INDICATORS: Housing Data
Dow Jones	Capital Markets	84396	Sicom Rubber Comment
Dow Jones	Capital Markets	84397	Tocom Rubber Comment
Dow Jones	Capital Markets	84400	CME Lumber Review
Dow Jones	Capital Markets	84402	US Softwood Log Exports
Dow Jones	Capital Markets	84408	Daily Lumber/Plywood Cash Price Guide
Dow Jones	Capital Markets	84421	CME Lumber Close
Dow Jones	Capital Markets	84422	CME Lumber Volume and Open Interest
Dow Jones	Capital Markets	84423	CME Lumber Options Close
Dow Jones	Capital Markets	84426	CFTC Commitments: CME Lumber Futures
Dow Jones	Capital Markets	84442	Tocom, Osaka Rubber Futures Closing Prices

Dow Jones	Capital Markets	84443	Asian Physical Rubber Prices
Dow Jones	Capital Markets	84444	Rubber Trade Assoc Prices
Dow Jones	Capital Markets	84445	RTAE London Rubber Prices
Dow Jones	Capital Markets	84447	Japan Rubber Stocks
Dow Jones	Capital Markets	84448	Malaysia Natural Rubber Output
Dow Jones	Capital Markets	84453	Sicom Rubber Futures Settlement Prices
Dow Jones	Capital Markets	84459	US Employment Cost Index-STATS-Historical
Dow Jones	Capital Markets	84462	US Existing Single-Family Home Sales-STATS
Dow Jones	Capital Markets	84466	China Trade Data: Timber, Pulp, Plywood
Dow Jones	Capital Markets	84467	China Tire Output: Data Table
Dow Jones	Capital Markets	84521	OceanConnect Bunker Prices
Dow Jones	Capital Markets	84555	US New Home Sales-STATS
Dow Jones	Capital Markets	84697	US Economic Indicators: Survey Of Forecasters
Dow Jones	Capital Markets	84698	US Economic Indicators: Latest 6 Months Data
Dow Jones	Capital Markets	84708	US Wholesale Trade-STATS-Historical

Dow Jones	Capital Markets	84710	US Business Inventories-STATS-Historical
Dow Jones	Capital Markets	84716	US Consumer Credit-STATS-Historical
Dow Jones	Capital Markets	84718	US Consumer Price Index-STATS-Historical
Dow Jones	Capital Markets	84720	US Construction Spending-STATS-Historical
Dow Jones	Capital Markets	84726	US Durable Goods-STATS-Historical
Dow Jones	Capital Markets	84733	US Factory Orders-STATS-Historical, New Orders
Dow Jones	Capital Markets	84734	US Factory Orders-STATS-Historical, Shpmnts, Unfilled, Invty
Dow Jones	Capital Markets	84737	US Gold Exports
Dow Jones	Capital Markets	84738	US Silver Exports
Dow Jones	Capital Markets	84739	US GDP/Corporate Profits-STATS-Historical
Dow Jones	Capital Markets	84741	US Platinum Exports
Dow Jones	Capital Markets	84742	US Palladium Exports
Dow Jones	Capital Markets	84748	US Silver Imports
Dow Jones	Capital Markets	84749	US Gold Imports
Dow Jones	Capital Markets	84750	US Platinum Imports

Dow Jones	Capital Markets	84753	US Industrial Production-STATS-Historical
Dow Jones	Capital Markets	84758	US Palladium Imports
Dow Jones	Capital Markets	84759	US Copper Imports
Dow Jones	Capital Markets	84761	US Nickel Imports
Dow Jones	Capital Markets	84762	US Aluminum Imports
Dow Jones	Capital Markets	84764	US Trade-STATS-Historical
Dow Jones	Capital Markets	84768	US Lead Imports
Dow Jones	Capital Markets	84769	US Zinc Imports
Dow Jones	Capital Markets	84770	US Tin Imports
Dow Jones	Capital Markets	84772	US Personal Income-STATS-Historical
Dow Jones	Capital Markets	84776	US Exports -- Tin
Dow Jones	Capital Markets	84777	US Productivity And Cost Index-STATS-Historical
Dow Jones	Capital Markets	84778	US Exports -Zinc
Dow Jones	Capital Markets	84780	US Retail Sales-STATS-Historical
Dow Jones	Capital Markets	84781	US Exports - Lead

Dow Jones	Capital Markets	84783	US Exports - Aluminum
Dow Jones	Capital Markets	84784	US Exports - Nickel
Dow Jones	Capital Markets	84785	US Exports -Copper
Dow Jones	Capital Markets	84786	US Natural Rubber Imports
Dow Jones	Capital Markets	84787	US Pulp Imports
Dow Jones	Capital Markets	84788	US Newsprint Imports
Dow Jones	Capital Markets	84793	US Imports Unwrought Coils Of Aluminum
Dow Jones	Capital Markets	84794	US Cocoa Imports
Dow Jones	Capital Markets	84795	US Coffee Imports
Dow Jones	Capital Markets	84796	US Trade-STATS- Beef Exports By Country
Dow Jones	Capital Markets	84797	US Trade-STATS- Pork Exports By Country
Dow Jones	Capital Markets	84798	US Trade-STATS- Beef and Pork Imports By Country
Dow Jones	Capital Markets	84804	US Trade-STATS- Beef Exports By Country - Part 2
Dow Jones	Capital Markets	84805	US Trade-STATS- Beef Exports By Country - Part 3
Dow Jones	Capital Markets	84806	US Trade-STATS- Beef Exports By Country - Part 4

Dow Jones	Capital Markets	84807	US Trade-STATS- Pork Exports By Country - Part 2
Dow Jones	Capital Markets	84886	US Producer Price Index-STATS-Historical
Dow Jones	Capital Markets	85101	China Refined Sugar Production: Data Table
Dow Jones	Capital Markets	85505	BMD Crude Palm Oil Futures
Dow Jones	Capital Markets	85507	MARKET TALK: Asia Edible Oils
Dow Jones	Capital Markets	85533	European Fishmeal Prices
Dow Jones	Capital Markets	85538	NOTICE: German Rapeseed Cash Prices
Dow Jones	Capital Markets	85547	India Commodities Prices
Dow Jones	Capital Markets	85564	Malaysia Palm Stocks
Dow Jones	Capital Markets	85566	ASIA SOYBEAN OUTLOOK
Dow Jones	Capital Markets	85567	ASIA SOYBEAN OUTLOOK:
Dow Jones	Capital Markets	85578	Malaysia Palm Oil Exports - Intertek
Dow Jones	Capital Markets	85583	Indonesian Palm Oil Auctions
Dow Jones	Capital Markets	85592	Malaysia's Palm Oil Exports - SGS
Dow Jones	Capital Markets	85596	USDA Supply/Demand: Wheat Ending Stocks, Historical

Dow Jones	Capital Markets	85599	USDA Supply/Demand: Wheat Production, Historical
Dow Jones	Capital Markets	85600	USDA Supply/Demand: Corn Ending Stocks, Historical
Dow Jones	Capital Markets	85601	USDA Supply/Demand: Corn Production, Historical
Dow Jones	Capital Markets	85602	USDA Supply/Demand: Soybean Ending Stocks, Historical
Dow Jones	Capital Markets	85603	USDA Supply/Demand: Soybean Production, Historical
Dow Jones	Capital Markets	85804	China Soybean Futures Comment
Dow Jones	Capital Markets	85810	Dalian Commodity Exchange Soybean, Soymeal Stocks
Dow Jones	Capital Markets	85825	GWS Weather Statistics : Daily Southern Mexico
Dow Jones	Capital Markets	85830	USDA Supply/Demand: World Corn - Part 2
Dow Jones	Capital Markets	85831	USDA Supply/Demand: World Wheat - Part 2
Dow Jones	Capital Markets	85832	USDA Supply/Demand: World Cotton (Add)
Dow Jones	Capital Markets	85833	USDA Supply/Demand: World Coarse Grain - Part 2
Dow Jones	Capital Markets	85835	USDA Supply/Demand: World Rice - Part 2
Dow Jones	Capital Markets	85845	USDA US Livestock Imports From Canada
Dow Jones	Capital Markets	85846	USDA New York Eggs

Dow Jones	Capital Markets	85847	USDA New York Broiler/Fryer Report
Dow Jones	Capital Markets	85849	USDA S. California Broiler/Fryer Report
Dow Jones	Capital Markets	86009	China Copper Production: Table Of Metals Data
Dow Jones	Capital Markets	86010	ChinaTrade Data: Copper, Aluminum, Other Minerals
Dow Jones	Capital Markets	86030	India Rapeseed Weather
Dow Jones	Capital Markets	86031	India Soybeans Weather
Dow Jones	Capital Markets	86032	Southeast Asia Palm Oil Weather
Dow Jones	Capital Markets	86033	South Africa Corn Weather
Dow Jones	Capital Markets	86800	USDA 5-Area Wtd Avg Direct Sltr Cattle Neg Sales
Dow Jones	Capital Markets	86801	USDA Natl Daily Direct Sltr Cow/Bull Neg Sales Sum
Dow Jones	Capital Markets	86804	USDA Natl Daily Direct Sltr/Comtd/Dlvd Cattle-AM
Dow Jones	Capital Markets	86805	USDA Natl Daily Direct Sltr/Comitd/Dlvd Cattle-PM
Dow Jones	Capital Markets	86806	USDA Natl Daily Direct Sltr/Comtd/Dlvd Cattle Sum
Dow Jones	Capital Markets	86807	USDA Natl Daily Direct Sltr Cattle Form Purch Sum
Dow Jones	Capital Markets	86808	USDA Natl Daily Direct Sltr Cattle-Form Purch-AM

Dow Jones	Capital Markets	86809	USDA Natl Daily Direct Sltr Cattle Form Purch-PM
Dow Jones	Capital Markets	86813	USDA Natl Daily Direct Sltr Cattle Neg Purchases-AM
Dow Jones	Capital Markets	86814	USDA Natl Daily Direct Sltr Cattle Neg Purchases-PM
Dow Jones	Capital Markets	86815	USDA Texas/OK Daily Direct Sltr Cattle Neg Purch-AM
Dow Jones	Capital Markets	86816	USDA Texas/OK Daily Direct Sltr Cattle Neg Purch-PM
Dow Jones	Capital Markets	86817	USDA Texas/OK Daily Direct Sltr Cattle Neg Purch Sum
Dow Jones	Capital Markets	86818	USDA Kansas Daily Direct Sltr Cattle Neg Purch-AM
Dow Jones	Capital Markets	86819	USDA Kansas Daily Direct Sltr Cattle Neg Purch-PM
Dow Jones	Capital Markets	86820	USDA Kansas Daily Direct Sltr Cattle Neg Purch Sum
Dow Jones	Capital Markets	86821	USDA Nebraska Daily Direct Sltr Cattle Neg Purch-AM
Dow Jones	Capital Markets	86822	USDA Nebraska Daily Direct Sltr Cattle Neg Purch-PM
Dow Jones	Capital Markets	86823	USDA Nebraska Daily Direct Sltr Cattle Neg Purch Sum
Dow Jones	Capital Markets	86824	USDA Natl Daily Direct Sltr Cattle Neg Purchases Sum
Dow Jones	Capital Markets	86825	USDA Tex/OK Daily Wtd Avg Direct Cattle Neg Sales
Dow Jones	Capital Markets	86826	USDA Kans Daily Wtd Avg Direct Sltr Cattle Neg Sales

Dow Jones	Capital Markets	86827	USDA Nebr Daily Wtd Avg Direct Sltr Cattle Neg Sales
Dow Jones	Capital Markets	86828	USDA Colo Daily Wtd Avg Direct Sltr Cattle Neg Sales
Dow Jones	Capital Markets	86829	USDA Iowa/Minn Daily Wtd Avg Direct Cattle Neg Sales
Dow Jones	Capital Markets	86830	USDA 5-Area Weekly Direct Slaughter Cattle Wtd Avgs
Dow Jones	Capital Markets	86831	USDA Natl Wkly Direct Cattle Domstc Form/Fwd Cont
Dow Jones	Capital Markets	86832	USDA Natl Wkly Direct Cattle Import Form/Fwd Cont
Dow Jones	Capital Markets	86833	USDA Natl Wkly Direct Sltr Cattle Packer Ownd Cattle
Dow Jones	Capital Markets	86834	USDA Natl Weekly Direct Sltr Cattle Neg Purchases
Dow Jones	Capital Markets	86835	USDA Natl Wkly Direct Sltr Cattle Premiums/Discounts
Dow Jones	Capital Markets	86836	USDA Texas/OK Wkly Direct Sltr Cattle Neg Purchase
Dow Jones	Capital Markets	86837	USDA Kansas Weekly Direct Sltr Cattle Neg Purchase
Dow Jones	Capital Markets	86838	USDA Nebraska Weekly Direct Sltr Cattle Neg Purchase
Dow Jones	Capital Markets	86843	USDA TX/OK Wkly Wtd Avg Direct Sltr Ctl-Neg Sales
Dow Jones	Capital Markets	86844	USDA Kansas Wkly Wtd Avg Direct Sltr Ctl-Neg Sales
Dow Jones	Capital Markets	86845	USDA Nebraska Wkly Wtd Avg Direct Sltr Ctl-Neg Sales

Dow Jones	Capital Markets	86846	USDA Colorado Wkly Wtd Avg Direct Sltr Ctl-Neg Sales
Dow Jones	Capital Markets	86847	USDA Iowa/Minn Wkly Wtd Avg Direct Sltr Ctl-Neg Sales
Dow Jones	Capital Markets	86851	USDA Natl Daily Direct Prior Day Hogs Purchased
Dow Jones	Capital Markets	86852	USDA Natl Daily Direct Prior Day Hogs Slaughtered
Dow Jones	Capital Markets	86853	USDA Natl Daily Direct Hogs-AM
Dow Jones	Capital Markets	86854	USDA Natl Daily Direct Hogs-PM
Dow Jones	Capital Markets	86855	USDA Iowa/Minn Daily Direct Prior Day Hogs Purchased
Dow Jones	Capital Markets	86856	USDA Iowa/Minnesota Daily Direct Hogs-AM
Dow Jones	Capital Markets	86857	USDA Iowa/Minnesota Daily Direct Hogs-PM
Dow Jones	Capital Markets	86858	USDA E Cornbelt Daily Direct Prior Day Hogs Purch
Dow Jones	Capital Markets	86859	USDA W Cornbelt Daily Direct Prior Day Hogs Purch
Dow Jones	Capital Markets	86860	USDA E Cornbelt Daily Direct Hogs-AM
Dow Jones	Capital Markets	86861	USDA E Cornbelt Daily Direct Hogs-PM
Dow Jones	Capital Markets	86862	USDA W Cornbelt Daily Direct Hogs-AM
Dow Jones	Capital Markets	86863	USDA W Cornbelt Daily Direct Hogs-PM

Dow Jones	Capital Markets	86871	USDA Natl Daily Lamb Neg/Formulated Purchases
Dow Jones	Capital Markets	86881	USDA Natl Weekly Lamb Report
Dow Jones	Capital Markets	86884	USDA National Comprehensive Boxed Beef Cutout
Dow Jones	Capital Markets	86887	USDA Natl Weekly Boneless Beef/Trimming Neg Sales
Dow Jones	Capital Markets	86888	USDA Natl Weekly Boneless Beef/Boxed Cuts Neg Sales
Dow Jones	Capital Markets	86889	USDA Natl Wkly Cutter Cow Cutout/Boxed Cuts Neg Sale
Dow Jones	Capital Markets	86892	USDA Natl Daily Boxed Beef Cutout/Cuts Neg Sales-AM
Dow Jones	Capital Markets	86893	USDA Natl Daily Boxed Beef Cutout/Cuts Neg Sales-PM
Dow Jones	Capital Markets	86898	USDA Natl Weekly Boxed Beef Cuts Branded Product
Dow Jones	Capital Markets	86900	USDA Natl Weekly Boxed Beef Cuts Formulated Sales
Dow Jones	Capital Markets	86902	USDA Natl Weekly Boxed Beef Cuts Prime Product
Dow Jones	Capital Markets	86910	USDA Natl Daily Boxed Lamb Cuts Neg Sales
Dow Jones	Capital Markets	86911	USDA Natl Daily Lamb Carcass Report
Dow Jones	Capital Markets	86917	USDA Natl Weekly Boxed Lamb Cuts Imported Product
Dow Jones	Capital Markets	8737	Spot Rotterdam Bunker Oil Prices

Dow Jones	Capital Markets	8740	EIA: US Retail Diesel Avg Price
Dow Jones	Capital Markets	8764	DJ Market Talk/Energy Oil
Dow Jones	Capital Markets	87758	US DOE Oil Data: API-DOE Comparison For Wk Ended
Dow Jones	Capital Markets	8791	West Coast Crude Oil Postings
Dow Jones	Capital Markets	8797	UK Large Power Station Outage Table
Dow Jones	Capital Markets	88105	CFTC Commitments: Comex Copper Futures/Options
Dow Jones	Capital Markets	88106	CFTC Commitments: Comex Silver Futures/Options
Dow Jones	Capital Markets	88107	CFTC Commitments: Comex Gold Futures/Options
Dow Jones	Capital Markets	8818	U.S. WEST COAST PADD 5 CRUDE OIL MARKET
Dow Jones	Capital Markets	8819	U.S. Crude Oil
Dow Jones	Capital Markets	8821	API: U.S. Summary
Dow Jones	Capital Markets	8822	API: U.S. Refinery Operations
Dow Jones	Capital Markets	8823	API: U.S. Refinery Output-Current
Dow Jones	Capital Markets	8824	API: Stocks of Selected Products
Dow Jones	Capital Markets	8825	API: Crude Oil Domestic Production

Dow Jones	Capital Markets	8826	API: Location of Crude Oil Stocks
Dow Jones	Capital Markets	8827	API: Imports of Petroleum Products-Current
Dow Jones	Capital Markets	8828	API: Imports of Petroleum Products-Prior
Dow Jones	Capital Markets	8829	API: Revisions
Dow Jones	Capital Markets	8833	PI PADD V Summary
Dow Jones	Capital Markets	8834	U.S. DOE Weekly Crude Products Stocks - Snapshot
Dow Jones	Capital Markets	8835	Recap-API Weekly Statistical Bulletin
Dow Jones	Capital Markets	8837	API: Flash Page
Dow Jones	Capital Markets	8838	API Stats-PADD I-V Flashpage
Dow Jones	Capital Markets	8841	U.S. DOE: Stocks/Demand
Dow Jones	Capital Markets	8842	U.S. DOE Weekly Crude Products Stocks-Snapshot
Dow Jones	Capital Markets	8843	U.S. DOE: Production
Dow Jones	Capital Markets	8844	U.S. DOE: Inventories
Dow Jones	Capital Markets	8845	US Oil Products
Dow Jones	Capital Markets	8846	U.S. DOE Oil Data: Demand and 4-Week Averages

Dow Jones	Capital Markets	88713	CFTC Commitments: NYCE FCOJ Futures/Options
Dow Jones	Capital Markets	88718	CFTC Commitments: CSCE Cocoa Futures/Options
Dow Jones	Capital Markets	88719	CFTC Commitments: CSCE Coffee Futures/Options
Dow Jones	Capital Markets	88720	CFTC Commitments: CSCE Sugar 11 Futures/Options
Dow Jones	Capital Markets	88732	CSCE: Sugar 14 Notices Posted
Dow Jones	Capital Markets	88748	CFTC Commitments: NYCE Cotton Futures/Options
Dow Jones	Capital Markets	8876	U.S. West Coast Light Product Prices
Dow Jones	Capital Markets	8879	NYH and USG Heating Oil & Jet Fuel Prices
Dow Jones	Capital Markets	8880	NY Harbor and USG Gasoline Cash Prices
Dow Jones	Capital Markets	88818	CFTC Commitments: Nymex Unleaded Gasoline Fut/Opts
Dow Jones	Capital Markets	8886	North Sea Spot Crude Oil Prices
Dow Jones	Capital Markets	88870	CFTC Commitments: Nymex Platinum/Palladium Fut/Opts
Dow Jones	Capital Markets	88877	CFTC Commitments: Nymex PJM Electricity Fut/Opts
Dow Jones	Capital Markets	88880	CFTC Commitments: Nymex Heating Oil Futures/Options
Dow Jones	Capital Markets	88881	CFTC Commitments: Nymex Crude Oil Futures/Options

Dow Jones	Capital Markets	88883	CFTC Commitments: Nymex Natural Gas Futures/Options
Dow Jones	Capital Markets	88885	CFTC Commitments: Nymex Swaps Futures/Options
Dow Jones	Capital Markets	88887	CFTC Commitments: Nymex LBMP Swap Futures/Options
Dow Jones	Capital Markets	8890	Mediterranean Basin Spot Crude Prices
Dow Jones	Capital Markets	88900	CFTC Commitments: CBOT Wheat Futures/Options
Dow Jones	Capital Markets	88903	CFTC Commitments: CBOT Corn Futures/Options
Dow Jones	Capital Markets	88904	CFTC Commitments: CBOT Soybean Futures/Options
Dow Jones	Capital Markets	88905	CFTC Commitments: CBOT Soyoil Futures/Options
Dow Jones	Capital Markets	88906	CFTC Commitments: CBOT Soymeal Futures/Options
Dow Jones	Capital Markets	88907	CFTC Commitments: CBOT Oats Futures/Options
Dow Jones	Capital Markets	88908	CFTC Commitments: CBOT Rough Rice Futures/Options
Dow Jones	Capital Markets	8891	Brent Cash Prices - Dated, 15-Day & Spreads
Dow Jones	Capital Markets	88926	CFTC Commitments: CME Lumber Futures/Options
Dow Jones	Capital Markets	88957	CFTC Commitments: NYCE US Dlr Futures/Options
Dow Jones	Capital Markets	88962	CFTC Commitments: CME Live Cattle Futures/Options

Dow Jones	Capital Markets	88963	CFTC Commitments: CME Feeder Cattle Futures/Options
Dow Jones	Capital Markets	88965	CFTC Commitments: CME Lean Hog Futures/Options
Dow Jones	Capital Markets	8899	Russian Gasoil/NW European Diesel & Heating Oil Prices
Dow Jones	Capital Markets	89237	YTD US Cattle/Hog Imports From Canada
Dow Jones	Capital Markets	89273	Shanghai Futures Exchange Rubber Stocks
Dow Jones	Capital Markets	90805	German Content
Dow Jones	Capital Markets	90806	DJG Europe Newsletter stories for Internet usage closed section
Dow Jones	Capital Markets	90807	DJG Europe Newsletter stories for Internet usage open
Dow Jones	Capital Markets	90809	Bond news on the Italian language service
Dow Jones	Capital Markets	92001	Interbank Dollar Spot And Forward Exchange Rates
Dow Jones	Capital Markets	92003	National Bank Of Poland Zloty Exchange Rates
Dow Jones	Capital Markets	92006	Late Spot Sterling Rates at London
Dow Jones	Capital Markets	92013	European Central Bank Euro Exchange Rate Indicators
Dow Jones	Capital Markets	940	IPE Crude Oil Futures Prices
Dow Jones	Capital Markets	944	IPE Natural Gas Futures Prices

Dow Jones	Capital Markets	949	IPE Gasoil Futures Prices
Dow Jones	Special	CADAY	Top Canadian Stories
Dow Jones	Special	CFDAY	Dow Jones Corporate Filings Alert Top Stories
Dow Jones	Special	CODES	Dow Jones Category Codes
Dow Jones	Special	DJDAY	Essential Stock Market Information
Dow Jones	Special	DJHOW	Test Message
Dow Jones	Special	PAPERS	Local Newspapers
Dow Jones	Special	TEST	Test Message
Dow Jones	Special	UKDAY	Top UK Stories
dpa-AFX	Märkte	AAG	Presseschau(ata glance)
dpa-AFX	Märkte	ANL	Analysen
dpa-AFX	Märkte	BND	Bonds/Anleihen
dpa-AFX	Märkte	BRO	BrokerageNews(nurdpa-AFXProFeed)
dpa-AFX	Märkte	CLO	Markt-Schlussbericht
dpa-AFX	Märkte	COM	Rohstoffe
dpa-AFX	Märkte	CRU	Öl
dpa-AFX	Märkte	DIR	Aktiengeschäfte von Managern
dpa-AFX	Märkte	DRV	Derivate
dpa-AFX	Märkte	FOC	Korrespondentenbericht
dpa-AFX	Märkte	FRX	Währungen
dpa-AFX	Märkte	FUT	Futures

dpa-AFX	Märkte	GLD	Gold&Edelmetalle
dpa-AFX	Märkte	ITW	Exklusiv-Interviews
dpa-AFX	Märkte	JMK	JuniorMärkte:z.B.Deutschland TecDAX, USA NASDAQ
dpa-AFX	Märkte	MUT	Fondsberichterstattung
dpa-AFX	Märkte	OPE	Markteröffnungsbericht
dpa-AFX	Märkte	OUT	Ausblick
dpa-AFX	Märkte	RND	Zusammenfassung
dpa-AFX	Märkte	STD	Standardwerte(z.B.Deutschland Dax, MDax, USA Dow, S&P500, Europa Euro Stoxx 50, Stoxx
dpa-AFX	Märkte	STB	Aktienempfehlungen
dpa-AFX	Märkte	STK	Aktienmarktbericht
dpa-AFX	Märkte	TAN	TechnischeAnalyse
dpa-AFX	Unternehmen	AGM	Hauptversammlungen
dpa-AFX	Unternehmen	BNK	Konkurse,Konkursverwaltung.Liquidationen
dpa-AFX	Unternehmen	BOA	Aufsichtsrat
dpa-AFX	Unternehmen	DIV	Dividendenankündigungen
dpa-AFX	Unternehmen	ERN	Gewinne,Gewinnprognosen
dpa-AFX	Unternehmen	EUC	EUCommission
dpa-AFX	Unternehmen	EUR	EuropäischeUnion
dpa-AFX	Unternehmen	FNG	Finanzierungen,Investitionen,inklusiveAktien-undAnleihen-Emissionen,Splits,Aktienrückkauf,Kap
dpa-AFX	Unternehmen	GEN	Umorganisation,Namensänderungen,Bekanntmachungen
dpa-AFX	Unternehmen	IPO	Neuemissionen

dpa-AFX	Unternehmen	JNV	JointVentures,Kooperationen,Marketing-Kooperationen,Lizenzabkommen
dpa-AFX	Unternehmen	LAB	Streik,Entlassungen,Löhne
dpa-AFX	Unternehmen	LAT	MeldungenzuLateinamerika
dpa-AFX	Unternehmen	MGT	VeränderungeninderUnternehmensführung
dpa-AFX	Unternehmen	MNA	Fusionen,Übernahmen,Spinoffs,LeveragedBuyouts,ManagementBuyouts,Privatisierungen
dpa-AFX	Unternehmen	ORD	Auftragseingänge,größereVerträge
dpa-AFX	Unternehmen	OTS	OriginalTextService(OriginalmitteilungenvonUnternehmen)
dpa-AFX	Unternehmen	PRD	Produktions-undUmsatzstatistiken,Preisänderungen,neueFertigungsanlagen,neueProdukteundD
dpa-AFX	Unternehmen	REG	Aufsichtsbehörden,EUundnationaleWettbewerbsbehörden,Umweltbehörden,Patentrecht,Gericht
dpa-AFX	Unternehmen	RTG	Bonitätseinstufungen
dpa-AFX	Unternehmen	STW	AktieimFokus(HotStock)
dpa-AFX	Unternehmen	SHA	Shareholder
dpa-AFX	Unternehmen	TEC	Technologiewerte
dpa-AFX	Konjunktur	ECO	volkswirtschaftlicheBerichte
dpa-AFX	Konjunktur	IND	Indikatoren
dpa-AFX	Konjunktur	MON	Geldpolitik,Leitzinsen
dpa-AFX	Konjunktur	FIS	Fiskalpolitik,Steuern,Haushalt
dpa-AFX	Konjunktur	TRA	Handelspolitik,WTO,APECetc.
dpa-AFX	Konjunktur	DBT	Auslandsschulden,IMFetc.
dpa-AFX	Politik	CBK	Notenbanken

dpa-AFX	Politik	GOV	Ministerienetc.
dpa-AFX	Politik	ASE	ASEAN
dpa-AFX	Politik	POL	weitererepolitischeMeldungen
dpa-AFX	Länder	AFG	Afghanistan
dpa-AFX	Länder	AFR	Africa (exc. Egypt)
dpa-AFX	Länder	ALB	Albania
dpa-AFX	Länder	ARG	Argentina
dpa-AFX	Länder	ASI	Asia
dpa-AFX	Länder	AST	Australia
dpa-AFX	Länder	AUS	Austria
dpa-AFX	Länder	BAL	Baltic States
dpa-AFX	Länder	BAN	Bangladesh
dpa-AFX	Länder	BEL	Belgium
dpa-AFX	Länder	BOL	Bolivia
dpa-AFX	Länder	BOS	Bosnia
dpa-AFX	Länder	BRA	Brazil
dpa-AFX	Länder	BRM	Burma
dpa-AFX	Länder	BRU	Brunei Darussalam
dpa-AFX	Länder	BUL	Bulgaria
dpa-AFX	Länder	CAN	Canada
dpa-AFX	Länder	CBA	Cambodia
dpa-AFX	Länder	CEN	Central America generally

dpa-AFX	Länder	CHI	China
dpa-AFX	Länder	CHL	Chile
dpa-AFX	Länder	CIS	Commonwealth of Indept. States
dpa-AFX	Länder	COL	Colombia
dpa-AFX	Länder	CRO	Croatia
dpa-AFX	Länder	CYP	Cyprus
dpa-AFX	Länder	CZE	Czech Republic
dpa-AFX	Länder	DEN	Denmark
dpa-AFX	Länder	ECU	Ecuador
dpa-AFX	Länder	EUE	Eastern Europe
dpa-AFX	Länder	FND	Finland
dpa-AFX	Länder	FRA	France
dpa-AFX	Länder	GBR	United Kingd.
dpa-AFX	Länder	GER	Germany
dpa-AFX	Länder	GRC	Greece
dpa-AFX	Länder	GUL	Gulf States
dpa-AFX	Länder	HKG	Hong Kong
dpa-AFX	Länder	HNG	Hungary
dpa-AFX	Länder	INA	India
dpa-AFX	Länder	INO	Indonesia
dpa-AFX	Länder	IRL	Ireland
dpa-AFX	Länder	ISL	Iceland

dpa-AFX	Länder	ITA	Italy
dpa-AFX	Länder	JPN	Japan
dpa-AFX	Länder	KOR	Korea(South)
dpa-AFX	Länder	LAO	Laos
dpa-AFX	Länder	LIC	Liechtenstein
dpa-AFX	Länder	LUX	Luxembourg
dpa-AFX	Länder	MAL	Malaysia
dpa-AFX	Länder	MEX	Mexico
dpa-AFX	Länder	MID	Middle East/(Egypt/Israel/ Syria/Jordan/ Lebanon)
dpa-AFX	Länder	MLT	Malta
dpa-AFX	Länder	MNG	Mongolia
dpa-AFX	Länder	NAF	North Africa (Morocco/Tunisia/Algeria)
dpa-AFX	Länder	NED	Netherlands
dpa-AFX	Länder	NKO	Korea(North)
dpa-AFX	Länder	NOR	Norway
dpa-AFX	Länder	NPL	Nepal
dpa-AFX	Länder	NZD	New Zealand
dpa-AFX	Länder	PAC	Other Pacific Countries
dpa-AFX	Länder	PAK	Pakistan
dpa-AFX	Länder	PAR	Paraguay
dpa-AFX	Länder	PHI	Philippines
dpa-AFX	Länder	PLD	Poland

dpa-AFX	Länder	POR	Portugal
dpa-AFX	Länder	ROM	Romania
dpa-AFX	Länder	RUS	Russia
dpa-AFX	Länder	SAF	South Africa
dpa-AFX	Länder	SAM	South America
dpa-AFX	Länder	SIN	Singapore
dpa-AFX	Länder	SLK	Sri Lanka
dpa-AFX	Länder	SLO	Slovakia
dpa-AFX	Länder	SLV	Slovenia
dpa-AFX	Länder	SPA	Spain
dpa-AFX	Länder	SRB	Serbia
dpa-AFX	Länder	SWE	Sweden
dpa-AFX	Länder	SWI	Switzerland
dpa-AFX	Länder	THA	Thailand
dpa-AFX	Länder	TUR	Turkey
dpa-AFX	Länder	TWN	Taiwan
dpa-AFX	Länder	UKR	Ukraine
dpa-AFX	Länder	USA	United Stat.
dpa-AFX	Länder	URU	Uruguay
dpa-AFX	Länder	VEN	Venezuela
dpa-AFX	Länder	VIE	Vietnam
dpa-AFX	Allgemeines	CAL	Kalender,Terminvorschau

dpa-AFX	Allgemeines	NEW	allgemeinwichtigeNachricht
dpa-AFX	Allgemeines	SPO	Sport
dpa-AFX	Allgemeines	SUM	ZusammenfassungvonverschiedenenThemen(z.B.Nachricht enüberblick)
dpa-AFX	Industryn	AEG	Alternative Energien
dpa-AFX	Industryn	AIR	Airlines
dpa-AFX	Industryn	ASS	Lebensversicherer
dpa-AFX	Industryn	AUT	Automobil-/Zuliefererindustrie (Autos & LKW, Ersatzteile, Reifen)
dpa-AFX	Industryn	BAN	Banken
dpa-AFX	Industryn	BEV	Getränke (Bier, Wein, Destillieren, Soft Drinks)
dpa-AFX	Industryn	CHM	Chemie, Kunststoffe
dpa-AFX	Industryn	CMP	Computer, Hardware, Software, Halbleiter, Bauteile
dpa-AFX	Industryn	CON	Bau
dpa-AFX	Industryn	CSM	Verbrauchsgüter, Kosmetik, Seife, Handwerksbedarf, Möbel, Haushaltsgeräte, Unterhaltungsele
dpa-AFX	Industryn	DEF	Rüstungsindustrie, Flugzeughersteller
dpa-AFX	Industryn	ENG	Maschinenbau, Starkstrom, Umwelttechnik
dpa-AFX	Industryn	ELE	Elektronik, Elektrik, Komponenten
dpa-AFX	Industryn	ELU	Elektrizitätsversorger
dpa-AFX	Industryn	EQI	Beteiligungsgesellschaften
dpa-AFX	Industryn	EQN	Börsennotierte Fonds (ETF, etc.)
dpa-AFX	Industryn	FIN	Asset Management, Finanzdienstleister

dpa-AFX	Industryn	FOO	Nahrungsmittel (Hersteller, inkl. Agrarindustrie)
dpa-AFX	Industryn	HTH	Gesundheitswesen, Medizintechnik, Krankenhausbedarf
dpa-AFX	Industryn	HOU	Haushaltswaren, Möbel, Eigenheime
dpa-AFX	Industryn	INL	Mischkonzerne, Verpackungsindustrie
dpa-AFX	Industryn	INS	Sach- und Rückversicherungen
dpa-AFX	Industryn	LEI	Tourismus, Fluggesellschaften, Bahn (Personenverkehr)
dpa-AFX	Industryn	MET	Metallverarbeitung- und förderung, NE-Metalle
dpa-AFX	Industryn	MIN	Bergbau, Rohstoffförderung (Kohle, Diamanten, Gold, Platin, Edelmetalle)
dpa-AFX	Industryn	OIL	Öl, Ölexploration, Gas
dpa-AFX	Industryn	OES	Öl-Anlagenbau, Pipelines
dpa-AFX	Industryn	PAP	Papier, Zellulose, Holz
dpa-AFX	Industryn	PER	Bekleidung, Kosmetik
dpa-AFX	Industryn	PRO	Immobilien
dpa-AFX	Industryn	PHA	Pharma, Biotechnologie
dpa-AFX	Industryn	MED	Verlage, Rundfunk, Info-Dienste, Zeitungen, Bücher, Werbung
dpa-AFX	Industryn	MOB	Telefongesellschaften (Mobilfunk)
dpa-AFX	Industryn	REF	Lebensmittel- und Pharmahandel
dpa-AFX	Industryn	RET	Non-Food-Einzelhandel, Endkunden-Dienstleister
dpa-AFX	Industryn	RIT	REIT Meldungen
dpa-AFX	Industryn	SOF	Software, IT-Beratung, Internet, Portalbetreiber
dpa-AFX	Industryn	SVS	Unternehmensdienstleister

dpa-AFX	Industryn	TEL	Telefongesellschaften (Festnetz)
dpa-AFX	Industryn	TOB	Tabakindustrie
dpa-AFX	Industryn	TRN	Gütertransport, Logistik
dpa-AFX	Industryn	UTI	Versorger (Gas, Wasser etc.)
FTA	Branch	AFI	Analysis Italian futures
FTA	Branch	AFE	Analysis foreign futures
FTA	Branch	All	Analysis Italian indices
FTA	Branch	AIE	Analysis foreign indices
FTA	Branch	AFO	Analysis forex
FTA	Branch	TDI	Tables of Italian data
FTA	Branch	TDE	Tables of foreign data
FTA	Branch	API	Analysis Italian flash
FTA	Branch	APE	Analysis foreign flash
FTA	Branch	AFS	Analysis end trading
FTA	Branch	AVI	Italian analysis
FTA	Branch	AVE	Foreign analysis
Tijd	Category	Agenda	Agenda
Tijd	Category	Agenda. Week	Agenda.Week
Tijd	Category	Agreeme nts.Merg erAcquis ition	M&A

Tijd	Category	Announcements .EquityBond	Equity/Bond issues
Tijd	Category	Announcements .Press	Press
Tijd	Category	EuroBench:HomePage	EuroBench Home page-bericht
Tijd	Category	EuroBench:Stem	Eurobench STEM-bericht
Tijd	Category	EuroBench:Stem AEB	EuroBench St-AEB-bericht
Tijd	Category	Exchanges.Asia	Trends.Asia
Tijd	Category	Exchanges.Euronext.Amsterdam	Euronext Amsterdam (AEX)
Tijd	Category	Exchanges.Euronext.Brussels	Euronext Brussels
Tijd	Category	Exchanges.Euronext.Paris	Euronext Paris
Tijd	Category	Exchanges.Europe	Trends Europe
Tijd	Category	Exchanges.Frankfurt	Frankfurt
Tijd	Category	Exchanges.Introduction	IPO

Tijd	Category	Exchanges.London	London stock exchange
Tijd	Category	Exchanges.Tokyo	Tokyo Exchange
Tijd	Category	Exchanges.WallStreet	Wallstreet
Tijd	Category	Forecasts	Forecast, Outlook
Tijd	Category	General	General
Tijd	Category	General. Bonds	Bond news
Tijd	Category	General. Currency	Currency (valuta)
Tijd	Category	General. Economy	Macro-Economy
Tijd	Category	General. NewsFlash	NewsFlash
Tijd	Category	Meeting. Annual	Annual meeting
Tijd	Category	Miscellaneous.tbmtest	tbmtest
Tijd	Category	Nieuwslijn: Citibank	Bestemming voor Belgacom naar Citibank
Tijd	Category	Overview	Overview, summary

Tijd	Category	Overvie w.Closin g	Closing market report
Tijd	Category	Overvie w.Day	Overview (Day)
Tijd	Category	Overvie w.News Paper	NewsPaper
Tijd	Category	Overvie w.Openi ng	Opening market report
Tijd	Category	Overvie w.Week	Overview (Week)
Tijd	Category	Politics. Fiscal	Fiscal
Tijd	Category	Politics. Social	Politics & Social
Tijd	Category	Results	Results (general)
Tijd	Category	Results. Dividend	Dividends
Tijd	Category	Results. HalfYear	Half year results
Tijd	Category	Results. Quarterl y	Quarterly results
Tijd	Category	Sports	Sport
Tijd	Category	Statistic s	Statistics
Tijd	Category	Statistic s.AXA	Statistics.AXA
Tijd	Category	Statistic s.Bridge	Statistics.Bridge

Tijd	Category	Statistic s.BVB	Belgische Vereniging van Banken
Tijd	Category	Statistic s.CBS	Central Bureau of Statistics
Tijd	Category	Statistic s.DEX	Statistics.DEX
Tijd	Category	Statistic s.DNB	De Nederlandsche Bank
Tijd	Category	Statistic s.ECB	European Central Bank
Tijd	Category	Strategi es.Anali sts	Analists Advice
Tijd	Category	Strategi es.Fund amental Analysis	Fundamental Analysis
Tijd	Category	Strategi es.Gener al	General Advice
Tijd	Category	Strategi es.Mark etSignal s.Buy	Koopadvies
Tijd	Category	Strategi es.Mark etSignal s.Hold	Houden advies
Tijd	Category	Strategi es.Mark etSignal s.Sell	Verkoopadvies
Tijd	Category	Strategi es.Tech nicalAna lysis	Technical Analysis

Tijd	Category	Trends	Trends
Tijd	Category	Website s.Tijdnet	Tijdnet
Tijd	Category	World.A sia.Chin a.HongK ong	Hong Kong
Tijd	Category	World.A sia.Japa n	Japanese news
Tijd	Category	World.D omestic	'Binnenland'
Tijd	Category	World.E U	Europe
Tijd	Category	World.E U.Belgiu m	Belgium
Tijd	Category	World.E U.Franc e	France
Tijd	Category	World.E U.Germa ny	German news
Tijd	Category	World.E U.Italy	Italian news
Tijd	Category	World.E U.Nether lands	Netherlands
Tijd	Category	World.E U.UK	United Kingdom
Tijd	Category	World.Fo reign	Foreign

Tijd	Category	World.N orthAme rica.Can ada	Canada
Tijd	Category	World.N orthAme rica.US	United States
Tijd	Category	World.W esternEu rope.Swi tzerland	Switzerland
Tijd	Branch	News.Ae rospace	
Tijd	Branch	News.Ag riculture	
Tijd	Branch	News.Bi otechnol ogy	
Tijd	Branch	News.Ca ble	
Tijd	Branch	News.Ch emicals	
Tijd	Branch	News.Co mponen ts	
Tijd	Branch	News.Co nstructi on	
Tijd	Branch	News.Co nsumer Product s	
Tijd	Branch	News.El ectronic s	

Tijd	Branch	News.En ergy	
Tijd	Branch	News.En gineerin g	
Tijd	Branch	News.En tertainm ent	
Tijd	Branch	News.Fi nance	
Tijd	Branch	News.Fo od	
Tijd	Branch	News.H oreca	
Tijd	Branch	News.In dustries	
Tijd	Branch	News.Inf ormatio nTechno logy	
Tijd	Branch	News.Int ernet	
Tijd	Branch	News.In vestmen t	
Tijd	Branch	News.Lo gistics	
Tijd	Branch	News.M etals	
Tijd	Branch	News.N avigatio n	
Tijd	Branch	News.Pa per	

Tijd	Branch	News.Pharmacy	
Tijd	Branch	News.Publishers	
Tijd	Branch	News.RealEstate	
Tijd	Branch	News.Retail	
Tijd	Branch	News.Semiconductors	
Tijd	Branch	News.Services	
Tijd	Branch	News.Software	
Tijd	Branch	News.Sport	
Tijd	Branch	News.Telecommunications	
Tijd	Branch	News.Temporary Employment	
Tijd	Branch	News.Textiles	
Tijd	Branch	News.Trade	
Tijd	Branch	News.Transport	

Settings in the "News Search" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

Here, you can make the following settings:

- Enable or disable the push data feed
 - Show or hide the columns of the news display
- For more information, see [Show and hide columns of the widgets via the settings](#)

For more information about working with widgets, see [Commands in the widget menu](#).

5.40 Fair Value Calculator (Option)

The "Fair Value Calculator (Option)" calculates option prices according to the Black Scholes method.

ID	TIME	PAID	BID	ASK	OPEN	HIGH	LOW	CLOSE	TURNOVER
846900	10:53:36	15,553.90	0.00	0.00	15,530.20	15,586.50	15,509.09	15,520.17	501 m
846949	05/04/2023	5,842.80	0.00	0.00	0.00	0.00	0.00	5,842.80	–

UNDERLYING ASSET		OPTION		CALCULATED FAIR VALUE	
MARKET VALUE IN PKT. 15,553.90		TYPE CALL		VALUE DATE 06/04/2023	
		VOLATILITY IN % 43.18		EXPIRATION DATE 20/12/2024	
		STRIKE PRICE IN PKT. 10,600.00		RISK-FREE RATE IN % 3.73	
		RESET		CALCULATE	
				15,535.71876 Pkt.	
				Delta: 100.00 %	
				Gamma: 0.00 %	
				Vega: 0.00	
				Theta: -67.72511	
				Rho: 31.08244	

PRODUCT VALUE SCENARIOS
For each column, the options for different exchange rates are calculated.

	10,110.04	10,887.73	11,665.43	12,443.12	13,220.82	13,998.51	14,776.21	15,553.90	16,331.60	17,109.29	17,886.99	18,664.68	19,442.38	20,220.07	20,997.77
Market value	10,110.04	10,887.73	11,665.43	12,443.12	13,220.82	13,998.51	14,776.21	15,553.90	16,331.60	17,109.29	17,886.99	18,664.68	19,442.38	20,220.07	20,997.77
Volatility	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18	43.18
Option value	10,091.85	10,869.55	11,647.24	12,424.94	13,202.63	13,980.33	14,758.02	15,535.72	16,313.41	17,091.11	17,868.80	18,646.50	19,424.19	20,201.89	20,979.58

	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
Delta	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
Gamma	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
Vega	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251	-67.7251
Theta	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rho	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824	31.0824

In the "Fair Value Calculator (Option)" widget, first select an option at the top using the integrated quick search. Once you have selected an option, you can select the trading venue via the drop-down list that is now visible to the right of it.

Below that, you see the following data for the underlying (first row) of the option and the corresponding option itself:

- ID
- Time
- Paid
- Bid
- Ask
- Open
- High
- Low
- Close
- Turnover

See also:

- ["Underlying" category in the "Fair Value Calculator \(Option\)"](#)
- ["Option" area in the "Fair Value Calculator \(Option\)"](#)
- ["Calculated fair value" area in the "Fair Value Calculator \(Option\)"](#)
- ["Product value scenarios" area in the "Fair Value Calculator \(Option\)"](#)

5.40.1 "Underlying" category in the "Fair Value Calculator (Option)"

In the "Underlying" category, you see the currently selected underlying with the current price.

To calculate the scenarios for alternative prices of the underlying, enter the corresponding price and click the "Calculate" button to start the analysis.

The calculated results for the current option are shown in the "Product value scenarios" area.

5.40.2 "Option" area in the "Fair Value Calculator (Option)"

In the "Option" area, you can enter the following data for the option selected:

Field	Description
Type	Select if you want to calculate a call or put option.
Volatility in %	Enter the volatility in percent for the product value scenario that you want to calculate.
Strike price in currency	Enter the strike price in percent for the scenario.
Value date	Use the integrated calendar in this field to select the value date for the scenario.
Expiration date	Use the integrated calendar to select the expiration date of the option for the scenario.
Risk-free interest rate %	Enter the risk-free interest rate in percent for the scenario.

Field	Description
"Calculate" button	After setting the parameters and specifying the underlying, click this button to start the calculation.

5.40.3 "Calculated fair value" area in the "Fair Value Calculator (Option)"

In the "Calculated fair value" area, you see the following calculated results:

Field	Description
Calculated fair value	The fair value of the option according to Black/Scholes for the currently specified parameter.
Delta	The calculated delta of the option for the currently specified parameter.
Gamma	The calculated gamma of the option for the currently specified parameter.
Vega	The calculated vega of the option for the currently specified parameter.
Theta	The calculated theta of the option for the currently specified parameter.
Rho	The calculated rho of the option for the currently specified parameter.

For more information about this indicator, see the [Stock Exchange Glossary](#) (in German only⁹).

5.40.4 "Product value scenarios" area in the "Fair Value Calculator (Option)"

In the "Product value scenarios" area, the following values are calculated on the basis of the parameters for various scenarios of the underlying performance:

Field	Description
Market value	In this row, you see various possible prices of the underlying. The option data is calculated for each price shown in the top row.
Volatility	The volatility of the option in percent for the corresponding price and the currently set parameters.
Option value	The fair value of the option for the corresponding price according to Black/Scholes for the currently specified parameter.

Field	Description
Delta	The delta of the option for the corresponding price and the currently specified parameters.
Gamma	The gamma of the option for the corresponding price and the currently specified parameter.
Vega	The vega of the option for the corresponding price and the currently specified parameter.
Theta	The theta of the option for the corresponding price and the currently specified parameters.
Rho	The rho of the option for the corresponding price and the currently specified parameter.

For more information about this indicator, see the [Stock Exchange Glossary](#) (in German only).

5.41 Exchange Calendar

The "Exchange Calendar" widget provides an overview of the most important upcoming events. The calendar uses data from Convensys.

If you don't select a security, then all dates existing in the period are listed. Use the upper drop-down list to select a security and thus filter the calendar for the corresponding events.

EXCHANGE CALENDAR

YEAR TO DATE

FROM: 1/1/23 TO: 12/31/23

EVENT TYPE

SELECT EVENT TYPE

DATE	COMPANY	TYPE	ISIN
Jan 2, 2023	ADARO ENERGY IND. RP 100	Dividende Ex-Tag	ID1000111305
Jan 3, 2023	AECOM DL -,01	Dividende Ex-Tag	US00766T1007
Jan 3, 2023	Azeus	Dividende Ex-Tag	BMG075391109
Jan 3, 2023	BK NOVA SCOTIA	Dividende Ex-Tag	CA0641491075
Jan 3, 2023	BIORA THERAPEUT.NEW -,001	Kapitalmaßnahme (1:25)	US74319F3055
Jan 3, 2023	BONDUELLE INH. EO 7	Dividende Ex-Tag	FR0000063935
Jan 3, 2023	CARCETTI CAP CORP.	Dividende Ex-Tag	CA1413851041
Jan 3, 2023	CIE AUTOMOTIVE INH.EO-,25	Dividende Ex-Tag	ES0105630315
Jan 3, 2023	CIRCA ENTERPRISES INC.	Dividende Ex-Tag	CA17253G1028
Jan 3, 2023	COUSINS PTIES INC. DL 1	Dividende Ex-Tag	US2227955026
Jan 3, 2023	DICKSON CONCEPTS HD-,30	Dividende Ex-Tag	BMG275871231
Jan 3, 2023	E COMMODITIES HOLDINGS	Dividende Ex-Tag	US0000000000

1

2


3

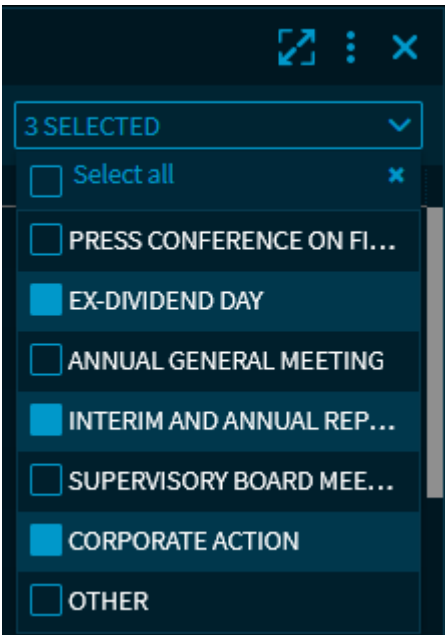
4

5

The following data and functions are available in the "Exchange Calendar" widget:

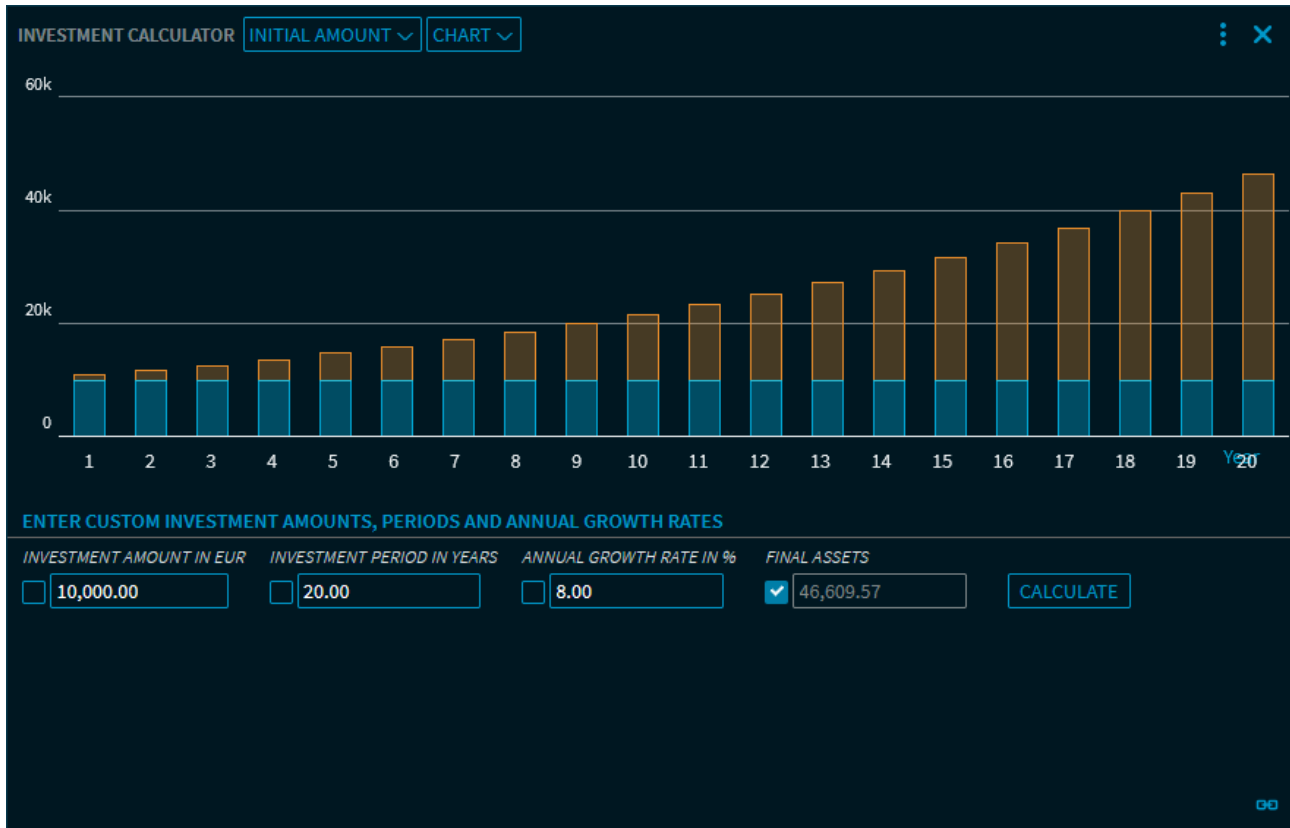
5.41.1 Underlying details

Element	Description
"Security" selection	<p>In the upper area of the widget, you find the security selection drop-down list. When you select a security by using the quick search, only the dates for this security are shown.</p> <div>  <p>If you have already selected a security, you can clear the "Company" checkbox visible when selecting the security to return to the complete list. When you select the "Company" checkbox again, the list is filtered by the corresponding share.</p> </div>
"Period" drop-down list	<p>In the "Period" drop-down list, there are various periods of time available for quick selection:</p> <ul style="list-style-type: none"> • Current year (default setting) • Current month • Current week • Today • Tomorrow • Next 7 days • Next 30 days • Next 12 months • Next year (01.01.-31.12. of next year)
Date from	<p>Use the integrated calendar to select a custom start date.</p> <p>The current date is set by default.</p>
Date to	<p>Use the integrated calendar to select the corresponding custom end date.</p> <p>The default setting is the current date plus 3 months.</p>


Element	Description
Event type	<p>Select this checkbox to filter the dates by certain types of events. The following event types are available for selection from the drop-down list:</p> <ul style="list-style-type: none"> • Press conference on financial statements and analyst conference • Dividend • Annual conference • Interim and annual reports • Supervisory board meeting • Corporate action • Other <p>You can also select several or all event types.</p> 
Company	<p>The checkbox appears only if the security is selected.</p> <p>Clear the checkbox to switch to the complete list. When you select the "Company" checkbox again, the list is filtered by the security selected.</p>
"Date" column	The date of the event.
"Company" column	The company (security) of this event.
"Type" column	The event type, for example, "Ex-dividend date" or "Annual general meeting".
"ISIN" column	The ISIN of the security (in the "Company" column).

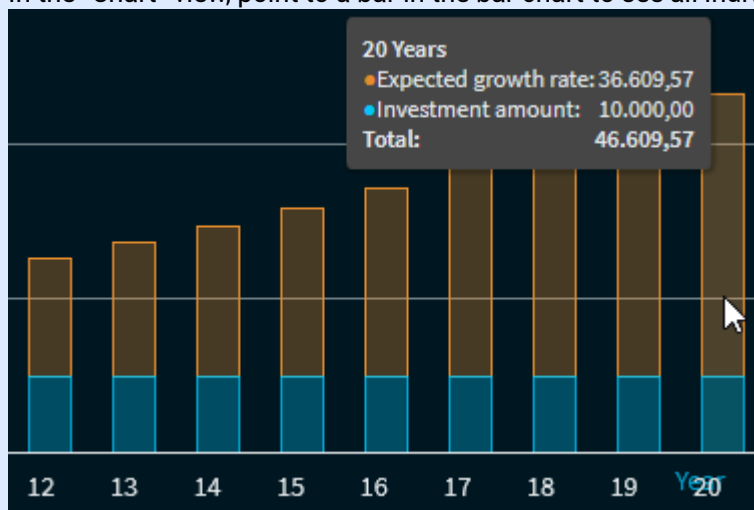
5.42 Investment Calculator

With the "Investment Calculator" widget, you can simulate any scenario. The widget offers various calculation methods for a given investment amount: One-time investment, savings plan, withdrawal with capital consumption or one-time investment fund.



In the upper part of the "Investment Calculator" widget, select the corresponding scenario and choose between a chart or table display, and then enter your data below. Select the value that you want to calculate. The figure shows the calculation of the final assets. Click the "Calculate" button to start the calculation.

 In the "Chart" view, point to a bar in the bar chart to see all individual values in a tooltip.



See also:

- [Initial amount](#)
- [Savings plan](#)
- [Withdrawal with capital consumption](#)
- [Fund initial amount](#)

5.42.1 Initial amount

In the upper part of the "Investment Calculator" widget, select the corresponding "Lump sum investment" scenario and choose between a chart or table display, and then enter your data below. Select the value that you want to calculate.

INVESTMENT CALCULATOR
INITIAL AMOUNT
TABLE

YEAR	EXPECTED GROWTH RATE	FINAL ASSETS
1	800.00	10,800.00
2	1,664.00	11,664.00
3	2,597.12	12,597.12
4	3,604.89	13,604.89
5	4,693.28	14,693.28
6	5,868.74	15,868.74
7	7,138.24	17,138.24
8	8,509.30	18,509.30
9	9,990.05	19,990.05
10	11,589.25	21,589.25

ENTER CUSTOM INVESTMENT AMOUNTS, PERIODS AND ANNUAL GROWTH RATES

INVESTMENT AMOUNT IN EUR	INVESTMENT PERIOD IN YEARS	ANNUAL GROWTH RATE IN %	FINAL ASSETS	
<input type="checkbox"/> 10,000.00	<input type="checkbox"/> 20.00	<input type="checkbox"/> 8.00	<input checked="" type="checkbox"/> 46,609.57	CALCULATE

In the "Lump sum investment" scenario, you can specify the following data:

- Investment amount in euro
- Investment period in years
- Annual growth rate in %
- Final assets

Click the "Calculate" button to start the calculation of the lump sum investment.

In the chart or table, you see the final assets and growth rate for each year.

5.42.2 Savings plan

In the upper part of the "Investment Calculator" widget, select the corresponding "Savings plan" scenario and choose between a chart or table display, and then enter your data below. Select the value that you want to calculate.



In the "Savings plan" scenario, you can specify the following data:

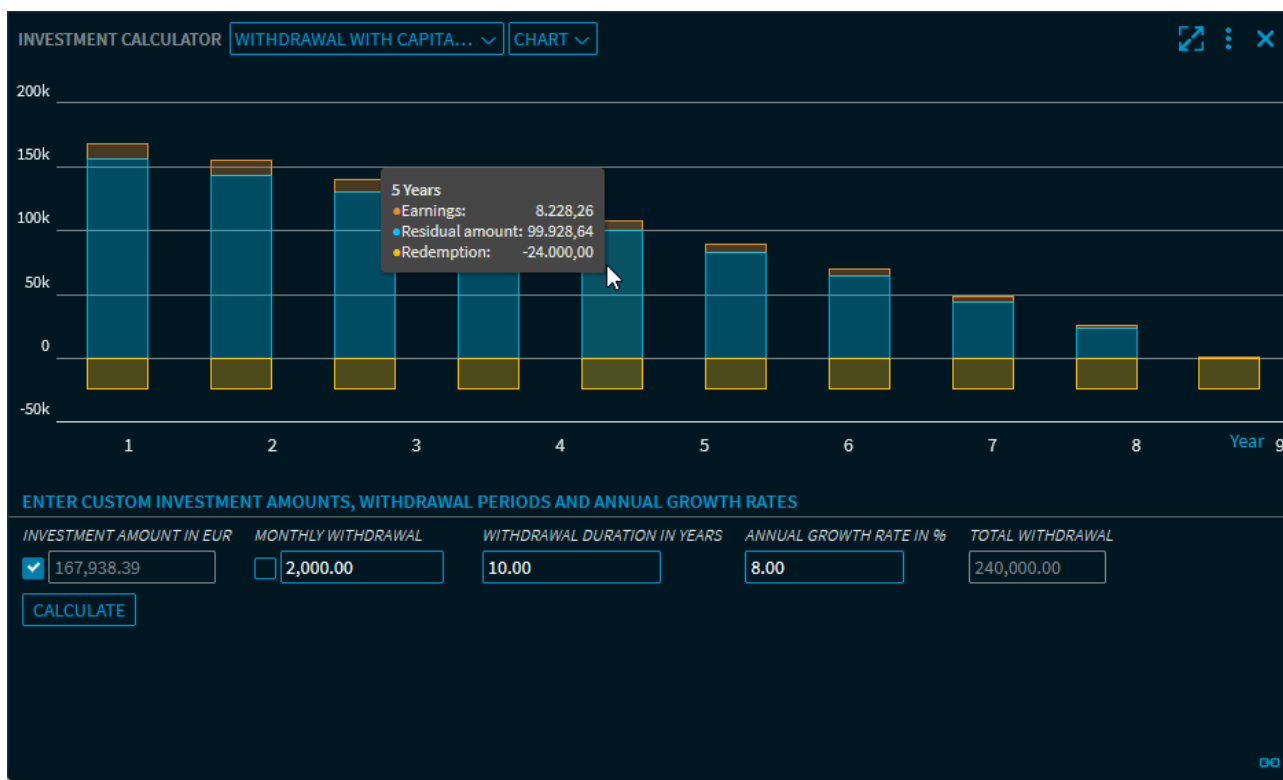
- Investment amount in euros
The value "0.00" also makes sense here, as classic savings plans can usually be invested without a one-off amount.
- Annual growth rate in %
- Monthly savings amount
- Investment period in years
- Final assets

Click the "Calculate" button to start the calculation of the savings plan.

In the chart or table, you see the growth rate, savings amount or residual amount and final assets for each year.

5.42.3 Withdrawal with capital consumption

In the upper part of the "Investment Calculator" widget, select the corresponding "Withdrawal with capital consumption" scenario and choose between a chart or table display, and then enter your data below. Select the value that you want to calculate.



In the "Withdrawal with capital consumption" scenario, you can specify the following data:

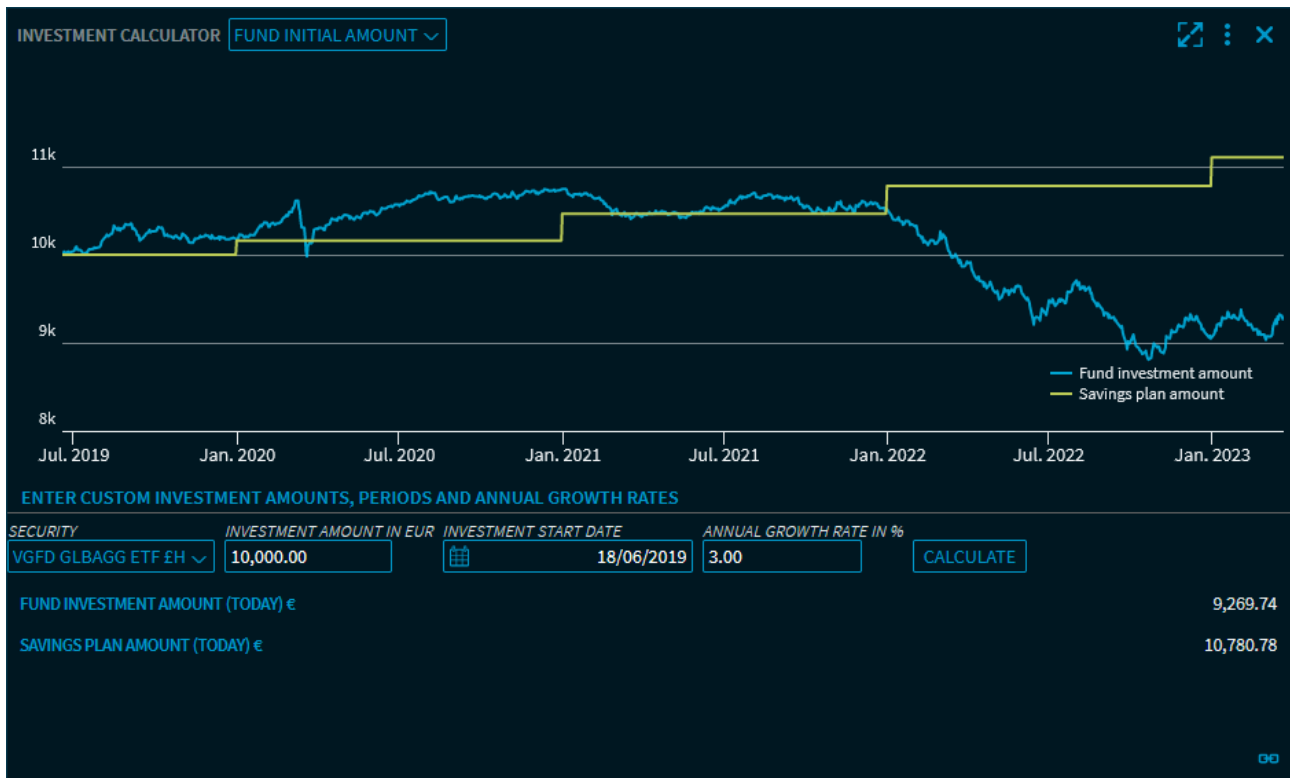
- Investment amount in euro
- Monthly withdrawal
- Withdrawal duration in years
- Annual growth rate in %
- Final assets

Click the "Calculate" button to start the calculation of the withdrawal plan.

In the chart or table, you see the yield, redemption and residual amount for each year.

5.42.4 Fund initial amount

In the "Investment Calculator" widget at the top, select the "Fund initial amount" scenario and then select the fund or ETF at the bottom in the first "Security" drop-down list using the integrated quick search. Enter your data here. The calculation in this scenario allows you to analyse a lump sum investment in an ETF/fund based on the historical fund performance. This is compared against a lump sum investment with a fixed interest rate.



In the "Fund initial amount" scenario, you can specify the following data:

- Security (limited to ETFs and funds)
- Investment amount in euro (10,000 euro is set by default)
- Start date of the investment (after selecting a fund and its date of inception)
You can change this start date using the integrated calendar or by directly entering a date.
- Annual growth rate in % (3% is set by default)

Click the "Calculate" button to start the calculation of the lump sum investment. The following values are calculated and shown in the results:

- Current value of the fund investment in euro
- Current value of the savings plan

In the chart, you see the performance of the fund investment and savings plan over time.

5.43 Fund Data



At the top of the "Fund Data" widget, use the integrated quick search to select the desired fund.

With the corresponding activation, the widget "Fund data" with the following views for the analysis of funds is available to you:

- Basic information
- Other master data
- Investment strategy
- Prices
- Dates
- Ratings
- Risk assessment
- Risk performance chart
- Costs
- Breakdowns (various, depending on fund type):
 - Breakdown - Currency
 - Breakdown - Geographical
 - Breakdown - Industry
 - Breakdown - Participations
 - Breakdown - Type
 - Breakdown - Duration
 - Breakdown - Rating
 - Breakdown - Bonds
 - Breakdown - Issuer
- Performance
- Annualised returns
- Classifications
- Share classes



You can select between these views at any time by using the drop-down lists at the top left of each subwindow.

5.43.1 Basic information

BASIC INFORMATION ▾	
Name	UniGlobal
ISIN	DE0008491051
WKN	849105
Issuer	Union Investment Privatfonds GmbH
Umbrella	UniGlobal
EFCF Category	Equity Global
Distribution type	Distributing
Currency	EUR
Quote frequency	daily
Base currency	EUR
Investment horizon	> 6 years
Countries of registration	DE,AT,LU,CH,IT

5.43.2 Other master data


OTHER BASIC INFORMATI... ▾	
Benchmark	MSCI WORLD NR USD
Fund of funds	No
Index Fund	No
Hedge Fund	No
ETF	No
Share class currency	EUR
Institutional fund	Retail
Country	Germany
Fund Manager	Bernd Schröder
Savings Plan	Yes
Depot Manager	DZ Bank AG

Real time | Update: 24 Nov 2023, 18:23:00



5.43.3 Investment strategy

FUND STRATEGY ▾



The investment policy aims at generating long-term capital growth in addition to achieving returns in line with the market. The Fund is a UCITS fund managed as an equity fund. The Fund is suitable for risk-tolerant investors who want to make use of the opportunity to invest in domestic and foreign equities, and who are willing to accept an increased level of risk in the meantime. Depending on the extent of the possible fluctuations, the investor may have to accept capital losses when redeeming units. The Fund is not suitable for investors who are not willing to accept an increased level of risk in the meantime.




You can use the "Copy to clipboard" icon to copy the text in the "Investment strategy" view and paste it into other applications, for example.

5.43.4 Prices

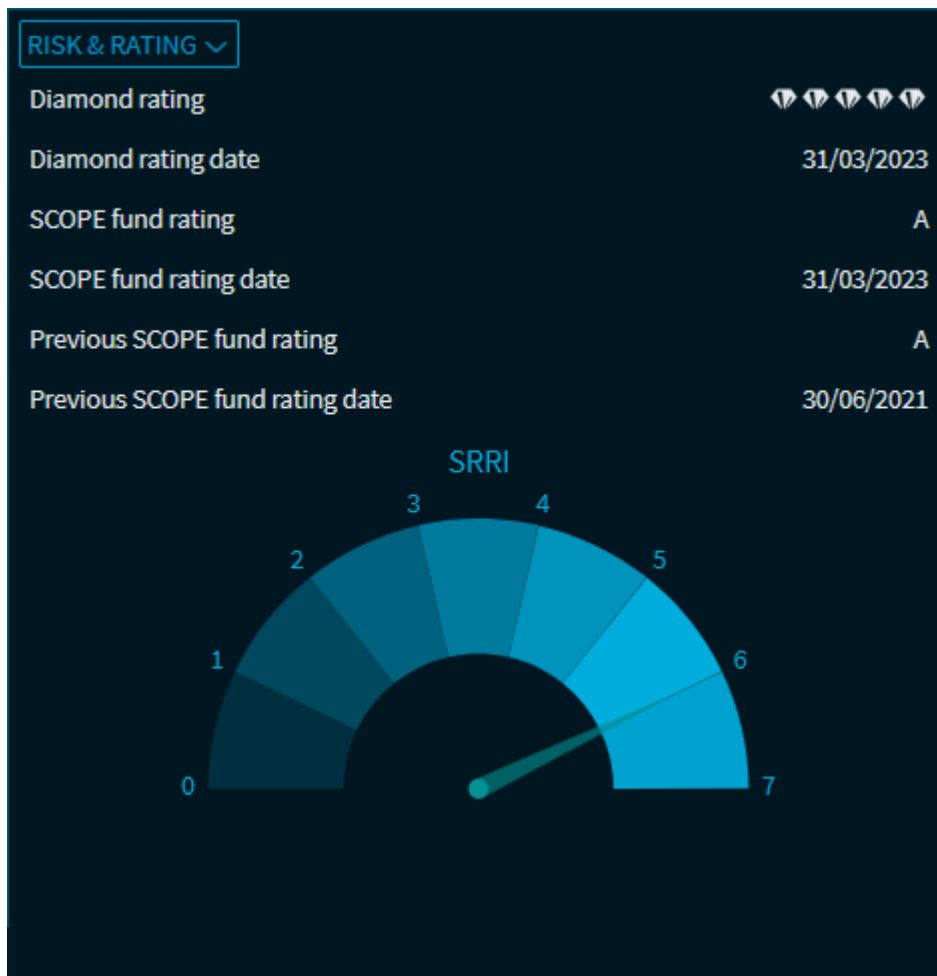
PRICES ▾	
Redemption / Issue	321.46 / 337.53
NAV	321.46
52-week High/Low	348.48 / 298.77
YTD High/Low	331.83 / 310.18
All-time High/Low	364.93 / 27.84
Fund size	10.97 bn
Fund size currency	EUR
Fund size date	28/04/2023
Fund volume	11.64 bn
Fund volume ccy.	EUR
Fund volume date	28/04/2023

5.43.5 Dates

DATES ▾	
Oldest share class date	02/01/1960
Main tranche	Yes
Inception date fund	02/01/1960
Closing book year	01/10/2024

Real time | Update: 24 Nov 2023, 18:23:00 

5.43.6 Ratings



5.43.7 Risk assessment

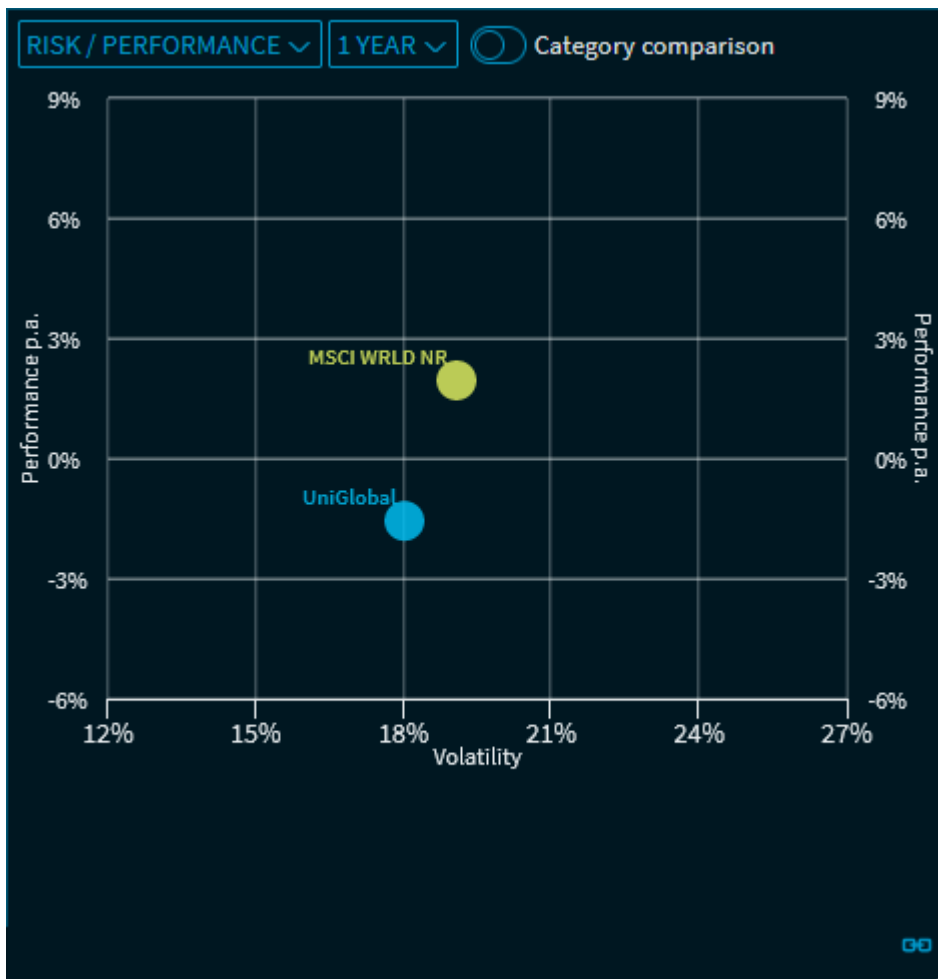
RISK (STATISTICS) ▾		1 YEAR ▾	OTHER BASIC INFORMAT... ▾	
Alpha (1 year)	-0.053		Benchmark	MSCI WORLD NR USD
Beta (1 year)	0.71004		Fund of funds	No
Tracking error (1 year)	9.13007 %		Index Fund	No
Sharpe ratio (1 year)	0.00613		Hedge Fund	No
Information ratio (1 year)	-1.32343		ETF	No
Volatility (1 year)	14.88 %		Share class currency	EUR
Treynor ratio (1 year)	-0.04411		Institutional fund	Retail
Sterling ratio (1 year)	0.0346			
Max. loss (1 year)	-12.116 %			
Longest losing period (months)	3			
Outperf. probability (3 years)	58.333			
Pos. regression	0.79051			
Neg. regression	0.73107			
Real time Update: 25 Aug 2023, 17:03:18				



You can select the following periods for the calculation by using the drop-down list in the "Risk (Statistics)" view:

- 1 year (default setting)
- 3 years
- 5 years

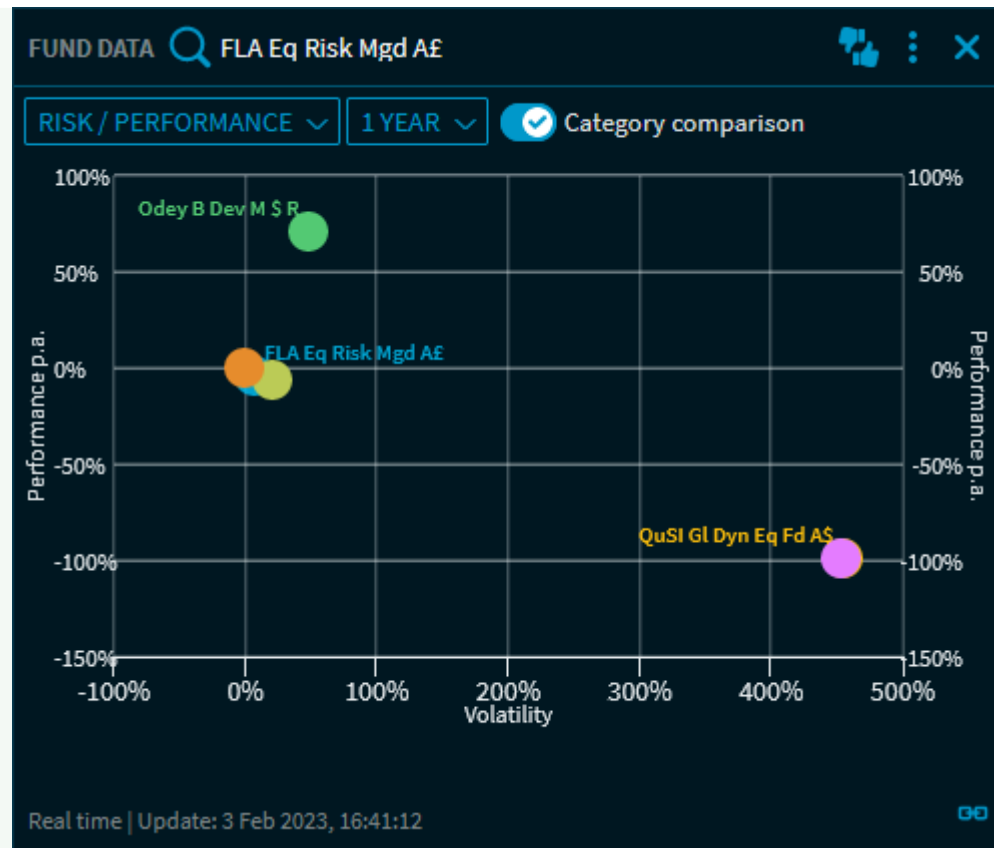
5.43.8 Risk performance chart



You can select the following periods for the calculation by using the drop-down list in the "Risk / Performance" view:

- 1 year (default setting)
- 3 years
- 5 years

Drag the "Category comparison" button to the right to display the funds with the highest and lowest volatility and performance values in the category:



5.43.9 Costs

COST ▾	
Ongoing charges	1.45 %
Ongoing charges dates	30/09/2022
Entry fee	5.00 %
Management fee	1.20 %
Custodian fee	0.05 %
Performance fee	0.00 %
Real time Update: 3 May 2023, 12:17:10	

Fields for which no data is available for the currently selected fund are hidden. Possible costs:

- Instrument with fair value
- Ongoing charges
- Ongoing charges dates
- Front-end load
- Exit fee
- Management fee
- Securities account fee
- Changing fee
- Performance fee

5.43.10 Fund Structure

BREAKDOWN - PARTICIPATI... ▾	
APPLE INC.	5.94%
MICROSOFT CORPORATION	4.86%
NVIDIA CORPORATION	2.73%
JPMORGAN CHASE & CO.	2.73%
LINDE PLC.	2.66%
ALPHABET INC.	2.11%
MCDONALD'S CORPORATION	2.01%
ASML HOLDING NV	1.84%
META PLATFORMS INC.	1.74%
SHELL PLC.	1.72%
REST	71.66%

Real time | Update: 3 May 2023, 12:17:10

For example, depending on the fund type, you can display the following breakdowns:

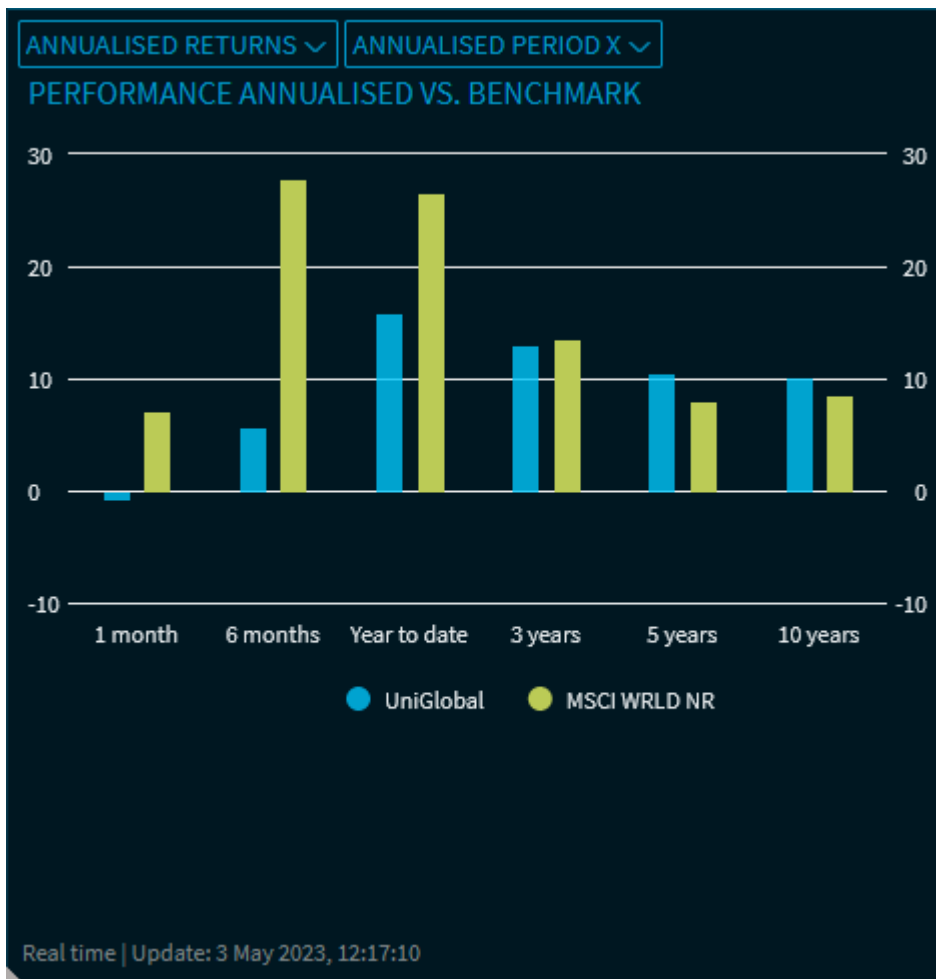
- Currency
- Regions
- Sectors
- Investments
- Asset classes
- Duration
- Ratings
- Bonds
- Issuers

5.43.11 Performance

TRAILING RETURNS ▾		
Performance (not annualised)		Benchmark
1 month	-0.06%	+0.58%
6 months	+2.81%	+13.10%
Year to date	+5.15%	+8.36%
1 year	-1.56%	+1.95%
3 years	+44.62%	+46.42%
5 years	+65.29%	+46.85%
10 years	+163.02%	+128.70%
Since issue	+3,090.41%	+1,639.63%

Real time | Update: 3 May 2023, 12:17:10

5.43.12 Annualised returns



You can select the following entries for the chart by using the drop-down list in the "Annualised returns" view:

- Trailing yield (default setting)
- Annualised returns

5.43.13 Classifications

CLASSIFICATION ▾	
EFCF Category	Equity Global
Investment category	Fund
Asset allocation	Equity Fund
Region/Country	Worldwide
Industry	Not applicable
UCITS/AIF	UCITS

Real time | Update: 24 Nov 2023, 18:23:00

Share classes

FUND DATA

UniGlobal

INFRONT

SHARE CLASSES

	ISIN	ENTRY FEE	ONGOING CHARGES	MINIMUM ORDER
⋮	DE0008491051	5.00%	1.45%	--
⋮	DE000A0M80N0	0.00%	0.96%	100,000.00
⋮	DE000A3CU5E5	--	1.45%	--

Many investment funds are offered in different share classes. These are units in the same fund. Share classes can differ, for example, in the use of income ("distributing" vs. "accumulating"), the amount of the front-end load or the minimum investment amount. Each share class has its own WKN and ISIN. In this view, you can see the columns "ISIN", "Entry fee", "Ongoing charges" and "Minimum order" for the alternative share classes for the currently selected fund.



You can drag and drop individual instruments from the "Share classes" view into other widgets (e.g. 'Fund Comparison' widget).

FUND DATA UniGlobal INFRONT

Volatility (3 years) 15.038 %

Treynor ratio (3 years) 0.4059

Sterling ratio (3 years) 0.51151

Max. loss (3 years) -18.129 %

Longest losing period (months) 3

Outperf. probability (3 years) 55.555

Pos. regression 0.79457

Neg. regression 0.71614

Replace fund

SHARE CLASSES OPEN TO COMPARE

ISIN	ENTRY FEE	ONGOING CHARGES	MINIMUM ORDER
DE0008491051	5.00%	1.45%	—
DE000A0M80N0	0.00%	0.96%	100,000.00
DE000A3CU5E5	—	1.45%	—

Real time updated: 10 Oct 2024, 11:11:53

The "Open to compare" button is also available.

FUND DATA UniGlobal INFRONT

SHARE CLASSES OPEN TO COMPARE

ISIN	ENTRY FEE	ONGOING CHARGES	MINIMUM ORDER
DE0008491051	5.00%	1.45%	--
DE000A0M80N0	0.00%	0.96%	100,000.00
DE000A3CU5E5	--	1.45%	--

Select this button to open a "Fund comparison" widget in overlay mode for the instruments displayed in the "Share classes" view, which you can place on your dashboard as usual.

PLACE WIDGET

ADD TO TOP

FUND COMPARISON

MASTER DATA

ADD ANOTHER FUND

UNGLOBAL

UNGLOBAL I

UNGLOBAL C

ISIN	DE0008491051	DE000A0M80N0	DE000A3CUSE5
WKN	849105	A0M80N	A3CUSE
Issue price / Redemption price	449.00 / 433.82	542.07 / 542.07	107.03 / 101.93
Issuer	Union Investment Privatfonds GmbH	Union Investment Privatfonds GmbH	Union Investment Privatfonds GmbH
Asset allocation	Equity Fund	Equity Fund	Equity Fund
EFCF Category	Equity Global	Equity Global	Equity Global
Region / Country	Worldwide	Worldwide	Worldwide
Country	Germany	Germany	Germany
Admittance	DE, AT, LU, CH, IT	DE, CH, IT	DE, LU
UCITS / AIF	UCITS	UCITS	UCITS

ADD TO BOTTOM

5.44 Top Derivatives and New Issues

The "Top Derivatives and New Issues" widget returns the (10) "best" derivatives for an underlying. You can decide by which criteria to sort or search for derivatives. You can search for certificates as well as leveraged products.

TOP DERIVATIVES AND NEW ISSUES NVIDIA CORP. DL-,001 CERTIFICATES GAINERS

ISIN	NAME	ISSUER	CURRENCY	PRICE	%
DE000SV1RZZ8	SG EFF. DISC.Z24 NVD	SG	EUR	181.90	0.97%
DE000SV1RZV7	SG EFF. DISC.Z23 NVD	SG	EUR	188.44	0.96%
DE000HC3TMX9	UC-HVB CA.BO.Z23 NVD	UCB	EUR	240.23	0.90%
DE000SV1RZY1	SG EFF. DISC.Z24 NVD	SG	EUR	171.39	0.87%
DE000HC3TMZ4	UC-HVB CA.BO.Z23 NVD	UCB	EUR	231.93	0.85%
DE000HC3TMY7	UC-HVB CA.BO.Z23 NVD	UCB	EUR	252.27	0.82%
DE000SV1RZU9	SG EFF. DISC.Z23 NVD	SG	EUR	177.42	0.81%
DE000SV1RZX3	SG EFF. DISC.Z24 NVD	SG	EUR	159.74	0.76%
DE000SV1RZW5	SG EFF. DISC.Z24 NVD	SG	EUR	146.98	0.64%
DE000DV7NLF3	DZ BANK Discountzertifikat auf NVIDIA Corp 325 2023	DZ	EUR	237.88	0.62%

In this example, you see the 10 top certificates for the underlying "DAX", sorted in descending order by the percentage change compared to the previous day's close.

The fields and columns of the "Top Derivatives and New Issues" widget in detail:

Field	Description
Select underlying	<p>Use the integrated quick search to search and select an underlying. The name of the current underlying is shown at the top of the widget after selection.</p> <p>Alternatively, you can add a (new) underlying by dragging it from securities lists to the widget.</p>

Field	Description
Select derivative type	<p>You can select the following derivative types via the first drop-down list to the right of the instrument search:</p> <ul style="list-style-type: none"> • Certificates (default setting) • Leveraged products <p>The name of the currently selected type is shown on the (reduced) drop-down list.</p>
Select criterion	<p>The third drop-down list shows the following criteria:</p> <ul style="list-style-type: none"> • Tops (default setting) The top derivatives are shown in descending order sorted by the percentage change against the previous day's close, that is, the instrument with the biggest performance gain is shown at the top. • Flops The top derivatives are shown in ascending order sorted by the percentage change against the previous day's close, that is, the instrument with the biggest performance decline is shown at the top. • Top trades • Top volume • Top turnover • New issues • Subscription (only for certificates and knock-outs) <p>The name of the currently selected criterion is shown on the (reduced) drop-down list.</p>
"ISIN" column	The ISIN of the derivative.
"Name" column	The name of the derivative.
"Issuer" column	<p>The abbreviated name of the issuer of the derivative.</p> <p>Point to an abbreviation to see the full issuer name.</p>
"Price" column	The most price of the derivative.
"%" column	<p>[only for the "Tops" and "Flops" categories]</p> <p>The percentage change against the previous day's close of the derivative.</p> <p>The list of top derivatives is sorted by this column for the "Tops" and "Flops" categories.</p>
"Cum. trades" column	<p>[only for the "Top trades" criterion]</p> <p>The number of trades on the current trading day.</p> <p>The list of top derivatives is sorted by this column for the "Top Trades" criterion in descending order.</p>

Field	Description
"Cum. volume (qty.)" column	<p>[only for the "Top volume" category]</p> <p>The volume quantity on the current trading day.</p> <p>The list of top derivatives is sorted by this column for the "Top volume" criterion in descending order.</p>
"Cum. volume" column	<p>[only for the "Top turnover" category]</p> <p>The turnover on the current trading day.</p> <p>The list of top derivatives is sorted by this column for the "Top turnover" category in descending order.</p>
"Issue date" column	<p>[only for the "Hist. IPO" and "IPO" criteria]</p> <p>The issue date of the derivative.</p> <p>The list of top derivatives is sorted by this column for the "Hist. IPO " criterion in descending order, that is, the newest derivatives appear at the top of the table.</p>
"Issue price" column	<p>[only for the "Subscription" criterion]</p> <p>The issue price of the derivative.</p>
"Subscription end date" column	<p>[only for the "Subscription" criterion]</p> <p>The last date when the derivative can be subscribed.</p> <p>The list of top derivatives is sorted by this column for the "New issues" category in descending order, that is, the newest derivatives appear at the top of the table.</p>

See also:

- [Settings in the "Top Derivatives and New Issues" widget](#)

5.44.1 Settings in the "Top Derivatives and New Issues" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

Here, you can use the "Push" checkbox to enable or disable the push data feed.

For more information about many other commands in the widget menu, see [Commands in the widget menu](#).

5.45 Trading Signals

The "Trading Signals" widget displays trading signals (long/short) generated for securities from the chart analysis.


In addition to individual securities, index participants or all securities of a watchlist or a portfolio can be selected.

TRADING SIGNALS INDEX CAC 40										
SIGNAL ALL										
WKN	ISIN	NAME	LAST PRICE	DATE	SIGNAL TYPE	SIGNAL TRIGGER	SIGNAL DATE	% SINCE SIGNAL		
938914	NL0000235190	AIRBUS SE	121.98	15:22:37	SHORT	TRIX crosses zer...	21/03/2023	+0.31%		
938914	NL0000235190	AIRBUS SE	121.98	15:22:37	LONG	Close crosses SM...	21/03/2023	+0.31%		
938914	NL0000235190	AIRBUS SE	121.98	15:22:37	LONG	Stochastic bullis...	21/03/2023	+0.31%		
938914	NL0000235190	AIRBUS SE	121.98	15:22:37	TREND-PHASE	AROON trend	21/03/2023	+0.31%		
A0F7BK	FR0010220475	ALSTOM S.A. INH...	24.74	11:47:23	TREND-PHASE	AROON trend	21/03/2023	+0.12%		
A2DRTZ	LU1598757687	ARCELORMITTAL...	26.33	15:21:40	TREND-PHASE	AROON trend	21/03/2023	+0.65%		
A2DRTZ	LU1598757687	ARCELORMITTAL...	26.33	15:21:40	LONG	Stochastic bullis...	21/03/2023	+0.65%		
855705	FR0000120628	AXA S.A. INH. EO ...	27.49	14:32:11	TREND-PHASE	AROON trend	21/03/2023	-0.81%		
855705	FR0000120628	AXA S.A. INH. EO ...	27.49	14:32:11	LONG	Close crosses SM...	21/03/2023	-0.81%		
855705	FR0000120628	AXA S.A. INH. EO ...	27.49	14:32:11	LONG	Stochastic bullis...	21/03/2023	-0.81%		
887771	FR0000131104	BNP PARIBAS IN...	55.21	15:10:41	TREND-PHASE	AROON trend	21/03/2023	+0.86%		
858821	FR0000120503	BOUYGUES SA I...	31.67	09:10:32	LONG	Momentum cros...	21/03/2023	-0.25%		
858821	FR0000120503	BOUYGUES SA I...	31.67	09:10:32	TREND-PHASE	AROON trend	21/03/2023	-0.25%		
858821	FR0000120503	BOUYGUES SA I...	31.67	09:10:32	LONG	Close crosses SM...	21/03/2023	-0.25%		
858821	FR0000120503	BOUYGUES SA I...	31.67	09:10:32	LONG	Stochastic bullis...	21/03/2023	-0.25%		
869858	FR0000125338	CAPGEMINI SE I...	169.05	10:59:48	LONG	Stochastic bullis...	21/03/2023	-0.85%		
869858	FR0000125338	CAPGEMINI SE I...	169.05	10:59:48	TREND-PHASE	AROON trend	21/03/2023	-0.85%		
852362	FR0000120172	CARREFOUR S.A....	17.80	10:39:13	LONG	Close crosses SM...	21/03/2023	+0.23%		
982285	FR0000045072	CREDIT AGRICOL...	10.36	14:31:18	LONG	Stochastic bullis...	21/03/2023	+0.78%		
-----	-----	-----	-----	-----	-----	-----	-----	-----		


The following drop-down lists are available in the upper area:

Selection	Description
Input type	<p>Select the input type for the analysis of the trading signals here. The following types are available here for selection for the securities included:</p> <ul style="list-style-type: none"> • All • Index • Security • Portfolio • Watchlist
Security	Select the security for the analysis of the trading signals here.

Selection	Description
Signal category	<p>Select the relevant signal type from the drop-down list. The following categories are available:</p> <ul style="list-style-type: none"> • Chart signal All generated signals are displayed. • Bollinger Bands Only the signals generated by the "Bollinger Bands" indicator are displayed. • Candlesticks Only the signals generated by the candlesticks analysis are displayed. • Oscillators Only the signals generated by oscillators (such as Momentum, Slow Stochastic, ...) are displayed. • Intersections Only the signals generated by intersections (such as "Price line crosses MA 100" or "Price line crosses MA 38") are displayed. • Trend analysis Only the signals generated by Trend analysis indicators(for example Aroon) are displayed. • Trend followers Only the signals generated by oscillators (for example, MACD, CCI, ...) are displayed.
Signal type	<p>Select the relevant signal type from the drop-down list. The following types are available for selection depending on the signal category:</p> <p>Chart signal:</p> <ul style="list-style-type: none"> • - (all, default setting) <p>Bollinger Bands, Oscillators, Intersections, Trend followers:</p> <ul style="list-style-type: none"> • All (signal type, default setting) • Long • Short <p>Candlesticks:</p> <ul style="list-style-type: none"> • All (signal type, default setting) • Bearish • Bullish <p>Trend setter:</p> <ul style="list-style-type: none"> • All (signal type, default setting) • Trend phase • Sideways phase
Period	<p>Select the relevant period for the analysis from this drop-down list. The following periods are available:</p> <ul style="list-style-type: none"> • All (default setting) • Last trading day • Last 5 days • Last month • Volatility 3 months

 The trading signals displayed in this widget are based on the closing prices of the securities. The indicators underlying the analysis are predefined in their respective parameter settings and cannot be changed by the user.

For the securities selected above, the table then shows the following columns:

Column	Description
Row menu icon 	By using the familiar menu icon in each row, you can call up further functions for each security - as you are used to from other widgets.
WKN	The WKN of the security.
ISIN	The ISIN of the security.
Name	The name of the security.
Current price	The most up-to-date price of the security.
Date	The date or time of the current price of the security.
Signal type	<p>The respective signal type.</p> <p>A list of the possible signal types for the individual categories can be found in the table above.</p>
Signal trigger	The triggering event in the chart.
Time	The date of the signal generation.
% since signal	The percentage change in the price since the signal was generated.

5.46 Bond Calculator

The Bond Calculator allows you to determine and visualise scenarios for price and yield performance of fixed-income bonds and zero-coupon bonds and analyse the corresponding financial indicators.

BOND CALCULATOR Q APPLE 15/24 x

ISIN: CH0271171685 | WKN: A1ZWW8

MASTER DATA		PRICE/YIELD SIMULATION	
Value date	+2 +3 08/02/2023	Yield in %	1.5707 CALCULATE PRICE
Nominal interest rate in %	0.375	Clean price in %	97.9000 CALCULATE YIELD
Issue date	25/02/2015	FIGURES v	
First coupon date	25/11/2015	Yield in %	1.5707
Last coupon date	25/11/2023	Gross yield in %	1.5723
Maturity date	25/11/2024	Net yield in %	1.1792
Redemption price	100.000	Accrued interest days	75
Coupon frequency	ANNUALLY	Accrued interest in %	0.0771
Day count convention	ISMA ACT/ACT	Dirty price in %	97.9771
Tax rate in %	25.000	Yield ISMA bid	1.5707
Nominal amount in EUR	100,000.000	Yield ISMA ask	1.4263
Calculation method	ISMA	The interest rates acc. to ISMA are calculated based on the ask/return prices of the underlying instrument: (97.90 or 98.15 from 08/02/2023 10:47:45). This is not affected by changes of the data entered in the widget.	

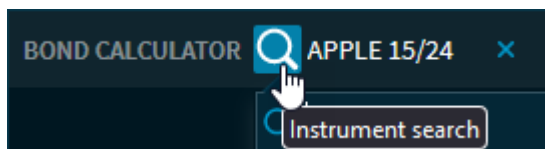


The Bond Calculator opens showing default values. These values are also shown if no bond is selected ("Manual calculation") and thus a scenario independent of securities is simulated. Note that with the Bond Calculator, you can only perform calculations for fixed-interest bonds and zero-coupon bonds.

See also:

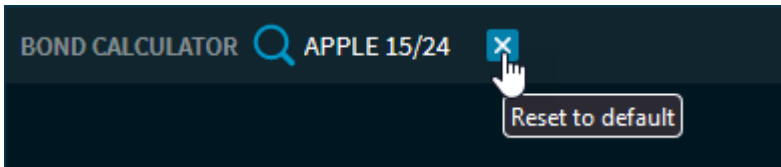
- "Select security" area in the Bond Calculator
- "Master data" area in the Bond Calculator
- "Price/yield simulation" area in the Bond Calculator
- "Results" area in the Bond Calculator

5.46.1 "Select security" area in the Bond Calculator



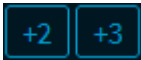
In the "Security selection" at the top of the Bond Calculator, you can search for a bond using the integrated quick search via the "Instrument search" icon. When you selected a bond, you see the following data:

Field	Description
Instrument search	At the top left of the widget, you will find the instrument search as usual. Here, you start the search for a bond. If you have selected a bond, you will always see the name of the bond to the right.

Field	Description
ISIN	The ISIN (International Securities Identification Number) of the bond is displayed together with the WKN on the right side of the widget.
WKN	The bond's security identification number is displayed together with the ISIN on the right-hand side of the widget.
Trading venue	The trading venue of the selected bond.
Price with date	Below the ISIN, you see the current price including the price change, trend arrow and price date.
"Reset to default" icon	<p>The selection of an existing bond for the scenario calculation is not mandatory, you can also use this function to "create" your bond.</p> 

5.46.2 "Master data" area in the Bond Calculator

To analyse a security, the widget provides the following fields in the "Master data" area:

Field	Description
Value date	<p>Specify the value date (date when a posted transaction is valued) in this date field. Just click in the field to open the integrated calendar and select the date.</p>  <p>With the buttons, you set the value date 2 or 3 trading days after today's date and directly recalculate the data. Click the same button again to reset the date to the current date.</p> <p>By default, the corresponding value date is calculated starting from the current date.</p> <p>The return can also be recalculated retrospectively after selecting a date using the integrated calendar.</p>
Nominal interest rate in %	Enter the nominal interest rate (coupon) in percent.
Issue date	Enter the issue date manually in this date field or open the integrated calendar by clicking on the field and select the date.

Field	Description
First coupon date	<p>Enter the date of the first coupon payment manually in this date field or open the integrated calendar by clicking on the field and select the coupon date there.</p> <p>If you enter a date that doesn't make sense in this context, the Bond Calculator will display a warning symbol.</p>
Last coupon date	<p>Enter the date of the last coupon payment into this date field manually or open the menu by clicking on the field and select a coupon date.</p>
Maturity date	<p>Enter the maturity date manually in this date field or open the integrated calendar by clicking on the field and select the date.</p> <p>If you enter a date that doesn't make sense in this context, the Bond Calculator will display a warning symbol.</p>
Redemption price	<p>Enter the redemption price.</p>
Coupon frequency	<p>Select the relevant coupon frequency from the drop-down list:</p> <ul style="list-style-type: none"> • Monthly • Annually • Semi-annually • 3 times per year • Quarterly
Day count convention	<p>Select the date count convention from this drop-down list:</p> <ul style="list-style-type: none"> • ISMA ACT/ACT (default) • German 30/360 • German 30/365 • French 30/360 • French 30/365 • English ACT/365/366 • ISDA ACT/365/366
Tax rate in %	<p>Enter the investor's personal tax rate in percent. This is necessary to calculate the net profit.</p>
Nominal amount in currency	<p>Enter the nominal amount of the bond.</p>
Day count convention	<p>Select the yield calculation method from this drop-down list:</p> <ul style="list-style-type: none"> • ISMA (International Securities Market Association) (default) • Moosmüller & Knauf • US SIA (Securities Industry Association) • US Treasury
"Calculate" button	<p>Recalculates the scenario to apply your changes.</p>

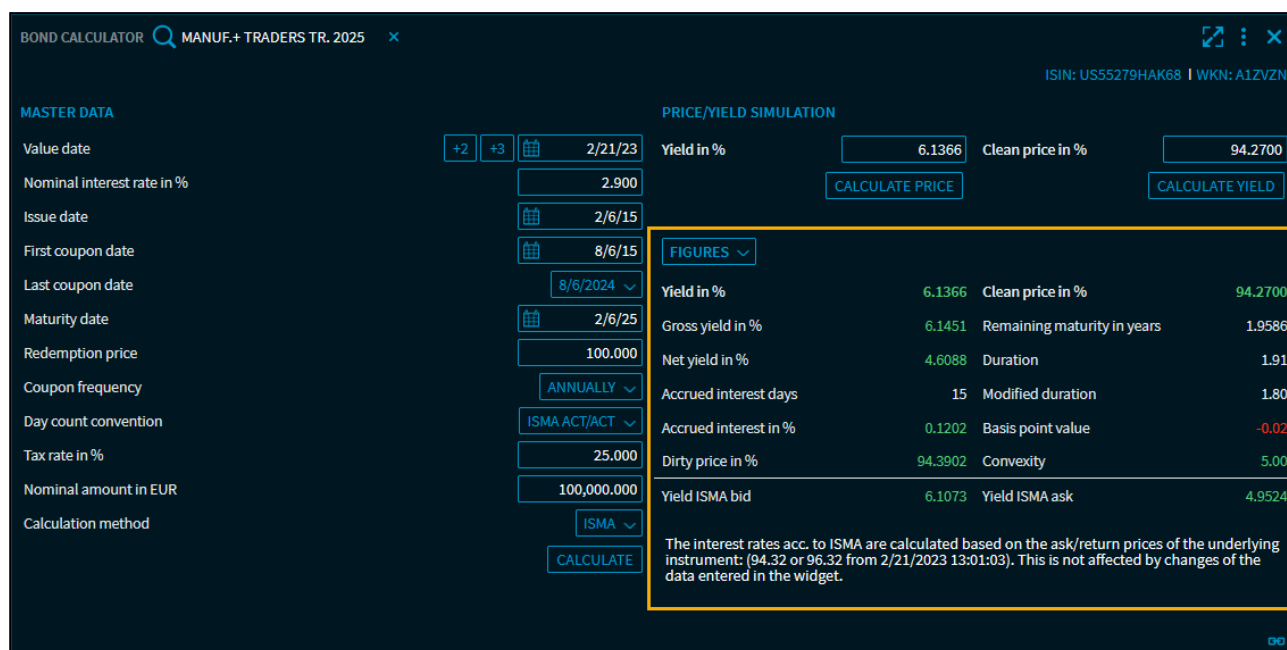
5.46.3 "Price/yield simulation" area in the Bond Calculator

In the "Price/yield simulation" area, you enter either the yield or the clean price in percent. If you added a bond to the widget (by dragging it from a different widget, for example), then the fields are already filled with the corresponding (snapshot) yield and price value.

Start the analysis using the corresponding "Calculate" button. In the "Results" area below, you see the result of the calculation.

5.46.4 "Results" area in the Bond Calculator

Here, you see the calculation in three areas. With the "Figures" drop-down list, you switch to the corresponding display.



The screenshot shows the Infront Bond Calculator interface. The top bar includes the title 'BOND CALCULATOR', a search icon, and the text 'MANUF.+ TRADERS TR. 2025'. The right side shows the ISIN 'US55279HAK68' and WKN 'A1ZVZN'. The interface is divided into two main sections: 'MASTER DATA' and 'PRICE/YIELD SIMULATION'.

MASTER DATA:

- Value date: 2/21/23
- Nominal interest rate in %: 2.900
- Issue date: 2/6/15
- First coupon date: 8/6/15
- Last coupon date: 8/6/2024
- Maturity date: 2/6/25
- Redemption price: 100.000
- Coupon frequency: ANNUALLY
- Day count convention: ISMA ACT/ACT
- Tax rate in %: 25.000
- Nominal amount in EUR: 100,000.000
- Calculation method: ISMA

PRICE/YIELD SIMULATION:

Yield in %: 6.1366 | Clean price in %: 94.2700

Buttons: CALCULATE PRICE, CALCULATE YIELD

FIGURES (selected):

Yield in %	6.1366	Clean price in %	94.2700
Gross yield in %	6.1451	Remaining maturity in years	1.9586
Net yield in %	4.6088	Duration	1.91
Accrued interest days	15	Modified duration	1.80
Accrued interest in %	0.1202	Basis point value	-0.02
Dirty price in %	94.3902	Convexity	5.00
Yield ISMA bid	6.1073	Yield ISMA ask	4.9524

The interest rates acc. to ISMA are calculated based on the ask/return prices of the underlying instrument: (94.32 or 96.32 from 2/21/2023 13:01:03). This is not affected by changes of the data entered in the widget.

See also:

- "Figures" view in the "Results" area
- "Cash flow" view in the "Results" area
- "Graphic" view in the "Results" area

"Figures" view in the "Results" area

In the "Figures" view selected by default, the most important financial indicators are shown. The values are shown in green for positive changes and red for negative changes.

You will find the following values under "Key figures":

- Yield in %
Yield means here the "effective" interest rate of the capital invested in the bond. The invested amount is calculated considering all coupons, accrued interest and repayments.
- Gross yield in %
The gross yield is higher than the net yield by the tax rate.

- Net yield in %
The specified tax rate is subtracted from the individual coupon payment (example: 10% coupon, 25% tax rate (for example, flat tax) resulting in a 7.5% coupon payment). With the coupon payment less the taxes, the "effective" interest is calculated. The redemption at maturity is not affected by taxes. In the Bond Calculator, the net yield is always calculated with a 100% redemption price.
- Accrued interest days
- Accrued interest
- Dirty Price in %
- Clean Price in %
- Remaining maturity in years
- Duration
- Modified duration
- Basis point value (in points)
- Convexity
- ISMA yield bid
- ISMA yield ask



The ISMA yields are calculated based on the bid or ask price of the corresponding security. Manual changes of the data in the widget have no effect on this.

"Cash flow" view in the "Results" area

When you select the "Cash flow" view from the "Figures" drop-down list, you see all relevant cash flows during the holding period or time to maturity of the bond.

DATE	DESCRIPTION	AMOUNT	BALANCE	AMOUNT (%)	BALANCE (%)
Feb 21, 2023	PURCHASE	-94,270.00	-94,270.00	-94.27%	-94.27%
Feb 21, 2023	ACCRUED INTEREST	-120.17	-94,390.17	-0.12%	-94.39%
Aug 6, 2023	COUPON PAYMENT	1,450.00	-92,940.17	1.45%	-92.94%
Feb 6, 2024	COUPON PAYMENT	1,450.00	-91,490.17	1.45%	-91.49%
Aug 6, 2024	COUPON PAYMENT	1,450.00	-90,040.17	1.45%	-90.04%
Feb 6, 2025	COUPON PAYMENT	1,450.00	-88,590.17	1.45%	-88.59%
Feb 6, 2025	REPAYMENT	100,000.00	11,409.83	100.00%	11.41%
Feb 6, 2025	PROFIT	11,409.83	11,409.83	11.41%	11.41%

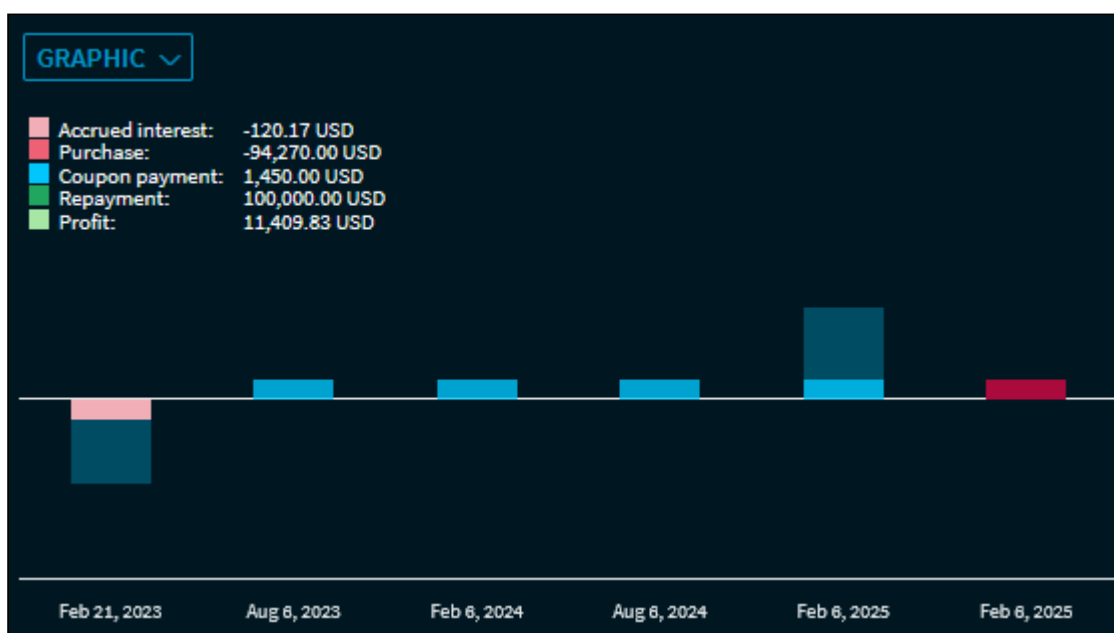
The columns of the "Cash flow" view in detail:

Field	Description
Date	The date of the corresponding cash flow.
Description	Short description of the cash flow type, for example purchase, accrued interest, coupon payment and so on.
Amount	The amount of the payment determined from the nominal amount.

Field	Description
Balance	The cash flows are summed up in the column.
Amount in %	The amount in percent.
Balance in %	The balance in percent.

"Graphic" view in the "Results" area

In the "Graphic view", all relevant cash flows during the holding period or the term to maturity of the bond are shown graphically. At the top of the graphic view, you find the legend for accrued interest, purchase, coupon payment, repayment and profit.



Point to a bar in the graphic to see the exact values at this time.

5.47 VWAP Calculator

The VWAP Calculator defines a security's average price weighted by volume, that is, the volume weighted average price (VWAP).

In addition to the VWAP, you find key figures such as standard deviation, cumulative and average volume as well as the number of transactions.

In the table, the results are shown for the following periods: "Full day", "Last hour", "Time range" and "Since".

VWAP CALCULATOR

APPLE INC.
XETRA (EUR)
⋮
×

ISIN: US0378331005 | WKN: 865985

Settings

Time range

Since

Volume (qty.)
from/to
☐


Price from/to
☐

APPLY

RESULTS	VWAP	STD. DEVIATION	CUM. VOLUME (QTY.)	AVG. VOLUME (QTY.)	TRANSACTIONS
Full day	147.0591	0.1464	22 k	67.1090	321
Last hour	147.2059	0.1133	5 k	68.2500	76
Time range	147.0591	0.1464	22 k	67.1090	321
Since	147.0591	0.1464	22 k	67.1090	321

In addition to the standard elements of the widget, you find the following elements in the "VWAP Calculator" widget:

Field	Description
Settings	Expand or reduce the settings area.
Period	In the "Time range" area, enter a start and/or end time or enter a start time in the "Since" field for the analysis up to the current moment.
Volume (qty.)	To filter the data by volume, select this checkbox and enter a minimum and/or maximum value for the quantity in the corresponding input fields.
Price	To filter the data by certain prices, select this checkbox and enter a minimum and maximum value in the corresponding input fields.
Apply	After specifying your settings, click this button to recalculate the key figures.

 The VWAP calculation applies only to the current trading day, historical data is not available.

5.48 vwd Pages

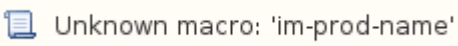
With this widget, you can view the vwd pages in Infront Investment Manager to quickly and easily navigate through the content universe. vwd pages are optimised for content requirements and offer comprehensive and also well-structured financial information. Each vwd page has its own page number that is unique across all products and applications.

VWD PAGES

FAVOURITES

- Navigation in the "vwd Pages" widget
- Add vwd pages to favourites
- Selection of favourite vwd pages
- Context menu of securities on vwd pages
- Export vwd pages to Excel (DAXL)
- Add instruments from vwd page to existing watchlist
- Copy of Create instruments from Screener as new watchlist
- Add securities from vwd page to existing portfolio
- Create securities from vwd page as a new portfolio
- Compact view of vwd pages

5.48.1 Navigation in the "vwd Pages" widget

The common navigation elements are also available on the vwd pages in . You can enter the page number or go to the other pages by clicking the linked elements.

See also:

- [Upper navigation elements](#)
- [Linked vwd page numbers](#)
- [Navigate using favourites](#)
- [Search for terms in vwd pages](#)

Upper navigation elements

In the upper area of the "vwd Pages" widget, you have various navigation elements.

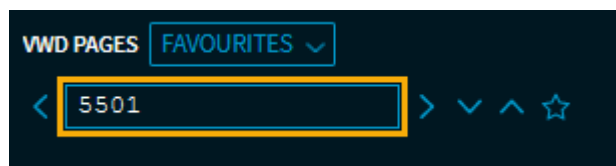


These upper navigation elements are hidden in the [compact view](#).

See also:

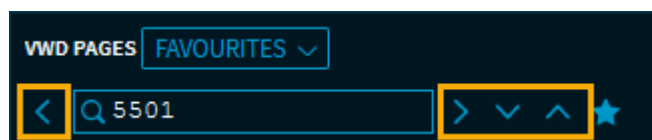
- [Enter page number](#)
- [Arrow icons](#)

Enter page number








Enter the page number in the input field in the upper left corner of the toolbar, and then press <RETURN>. The corresponding page appears in this widget.

Arrow icons



Next to the page number field, you find further navigation elements:

Element	Command	Description
	Back	Return to the page that you previously visited. Up to 10 visited vwd pages are saved.

Element	Command	Description
	Input field page number	Enter the corresponding page number and press <RETURN>. The corresponding page appears in this widget.
	Next	Go to the vwd page that you visited next. Up to 10 visited vwd pages are saved. You can use this command only if you have used the "Back" element at least once in this work session.
	Previous page	Go to the previous page, that is, the page with the next smaller number.
	Next page	Go to the next page, that is the page with the next higher number.

Linked vwd page numbers

All vwd page numbers on the "vwd Pages" widget are linked (link indicated by the blue font colour).

A1ML7J16:22VONOVIA-44.930-0.40-0.880.00020344.92044.94070263345.330

74720616:22WIRECARD-107.650-1.85-1.690.000203107.550107.650348965109.500

5001FFM5002DDF5003MCH5004STG5005HBG5006HNV5008BLN5010

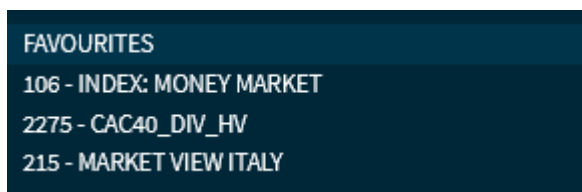
09/04/2019 16:22:24

For example, you can set vwd page 1 as the default start page. Click a page number to go to the corresponding vwd page in the widget.

Navigate using favourites



If you added vwd pages to your favourites, then you can open them from the "Favourites" drop-down list.



FAVOURITES
106 - INDEX: MONEY MARKET
2275 - CAC40_DIV_HV
215 - MARKET VIEW ITALY

To learn more about vwd pages used as favourites for quick access, see [Add vwd pages to favourites](#).

Search for terms in vwd pages




You can search in the upper right corner of the "vwd Pages" widget. To search for terms across all vwd pages:

1. Enter the term in the search field in the upper right corner.
2. Press <RETURN> or click the "Search" icon (magnifying glass).
The search results show the vwd pages with header and page number. Click the navigation arrows below the search results to browse through the pages in the search results.
3. In the search results, click the page number to open the corresponding vwd page.

Example: Search for the page with information about "Broken Dates"

To search for vwd pages with "Broken Dates":

1. Go to a "vwd Pages" widget on your dashboard or create a new one from the Widget Gallery.
2. Enter "Broken Date" in the search field in the upper right corner.
3. Press <RETURN>.
This starts the search and returns the search results
4. In the search results, click the page number 5016 to open the corresponding vwd page.

 The search is purely text based. For example, if just you search for "BMW", then you will not find the vwd page 5009 (DAX Xetra). To find it, you would need to search for the instrument "519000.ETR" itself.

5.48.2 Add vwd pages to favourites

You can save a page open in the "vwd Pages" widget as a favourite page for your entire (private) dashboard to quickly access it.



In the vwd page currently open, click the "Add to favourites" icon.

The page is added to the favourites pages, you can then open it with the "Favourites" button. For more information, see [Navigate using favourites](#).

5.48.3 Selection of favourite vwd pages

The linked vwd pages allow you to browse through the content. Experienced users will create favourite pages.

In the following list, you find frequently used vwd pages:

- 1 Index/Start page
- 451 Money market overview
- 3472 Market overview and DAX
- 5009 Index list DAX Xetra
- 5501 Index list Dow Jones Industrial Average



Some vwd pages are available only with the corresponding data licence activation.

5.48.4 Context menu of securities on vwd pages

On vwd pages displaying securities, you will find additional commands for each security in the corresponding context menus, for example, to open the security directly in another widget, show a short portrait display or to create an [Alert](#).

Here you also have the option to quickly copy ISIN or WKN to the clipboard.

On vwd page 5009 in the example, you can open the context menu for both the DAX and the individual shares by clicking on the corresponding security.



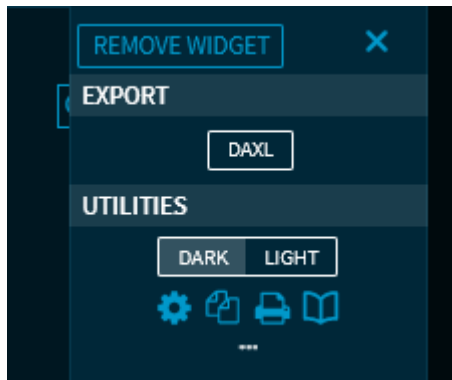
Note that **vwd pages grouped with other widgets** behave differently here. Clicking an instrument does not open the context menu here, but sets the selected security as a new input object for the group(s).

In the example above, the security "BMW" would therefore be displayed in all linked widgets such as chart or individual price by clicking the entry on the vwd page, but the context menu would not open.

For more information, see [Group widgets](#).

5.48.5 Export vwd pages to Excel (DAXL)

With the corresponding activation, you can export vwd pages (with security reference) as CSV files to Excel (DAXL). To do so, open the menu via the menu icon of the widget and click the "DAXL" button in the "Export" area.



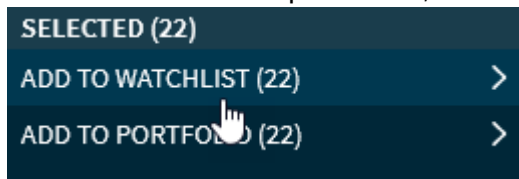
Note that this export to Excel is only useful and possible for vwd pages with securities data. For overview pages (such as vwd page 1) the button in the menu is therefore hidden, for pages with price lists (for example, vwd page 5009) it is available.

5.48.6 Add instruments from vwd page to existing watchlist

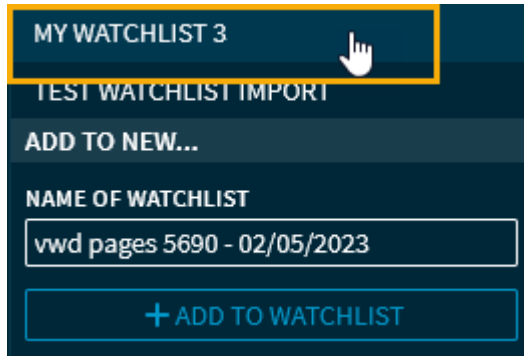
You can add securities of a corresponding vwd page to an existing watchlist of a "Watchlist" widget. To do this, follow these steps:

1. If necessary, open the vwd page.


- From the "Selected" drop-down list, select the "Add to watchlist" command.



- Then select the relevant one from the list of your available price lists



The selected securities are added to this watchlist.

 Securities added from a vwd page get the note "Added from security export" in the watchlist.

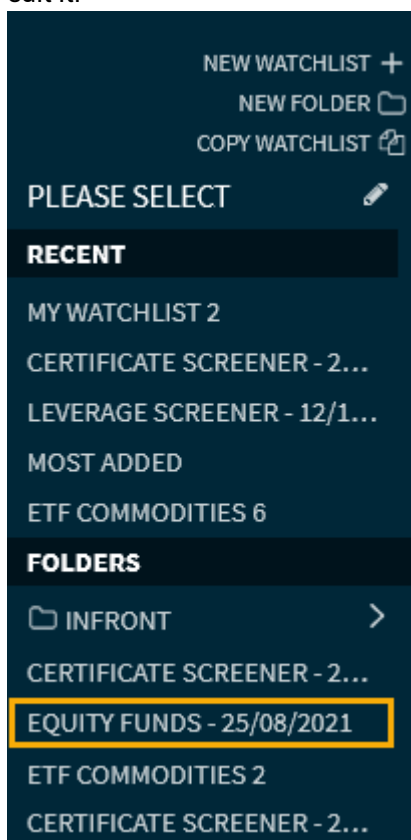
5.48.7 Copy of Create instruments from Screener as new watchlist

You can create instruments selected from a results list as a new watchlist and open it in a "Watchlist" widget. To do this, follow these steps:

- Open the results list by clicking the results arrow of the corresponding screen.
- In the results list, select the instruments that you want to export.
- In the "Selected" drop-down list, select "Add to watchlist". Then, enter a name for the new watchlist in the "Add to new..." area.
- Click the "Add to watchlist" button.

The new watchlist is created with the new name and opens in the "Watchlist" widget, where you can

edit it.



In the watchlist, instruments added from the Screener are indicated by the text "Added from screener".

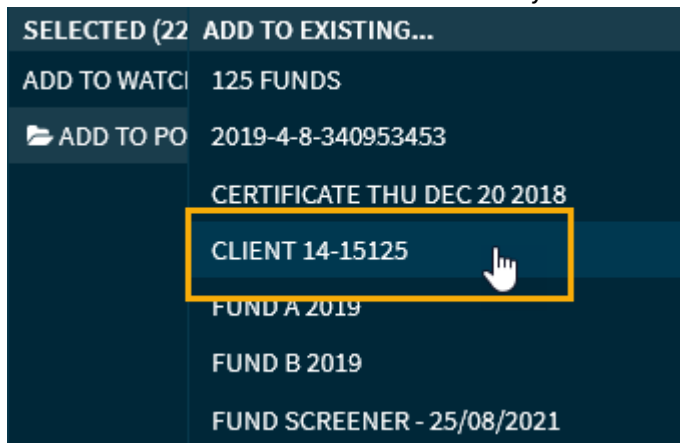
5.48.8 Add securities from vwd page to existing portfolio

You can add securities from a corresponding vwd page to an existing portfolio. To do this, follow these steps:

1. If necessary, open the vwd page.
2. From the "Selected" drop-down list, select the "Add to portfolio" command.



- Then select the relevant one from the list of your available portfolios



The selected securities are added to this portfolio.



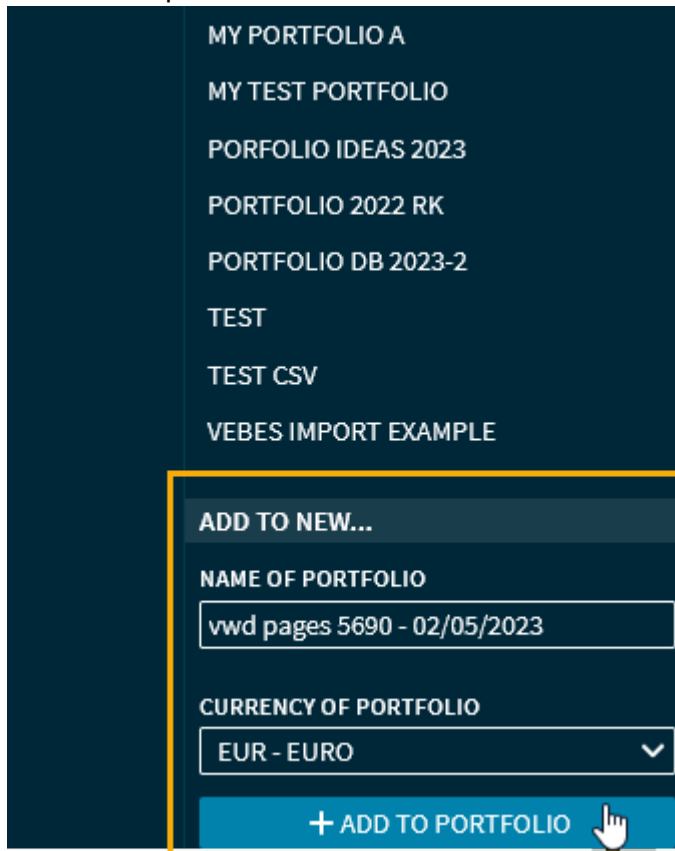
Securities added from a vwd page get the note "Added from security export" in the portfolio.

5.48.9 Create securities from vwd page as a new portfolio

You can create selected securities of a corresponding vwd page as a new portfolio and open it in a "Portfolio" widget. To do this, follow these steps:

- If necessary, open the vwd page.

2. Then select the "Add to portfolio" command from the "Selected" drop-down list and then enter a name for the portfolio to be created in the "Add to new" area or accept the suggested name.



MY PORTFOLIO A

MY TEST PORTFOLIO

PORTFOLIO IDEAS 2023

PORTFOLIO 2022 RK

PORTFOLIO DB 2023-2

TEST

TEST CSV

VEBES IMPORT EXAMPLE

ADD TO NEW...

NAME OF PORTFOLIO

vwd pages 5690 - 02/05/2023

CURRENCY OF PORTFOLIO

EUR - EURO

+ ADD TO PORTFOLIO

3. Then select the button "Add to portfolio".
This creates the new portfolio, which can be opened and edited in the "Portfolio" widget under the

selected name.



Securities added from a vwd page get the note "Added from security export" in the portfolio.

5.48.10 Compact view of vwd pages

vwd pages have a compact view.



Click the "Compact view" icon to switch to this view. These upper navigation elements are hidden in the compact view.












VWD PAGES FAVOURITES 212							
BENCHMARK BOND YIELDS							
GOVERNMENT	1 Year	2 Years	3 Years	5 Years	10 Years	30 Years	DATE
AUSTRALIA	4.0720 %	3.9040 %	3.8740 %	3.9110 %	4.1440 %	4.5040 %	2023-08-28
AUSTRIA	3.5280 %	3.2610 %	3.0660 %	3.0040 %	3.1710 %	3.2580 %	2023-08-28
BELGIUM	3.5150 %	3.2260 %	3.0410 %	2.9150 %	3.2060 %	3.6420 %	2023-08-28
CANADA	5.2550 %	4.7820 %	4.5910 %	4.0332 %	3.6823 %	3.4887 %	2023-08-28




Click the icon again to restore the default display.

5.49 Gainers & Losers

"Gainers & Losers" widget shows the risers and fallers of an equity index at one glance.

GAINERS & LOSERS  SMI® PR % ▾   			
GAINERS		PRICE	%
⋮	SONOVA N	250.50 	+2.24%
⋮	NESTLE N	109.88 	+1.80%
⋮	ABB LTD N	31.04 	+1.27%
⋮	LOGITECH N	49.84 	+1.07%
LOSERS		PRICE	%
⋮	SIKA N	256.10 	-0.58%
⋮	GEBERIT N	502.80 	-0.59%
⋮	UBS GROUP N	19.00 	-2.21%
⋮	CS GROUP N	0.86 	-3.21%
15 min. delayed Update: 22 Mar 2023, 16:23:34 			

In addition to the standard elements, the "Gainers & Losers" widget provides the following elements:

Field	Description
Select security	Use the integrated quick search to search and select an index.
Select calculation criterion	<p>By default, the risers and fallers are determined using the percentage change against the previous day's close. Use the second drop-down list next to the security selection list to select from the following criteria:</p> <ul style="list-style-type: none"> • % (default setting) • Cumulative volume ("Cum. vol. (qty.)") • 1-week performance ("1W perf.") • 1-month performance ("1M perf.") • 3-month performance ("3M perf.") • 6-month performance ("6M perf.") • Year-to-Date performance ("YTD perf.") • 1-year performance ("1Y perf.") • 3-year performance ("3Y perf.") • 5-year performance ("5Y perf.") <p> Only those values are considered that are included in the index.</p>

Field	Description
Tops	<p>The security name of the risers. You can change the number of risers and fallers displayed. By default, you see 4 risers and 4 fallers.</p> <p>The list is automatically resorted with each relevant price change so that the largest riser always appears on top of the list.</p>
Flops	<p>The security name of the fallers.</p> <p>The list is automatically resorted following each relevant price change so that the largest fallers always appears at the bottom of the list.</p>
Price	The current price of the tops and flops. The colour and direction of the arrow indicates the price change.
%	<p>The percentage change from the reference value determined based on the current selection of the calculation criterion in the widget.</p> <p>The default setting "%" is the percentage change from the previous day's close. With the "Perf. YTD" setting, it is the percentage change to the start of the year.</p>
Cum. vol. (qty.)	<p>If you selected the "Volume" calculation criterion, then the "Cum. vol. (qty.)" column is shown instead of the "%" column.</p> <p>The companies with the greatest volume on the current day are shown at the top and those with the smallest volume at the bottom of the list.</p>



"Gainers/Losers" analyses are also available in a watchlist or the portfolio widget.

See also:

- [Settings in the "Gainers & Losers" widget](#)

5.49.1 Settings in the "Gainers & Losers" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

No. of securities:

8

Decimal:

2

Push:

☒ ENABLED

SAVE CHANGES

- Specify the number of securities ("8" by default – 4 risers and 4 fallers; the maximum is "20")
- Specify the number of decimal places ("2" by default, possible values are 0-4)
- Enable or disable the push data feed

5.50 Performance Calculator

In the Performance Calculator, you first select a security and then enter an investment amount as well as the fees, commissions and other charges. The calculated net performance is compared to the gross performance (without these costs).

CF

In addition to the standard elements of the widget, you find the following elements in the "Performance Calculator" widget:

Field	Description
Select security	Use the quick search at the top of the widget to select the relevant security. After selection, the name of the security currently displayed in the widget is shown.
Basic security information	At the top right of the widget, you will see the ISIN and WKN after selecting a security.
Include dividends	Drag this switch, which is enabled by default, to the left if the dividends are not to be taken into account in the calculations.
Push	If you do not want to push data supply, pull this switch to the left (activated by default).
Investment amount in EUR	Enter the investment sum for the analysis.
Brokerage in %	Enter the brokerage incurred in percent. The brokerage for security purchases is a one-off cost and is therefore considered in the net performance of the first period.
Initial charge in %	Enter the initial charge (for funds) in percent. Front-end loads are one-off cost items and are therefore considered in the net performance of the first period.
Order fee/commission in %	Enter the incurred order fee or commission in percent. Commissions and order fees are one-off costs and are therefore considered in the net performance of the first period.
Other costs in EUR	Enter the amount of the other incurred one-off costs of the investment. "Other costs" are one-off costs and are therefore considered in the net performance of the first period.
Securities account fees p.a. in EUR	Enter the annual securities account fees for the instrument. The securities account fees are ongoing charges and are therefore considered in the net performance of all periods.

5.50.1 Historical value development since the value date

In brackets, you see the stock exchange for the calculation. This can be changed by using the trading venue drop-down list at the top of the widget.

Column	Description
Period	For example, the last 5 years (counted from the current date) are shown as analysis periods. The upper row corresponds to the period directly following a "virtual" purchase (that is, the value date).
Net performance	<p>For each period, you see the percentage net performance of the security. Unlike the gross performance, the net performance takes into account the entered costs.</p> <p>The entry costs, that is, the fees incurred when buying the security, are taken into account in the first period, the ongoing charges are taken into account also in all following years.</p>
Gross performance	For each period, you see the percentage gross performance of the security. Unlike the net performance, the gross performance does not consider the entered costs.



Note that the figures refer to the past and that past performance is not a reliable indicator of future results.

5.51 Related Documents

With this widget, you can find the corresponding documents for the selected security. To do this, select the security from the quick search in the upper left corner of the widget field or drag and drop a security into the widget. If there are documents for this security, they are shown here together with their type (usually PDF files).


RELATED DOCUMENTS  WMF(L)III Wellington USD UD  	
TITLE	TYPE
RELATED DOCUMENTS	
Prospectus (4.00 MB 1 Jan 2023)	
Semi-annual report (514.01 KB 31 Mar 2022)	
Annual report (969.17 KB 30 Sep 2022)	
KIID (83.02 KB 11 Feb 2022)	
PRIIP - Key Information Document (81.68 KB 1 Jan 2023)	
Last update: 1 Jan 2023, Source: VWD 	

Click an entry to open the document. Depending on your browser settings, PDF documents will open in a new browser window or in Adobe Reader or are saved in the download folder.

Document types:

- Prospectuses
- Simplified prospectus
- Annual reports

- Semi-annual reports
- KIDs
- KIIDs
- PRIIPs
- ...

 The documents are mainly available for funds certificates and ETFs. However, there can also be annual reports or analyst estimates. At the bottom of the widget, you find information about the source and date of the document.

5.52 Bond Comparison

Similar to the widget "[Certificate Comparison](#)", the "Bond Comparison" widget allows you to compare up to 10 different bonds in the following views:

- Basic information
- Coupon
- Issue information
- Key figures
- Chart

First select the first two bonds to be compared using the magnifying glass icons. Alternatively, drag & drop from other widgets is also possible, for example.

Depending on the existing activation, you can choose between different sources. In the following examples, the source "WM" was selected.

5.52.1 Bond Comparison - Basic information

BOND COMPARISON WM BASIC INFORMATION ADD ANOTHER BOND			
	Q ADIDAS AG ANL 22/29	Q ERSTE GR.BK. 21/24 ADS	Q DT.BANK MTN 15/25
Name	ADIDAS AG ANL 22/29	ERSTE GR.BK. 21/24 ADS	DT.BANK MTN 15/25
ISIN	XS2555179378	AT0000A2RZNO	DE000DB7XJJ2
WKN	A30V3N	EB0F28	DB7XJJ
LEI	549300JSX0Z4CW0V5023	PQOH26KWDF7CG10L6792	7LTWFZYICNSX8D621K86
Security category	Bond	Bond	Bond
Category	Banks/Insurance bonds	Banks/Insurance bonds	Banks/Insurance bonds
Sector Name	Manufacture of footwear	Activities of commercial banks including branche...	Activities of commercial banks including branche...
Sector Category	Manufacturing	Financial and insurance activities	Financial and insurance activities
Currency	EUR	XXZ	EUR
Quotation	Prozent	Prozent	Prozent
Nominal value	100,000.00	1,000.00	1,000.00

5.52.2 Bond comparison - Coupon

BOND COMPARISON WM COUPON ADD ANOTHER BOND			
	Q ADIDAS AG ANL 22/29	Q ERSTE GR.BK. 21/24 ADS	Q DT.BANK MTN 15/25
Interest rate	3.13%	4.45%	2.75%
Maturity date	21 Nov 2029	30 Jul 2024	17 Feb 2025
First coupon date	21 Nov 2023	30 Jul 2022	17 Feb 2016
Current coupon date	21 Nov 2023	30 Jul 2024	–
Next coupon date	21 Nov 2024	30 Jul 2024	17 Feb 2024
Last coupon date	21 Nov 2029	30 Jul 2024	17 Feb 2025
Type	fixed	fixed	fixed
Coupon frequency	anually	anually	anually
Redemption price	100.00	100.00	100.00

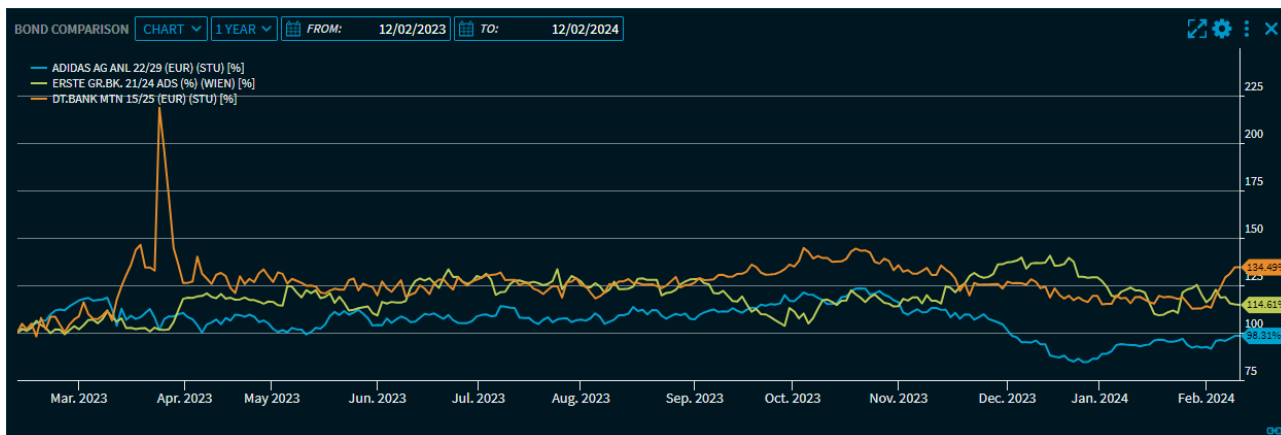
5.52.3 Bond comparison - issue information

BOND COMPARISON WM ISSUE INFORMATION ADD ANOTHER BOND			
	Q ADIDAS AG ANL 22/29	Q ERSTE GR.BK. 21/24 ADS	Q DT.BANK MTN 15/25
Name	ADIDAS AG ANL 22/29	ERSTE GR.BK. 21/24 ADS	DT.BANK MTN 15/25
Issuer name	ADIDAS AG	ERSTE GROUP BANK AG	DEUTSCHE BANK AG
Issuer type	Unternehmen (anderweitig nicht genannt): Unter...	Kreditinstitute: Kreditinstitute	Kreditinstitute: Kreditinstitute
Issue date	21 Nov 2022	30 Jul 2021	17 Feb 2015
Issue price	99.272	100.00	99.715
Issue volume	500.00 m	50.00 m	1.25 bn
Issuing currency	EUR	EUR	EUR

5.52.4 Bond comparison - Key figures

BOND COMPARISON WM KEY FIGURES ADD ANOTHER BOND			
	Q ADIDAS AG ANL 22/29	Q ERSTE GR.BK. 21/24 ADS	Q DT.BANK MTN 15/25
Accrued interest	0.71181	0.00	2.7274
Dirty Price	100.338	–	101.277
Convexity	33.0795	–	1.8127
90 day volatility	5.03%	41.53%	1.64%
Duration in years	5.33465	–	0.9811
Modified Duration	5.16947	0.00	0.9412
Day count convention	ACT/ACT	–	ACT/ACT

5.52.5 Bond Comparison - Chart



Use the "Add another bond" button to show up to 10 bonds.

With the magnifying glass icons lists, you can replace the selected fund. With the "Remove" icons next to the drop-down lists, you remove the corresponding bond.

You can select the relevant trading venue with currency for the bond comparison for each bond by using the associated trading venue drop-down list.

For each bond in the widget, the familiar menu is available in the header that you can use to quickly open the bond in another widget or also print it.

The screenshot shows the header of the Bond Comparison widget. The bond name is ADIDAS AG ANL 22/29. A yellow arrow points to the menu icon (three dots) next to the bond name. The menu is open, showing options: OPEN AS... (Dashboard, Chart, Full Quote, More...), COPY INSTRUMENT... (ISIN, WKN), and UTILITIES (Bell icon, Print icon).



You can copy the chart to the clipboard using the "Copy chart to clipboard" icon.

See also:

- [Settings widget "Bond Comparison"](#)

5.52.6 Settings widget "Bond Comparison"



If you have opened the "Chart" view in the "Bond Comparison" widget, you can open the "Settings" dialogue window via the then visible "Widget settings" icon at the top right of the widget.

Configure your chart in the "Bond Comparison" widget here. The various setting options are clearly grouped into areas, which you can select on the left side:

- Chart line and ordinate
- Period

Chart line and ordinate

You can make the following settings for the chart graph and ordinate:

Field	Description
Ordinate outside chart	By default, the ordinates are displayed outside the chart. Clear this checkbox to display the y-axis values outside of the chart.
Legend	Clear this checkbox to hide the legend shown by default on the upper left side of the chart.

Field	Description
Show prices	By default, the price is displayed when pointing to the chart lines to the right of the respective legend entries. Select the "In tooltip" checkbox to display the prices directly at the mouse pointer as tooltip.
Show last values	Clear this checkbox to turn off the default display of current prices on the right side of the chart.
Highlight chart line	Select this checkbox to switch on the "highlighting" of the chart lines (when pointing to the lines in the chart or in the legend). This setting is disabled by default.

Period

In this section of the settings, you can define individual, custom display periods for your charts. To do this, follow these steps:

1. On the left side of the "Settings" dialogue window, select the "Periods" area.
 2. Click the "Add period" button.
 3. Enter the relevant name for the first custom period in the "Name" input field.
 4. Then click the "Settings" button for this period.
 5. Configure the new time period. The table below contains descriptions of the individual setting options.
 6. Then click the "Save" button. (Use the "Back" button to exit the settings for the period without saving any changes you may have made).
 7. If you want to add further columns, then select the "Add period" button in the "Periods" area and proceed in the same way.
- You can delete your own time periods by clicking the respective "Delete" buttons.

The settings of the custom time periods in detail:

General	
Field	Description
Name	Enter the relevant name for the period here. You can freely define the name of a period - or leave it blank for the time being and use the automatic name generation. The name of the column is then automatically generated by the system according to the time periods you set. The name of the period can be changed later.
Automatic naming	Select this setting to automatically generate the name of the period. The name is generate depending on the time periods and start and end times set below.

Selected period	<p>Here, you can see the always updated period resulting from your settings. This data is not editable here.</p> <p>To set the calculation period, it is recommended to first define the methodology for the end date (Absolute date, Now, Relative to...). Then do the same for the start date. In the "Selected time period" row, you will then see the start and end date that results from the respective parameter selection.</p>
Select start date	
Field	Description
Date from	<p>Here, you can set a fixed starting date.</p> <p>To do this, select this check box and then enter the corresponding start date using the calendar integrated into the input field.</p> <p>The default setting is 1 month into the past.</p>
Relative	<p>Here, you can set a relative starting date.</p> <p>To do this, select this checkbox and then select the relevant starting time from the drop-down list. The following entries are available:</p> <ul style="list-style-type: none"> • Start of the week • Start of the month (default setting) • Start of the quarter • Start of the year
Period starting from the end date	<p>Here, you have the option to define a calculation period starting from the end date.</p> <p>To do this, select this checkbox and then first select the relevant period from the drop-down list and then enter the relevant number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <p>The default setting is 1 months.</p>
Select end time	
Field	Description
Date to	<p>Here, you can set a fixed end date.</p> <p>To do this, select this check box and then enter the corresponding end date using the calendar integrated into the input field.</p> <p>The current date is set by default.</p>

Now	<p>Here, you have the option of setting the current date as the end date (default setting).</p> <p>Select this checkbox.</p>
Relative period starting from the end date	<p>Here, you can set the date to the desired end time relative to a date in the past.</p> <p>To do this, select this checkbox and first select an end date from the upper list. The following entries are available:</p> <ul style="list-style-type: none"> • End of the current week • End of the current month • End of the current quarter • End of the current the year • End of the previous week • End of the previous month • End of the previous quarter • End of the previous year <p>You can then select the period and enter the corresponding number in the input field. The following periods are available:</p> <ul style="list-style-type: none"> • Days • Weeks • Months • Quarters • Years <div> <p>Example</p> <p>In August 2021, the setting "End of previous quarter" and "2 months" result in the end date "April 30, 2021".</p> </div>

The defined and saved time periods are then available for selection in the widget in the drop-down list of time periods. The user-defined periods are added at the bottom of the drop-down list.

5.53 Correlation Matrix

The Correlation Matrix allows you to determine correlations between securities. The correlation values range from -1 (not correlated) to +1 (completely correlated). In addition, the correlation is indicated by the colour, ranging from dark red to dark green.

CORRELATION MATRIX
1 MONTH

Q XETRA (EUR)
ADD
TIME RANGE: 12 MAY 2023 - 12 JUN 2023

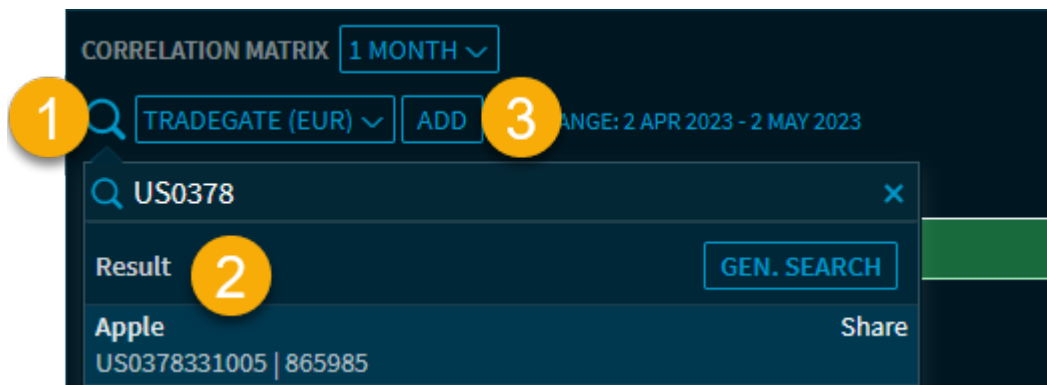
	SAP	ARL	DTG	AMZ	APC
SAP	1.000	-0.035	0.584	0.565	0.573
ARL	-0.035	1.000	0.578	0.236	0.162
DTG	0.584	0.578	1.000	0.424	0.466
AMZ	0.565	0.236	0.424	1.000	0.906
APC	0.573	0.162	0.466	0.906	1.000

See also:

- [Add securities to correlation matrix](#)
- [Select trading venue for correlation matrix](#)
- [Select the calculation period for the correlation matrix](#)
- [Settings in the "Correlation Matrix" widget](#)

5.53.1 Add securities to correlation matrix

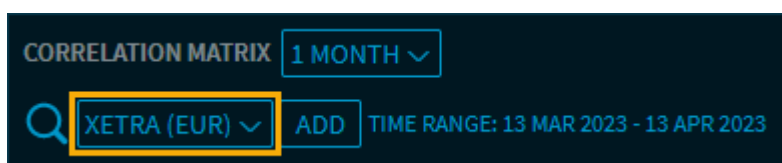
Use the integrated quick search to find a security and click the "Add" button to add the security to the matrix.



✓ You can also drag securities from other widgets to the "Correlation Matrix" widget.

5.53.2 Select trading venue for correlation matrix

Use the trading venue drop-down list to select a trading venue for the correlation matrix. The currently selected trading venue is always shown on the drop-down button (here "XETRA").



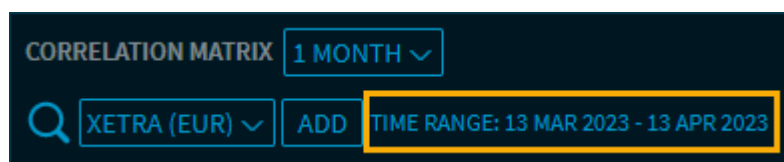
5.53.3 Select the calculation period for the correlation matrix

Use the upper drop-down list to select the calculation period for the correlation matrix. To do this, click in the list and select the relevant entry:

- 1 week
- 1 month (default setting)
- Year to date
- 1 year
- 2 years
- 3 years
- 5 years
- 10 years
- Custom

The "Custom" entry allows you to open the widget settings to define any period by specifying the "Start date" and "End date" with the calendar function. For more information, see [Settings in the "Correlation Matrix" widget](#).

The currently defined period is shown in the widget:

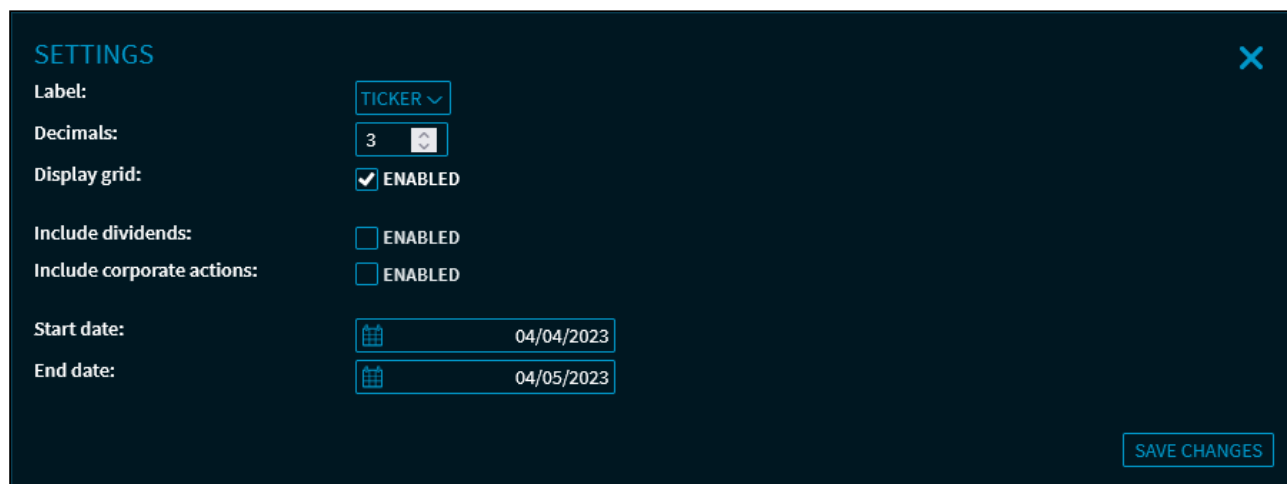


5.53.4 Settings in the "Correlation Matrix" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here, you can make the following settings:

Field	Description									
Name	<p>Use the drop-down list to select the labels for the rows and columns of the correlation matrix.</p> <ul style="list-style-type: none">• Ticker (default) (for example, "Daimler": "DAI")• WKN ("710000")• ISIN ("DE0007100000")• Valor number ("945657")• ID ("710000.ETR")• Name ("DAIMLER AG NA O.N.")									
Decimal places:	<p>Specify the number of decimals to be displayed in the matrix. You can set 0 to 5 decimals.</p>									
Display grid	<p>Clear this checkbox to hide the grid lines in the correlation matrix:</p> <table><tr><td>1.000</td><td>0.592</td><td>0.476</td></tr><tr><td>0.592</td><td>1.000</td><td>0.694</td></tr><tr><td>0.476</td><td>0.694</td><td>1.000</td></tr></table>	1.000	0.592	0.476	0.592	1.000	0.694	0.476	0.694	1.000
1.000	0.592	0.476								
0.592	1.000	0.694								
0.476	0.694	1.000								
Include dividends	<p>Select this checkbox if you want to include the dividends in the correlation matrix.</p>									
Include corporate actions	<p>Select this checkbox to include any corporate actions in the correlation matrix.</p>									
Start date	<p>Enter a custom start date for the calculation.</p> <p>The "Custom" entry in the drop-down list opens the settings dialogue window where you can specify a user-defined start and end date.</p>									
End date	<p>Enter a custom end date for the calculation.</p> <p>The current date is set by default.</p>									

For more information about the widget settings, see [Commands in the widget menu](#).

5.54 FX Option Calculator

The FX Options Calculator calculates currency options.



In the upper part of the "FX Option Calculator" widget, you see the contract data. To calculate the currency options, first define the base currency and the foreign currency. For the calculation, choose the required option model, the option maturity and the day count convention. You also control the display of the values by incrementing the strike.

The calculation starts automatically after you input the data, that is, the table and chart are updated.

You can find the following contract data:

Field	Description
Base currency in %	<p>From this drop-down list, select the base currency for which you want to calculate the options.</p> <p>The current percentage of the currency is displayed for information purposes.</p>
Foreign currency in %	<p>From this drop-down list, select the foreign currency for which you want to calculate the options for the base currency.</p> <p>The current percentage of the currency is displayed for information purposes.</p>
Option model	<p>Select the model to calculate the options from the drop-down list. The following models are available:</p> <ul style="list-style-type: none"> • Black Scholes Merton • Black 76 • Bachelier

Field	Description
Option maturity	Use the calendar integrated here to select the terms or maturity dates of the options to be calculated.
Interest days	(Not editable) The number of days of the calculation up to the set due date.
Day count convention	Select the day count convention for the fixed interest payment. The following periods are available for the day count convention: <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/360 • ISMA (ACT/ACT) • ISMA 30E/360
Increment	Here, enter the increment for the strikes that you want to display. <div> <p>Example:</p> <p>If the mid-strike is noted at 1.20 and you enter the value 0.01 here, then option prices are calculated (starting from the mid-strike) for the following strikes:</p> <p>Downwards: 1.19;1.18;1.17;...</p> <p>Upwards: 1.21;1.22;1.23;...</p> </div>
Spot Bid	The resulting spot bid.
Spot Ask	The resulting spot ask.
Mid-Strike	The average strike price of the displayed values, which always corresponds to the spot price in automatic calculation. You can edit this value.
Outright	(Not editable) The current outright of the selected currencies. Outright transactions are forward exchange trades that are not matched by an offsetting spot transaction, that is, that are not covered by swaps.
Volatility bid in %	The percentage volatility of bid rates.
Volatility ask in %	The percentage volatility of the ask prices.

See also:

- [FX Option Calculator - "Table" section](#)
- [FX Option Calculator - "Chart" area](#)
- [Settings in the "FX Option Calculator" widget](#)

5.54.1 FX Option Calculator - "Table" section

On the left side under the input data of the "FX Option Calculator", you see the "Table" section.

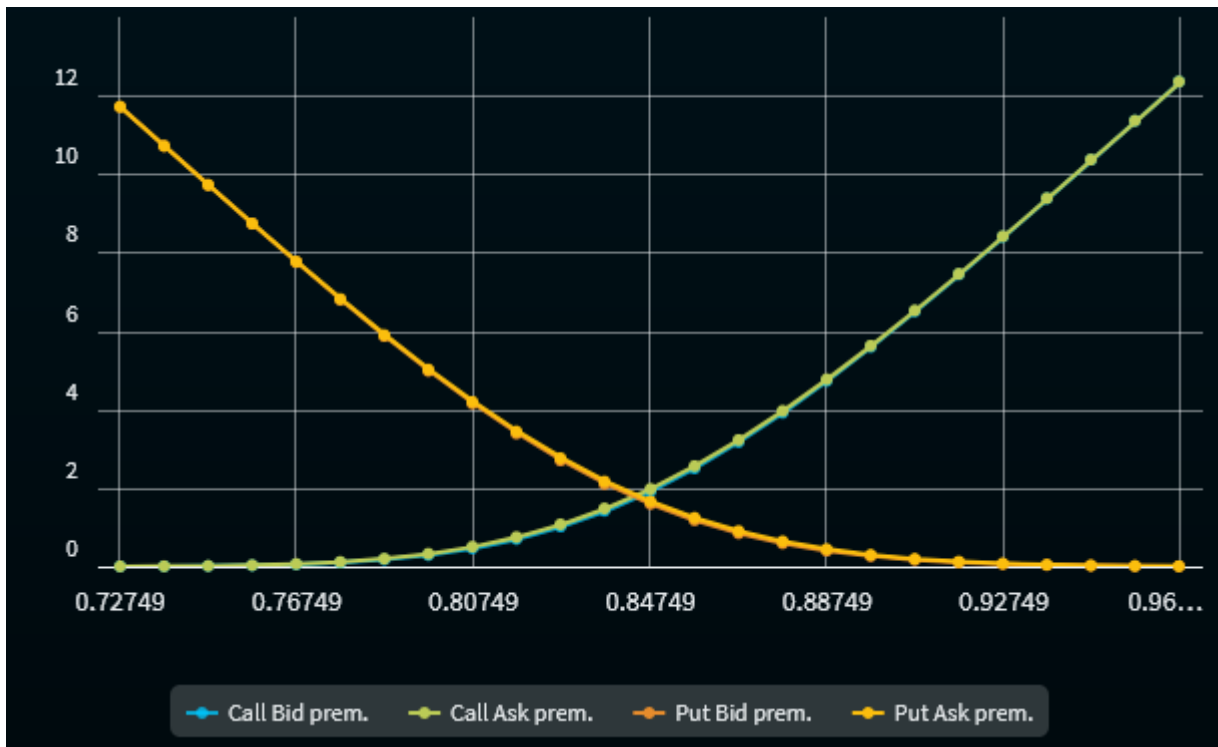
CALL BID PREM.	CALL ASK PREM.	STRIKE	PUT BID PREM.	PUT ASK PREM.
11.71	11.71	0.72749	0.00	0.00
10.71	10.72	0.73749	0.01	0.01
9.72	9.72	0.74749	0.01	0.02
8.73	8.74	0.75749	0.03	0.03
7.75	7.77	0.76749	0.05	0.07
6.80	6.82	0.77749	0.10	0.12
5.87	5.90	0.78749	0.17	0.20
4.98	5.02	0.79749	0.29	0.32
4.15	4.20	0.80749	0.46	0.50
3.39	3.44	0.81749	0.70	0.75
2.70	2.76	0.82749	1.02	1.07
2.10	2.17	0.83749	1.42	1.48

In the widget's table view, you can see the bid and ask prices for calls and puts for each strike in the currencies selected in the upper area of the [General contract data](#) section. The row with the mid-strike is slightly highlighted in colour (in the image above, the strike price is 0.90650).

In the ["Chart" area](#) to the right, you find a graphical analysis of these values.

5.54.2 FX Option Calculator - "Chart" area

To the right below the input data of the "FX Option Calculator" widget, you see the "Chart" area, where the calculated values are displayed in a chart.



The chart view shows the values from the [table](#) in the chart. The x-axis displays the the strike prices. The y-axis displays the prices for the following curves:

- Call Bid premium
- Call Ask premium
- Put Bid premium
- Put Ask premium



Point to the dots in the Chart to see the exact values.

5.54.3 Settings in the "FX Option Calculator" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

Here, you can use the "Push" checkbox to enable or disable the push data feed.

For more information about the widget settings, see [Commands in the widget menu](#).

5.55 Watchlist

With the "Watchlist" widget, you can see all your favourite securities at a glance.

WATCHLIST WATCHLIST DOCS OVERVIEW							
SELECTED (2/10)			Filter...				
<input type="checkbox"/>	NAME (SHORT)	TIME	LAST PRICE	NET CHANGE	%	ISIN	
<input checked="" type="checkbox"/> N	SIEMENS AG NA O.N.	11:15:29	141.26	+0.40	+0.28%	DE0007236101	
<input type="checkbox"/> N	US30	11:15:30	34,097.00	-66.90	-0.20%	--	
<input type="checkbox"/> N	OREAL (L.) INH. EO 0,2	10:23:13	378.85	+2.05	+0.54%	FR0000120321	
<input checked="" type="checkbox"/> N	NESTLE NAM. SF-,10	--	0.00	±0.00	±0.00%	CH0038863350	
<input type="checkbox"/> N	ERICSSON NIKOLA TESLA dd	09:59:16	243.00	-4.00	-1.62%	HRERNTRA0000	
<input type="checkbox"/> N	MERCEDES-BENZ GRP NA O.N.	11:15:21	72.29	+0.34	+0.47%	DE0007100000	
<input type="checkbox"/> N	N1 ORD	--	--	--	--	IS0000020584	
<input type="checkbox"/> N	FISHER (JAMES)SONS LS-,25	08:02:14	3.72	±0.00	±0.00%	GB0003395000	
<input type="checkbox"/> N	AIR FRANCE-KLM INH. EO 1	10:52:25	1.59	+0.02	+0.98%	FR0000031122	
<input type="checkbox"/> ..	-----	-----	---	---	---	-----	

Similar to the "Portfolio" widget, you find, in addition to the classic overview, the "Gainers/Losers" view of the positions as well as a correlation matrix and a risk/return matrix for securities. In addition, you have the option to show all securities of the watchlist in a ticker tape.

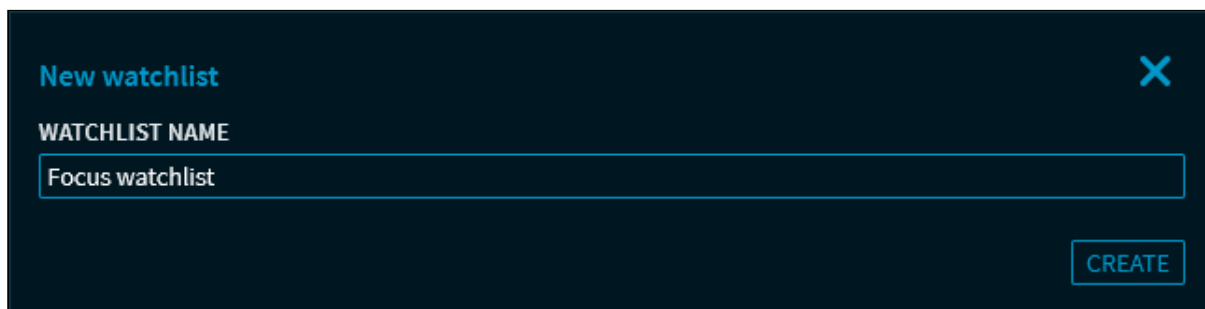
See also:

- [Create new watchlist](#)
- [Open watchlist](#)
- ["Select watchlist" menu](#)
- [Add security to a watchlist](#)
- [Edit position of a watchlist](#)
- [Copy or move position to another watchlist](#)
- [Delete position from a watchlist](#)
- [Standard elements of the "Watchlist" widget](#)
- [View in the "Watchlist" widget](#)
- [Edit watchlist](#)
- [Copy watchlist](#)
- [Import watchlist](#)
- [Delete watchlist](#)
- [Settings in the "Watchlist" widget](#)

5.55.1 Create new watchlist

To create a new watchlist:

1. If you haven't opened an "Watchlist" widget in your private dashboard yet, then open the Widget Gallery, and then search for the "Watchlist" widget.
2. In the "Watchlist" widget, open the first drop-down list and select "New watchlist" in the upper part of the list.
3. In the "New watchlist" dialogue window, enter a unique name for the watchlist in the "Watchlist name" field.



4. Confirm the details by pressing <RETURN> or clicking the "Create" button.

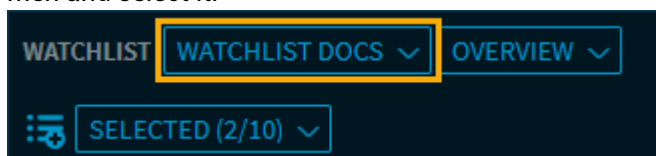
The watchlist with the selected name is created and shown in the widget. Now you can add securities to this watchlist.

- ✓ To create your watchlists in a custom folder structure, create the corresponding folders by clicking the "New watchlist" on the corresponding level of the menu. In an open watchlist drop-down list, you can also drag and drop your watchlists into another folder. You can also use the "[Copy watchlist](#)" function to quickly create a new watchlist based on an existing one. You can quickly generate new watchlists from result lists of the general search, the screener or also from corresponding vwd pages. For more information, see [Create instruments from Screener as new watchlist](#) or [Copy of Create instruments from Screener as new watchlist](#). You can create up to 1000 watchlists, each containing up to 200 instruments.

5.55.2 Open watchlist

To open a watchlist:

1. Open or go to a "Watchlist" widget.
2. If you have created several watchlists, switch to the relevant one by using the watchlist drop-down menu and select it.



In the menu, you will find the 5 most recently opened watchlists for quick selection in the "Last" section at the top. In the "Folder" area, you can select (as in the [Dashboard Explorer](#)) the relevant watchlist from the folder structure.

The watchlist opens showing an overview or the previously selected view.

5.55.3 "Select watchlist" menu

At the top of the "Watchlist" widget, you find the drop-down list to select your watchlists.

WATCHLIST		MOST ADDED		RECENT	
NEW SECURITY		MOST ADDED		RECENT	
	NAME	TIME	LAST PRICE	NET CHANGE	
	MY WATCHLIST 2				
	THOMAS-TEST4	17:07	91.48	+0.03	
	ETF COMMODITIES 6	17:09	434.10	+6.90	
FOLDERS					
	INFRONT	13:40	242.00	+4.50	
	VWD GMBH	15:28	1,367.20	+4.80	
	MY FOLDER	16:32	2,908.00	+13.50	


The "Select watchlist" menu provides various functions:

- At the top of the menu, in the "Last" section, you will find the up to 5 of the most recently opened watchlists for quick selection.
- In the "Folder" area, you can select and open (as in the [Dashboard Explorer](#)) the relevant watchlist from the folder structure. Here, you can also organise your watchlists in a folder structure by creating the corresponding folders in the "Select watchlist" menu by using the "New folder" command. By default, you find your watchlists in the "MeinOrdner" folder.
- To switch to another watchlist, select it from the corresponding folder in the menu.
- To create a new watchlist, select the "New watchlist" command on the corresponding folder level.
- The [COPY WATCHLIST](#) command creates a copy of the current watchlist.
- You can delete created folders and watchlists in edit mode.

For more information about the individual functions and menu structure, see [Dashboards](#).

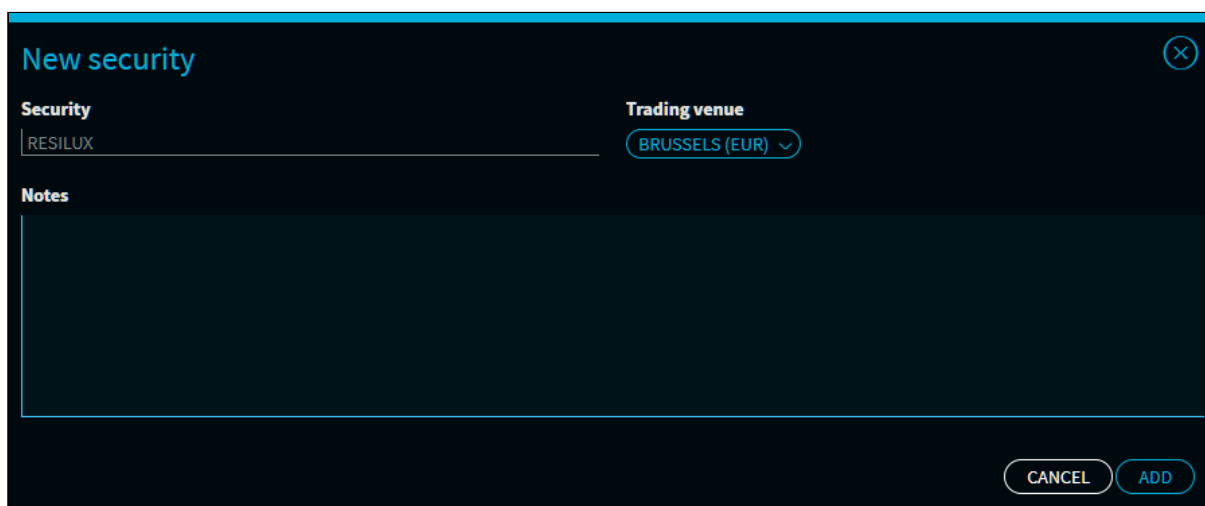
5.55.4 Add security to a watchlist

To add securities to a watchlist:

-  Open the quick search by using the "Instrument search" icon and select the security.
- Or drag and drop the security from another widget into the watchlist.

To add a security:

1. Open or go to a "Watchlist" widget first.
2. Use the drop-down list to select the corresponding watchlist.
3. Then click the "Instrument search" icon in the widget and select a security from the list or search for it by using the input field of the quick search.
4. Then, enter the instrument data for the new position in the "New instrument" dialogue window. If necessary, select another exchange or enter notes for the position.



5. Complete the recoding by clicking the "Add" button.

The security appears as a position in the watchlist with the data entered.



From result lists of the screener, you can quickly add instruments to watchlists. For more information, see [Add instruments from Screener to existing watchlist](#).

The following fields can be found in the "New security" dialogue window:

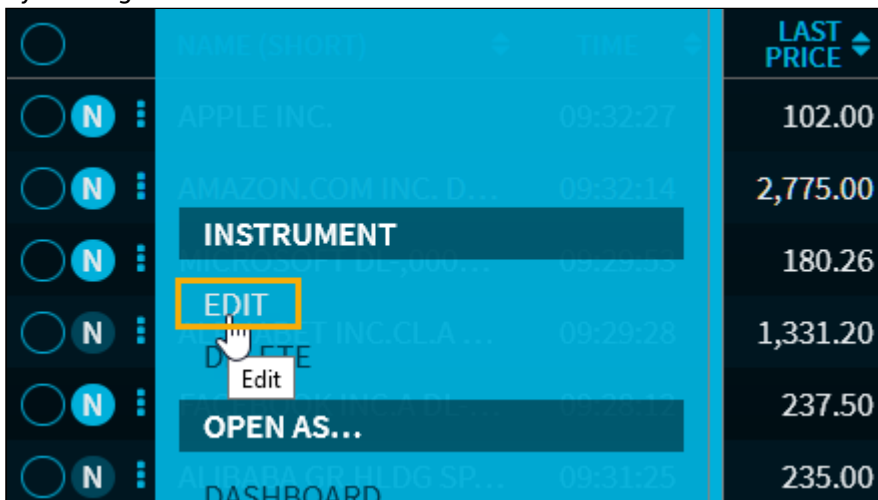
Field	Description
Security	<Not editable here> The name of the security that you want to add.
Trading venue	Select the trading venue of the security. If the security is already included in the price list for the selected trading venue, a corresponding information appears.
Note	You can enter notes on this security.
"Add" button	After entering the data, click this button to complete entering the security data and add the position.

5.55.5 Edit position of a watchlist

You can edit positions of a watchlist at any time.

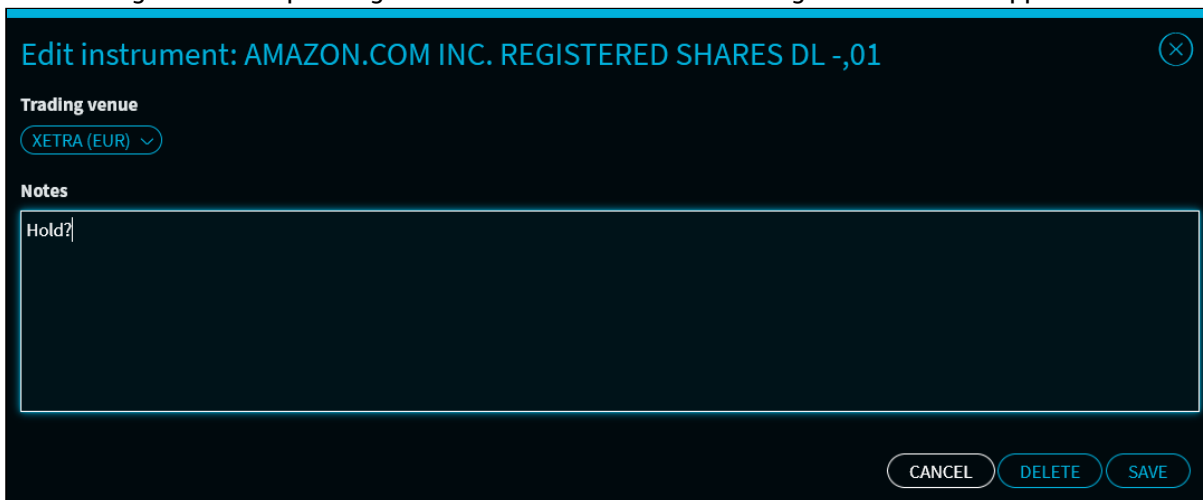
To do this, follow these steps:

1. In the "Watchlist" widget in the overview, open the menu in the row with the position to be edited by clicking the menu icon and select the EDIT INSTRUMENT command.



	NAME (SHORT)	TIME	LAST PRICE
	APPLE INC.	09:32:27	102.00
	AMAZON.COM INC. D...	09:32:14	2,775.00
	INSTRUMENT		180.26
	EDIT		1,331.20
	OPEN AS...		237.50
	DASHBOARD		235.00

2. Then change the corresponding data in the "Edit instrument" dialogue window that appears.



Edit instrument: AMAZON.COM INC. REGISTERED SHARES DL -,01

Trading venue
XETRA (EUR) ▾

Notes
Hold?

CANCEL DELETE SAVE

The fields are the same as those used when entering the positions. For more information, see [Add security to a watchlist](#).

3. Click the "Save" button to save the changes.
The position is changed accordingly.

5.55.6 Copy or move position to another watchlist

You can copy or move securities of a watchlist with all position data to another watchlist.

To do this, follow these steps:

1. In the "Watchlist" widget, select the positions that you want to transfer.
2. Open the "Selected" drop-down list.

- From the menu, select the watchlist to which you want to copy or move the positions.




The positions are transferred and are now also available in the other watchlist. You can then edit the positions individually for each watchlist (for example, add notes).

5.55.7 Delete position from a watchlist

You delete positions from a watchlist at any time.

To do this, follow these steps:

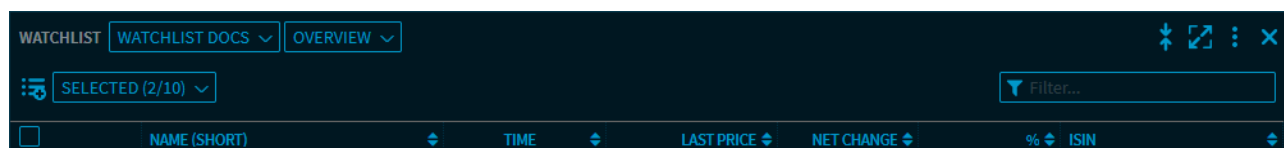
-  In the overview of the "Watchlist" widget, click the menu icon in the row of the position you want to edit.
- Select "Delete" from the drop-down list.
This deletes the positions from the watchlist.

To delete multiple positions at once:


- In the "Watchlist" widget, select the positions that you want to delete.
- Open the "Selected" drop-down list.
- Select "Delete" from the drop-down list.
The positions are deleted from the watchlist.

5.55.8 Standard elements of the "Watchlist" widget

The navigation and selection elements in the upper part of the "Watchlist" widget are available in any view.



In addition to the standard icons, you can find the following elements in the upper part of the widget:

Element	Description
Select watchlist	<p>From the drop-down list in the upper left, you can select and open a watchlist, add a new folder to better structure the menu or create a new watchlist.</p> <p>The name of the currently selected watchlist is shown on the closed drop-down list.</p> <p>Use this menu to rename, publish (if licensed) or delete the currently selected watchlist.</p> <p>For more information, see Edit watchlist and Delete watchlist.</p>
Select view	<p>The second drop-down list allows you to change the watchlist view. You can select from the following views:</p> <ul style="list-style-type: none"> • Overview • Performance • Stats • Tile view • Top Flop • Correlation Matrix • Risk-Return Matrix • Chart gallery <p>The name of the currently selected view is shown on the closed drop-down list.</p>
"Instrument search" icon 	<p>You can add further securities by using the quick search.</p> <p>See also Add security to a watchlist.</p>
Filters	<p>Use the filter field on the right side to filter the watchlist view.</p>

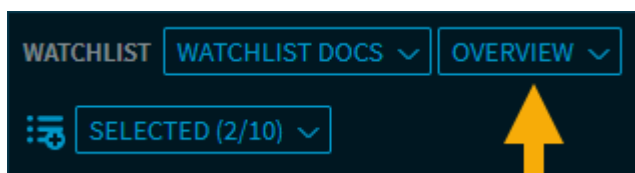
Further functional elements appear in the upper area when a position is selected. See also ["Overview" view](#).



You can show or hide the watchlist header.

You can also configure the watchlist footer. Click in the footer and enter a text.

5.55.9 View in the "Watchlist" widget



From the second drop-down list in the upper part of the "Watchlist" widget, you can select the view and thus various functions. This section briefly describes the various views.

See also:


- "Overview" view
- "Performance" view
- "Key figures" view
- "Top Flop" view
- "Correlation Matrix" view
- "Risk-Return Matrix" view
- "Chart Gallery" view
- "Performance tiles" view












































































"Overview" view






Select "Overview" from the drop-down list. In the overview, you see all securities of the watchlist in a table. At the start of each row, there are various functions and commands for each position.



WATCHLIST		WATCHLIST DOCS		OVERVIEW			
SELECTED (2/10)				Filter...			
	NAME (SHORT)	TIME	LAST PRICE	NET CHANGE	%	ISIN	
<input checked="" type="checkbox"/> N	SIEMENS AG NA O.N.	11:15:29	141.26	+0.40	+0.28%	DE0007236101	
<input type="checkbox"/> N	US30	11:15:30	34,097.00	-66.90	-0.20%	--	
<input type="checkbox"/> N	OREAL (L) INH. EO 0,2	10:23:13	378.85	+2.05	+0.54%	FR0000120321	
<input checked="" type="checkbox"/> N	NESTLE NAM. SF,10	--	0.00	±0.00	±0.00%	CH0038863350	
<input type="checkbox"/> N	ERICSSON NIKOLA TESLA dd	09:59:16	243.00	-4.00	-1.62%	HRERNTRA0000	
<input type="checkbox"/> N	MERCEDES-BENZ GRP NA O.N.	11:15:21	72.29	+0.34	+0.47%	DE0007100000	
<input type="checkbox"/> N	N1 ORD	--	--	--	--	IS0000020584	
<input type="checkbox"/> N	FISHER (JAMES)SONS LS,25	08:02:14	3.72	±0.00	±0.00%	GB0003395000	
<input type="checkbox"/> N	AIR FRANCE-KLM INH. EO 1	10:52:25	1.59	+0.02	+0.98%	FR0000031122	
<input type="checkbox"/> ..	-----	-----	---	---	---	-----	

You find the following columns and functions in the position overview:

Function/column	Description
"Instrument search" icon 	<p>With this icon, you can open the quick search and add further positions to the watchlist.</p> <p>For more information, see Add security to a watchlist.</p>

Function/column	Description																																										
Selected	<p>Shows the number of positions currently selected in the overview table.</p> <p>You can select the following commands from the menu:</p> <ul style="list-style-type: none">• Delete Removes the selected positions from the watchlist. See also Delete position from a watchlist.• Copy (to another selected watchlist) Below this command, select the target watchlist to which you want to copy the selected positions. For more information, see Transfer position to another watchlist.																																										
 Add text	<p>If you selected a single position in the watchlist, then you can use this icon to add a text line above this position and enter any text. While you are typing, you see how many characters you can still enter.</p> <p>In the context menu of the text lines, you also find the standard browser commands for text like "Copy" or "Paste". Please note that you can only paste unformatted text (that is, no HTML formatting) and that the number of characters is limited.</p> <p>You can also add multiple text lines one after the other.</p> <p>To delete added text rows, select them, and then select "Delete" from the "Selected" drop-down list.</p>																																										
 Add separator	<p>If you selected a single position in the watchlist, you can use this icon to add a separator above the selected position and enter any text.</p> <table><tr><td></td><td></td><td></td><td>US0378331005</td><td></td><td>APPLE INC. R...</td><td>139.80</td></tr><tr><td></td><td></td><td></td><td>DE000BASF111</td><td></td><td>BASF SE NAM...</td><td>59.75</td></tr><tr><td></td><td></td><td></td><td>US30303M1027</td><td></td><td>FACEBOOK I...</td><td>115.68</td></tr><tr><td></td><td></td><td></td><td>DE0007100000</td><td></td><td>DAIMLER AG ...</td><td>46.91</td></tr><tr><td></td><td></td><td></td><td>DE000A14ZT85</td><td></td><td>L&G-L&G CYBER SECURITY U.ETF</td><td>11.19</td></tr><tr><td></td><td></td><td></td><td>DE0007236101</td><td></td><td>SIEMENS AG ...</td><td>97.92</td></tr></table> <p>To remove an inserted separator, select the position below, and then click this icon.</p> <div> Use the "Separator" and "Text line" functions to group positions with headers.</div>				US0378331005		APPLE INC. R...	139.80				DE000BASF111		BASF SE NAM...	59.75				US30303M1027		FACEBOOK I...	115.68				DE0007100000		DAIMLER AG ...	46.91				DE000A14ZT85		L&G-L&G CYBER SECURITY U.ETF	11.19				DE0007236101		SIEMENS AG ...	97.92
			US0378331005		APPLE INC. R...	139.80																																					
			DE000BASF111		BASF SE NAM...	59.75																																					
			US30303M1027		FACEBOOK I...	115.68																																					
			DE0007100000		DAIMLER AG ...	46.91																																					
			DE000A14ZT85		L&G-L&G CYBER SECURITY U.ETF	11.19																																					
			DE0007236101		SIEMENS AG ...	97.92																																					

Function/column	Description																																																								
<div> "News" icon</div>	<p>Opens the news widget to show news for the corresponding security. If a "Company News" widget is already available in the dashboard, then the news are shown in this widget, otherwise, a new "Company News" widget is added at the bottom of the dashboard.</p> <p>The icon shows if there are current news for a security:</p> <table><tr><td></td><td>:</td><td>ALPHABET INC. CL.A DL-,001</td><td>14:36:40</td><td>1,369.00</td><td>-20.60</td><td>-1.48%</td><td>US02079K3059</td></tr><tr><td></td><td>:</td><td>FACEBOOK INC. A DL-,0000...</td><td>14:38:07</td><td>246.00</td><td>-6.00</td><td>-2.38%</td><td>US30303M1027</td></tr><tr><td></td><td>:</td><td>ALIBABA GR.HLDG SP.ADR B</td><td>14:48:45</td><td>239.50</td><td>-2.00</td><td>-0.83%</td><td>US01609W1027</td></tr><tr><td></td><td>:</td><td>TESLA INC. DL -,001</td><td>14:49:03</td><td>1,931.20</td><td>+28.00</td><td>+1.47%</td><td>US88160R1014</td></tr><tr><td></td><td>:</td><td>NVIDIA CORP. DL-,001</td><td>14:48:01</td><td>423.80</td><td>-11.50</td><td>-2.64%</td><td>US67066G1040</td></tr><tr><td></td><td>:</td><td>ADOBE INC.</td><td>13:47:24</td><td>432.20</td><td>-2.70</td><td>-0.62%</td><td>US00724F1012</td></tr><tr><td></td><td>:</td><td>NETFLIX INC. DL-,001</td><td>14:40:14</td><td>443.70</td><td>-9.35</td><td>-2.06%</td><td>US64110L1061</td></tr></table> <p>In this example, news are available for the securities "VOLKSWAGEN AG VZO O.N.", "DAIMLER AG NA O.N.", "DEUTSCHE BANK AG NA O.N." and "SAP SE O.N.", but not for the other visible securities ("News" icon turned off).</p>		:	ALPHABET INC. CL.A DL-,001	14:36:40	1,369.00	-20.60	-1.48%	US02079K3059		:	FACEBOOK INC. A DL-,0000...	14:38:07	246.00	-6.00	-2.38%	US30303M1027		:	ALIBABA GR.HLDG SP.ADR B	14:48:45	239.50	-2.00	-0.83%	US01609W1027		:	TESLA INC. DL -,001	14:49:03	1,931.20	+28.00	+1.47%	US88160R1014		:	NVIDIA CORP. DL-,001	14:48:01	423.80	-11.50	-2.64%	US67066G1040		:	ADOBE INC.	13:47:24	432.20	-2.70	-0.62%	US00724F1012		:	NETFLIX INC. DL-,001	14:40:14	443.70	-9.35	-2.06%	US64110L1061
	:	ALPHABET INC. CL.A DL-,001	14:36:40	1,369.00	-20.60	-1.48%	US02079K3059																																																		
	:	FACEBOOK INC. A DL-,0000...	14:38:07	246.00	-6.00	-2.38%	US30303M1027																																																		
	:	ALIBABA GR.HLDG SP.ADR B	14:48:45	239.50	-2.00	-0.83%	US01609W1027																																																		
	:	TESLA INC. DL -,001	14:49:03	1,931.20	+28.00	+1.47%	US88160R1014																																																		
	:	NVIDIA CORP. DL-,001	14:48:01	423.80	-11.50	-2.64%	US67066G1040																																																		
	:	ADOBE INC.	13:47:24	432.20	-2.70	-0.62%	US00724F1012																																																		
	:	NETFLIX INC. DL-,001	14:40:14	443.70	-9.35	-2.06%	US64110L1061																																																		
<div> "Row menu" icon</div>	<p>Click this icon to edit, delete or quickly open the position show in this row in another widget.</p> <table><tr><td></td><td>:</td><td>NEW SECURITY</td><td></td><td>LAST PRICE </td></tr><tr><td></td><td>:</td><td>UBS ETFs CMCI Ex Agr (the ...</td><td>11:30:26</td><td>99.78</td></tr><tr><td></td><td>:</td><td>ENTRY</td><td></td><td>101.62</td></tr><tr><td></td><td>:</td><td>EDIT</td><td></td><td>74.715</td></tr><tr><td></td><td>:</td><td>DELETE</td><td></td><td>112.42</td></tr><tr><td></td><td>:</td><td>OPEN AS...</td><td></td><td>13.68</td></tr><tr><td></td><td>:</td><td>DASHBOARD</td><td></td><td>57.21</td></tr><tr><td></td><td>:</td><td>CHART</td><td></td><td>11.587</td></tr><tr><td></td><td>:</td><td>FULL QUOTE</td><td></td><td>83.08</td></tr><tr><td></td><td>:</td><td>MORE...</td><td></td><td></td></tr><tr><td></td><td>:</td><td>UTILITIES</td><td></td><td></td></tr></table> <p>For more information, see Edit position of a watchlist, Delete position from a watchlist and Commands in the widget menu.</p>		:	NEW SECURITY		LAST PRICE 		:	UBS ETFs CMCI Ex Agr (the ...	11:30:26	99.78		:	ENTRY		101.62		:	EDIT		74.715		:	DELETE		112.42		:	OPEN AS...		13.68		:	DASHBOARD		57.21		:	CHART		11.587		:	FULL QUOTE		83.08		:	MORE...				:	UTILITIES			
	:	NEW SECURITY		LAST PRICE 																																																					
	:	UBS ETFs CMCI Ex Agr (the ...	11:30:26	99.78																																																					
	:	ENTRY		101.62																																																					
	:	EDIT		74.715																																																					
	:	DELETE		112.42																																																					
	:	OPEN AS...		13.68																																																					
	:	DASHBOARD		57.21																																																					
	:	CHART		11.587																																																					
	:	FULL QUOTE		83.08																																																					
	:	MORE...																																																							
	:	UTILITIES																																																							

Function/column	Description
Columns	<p>You can show or hide the columns of the position overview in the settings that you open with the widget menu icon. The following columns are available in the "Overview":</p> <ul style="list-style-type: none"> • % (Percentage change) • ±YTD % (percentage change Year-to-date) • Net change (Absolute change) • Entry date • Entry price • A-Amount • Underlying • Ask • B-Amount • Bid • Trading venue • Instrument ID • ISIN • Annual high • Annual low • Price • Name • Name (short) • Note <p>With the "Copy note" icon, you can copy the entered texts when the note is open.</p>  <ul style="list-style-type: none"> • Symbol • Trend • Cum. turnover • Delay <p>The Arbitrage section explains the symbols in this column.</p> <ul style="list-style-type: none"> • Cum. volume (qty.) • Volume (qty.) • Ccy./Unit <p>The currency is usually displayed here, but for percentage-quoted bonds, for example, "%" is displayed. If you would like to display the "actual currency" for such securities as well, you can drag the currency field with ID 48 into the list by using the "All Fields" widget.</p> <ul style="list-style-type: none"> • WKN • Time • 52-week comparison <p>In this column you, can see the current price compared to the 52-week low ("left edge of the bar") and 52-week high ("right edge of the bar"). For a small example, see Arbitrage.</p> <p>For more information, see (49-en) Settings in the "Watchlist" widget.</p> <div>  <p>As in other tables, you can re-sort the position overview by clicking a column header. For more information, see Sort tables in widgets.</p> </div>


Function/column	Description
	<p>You can also move an individual position in the position overview to a new place by dragging it there at any time.</p> <p>In addition to these standard columns for the position overview, you can also add any other columns from the "All fields" widget. For more information, see Add fields from the "All fields" widget to watchlist or portfolio.</p>

"Performance" view

In the "Performance" view, the securities of a watchlist are analysed in terms of their performance. The table structure corresponds to the ["Overview" view](#).

WATCHLIST										WATCHLIST DOCS	PERFORMANCE		
SELECTED (0/10)										Filter...			
	ISIN	NAME	± 1 WEEK %	± 1 MONTH %	± 6 MONTHS %	± YTD %	± 1 YR %	± 3 YR %	NOTES				
<input type="checkbox"/> N	DE0007236101	SIEMENS AG NAMENS-AKTIE O.N.	-0.21%	+5.01%	+31.59%	+10.27%	+10.68%	+46.81%					
<input type="checkbox"/> N	---	US30	---	---	---	---	---	---					
<input type="checkbox"/> N	FR0000120321	OREAL S.A., L ACTIONS PORT. EO 0,2	+0.47%	+6.57%	+5.89%	+13.68%	+5.43%	+48.55%					
<input type="checkbox"/> N	CH0038863350	NESTLE S.A. NAMENS-AKTIE SF -,10	-1.04%	+3.42%	+30.49%	+30.49%	+40.00%	+45.27%					
<input type="checkbox"/> N	HRERNTA0000	ERICSSON NIKOLA TESLA d.d.	-1.22%	+1.26%	+22.37%	+6.94%	-1.05%	+44.66%					
<input type="checkbox"/> N	DE0007100000	MERCEDES-BENZ GROUP AG NAMENS-AKTIE	+6.10%	+8.11%	+21.97%	+17.02%	+14.46%	+118.91%					
<input type="checkbox"/> N	IS0000020584	N1 ORD SHS	-1.31%	-1.72%	---	±0.00%	---	---					
<input type="checkbox"/> N	GB0003395000	FISHER AND SONS PLC, JAMES REGISTERED S	-11.01%	-8.92%	+7.78%	-8.49%	-12.81%	---					
<input type="checkbox"/> N	FR0000031122	AIR FRANCE-KLM S.A. ACTIONS PORT. EO 1	+1.57%	+15.63%	+1.80%	+28.51%	-25.64%	---					
<input type="checkbox"/> ..	-----	-----	-----	-----	-----	-----	-----	-----					

The following columns are available in the "Performance" view:


Element	Description
Columns	<p>You can show or hide the columns of the "Performance" view in the settings that you open with the widget menu icon. In detail:</p> <ul style="list-style-type: none"> • Symbol • ISIN • WKN • Instrument ID • Name • Name (short) • +/- 1 day % • +/- 1 day • +/- 1 week % • +/- 1 week • +/- 1 month % • +/- 1 month • +/- 3 months % • +/- 3 months • +/- 6 months % • +/- 6 months • +/- YTD % • +/- YTD • +/- 1 year % • +/- 1 year • +/- 3 years % • +/- 3 years • +/- 5 years % • +/- 5 years • +/- 10 years % • +/- 10 years <p>For more information, see Settings in the "Watchlist" widget.</p> <div>  As in other tables, you can re-sort the "Performance" view by clicking a column header. </div>

"Key figures" view

In the "Key figures" view, the securities of a watchlist are analysed in terms of their key figures. The table structure corresponds to the ["Overview" view](#).

WATCHLIST		WATCHLIST DOCS		KEY FIGURES			
SELECTED (0/10)						Filter...	
	ISIN	NAME	SECTOR	DIV. YIELD	P/E RATIO	P/CF RATIO	NOTES
<input type="checkbox"/> N	DE0007236101	SIEMENS AG NAMENS-AKTIE O.N.	Tech.	3.02%	30.2925	11.0219	
<input type="checkbox"/> N	--	US30	--	--	--	--	
<input type="checkbox"/> N	FR0000120321	OREAL S.A., L ACTIONS PORT. EO 0,2	Consumer	1.27%	45.7342	31.222	
<input type="checkbox"/> N	CH0038863350	NESTLE S.A. NAMENS-AKTIE SF -,10	Food	0.00%	--	--	
<input type="checkbox"/> N	HRERNTRA0000	ERICSSON NIKOLA TESLA d.d.	Telecom.	--	--	--	
<input type="checkbox"/> N	DE0007100000	MERCEDES-BENZ GROUP AG NAMENS-AKTIE O.N.	Automot.	6.95%	3.34651	3.13508	
<input type="checkbox"/> N	IS0000020584	N1 ORD SHS	--	--	--	--	
<input type="checkbox"/> N	GB0003395000	FISHER AND SONS PLC, JAMES REGISTERED SHARE	Services	--	--	--	
<input type="checkbox"/> N	FR0000031122	AIR FRANCE-KLM S.A. ACTIONS PORT. EO 1	Transport	0.00%	-0.26563	0.59642	

The following columns are available in the "Key figures" view:

Column	Description
Columns	<p>You can show or hide the columns of the "Key figures" view in the settings that you open with the widget menu icon. In detail:</p> <ul style="list-style-type: none"> • Symbol • ISIN • WKN • Instrument ID • Name • Name (short) • Sector • Market capitalisation • Dividend • Div. yield • EPS (diluted) • Price/earnings ratio (PE) • Dynamic price/earnings ratio ("Dyn. P/E") • Price/cash flow ratio (P/CF ratio) • Return on equity • Equity ratio • EBIT • Earnings per share (diluted) • Shares outstanding • Note <p>This column shows if a note is attached to a position.</p> <p>For more information about showing and hiding columns, see Settings in the "Watchlist" widget.</p> <div>  As in other tables, you can re-sort the "Key figures" view by clicking a column header. </div>

"Top Flop" view

You can also view the securities of a watchlist as a "Top Flop" list. Select the "Top Flop" view from the second drop-down list in the upper part of the widget.

WATCHLIST CRYPTO OVERVIEW

Filter...

	NAME (SHORT)	TIME	LAST PRICE	NET CHANGE	%	ISIN
N	BTC/USD SPOT RATE	15:01:01	23,101.48	-132.90	-0.57%	--
N	BTC/EUR SPOT RATE	15:00:29	21,534.54	-115.02	-0.53%	--
N	BTC/CHF SPOT RATE	15:00:31	21,252.96	-160.79	-0.75%	--
Indices						
N	Ethereum Liquid Index	15:00:01	1,674.473	+3.54	+0.21%	--
N	Cryptoindex.com	15:00:50	1.8613	-0.13	-6.50%	--
Crypto brokers						
N	BCH/EUR	15:00:57	124.98489	-1.58	-1.25%	--
N	BCH/USD	15:00:59	133.91437	-1.67	-1.23%	--
...

By default, the view shows the five greatest gainers and five greatest losers. The calculation of the ranking is sorted by the percentage change against the previous day's close ("% in the drop-down list).

The settings of this view allow you to configure the number of securities to be displayed (from 2 up to a maximum of 20 securities).

The drop-down list above the risers and fallers allows you to select different criteria like performance intervals or volumes.

%
Cum. vol. (qty.)
1M perf.
3M perf.
6M perf.
YTD perf.
1Y perf.
3Y perf.
5Y perf.

The "Top Flop" analysis in the "Watchlist" widget corresponds to the table in the "Top/Flop" widget, see [Gainers & Losers](#).



In the "Top Flop" view, you find this menu icon at the start of each security. This icon allows you to quickly open individual securities as a chart or Full Quote.

"Correlation Matrix" view

Select the "Correlation Matrix" view to show the securities included in the watchlist as a correlation matrix.

WATCHLIST
MOST ADDED
CORRELATION MATRIX

1 MONTH
Time range: 8 Aug 2020 - 8 Sep 2020

	APC	MSF	ABEA	FB2A	AHLA	TL0	NVD	ADB	NFC	ABL
APC	1.000	-0.281	-0.399	-0.448	-0.439	0.971	-0.465	-0.482	-0.509	-0.447
MSF	-0.281	1.000	0.916	0.912	0.863	-0.124	0.849	0.924	0.915	0.896
ABEA	-0.399	0.916	1.000	0.918	0.941	-0.222	0.923	0.949	0.894	0.831
FB2A	-0.448	0.912	0.918	1.000	0.947	-0.301	0.798	0.977	0.947	0.855
AHLA	-0.439	0.863	0.941	0.947	1.000	-0.279	0.869	0.952	0.870	0.787
TL0	0.971	-0.124	-0.222	-0.301	-0.279	1.000	-0.290	-0.310	-0.361	-0.310
NVD	-0.465	0.849	0.923	0.798	0.869	-0.290	1.000	0.887	0.846	0.711
ADB	-0.482	0.924	0.949	0.977	0.952	-0.310	0.887	1.000	0.960	0.839
NFC	-0.509	0.915	0.894	0.947	0.870	-0.361	0.846	0.960	1.000	0.834
ABL	-0.447	0.896	0.831	0.855	0.787	-0.310	0.711	0.839	0.834	1.000

"1 month" is set by default for the calculation in the Correlation Matrix (for up to 10 securities). The exact period is also shown on the right side above the matrix.

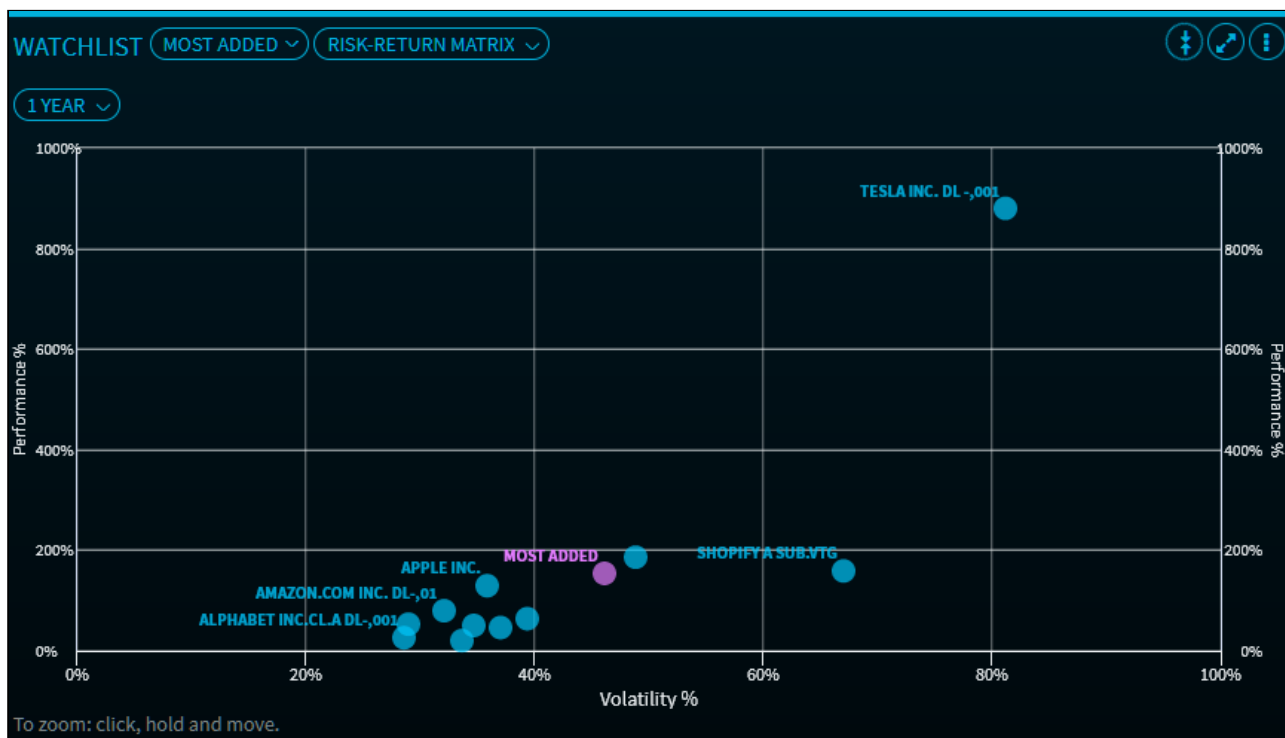
Use the drop-down list above the Correlation Matrix to select other calculation periods.

- 1 WEEK
- 1 MONTH
- YEAR TO DATE
- 1 YEAR
- 2 YEARS
- 3 YEARS
- 5 YEARS
- 10 YEARS
- CUSTOM

The correlation matrix integrated in the "Watchlist" widget corresponds to the matrix in the **"Correlation Matrix" widget including the settings** that you open with the "Settings" command from the widget menu. See also [Correlation Matrix](#).

"Risk-Return Matrix" view

Select the "Risk-Return Matrix" view to show the securities included in the watchlist as a risk-return matrix.



The (highlighted) value for the complete watchlist (in the example: "My Watchlist I") is calculated on the basis of a simple average of the individual values.
You can use the settings for this view to show and hide the mean value.

The risk-return matrix integrated in the "Watchlist" widget corresponds to the table in the **"Risk-Return Matrix"** widget, see [Risk-Return Matrix](#).

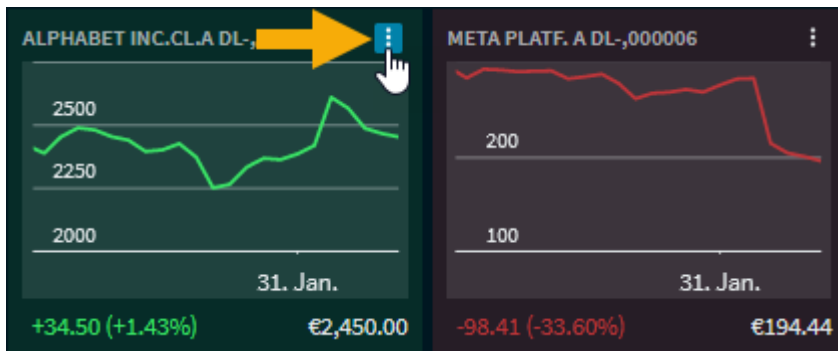
"Chart Gallery" view

Select the view "Chart Gallery" in the view to display the securities in the watchlist as individual charts in a Chart Gallery.



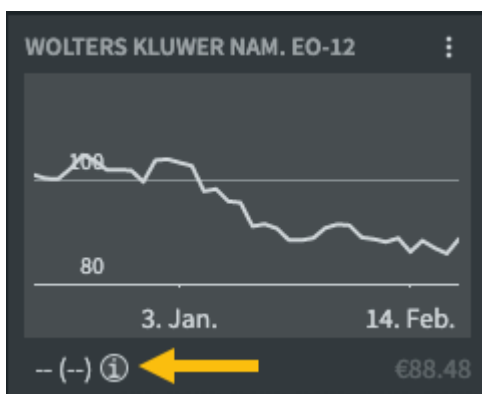
In the Chart Gallery, you can see the chart for each security in the watchlist, including security name, price and absolute and percentage price development over the period. Charts of securities with positive price development are shown in green, those with negative price development in red.

By using the drop-down lists above the Chart Gallery and the "Instrument search" icon, you have the usual option of adding instruments or selecting the period.



For each security, the familiar widget menu is available at the top right of the individual chart for further navigation.

If the currently selected time interval is not completely available for a security in the Chart Gallery (for example, for newly issued securities), the chart appears dimmed. A corresponding info icon then appears under the chart, the text "Available quote history differs from requested period" is displayed when pointing to the icon:



By using the [Widget settings](#), you can also make further configurations for this view, for example, show details on the securities.

Example: Show details of the securities



"Performance tiles" view

In many widgets of Infront Investment Manager, you can display securities lists in the "Performance tiles" view, including the "Watchlist" widget. Select the "Performance tiles" view from the second drop-down list in the upper part of the widget.



All securities in the current watchlist are shown as individual "Performance tiles".

In the "Tile view" view, you can select an evaluation period for the "Tiles" via a selection list for the securities, similar to the "Performance Tile" ("Mini Quote") widget.



The following time periods are available for selection:

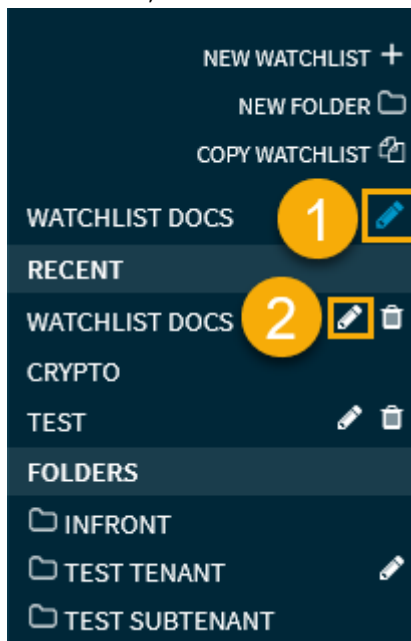
- Performance Today (default setting)
- 1-Week Performance
- 1-Month Performance
- Performance Current Year
- 1-Year Performance
- 3-Year Performance
- 5-Year Performance

You can also add securities in this view by using the "Instrument search" icon. For more information, see [Add security to a watchlist](#).

5.55.10 Edit watchlist

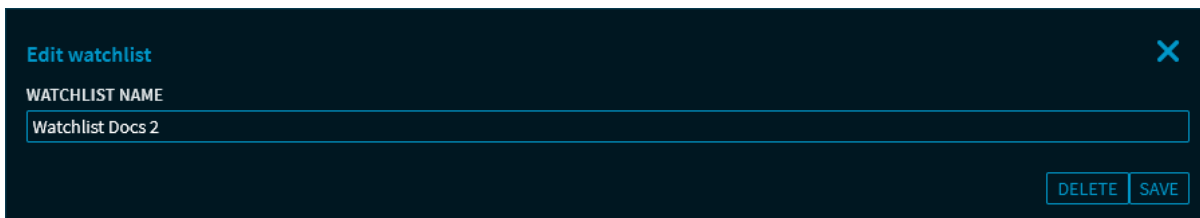
You can always rename the watchlists. To do this, follow these steps:

1. Go the "Watchlist" widget.
2. Open the menu to select the watchlist.
3. In the menu, click the "Edit watchlist" icon to the right of the watchlist or folder name.



In edit mode, the icons for editing and deleting now appear next to the watchlist entry.

4. Click the "Edit" icon next to the watchlist entry.
5. Then change the name of the watchlist in the "Edit watchlist" dialogue window that appears in the "Watchlist name" field.



If you want to publish the watchlist, enable the "Public watchlist" checkbox.

6. Confirm the changes with the "Save" button.
The changes in the watchlist are saved and displayed in the widget.

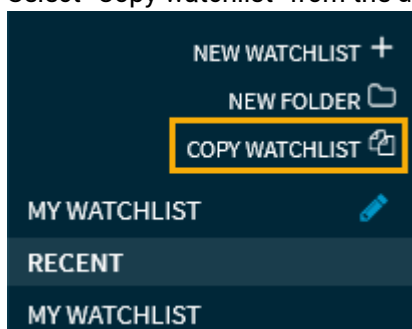


You cannot edit public watchlists of other users.

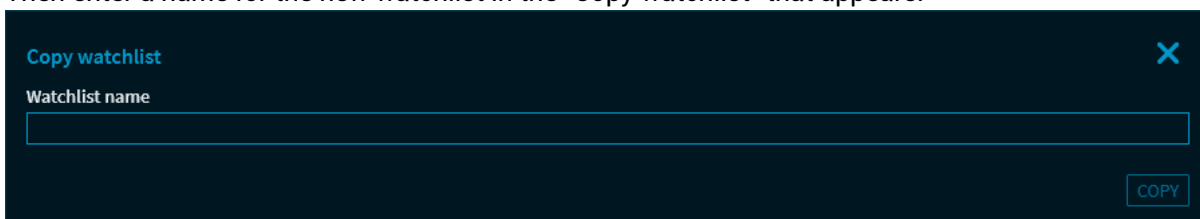
5.55.11 Copy watchlist

You can copy the currently open watchlist. To do this, follow these steps:

1. Select "Copy watchlist" from the drop-down list.



2. Then enter a name for the new watchlist in the "Copy watchlist" that appears.



3. Confirm the entry with the "Copy" button.
This opens new watchlist in the widget, where you can edit it further.



You can also copy public watchlistlists to use these copies as private watchlistlists.


5.55.12 Import watchlist

You can import appropriately formatted CSV files (for example, watchlists previously exported in this format) as watchlists. When importing, you can decide whether you want to create a new watchlist based on the imported data or add the securities to an existing watchlist.

Import CSV file as new watchlist

To export a CSV file as a new watchlist:

1. Go the "Watchlist" widget.

2.  Then select the "CSV" button in the "Import" area of the widget menu.
This opens the "Import CSV" dialogue window.



3. Select a CSV file by using the "Select file" button or drag and drop it into the "Drop file here" input field.



If there are securities with outdated prices in the securities to be imported, then you can - analogous to the function in the general search - also import the securities ignored by default during the import without a current price via the checkbox "Include securities without first price or with outdated prices".

Information appears in the dialogue window after the successful upload has been completed.

4. Then click the now enabled "Continue" button.

The uploaded data is displayed in the dialogue window in the "Imported data" area.

IMPORT CSV

Upload

Imported data

✕

No	Security	Instrument ID	ISIN	WPK	Trading Venue	Currency
1	AIRBUS SE	938914.ETR	NL0000235190	938914	Xetra	EUR
2	SPACEANDPEOPLE	SAL.UK	GB00B058DS79	A0EALP	London	GBX
3	VIASAT INC. DL-,0001	908189.FFM	US92552V1008	908189	Frankfurt	EUR
4	DAIMLER AG NA O.N.	710000.ETR	DE0007100000	710000	Xetra	EUR
5	SAP SE O.N.	716460.ETR	DE0007164600	716460	Xetra	EUR

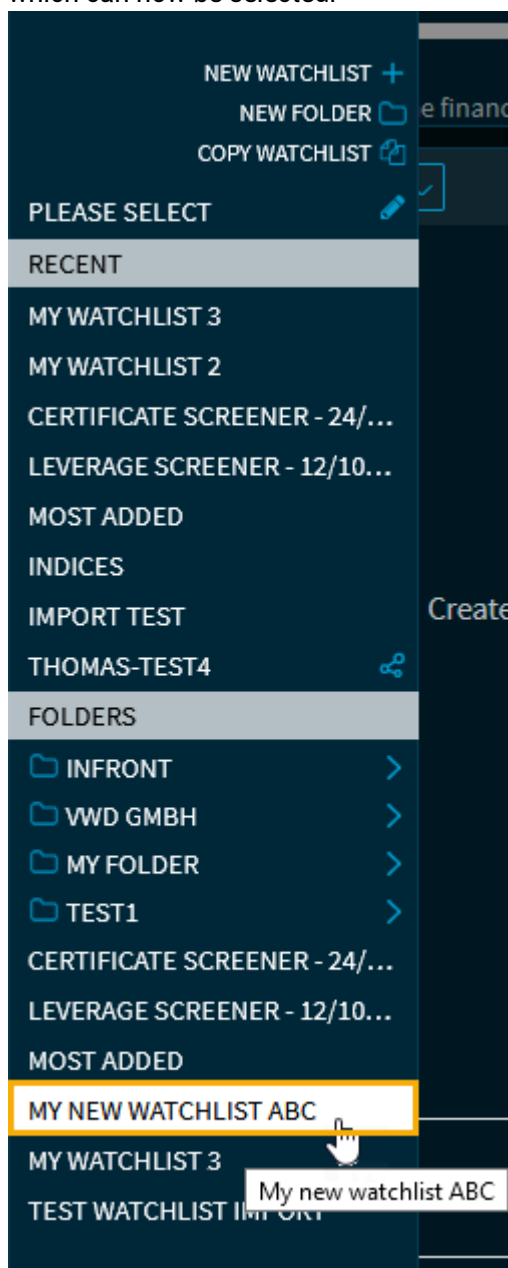
☒ New watchlist
 Watchlist name

CREATE NEW WATCHLIST

By default, the import into a new watchlist is now suggested, therefore the "New watchlist" checkbox is selected. Enter the corresponding name of the new watchlist in the "Name of watchlist" input field. Click the "Create new watchlist" button.

This closes the "Import CSV" dialogue window and creates the watchlist under the selected name,

which can now be selected.



In addition to INSTRUMENTID or SYMBOL and the ISIN, the WKN in CSV files is also recognised as an alternative symbol. The values for CURRENCY and EXCHANGE or MIC (trading venue) are also imported.

If you have saved notes in the watchlist, these will also be imported.

Add CSV file to existing watchlist

To add a CSV file to an existing watchlist:

1. Open a "Watchlist" widget with the watchlist to be expanded.
2. Proceed in the same way as described above (steps 2-4).
3. Then clear the "New watchlist" checkbox when displaying the imported data and select the now visible "Add to watchlist" button.

IMPORT CSV

Upload

Imported data

No	Security	Instrument ID	ISIN	WPK	Trading Venue	Currency
1	ARGENTINIEN 96/03	134090.FFM	DE0001340909	134090	Frankfurt	DEM
2	INTERSHOP OPA.20/25 MO	A254UA.FFM	DE000A254UA1	A254UA	Frankfurt	EUR
3	DAIMLER AG NA O.N.	710000.ETR	DE0007100000	710000	Xetra	EUR
4	DZ ZinsFix: Basiswert EURO STO XX 50	DGE0SC.FFMST	DE000DGE0SC1	DGE0SC	Frankfurt Zertifikate	EUR
5	DAX PERFORMANCE-INDEX	846900.ETR	DE0008469008	846900	Xetra	XXP
6	EUR/USD SPOT RATE	EUR.FXVWD	EU0009652759	965275	Forex vwd	USD
7	ALLIANZ SE NA O.N.	DE0008404005.TRADE	DE0008404005	840400	Tradegate	EUR
8	UniRak	DE0008491044.FONDS.EUR	DE0008491044	849104	Investmentfonds	EUR
9	DWS Global Water LD	DE000DWS0DT1.FONDS.EUR	DE000DWS0DT1	DWS0DT	Investmentfonds	EUR

☐ New watchlist

ADD TO WATCHLIST

This closes the "Import CSV" dialogue window and the securities are added to the currently open watchlist.

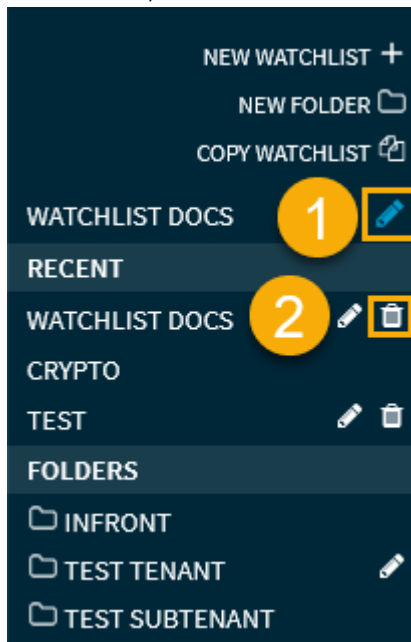
5.55.13 Delete watchlist

You can also delete your watchlist.

To do this, follow these steps:

1. Go the "Watchlist" widget.
2. Open the menu to select the watchlist.

3. In the menu, click the "Edit watchlist" icon to the right of the watchlist or folder name.



In edit mode, the icons for editing and deleting now appear next to the watchlist entry.

4. Click the delete icon next to the watchlist entry.
5. Confirm the "Are you sure to delete the watchlist?" with "Yes".
The watchlist is deleted.



You cannot delete public watchlists of other users.

5.55.14 Settings in the "Watchlist" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS
General settings
Default columns
Free text columns
Performance columns

GENERAL SETTINGS ✕

Push : ☒ **ENABLED**

Sort interval (for table views only) : DISABLED ▾

Clear filter on list change : ☐ **ENABLED**

RESET SAVE SAVE & CLOSE

In the "Watchlist settings" dialogue window, you can first select the area on the left side for which you want to configure your settings:



Note that not all settings described below are possible for globally available watchlists, for example, the configuration of free-text columns.

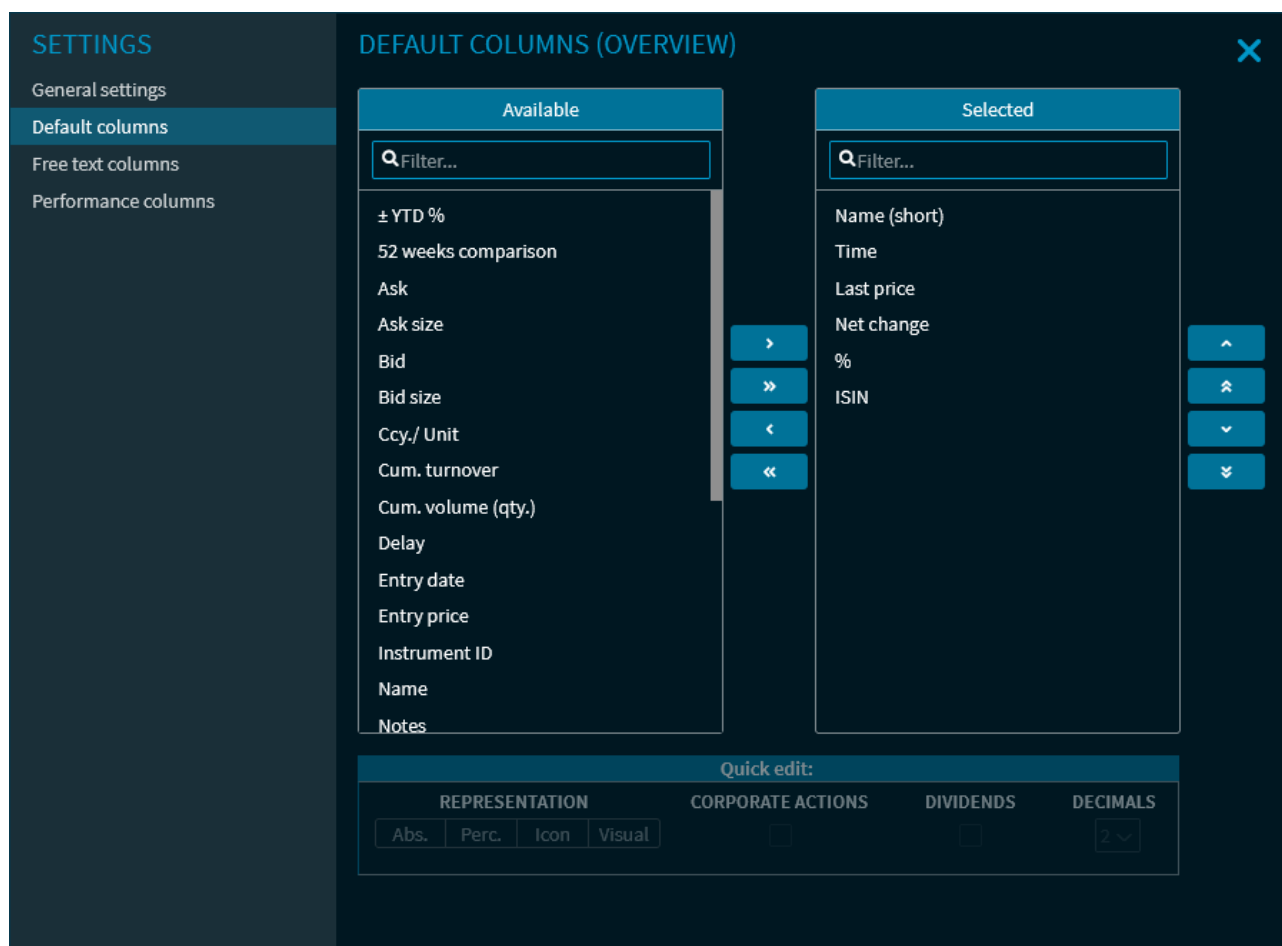
"General" area

In the "General" area, you can make the following settings:

Field	Description
Push	Here, you can use the "enabled" checkbox to enable or disable the push data feed.
Sort interval (only for table views)	<p>If necessary, select the time interval for updating the table sorting in the widget here. The following periods are available:</p> <ul style="list-style-type: none"> • Inactive (default setting) • 5 seconds • 15 seconds • 30 seconds • 45 seconds • 60 seconds

Field	Description
Clear filter on list change	Deselect this default setting to keep filter conditions when switching to another list.

"Default columns" area



In the "Default columns" area, select the table columns you want to display in the overview table in the watchlist. Hide the less important columns.

See also [Show and hide columns of the widgets via the settings](#).

You can add columns from the "All Fields" widget by drag & drop and also delete them from the watchlist. [Columns added](#) from the "All fields" widget are indicated by the "Delete" icon next to the column name:

Example:

SETTINGS

- General settings
- Default columns**
- Free text columns
- Performance columns

DEFAULT COLUMNS (OVERVIEW)

Available

- ± YTD %
- 52 weeks comparison
- Ask
- Ask size
- Bid
- Bid size
- Ccy./ Unit
- Cum. turnover
- Cum. volume (qty.)
- Delay
- Entry date
- Entry price
- Instrument ID
- Name
- Notes



>

>>

<

<<

Selected

- Name (short)
- Time
- Last price
- Net change
- %
- ISIN
- Year's high 
- Year's low 

^

⬆

⬇

⬇

Quick edit:

REPRESENTATION

CORPORATE ACTIONS

DIVIDENDS

DECIMALS

Abs.

Perc.

Icon

Visual

2

Click the "Delete" icon to mark the columns for deletion. To confirm the deletion, click the "Save changes" buttons. This deletes the added columns from the watchlist.

"Free text columns" area

SETTINGS
General settings
Default columns
Free text columns
Performance columns

FREE TEXT COLUMNS

ADD COLUMN

NAME
Test1

SETTINGSDELETE

NAME
Test2

SETTINGSDELETE

SAVE & CLOSE

In this area, you can configure individual columns for the overview table of the watchlist.

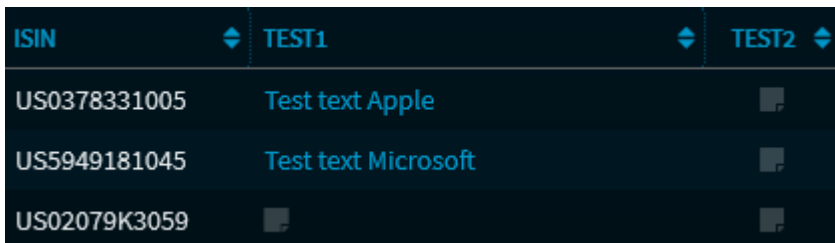
To do this, follow these steps:

1. On the left side of the "Watchlist settings" dialogue window, select the "Free text columns" area.
2. Click the "Add column" button.
3. In the "Name" input field, enter a name for the column header of the first custom column.
4. Then click the "Settings" button for this column.
5. Configure the new column. The table below contains descriptions of the individual setting options.
6. Then click the "Save" button. (Use the "Back" button to close the settings of the free text column without saving any changes you may have made.)
7. If you want to add more columns, click the "Add column" button in the "Free text columns" area and proceed in the same way.

You can delete your custom columns by using the corresponding "Delete" button.

The settings of the custom free text columns in detail:

General settings	
Field	Description
Name	Enter a meaningful name for the free text column.

Tooltip	Enter a descriptive tooltip. This is displayed when you point to the column header with the mouse.
Configuration	
Field	Description
Column width	Enter the column width in pixel. The default setting is "200".
Column view	<p>Select the view type for the column:</p> <ul style="list-style-type: none"> Text (default setting) This setting displays the text in the column. Icon With this setting, the "Note" icon is displayed in the column, and the text is only displayed when you point to it with the mouse. <div> <p>Example: Watchlist with two free text columns</p>  <p>In this example, the "Test1" column is of the "Text" type and has a width of "100", the "Test2" column is of the "Icon" type and has a width of "50". To edit the texts, click on them and make your changes in the text window that appears. If you point the mouse to the cell, a delete icon will also appear, allowing you to quickly remove the text.</p> </div>

"Performance columns" area

SETTINGS

×

Push:

☒ ENABLED

Time & Sales limit (1-12):

12

Order book limit (1-10):

10

Order book volumes:

☒ ENABLED

Order book orders:

☐ ENABLED

SAVE CHANGES

✓ All details about showing performance columns are described in [Settings in the "Portfolio" widget](#).

Settings for "Chart Gallery" view

In the "Chart Gallery" area, you can make the following settings:

Field	Description
Push	Here, you can use the "enabled" checkbox to enable or disable the push data feed.
Show details	Select this checkbox to display more details in the individual charts of the Chart Gallery. The following data is shown: <ul style="list-style-type: none"> • Security name • ISIN • WKN • Trading venue
Start date	Use the integrated calendar to specify the start date.
End date	Use the integrated calendar to specify the corresponding end date.

Settings for additional views of the watchlist

You have various setting options depending on the view selected (for example, "[Correlation Matrix](#)") in the widget. If, for example, you have opened a watchlist in the "Gainers & Losers" view, you can also define the number of securities to be displayed here.

For more information about the widget settings, see [Commands in the widget menu](#).

5.56 Wealth Portal

With this (optional) widget you can access the same portfolios that are available in your Infront PMS. The widget can also be grouped with other widgets in a dashboard in order to be able to analyse individual items in more detail.

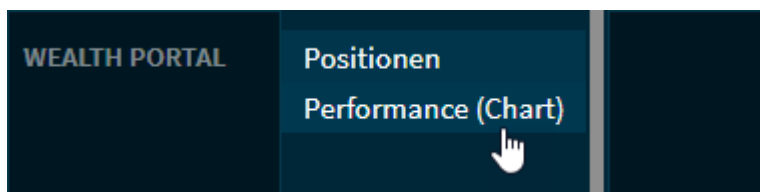
The instrument menu is also available to call up dashboards or PDF portraits directly, for example.

WEALTH PORTAL DEMO PORTFOLIO 2023 INVESTMENT CATEGORIES										
DEMO PORTFOLIO 2023 PUSH										
			TOTAL VALUE	YEAR TO DATE	MONTH TO DATE	DAY TO DATE				
			953,178.61 EUR	-5.12% -51,445.14 EUR	-2.19% -21,381.18 EUR	-1.58% -15,258.31 EUR				
POSITIONS	ISIN	WEIGHT	VALUE (A1, ...)	VALUE (A1, ...)	CURRENCY	COST PRICE	QUOTE	QUOTE (ST, ...)	AMOUNT	PERFORM...
▼ Cash		+29.78%	290,745.87	289,101.07						
▼ Cash (accounts)		+29.78%	290,745.87	289,101.07						
CHF		+5.03%	49,074.33	49,168.42	CHF		1.00	1.00	47,268.78	±0.00%
EUR		+14.80%	144,528.37	144,528.37	EUR		1.00	1.00	144,528.37	±0.00%
USD		+9.95%	97,143.18	95,404.28	USD		1.00	1.00	103,977.20	±0.00%
▼ Bonds		+49.39%	482,198.08	458,972.31						
▼ Bonds FX		+29.65%	289,464.51	269,975.36						
PARAGON IHS 17/27	DE000A2...	+12.53%	122,281.81	106,000.00	EUR	76.00	54.932	53.00	200,000.00	-27.72%
AT + T 14/44	US00206...	+17.13%	167,182.70	163,975.36	USD	87.71808	88.392	89.355	200,000.00	+0.77%
▼ Other Fixed Income		+19.74%	192,733.58	188,996.95						
US TREASURY FRN	US912810...	+19.74%	192,733.58	188,996.95	USD	103.23	102.79688	102.99	200,000.00	-0.42%
▼ Equities		+8.77%	85,580.10	86,657.74						
▼ Equity Switzerland		+4.35%	42,421.60	42,377.99						
ABB LTD N	CH00122...	+4.35%	42,421.60	42,377.99	CHF	35.4695	40.82	40.70	1,001.00	+15.08%
ROCHE GS	CH00120...	±0.00%	0.00	0.00	CHF		231.00	235.90		±0.00%
▼ Equity Europe ex Switzerland		+4.40%	43,158.50	44,279.75						

Last calculation of portfolio: Mar 6, 2024. Actual calculations are a best effort indication derived from matches in your entitlements.

5.56.1 Views in the "Wealth Portal" widget

In the "Wealth Portal" widget you can switch between the "Positions" (default), "Performance (Chart)" and "Chart gallery" views via the view selection list at the top of the widget.



You can display a benchmark in the performance chart.

5.56.2 Settings in the "Wealth Portal" widget

Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

You can use the [Column configurator](#) in the "Settings" dialogue to configure the view.

5.57 Warrants Calculator

With the "Warrant Calculator", you can simulate various scenarios of the performance of a warrant. The "Warrants Calculator" widget provides a comprehensive overview of all important data, simulation results and key figures.



See also:

- [Elements in the Warrants Calculator](#)
 - [Select security](#)
 - ["Master data" area](#)
 - ["Simulation" area](#)
 - ["Chart" area](#)
 - ["Sensitivities" area](#)
 - ["Price"](#)

5.57.1 Elements in the Warrants Calculator

The warrant calculator consists of the elements described in the following subsections.

See also:

- [Select security](#)
- ["Master data" area](#)
- ["Simulation" area](#)
- ["Chart" area](#)
- ["Sensitivities" area](#)
- ["Price"](#)

Select security

In the upper left corner of the widget, you can select an instrument.



If you have selected a warrant here via the quick search in the menu, its name is displayed at the top of the widget.

You can also drag warrants from other widgets and drop them in the Warrant Calculator.

"Master data" area

In the "Master data" area, you find the most important information about a warrant:

Field	Description
Type	Call or put.
Strike price	The strike or exercise price of the warrant.
Subscription ratio	The subscription ratio of the warrant to the underlying. The subscription ratio is the ratio of the underlying quantity to one warrant, that is, the percentage of the underlying that a certificate can be obtained with.
Issuer	The institute that issued the warrant.
Issue date	The date when the warrant was traded for the first time.
Last trade	The date when the warrant was traded last.
Maturity date	The maturity date of the warrant.
Remaining term	The remaining number of days to maturity.
Symbol	The symbol of the warrant.
ISIN	The ISIN (International Securities Identification Number) of the warrant.
WKN	The German security identification number of the Warrant.

"Simulation" area

In the "Simulation" area, select the values in the "Simulation" column to calculate and display the possible development of the warrant.


The "Current" column allows you to directly compare the values.

See also:

- [Select values for the simulation](#)

Select values for the simulation

In the "Simulation" column, specify the scenario for the warrant that you want to compare to the current values. Enter the values that you expect or use the slider to set them. You can select the following values for the simulation:

Field	Description								
Last price (warrant)	The current and simulated price of the warrant.								
Price of underlying	The current and simulated price of the warrant.								
Impl. Volatility	The current and simulated implied volatility.								
Interest	<div>The current and simulated risk-free market interest rate.</div> <div>To change the interest rate by using the slider, you first need to enter an initial value in the input field to the right.</div> <table><tr><td>Impl. volatility</td><td>19.4178</td><td><div>0%</div></td><td><div>19.737</div></td></tr><tr><td>Interest rate</td><td>0.0000 %</td><td><div>5%</div></td><td><div>1.050</div></td></tr></table>	Impl. volatility	19.4178	<div>0%</div>	<div>19.737</div>	Interest rate	0.0000 %	<div>5%</div>	<div>1.050</div>
Impl. volatility	19.4178	<div>0%</div>	<div>19.737</div>						
Interest rate	0.0000 %	<div>5%</div>	<div>1.050</div>						
Dividend yield	<div>Current and simulated dividend yield of the underlying.</div> <div>The dividend yield results from the estimated dividends per share (usually, two business years in the future), divided by the current price multiplied by 100.</div> <div>To change the dividend yield by using the slider, you first need to enter an initial value in the input field to the right.</div> <table><tr><td>Interest rate</td><td>0.0000 %</td><td><div>6%</div></td><td><div>1.060</div></td></tr><tr><td>Dividend yield</td><td>0.0000 %</td><td><div>4%</div></td><td><div>4.160</div></td></tr></table>	Interest rate	0.0000 %	<div>6%</div>	<div>1.060</div>	Dividend yield	0.0000 %	<div>4%</div>	<div>4.160</div>
Interest rate	0.0000 %	<div>6%</div>	<div>1.060</div>						
Dividend yield	0.0000 %	<div>4%</div>	<div>4.160</div>						
Calculation date	Use the integrated calendar to select the date for the simulation. The current date is set by default.								
Exchange rate	The current and simulated price exchange rate.								
 Reset calculation	Click this icon in the "Simulation" column header to reset the value entered.								

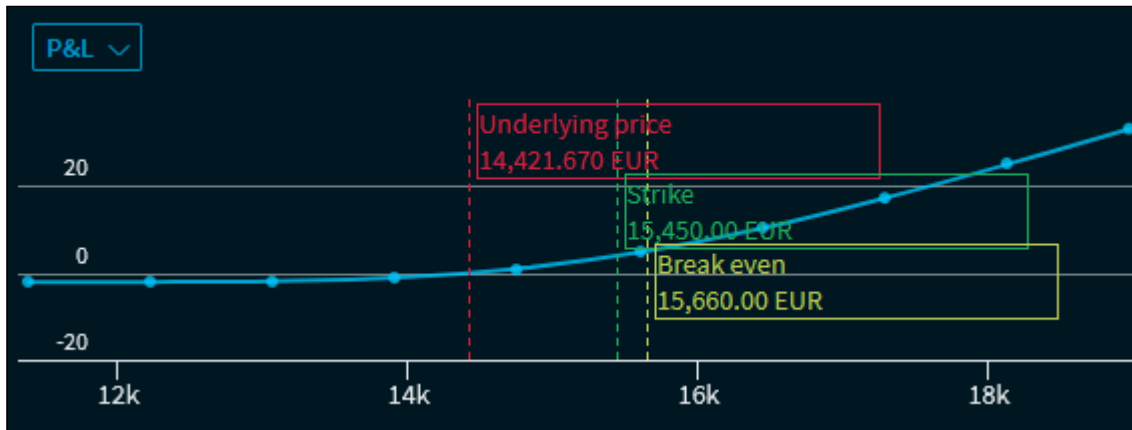
The result of the simulation is shown directly on the right side of the widget - in the chart as well as the calculated figures.

"Chart" area

Here, you see the visualisation of the simulation. Use the drop-down list to switch the view.

In the drop-down list, you find the charts for the following key figures:

- Profit/loss (P&L)



In this chart, you see the expected profits and losses as well as the changes of the fair value of the warrant (here, of the call) when the underlying price changes. The vertical line symbolises the strike price and the break even.

- Delta
- Gamma
- Vega
- Rho
- Theta

For more information about indicators, see the [Stock exchange glossary](#).

"Sensitivities" area

The following key figures are calculated in the "Sensitivities" area:

- Leverage
- Delta
- Gamma
- Omega
- Vega
- Theta
- Rho

"Price

The following key figures are calculated in the "Sensitivities" area:

- Fair value
- Premium
- Premium p.a.
- Intrinsic value
- Moneyiness
- Parity
- Remaining term (years)

5.58 Fair Value Calculator (Share)

With the "Fair Value Calculator (Share)" widget, you estimate the value of shares according to the "discounted cash flow" valuation model ("DCF method"). The valuation model uses the company's balance sheet value to take into account future income and earnings growth. The model estimates the company's intrinsic value, based on the parameters selected below.

FAIR VALUE CALCULATOR (SHARE)
Q
SAP SE O.N.

ISIN: DE0007164600 | WKN: 716460

The discounted cash flow valuation model combines the company's balance sheet value, future business earnings and earnings growth. The valuation model estimates the company's intrinsic value, based on the factors selected below.

INPUT PARAMETERS

EARNINGS PER SHARE ⓘ	GROWTH OVER X YEARS ⓘ
1.00	10
TERMINAL GROWTH RATE IN % ⓘ	GROWTH RATE IN % ⓘ
3.00	5.00
DISCOUNT RATE IN % ⓘ	YEARS OF TERMINAL GROWTH ⓘ
4.00	5

FAIR VALUE CALCULATION

FAIR VALUE ⓘ	SHARE PRICE IN EUR
15.8898	111.02
GROWTH VALUE ⓘ	TERMINAL VALUE ⓘ
10.5444	5.3454

Real time | Update: 8 Feb 2023, 09:53:27

First select the share to be valued viaby using the instrument search in the top left of the widget. In the "Input parameters" area, enter your values to see the results in the "Fair Value Calculation" area.

The individual fields mean:

Field	Description
Earnings per share	Enter the earnings per share in this input field. Default value for earnings per share (without non-recurring items) is the trailing 12 months GAAP earning.
Growth over x years	Enter the number of years you expect during the growth stage. The default is 10 years.
Terminal growth rate in %	Enter the terminal growth rate in percent in this input field. After the growth stage, it is reasonable to set the terminal growth rate at the inflation rate. The terminal growth rate must be smaller than the discount rate to make the calculation converge.

Field	Description
Growth rate in %	<p>Enter the average annual growth rate in percent.</p> <p>The default value for the growth rate is the average earnings per share (EPS) without non-recurring items (NRI) growth rate of the past 10 years. If this growth rate is higher than 20% a year, it is set to 20%. If this growth rate is less than 5%, it is set to be 5%.</p>
Terminal growth in years	<p>Enter the number of years to calculate the terminal value. The value after this is considered zero.</p> <p>The default is 5 years.</p>
Discount rate in %	<p>Enter the discount rate in percent.</p> <p>A reasonable discount rate assumption should be at least the long term average return of the stock market, which is about 11%, because investors can always invest passively in an index fund and get an average return.</p> <p>Some investors use their expected rate of return, which is also reasonable. A typical discount rate can be anywhere between 10% and 20%.</p>
Fair value	The fair (intrinsic) value of the share determined as the sum of future earnings at the growth stage and the terminal value.
Growth value	The cumulative earnings during the growth stage discounted to current using the discount rate.
Share price	The current price of the security.
Terminal value	The cumulative earnings during the terminal stage discounted to current using the discount rate.
DISCARD CHANGES	If you have changed one or more input parameters, then the "Discard changes" button will appear at the top of the widget, allowing you to reset the settings to their default values.



Point to the info icons of the parameters to view information about the fields in pop-up windows.

5.59 Index Members

In the "Index Members" widget, all index members of an (equity) index such as Dow Jones or Hang Seng are shown in a table or tile view.

INDEX MEMBERS

CAC 40 ▾

DEFAULT TRADING VENUE ▾

TABLE ▾

	WKN	ISIN	NAME (SHORT)	CCY	TREND	TIME	LAST PRICE	CHANGE ABS.	CHANGE %	OPEN PRICE	HIGH	LOW	CLOSE 1D	CUM. VOLUME
⌵	860206	FR0000120404	ACCOR	EUR	⬇️	11:56:45	25.34	-0.40	-1.55%	26.06	26.10	25.32	25.74	279 k
⬆️	850133	FR0000120073	AIR LIQUIDE	EUR	⬆️	11:56:45	139.90	+0.85	+0.61%	139.75	140.75	138.80	139.05	221 k
⬆️	938914	NL0000235190	AIRBUS	EUR	⬇️	11:56:52	68.25	-0.59	-0.86%	69.35	69.49	67.62	68.84	712 k
⬆️	A2DRTZ	LU1598757687	ARCELORMITTAL SA	EUR	⬇️	11:56:45	10.51	-0.09	-0.87%	10.766	10.81	10.50	10.602	2 m
⬆️	877757	FR0000051732	ATOS	EUR	⬆️	11:56:45	73.32	+0.82	+1.13%	73.10	73.32	72.62	72.50	95 k
⬆️	855705	FR0000120628	AXA	EUR	⬇️	11:56:49	16.892	-0.18	-1.08%	17.192	17.25	16.89	17.076	2 m
⬆️	887771	FR0000131104	BNP PARIBAS ACTA	EUR	⬇️	11:56:48	36.125	-0.44	-1.20%	37.00	37.355	36.025	36.565	2 m
⬆️	858821	FR0000120503	BOUYGUES	EUR	⬇️	11:56:34	33.18	-0.07	-0.21%	33.01	33.52	32.88	33.25	224 k
⬆️	869858	FR0000125338	CAPGEMINI	EUR	⬆️	11:56:45	116.30	+0.30	+0.26%	117.00	117.60	115.95	116.00	90 k
⬆️	852362	FR0000120172	CARREFOUR	EUR	⬆️	11:56:47	13.545	+0.09	+0.63%	13.53	13.60	13.40	13.46	570 k

15 min. delayed | Update: 1 Sep 2020, 12:11:53

The upper area of the widget provides the standard functions as well as drop-down lists to select the instrument, trading venue and view. In the table view of the "Index Members" widget, you find the following columns:

- WKN
- ISIN
- Name (short) (the table is sorted by this column by default)
- Currency
- Trend
- Time
- Price
- Absolute change
- Percentage change
- Open
- High
- Low
- Close
- Cum. volume (qty.)
- 52-week comparison (hidden by default)
In this column, you can see the current price compared to the 52-week low ("left edge of the bar") and 52-week high ("right edge of the bar"). A small example can be found in the arbitrage section.
- All-time high (hidden by default)
- All-time low (hidden by default)
- Cum. trades
- Sector (hidden by default)
- A-Amount (hidden by default)
- Ask (hidden by default)
- Open time (hidden by default)
- B-Amount (hidden by default)
- Bid (hidden by default)
- Trading venue (hidden by default)
- Instrument ID (hidden by default)
- Name (hidden by default)
- Close price supplement (hidden by default)
- Close time (hidden by default)
- Ticker (hidden by default)
- Cum. turnover (hidden by default)
- Trend (hidden by default)

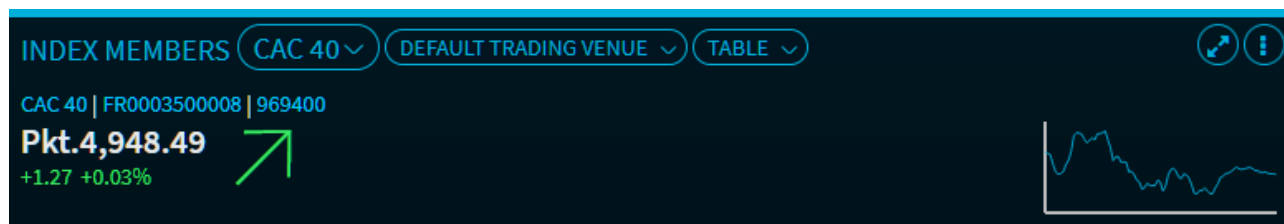
You can show or hide all columns by using the settings dialogue window of the widget.

In addition to these default columns, you can also add any other columns from the "All Fields" widget. For more information, see [Add fields from the "All fields" widget to watchlist or portfolio](#).

Indices with up to 100 securities (such as the NASDAQ 100) are displayed on one page. For more comprehensive indices, the display is then divided into 50 securities per page. Therefore, if an index contains more instruments (such as S&P 500), you can navigate through the pages using the navigation elements below the list.

You can use the second drop-down list above to define a trading venue to display the selected index. By default, you will see the "preferred trading venue" that you have set in the individual settings. The "Trading venue" column is hidden by in table view default and can be displayed via the [widget settings](#).

If the "Show index" option is enabled in the widget's settings, then you see details about the index displayed in the upper part of the widget:



5.59.1 Tile view

In the upper part of the widget, switch to the tile view by using the drop-down list.



In the tile view, the colour of the tiles indicates the current price development of the securities. In the example, most of the DAX members are red, that is, they trend lower.

5.59.2 "Chart Gallery" view

Use the view drop-down list at the top of the widget to switch to the "Chart Gallery" view, in which the index members are displayed as individual charts in a Chart Gallery.



For details of this view, see ["Chart Gallery" view](#) in the *Watchlist* chapter.

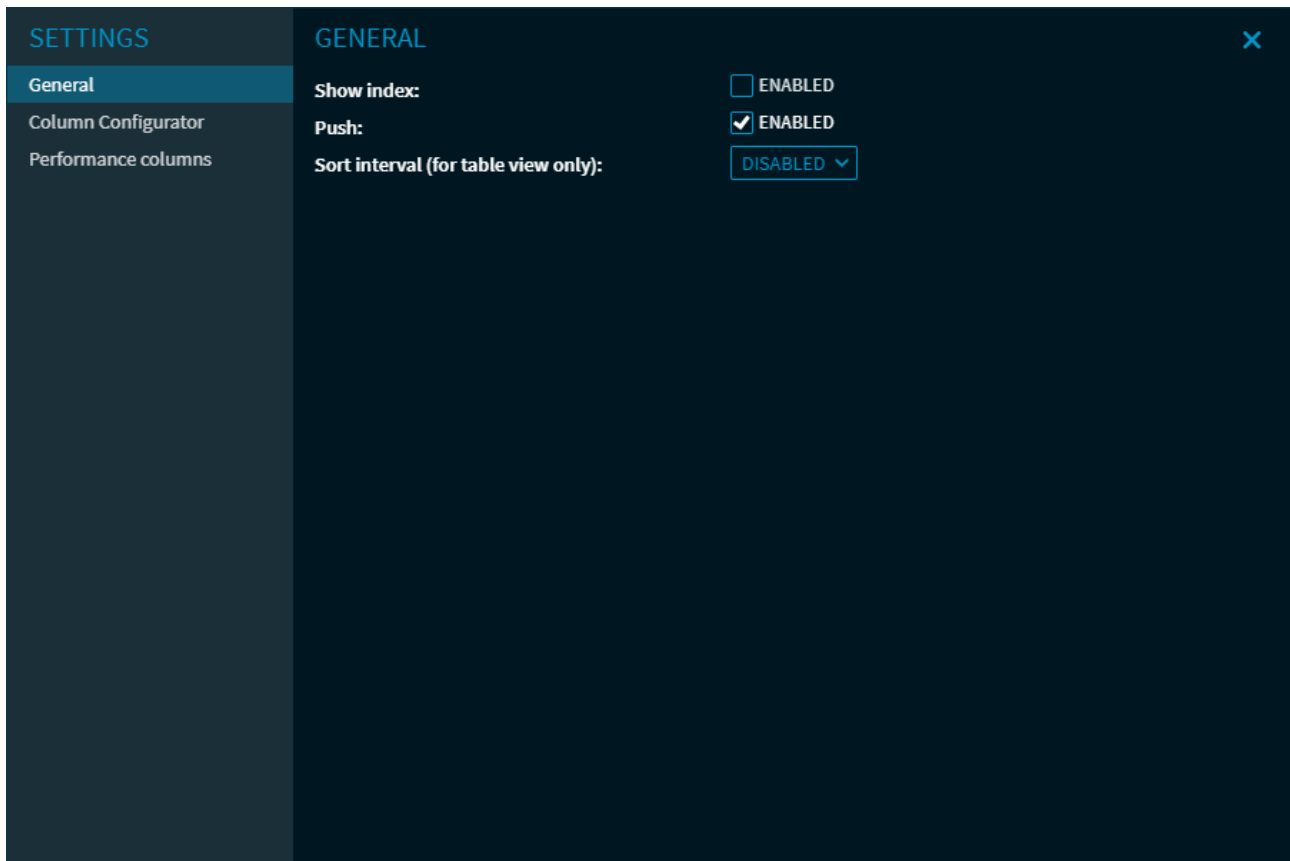
See also:

- [Settings in the "Index Members" widget](#)

5.59.3 Settings in the "Index Members" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.



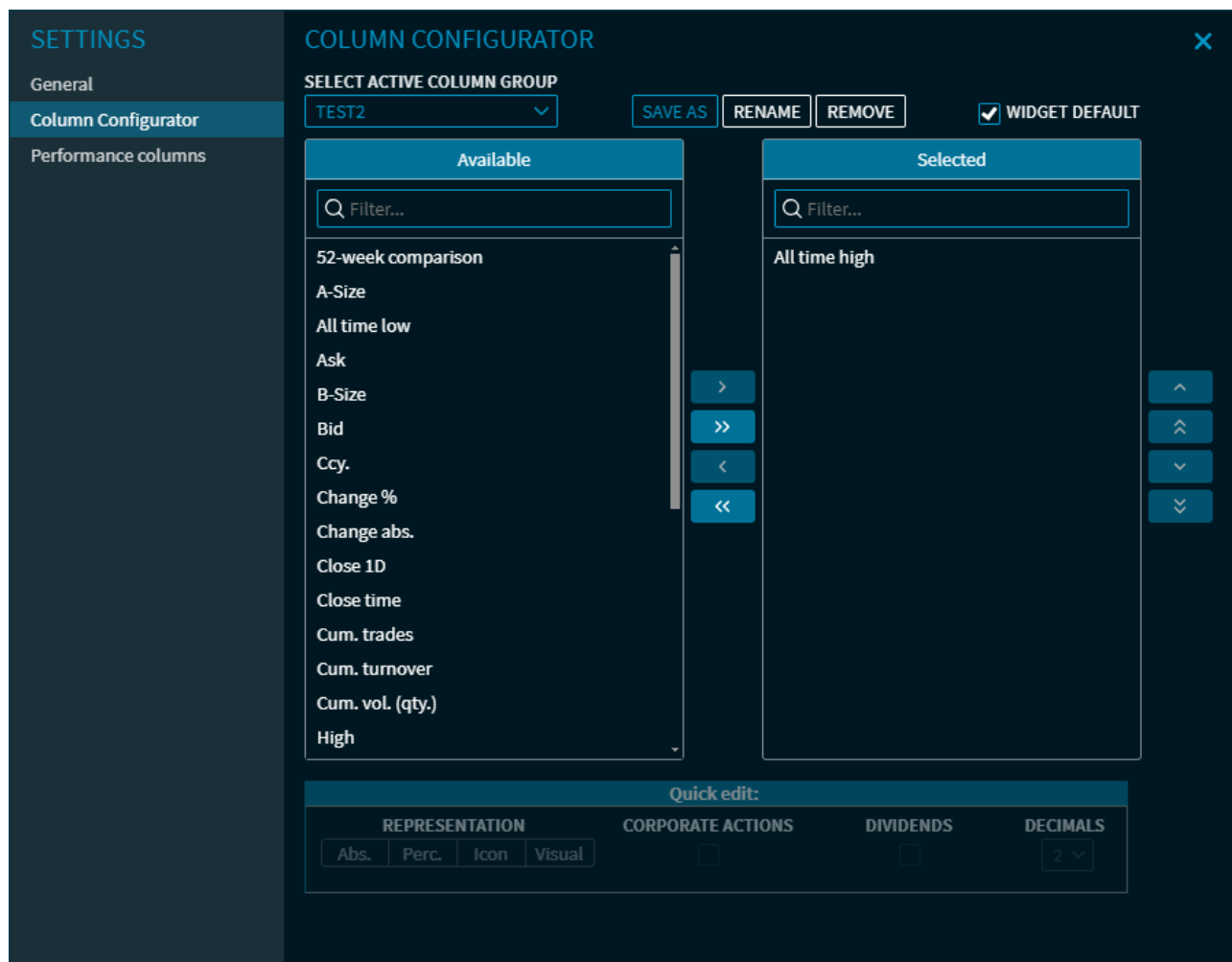
In the "Settings" dialogue window, you can first select the area on the left side for which you want to configure your settings:

"General" area

In the "General" area, you can make the following settings:

Field	Description
Show index	Enable this setting to also display the index in the widget.
Push	Here, you can use the "enabled" checkbox to enable or disable the push data feed.
Sort interval (only for table views)	<p>If necessary, select the time interval for updating the table sorting in the widget here. The following periods are available:</p> <ul style="list-style-type: none"> • Inactive (default setting) • 5 seconds • 15 seconds • 30 seconds • 45 seconds • 60 seconds

“Column configurator” area



In the "column configurator" area, select the table columns you want to display in the widget. Hide in your individual the less important columns.

See also [Show and hide columns of the widgets via the settings](#) and [Column configurator](#).

Settings in the "Portfolio" widget describes how to quickly configure default columns with performance values.

“Performance columns” area

SETTINGS
General
Column Configurator
Performance columns

PERFORMANCE COLUMN SETTINGS ✕
GENERAL
NAME
AUTOMATIC NAMING ☒
CHOSEN PERIOD 13 Jan 2024 - 13 Feb 2024
CHOOSE START DATE
☐ DATE FROM
☐ RELATIVE
☒ PERIOD STARTING FROM THE END DATE
CHOOSE END DATE
☐ DATE TO
☒ NOW
☐ RELATIVE START FROM
GO BACK IN THE PAST
MODE
REPRESENTATION
INCLUDE CORPORATE ACTIONS ☒
INCLUDE DIVIDENDS ☐
DECIMAL PLACES

BACK SAVE



All details about showing performance columns are described in [Settings in the "Portfolio" widget](#).

Settings for "Chart Gallery" view

In the "Chart Gallery" area, you can make the following settings:

Field	Description
Push	Here, you can use the "enabled" checkbox to enable or disable the push data feed.

Field	Description
Show details	<p>Select this checkbox to display more details in the individual charts of the Chart Gallery. The following data is shown:</p> <ul style="list-style-type: none"> • Security name • ISIN • WKN • Trading venue
Start date	Use the integrated calendar to specify the start date.
End date	Use the integrated calendar to specify the corresponding end date.



For more information about working with widgets, see [Commands in the widget menu](#).

5.60 ESG Risk

If activated, the widget "ESG - Risk" with sustainability data from the *Clarity AI* source for risk assessment is now available.

Use the quick search for securities and the view drop-down list in the header of the widget of your choice.

5.60.1 "Overview" view





ESG RISK APPLE INC. ▾ OVERVIEW ▾			
Environmental			 94 94%
Emissions	 91	100%	
Environmental Governance & Processes	 100	70%	
Product Footprint	 91	100%	
Resource Use	 92	100%	
Suppliers Footprint	 100	100%	
Social			 42 82%
Customers & Products	 51	100%	
Employees	 38	59%	
Supply Chain	 54	94%	
Governance			 66 97%
Corporate Ethics & Behavior	 69	100%	
Corporate Governance	 67	97%	
Partnerships, Memberships, Awards & Certifications	 75	50%	

In the default "Overview" view, you will find the security's ESG scores for the following ESG categories:

- Environment
 - Emissions
 - Resource use
- Social
 - Community and society
 - CSR and sustainability
 - Customers and products
 - Employees
 - Supply chain
- Governance
 - Corporate ethics & behaviour
 - Corporate governance
 - Partnerships, memberships, awards and certifications

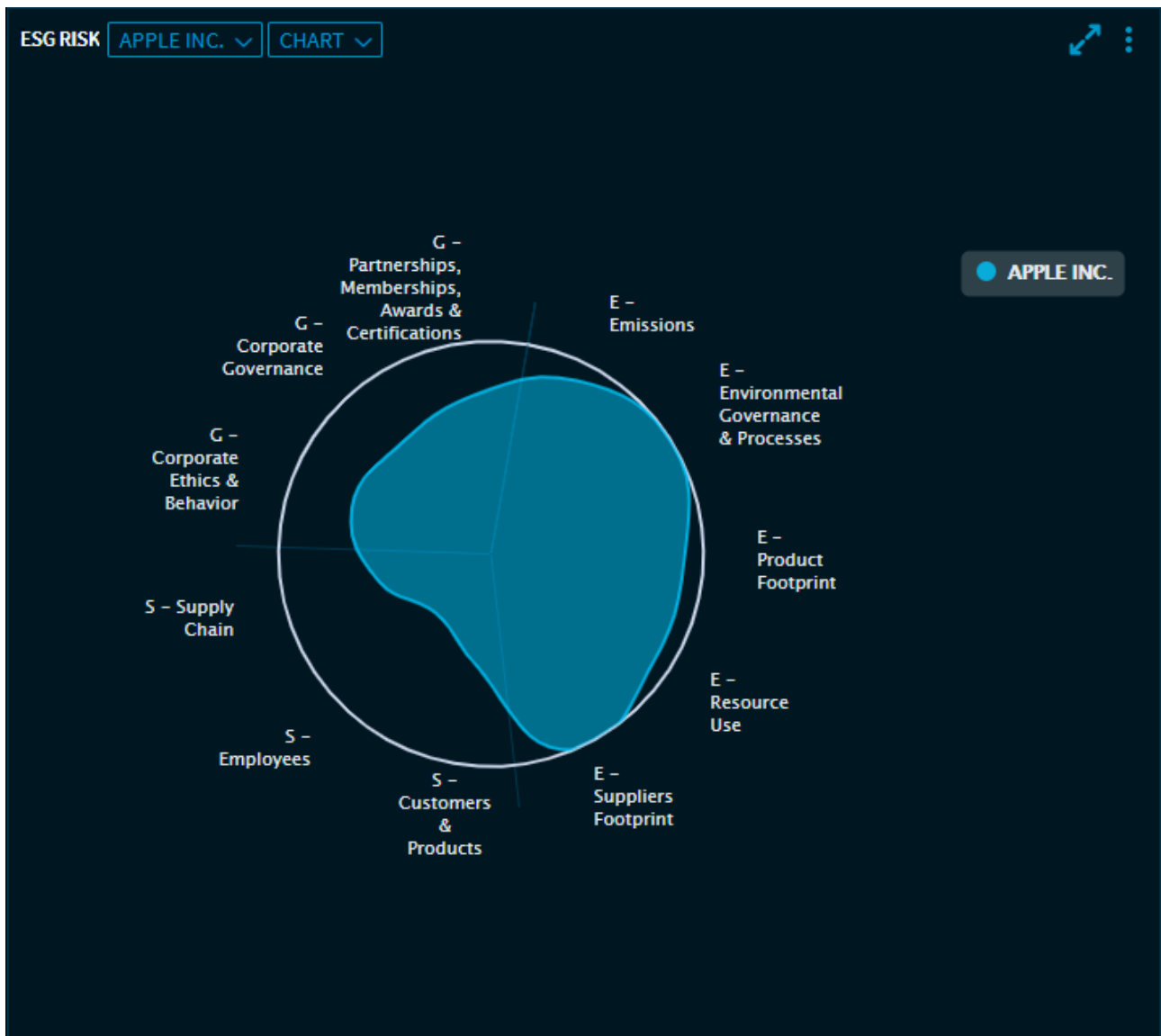
The colour of the symbols indicates the classification in the corresponding class for the ESG category mentioned.

Example: "Governance" ESG category

ESG class	Symbol
Excellent	
Good	
Fair	
Poor	

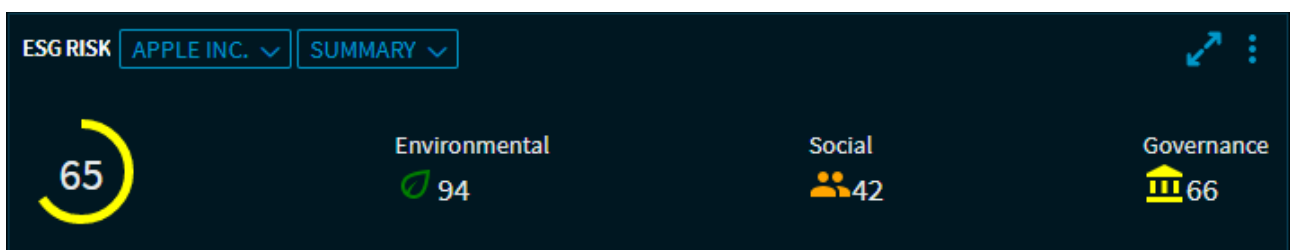
The percentages in the right-hand column show the ESG coverage.

5.60.2 "Chart" view



In the "Chart" view, you will find a detailed graphical overview of the ESG scores. The radar chart clearly shows the ESG risk scores for the individual categories. There is one axis for each category: The better values are further away from the centre.

5.60.3 "Summary" view



5.61 Related Instruments

The "Related Instruments" widget shows all instruments related to a security categorised by security type.

Related instruments can be the underlyings of certificates or funds with selected shares as their top holdings.



With the appropriate activation ratings are now shown as related instruments. They are easy to find via the LEI codes.

RELATED INSTRUMENTS MERCEDES-BENZ GRP NA O.N. ETF

Filtered by: Top 10 Holding contains MERCEDES-BENZ GRP NA O.N.

NAME (SHORT)	ID	ISIN	NAV	TRADING VENUE	TIME	CURRENCY	LAST PRICE	%
VGFD VANGUARD GERMAN...	IE00BG14...	IE00BG143G97	25.1281	INVESTMENT FUNDS	07/02/2023	EUR	25.1281	±0.00
UBS(L)FS MSCI EMU VALUE A	LU044673...	LU0446734369	39.5855	INVESTMENT FUNDS	07/02/2023	EUR	39.5855	+0.34
UBS(L)FS FACTOR MSCI EM...	LU121545...	LU1215452928	17.9665	INVESTMENT FUNDS	07/02/2023	EUR	17.9665	+0.15
SPDR II MSCI EURP CNSM ...	IE00BKW...	IE00BKWQ0C77	166.8871	INVESTMENT FUNDS	07/02/2023	EUR	166.8871	-0.33
MUL LYXOR DAILY LEVDAX ...	LU209006...	LU2090062600	11.8294	INVESTMENT FUNDS	06/02/2023	EUR	11.8294	-1.71
LYX1 DAX 50 ESG (DR) UCITS I	DE000ET...	DE000ETF9090	36.28275	INVESTMENT FUNDS	06/02/2023	EUR	36.28275	-0.89
LYX SHORTDAX® TR UETF I	LU060394...	LU0603940916	13.8916	INVESTMENT FUNDS	06/02/2023	EUR	13.8916	+0.87
LYX F.A.Z. IDX UETF I	LU065062...	LU0650624025	28.0868	INVESTMENT FUNDS	06/02/2023	EUR	28.0868	-0.86
LYX DAX® UETF I	LU037843...	LU0378438732	125.3558	INVESTMENT FUNDS	06/02/2023	EUR	125.3558	-0.84
L&G UETF L&G DAX® DLY 2...	IE00B4QN...	IE00B4QNHZ41	1.4241	INVESTMENT FUNDS	06/02/2023	EUR	1.4241	+1.74

Use the instrument search in the upper left corner of the widget drop-down list to select the security for which you want to see the related instruments.

The drop-down list allows you to select different security types from the search results.

RELATED INSTRUMENTS MERCEDES-BENZ GRP NA O.N.

Filtered by: Top 10 Holding contains MERCEDES-BENZ GRP NA O.N.

NAME (SHORT)	ID	ISIN	SHARE	VENUE
VGFD VANGUARD GERMAN...	IE00BG14...	IE00BG143G97	2	ENT FUNDS
UBS(L)FS MSCI EMU VALUE A	LU044673...	LU0446734369	14	ENT FUNDS
UBS(L)FS FACTOR MSCI EM...	LU121545...	LU1215452928	96	ENT FUNDS
SPDR II MSCI EURP CNSM ...	IE00BKW...	IE00BKWQ0C77	7832	ENT FUNDS
MUL LYXOR DAILY LEVDAX ...	LU209006...	LU2090062600	11380	ENT FUNDS

Security types and counts: BOND 14, FUTURE 96, CERTIFICATE 7832, LEVERAGE 11380, FUND 57, ETF 12

Next to each security type, you see the number of the corresponding securities of this type.

You find the following columns in the table depending on the instrument type selected:

Security type	Columns
Equity	<ul style="list-style-type: none"> • Name (short) • WKN • ISIN • Trading venue • Country • Time • Last price • % (change in percent) • Cum. volume (NAV) <p>Use Widget settings to show further columns:</p> <ul style="list-style-type: none"> • Name (WM security name) • Symbol • Delay The Arbitrage section explains the symbols in this column. • Country (short) • Absolute change • Cum. turnover • WKN
Bond	<ul style="list-style-type: none"> • Name (short) • WKN • ISIN • Maturity date • Yield [%] • Trading venue • Country • Time • Last price <p>You can show or hide further columns in the Widget settings:</p> <ul style="list-style-type: none"> • Name (WM security name) • Symbol • Delay • Absolute change • Cum. turnover • WKN • % (change in percent)

Security type	Columns
Future	<ul style="list-style-type: none"> • Name (short) • ID • ISIN • Maturity date • Trading venue • Currency • Time • Last price • % (change in percent) • Cum. volume <p>You can show or hide further columns in the Widget settings:</p> <ul style="list-style-type: none"> • Name (WM security name) • Symbol • Delay • Country • Country (short) • Absolute change • Cum. turnover • WKN
Option warrant and	<ul style="list-style-type: none"> • Name (short) • ID • ISIN • Strike price • Maturity date • Currency • Time • Last price • % (change in percent) <p>You can show or hide further columns in the Widget settings:</p> <ul style="list-style-type: none"> • Name (WM security name) • Trading venue • Symbol • Delay • Country • Country (short) • Absolute change • WKN

Security type	Columns
Certificate	<ul style="list-style-type: none"> • Name (short) • ID • ISIN • Type • Issuer • Currency • Time • Last price • % (change in percent) <p>You can show or hide further columns in the Widget settings:</p> <ul style="list-style-type: none"> • Name (WM security name) • Trading venue • Symbol • Delay • Country • Country (short) • Absolute change • WKN
Knock-out	<ul style="list-style-type: none"> • Name (short) • vwd ID • ISIN • Type • Stop Loss • Currency • Time • Last price • % (change in percent) <p>You can show or hide further columns in the Widget settings:</p> <ul style="list-style-type: none"> • Name (WM security name) • Trading venue • Symbol • Delay • Country • Country (short) • Absolute change • WKN

Security type	Columns
Funds and ETFs	<ul style="list-style-type: none"> • Name (short) • ID • ISIN • NAV • Trading venue • Time • Last price • % (change in percent) <p>You can show or hide further columns in the Widget settings:</p> <ul style="list-style-type: none"> • Name (WM security name) • Symbol • Delay • Country • Country (short) • Absolute change • WKN

The LEI (Legal Entity Identifier) is used to find shares and bonds, otherwise the underlying is used (via symbols, for example "BASF11.ETR"). For funds and ETFs, the Top 10 share holdings are also shown. For indices, the associated benchmarks are also considered.



NAME (SHORT) → ISIN

The table is sorted by the "Name (short)" column in descending order by default. You can sort the table by clicking any column header with arrow symbols.



At the start of each table row, you find a menu icon allowing you to open the corresponding security quickly in a new widget. For more information, see [Commands in the widget menu](#).

See also:

- [Settings in the "Related Instruments" widget](#)

5.61.1 Settings in the "Related Instruments" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

Push:

☒ ENABLED

Columns:

Available

Delay
Name
Ticker
WKN

Selected

Name (short)
ID
ISIN
Trading venue
Time
Currency
Last price

SAVE CHANGES

Here, you can use the checkboxes to change the following settings:

- Enable or disable the push data feed
 - Show or hide columns of the table
- For more information, see [Show and hide columns of the widgets via the settings](#).

For more information about the widget settings, see [Commands in the widget menu](#).

5.62 Historical Prices

With the "Historical data" widget, you can see detailed historical data for securities.

HISTORICAL PRICES

ADOBE INC. ▾

XETRA (EUR) ▾

1 WEEK ▾

Dividends

Corp. actions

High on 27 Aug 2020446.55

Low on 25 Aug 2020401.65

Average427.735

DATE ▾	OPEN	HIGH	LOW	CLOSE	CUM. VOLUME	TRADES
31 Aug 2020	438.50	442.95	425.35	427.20	677	53
28 Aug 2020	437.45	437.55	430.00	431.55	363	28
27 Aug 2020	441.60	446.55	431.25	434.90	1 k	50
26 Aug 2020	418.95	438.00	416.05	438.00	1 k	59
25 Aug 2020	405.85	408.00	401.65	406.10	237	23

The "Historical Prices" widget provides the following functions and data:

Field	Description
Select security	<p>Use the search field in the upper left corner of the widget to search and select a security.</p> <p>Alternatively, you can add a (new) security by dragging it from securities lists to the "Historical price data" widget.</p>
Select trading venue	Use the drop-down list to select a trading venue.
Select period	<p>Use the drop-down list to select a period for the historical data that you want to see. The following menu items are available:</p> <ul style="list-style-type: none"> • 1 week • 1 month • 6 months • Year to date • 1 year • 5 years <p>In addition, you can set a user-defined period in the "Apply custom date" area. To do this, enter a start date in the "Start date" field and/or an end date in the "End date" field using the integrated calendar.</p>
Select price	For bonds, you can switch between "Price" and "Yield".
Dividends	Turn this toggle on to include the dividends accrued in the period. The historical price data before this date changes accordingly.
Corporate actions	Turn this toggle on to include the corporate actions accrued in this period. The historical price data before this date changes accordingly.
"High" field	Shows the highest price of the selected period and the date of the highest price.
"Low" field	Shows the lowest price of the selected period and the date of the lowest price.
"Average" field	Shows the average price of the selected period.
"Date" column	<p>The price date.</p> <p>By default, the table is sorted by this column, that is, the most recent prices appear at the top of the table. You can reverse the sorting order by clicking the column header again.</p>
"Open" column	The opening price at the corresponding date.
"High" column	The daily highest price at the corresponding date.

Field	Description
"Low" column	The daily lowest price at the corresponding date.
"Close" column	The closing price at the corresponding date.
"Cum. volume" column	The trading volume at the corresponding date.
"Trades " column	The number of trades on the corresponding date.
"Currency" column	The price currency. This column is hidden by default. In the Settings dialogue window, you can hide or show all columns with historical price data.



Note that the number of data points that can be displayed in the widget is limited. If you want to list data for very long periods of time, use the CSV export, which you can start via the menu icon.

5.62.1 "Historical Prices" widget for funds

For funds for which only end-of-day data ("Investment funds" trading venue) are available, the columns displayed are adjusted accordingly. The following columns are available for these funds:

- Date
- Issue
- Redemption

Depending on the selected trading venue, further useful columns are also displayed for funds.

In addition, **Distributions** and **Corporate actions** can be taken into account here by using the switches above the table. This changes the historical price data of the fund before this date accordingly.

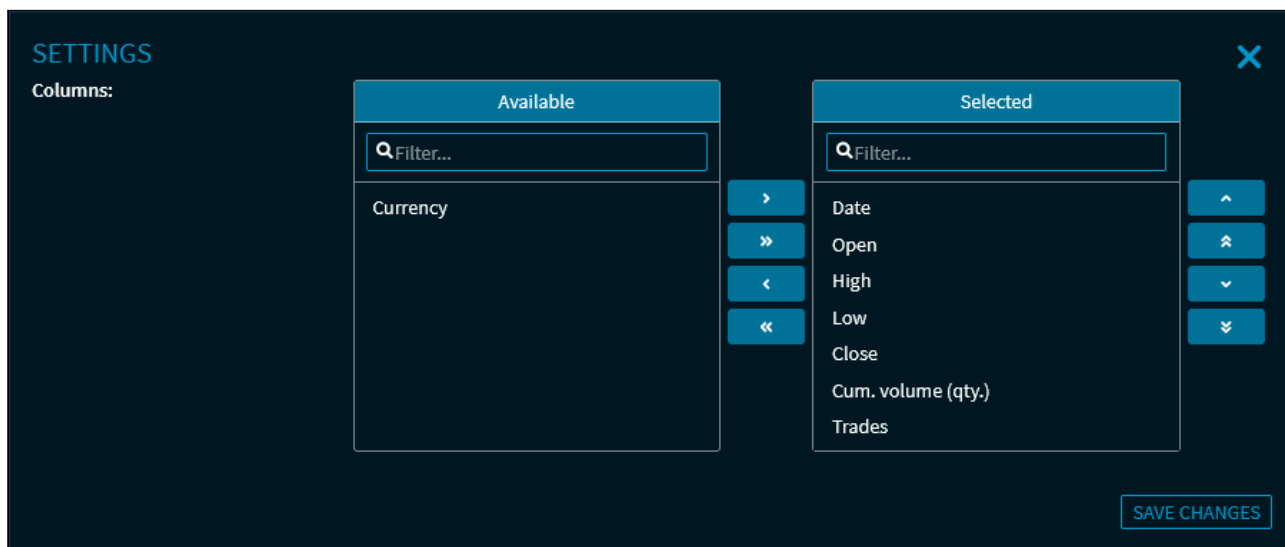
HISTORICAL PRICES UNIRAK INVESTMENT FUNDS (EUR)			
1 WEEK Distributions Corp. actions			
DATE	ISSUE	REDEMPTION	
28 Sep 2020	136.20	132.23	
25 Sep 2020	134.52	130.60	
24 Sep 2020	134.30	130.39	
23 Sep 2020	134.62	130.70	

5.62.2 Settings in the "Historical Prices" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here, you can show or hide the columns of the price table.

See also [Show and hide columns of the widgets via the settings](#).

For more information about the widget settings, see [Commands in the widget menu](#).

5.63 Option Matrix

The "Option Matrix" widget offers an overview of the options for an underlying.

By using the quick search, select the relevant underlying asset. This displays the list of the underlying asset and the options found in the option matrix. If possible, options that note "at-the-money" will be displayed in the options list first.

In addition to the prices of the underlying and the actual option matrix that you can filter by strike price or maturity, the option matrix also displays all important key figures for the calls and puts selected and shown in the matrix. The widget also provides a so-called "Strategy Matrix" that determines the estimated fair value for various scenarios and the corresponding maturity.

OPTION MATRIX

ESTX50 PR.EUR

ISIN: EU0009658145

IWKX: 965814

ID	TRADING VENUE	CURRENCY	TIME	PAID	%	B-SIZE	BID	ASK	A-SIZE	CUM. TURNOVER
965814	STOXX Ltd.	Pkt.	17:34:15	4,169.47	+0.12%	—	0.00	—	—	—
—	BNP Paribas	Pkt.	17:33:51	4,170.73	-0.11%	0	0.00	0.00	0	—

TRADING VENUE

DISPLAY

STRIKE

MATURITY

STRATEGY

EUREX GERMANY (6780)

STRIKE

3,600.00 - 4,200.00

31/03/2023

EUROPEAN

CALL OPTIONS

PUT OPTIONS

OI PREDAY	SETTL. PREDAY	BID SIZE	BID	ASK	ASK SIZE	LAST PRICE	LAST VOL. (QTY)	CUM. VOL. (QTY)	STRIKE	CUM. VOL. (QTY)	LAST VOL. (QTY)	LAST PRICE	BID SIZE	BID	ASK	ASK SIZE	SETTL. PREDAY	OI PREDAY
0	566.90	0	570.90	572.70	0	566.90	0	0	3,600.00	2	20	0.20	0	0.00	0.20	0	0.20	1,167
0	541.90	0	545.90	547.70	0	541.90	0	0	3,625.00	310	34	0.30	0	0.00	0.30	0	0.30	4,229
0	517.00	0	520.90	522.70	0	517.00	0	0	3,650.00	433	200	0.30	0	0.00	0.30	0	0.30	2,337
0	492.00	0	496.00	497.80	0	492.00	0	0	3,675.00	654	295	0.30	0	0.00	0.30	0	0.30	1,202
0	467.00	0	471.00	472.80	0	467.00	0	0	3,700.00	501	100	0.30	0	0.20	0.30	0	0.30	2,372
0	442.10	0	446.00	447.90	0	442.10	0	0	3,725.00	1,817	68	0.40	0	0.20	0.30	0	0.40	3,609
0	417.10	0	421.00	422.90	0	417.10	0	0	3,750.00	345	2	0.40	0	0.20	0.40	0	0.40	4,125
3	392.20	0	396.00	398.00	0	392.20	1	0	3,775.00	506	1	0.50	0	0.20	0.40	0	0.50	1,149
4	367.30	0	371.10	373.00	0	367.30	1	0	3,800.00	706	2	0.60	0	0.10	0.40	0	0.60	10,055
0	342.40	0	346.10	348.00	0	342.40	0	0	3,825.00	4,710	2	0.70	0	0.20	0.40	0	0.70	6,350
2	317.60	0	321.10	323.10	0	317.60	2	0	3,850.00	2	2	0.80	0	0.20	0.50	0	0.80	7,291
152	292.80	0	296.20	298.20	0	292.80	152	0	3,875.00	213	100	0.50	0	0.30	0.50	0	1.00	5,119
157	268.10	0	271.30	273.30	0	268.10	156	0	3,900.00	1,501	286	0.90	0	0.50	0.70	0	1.40	7,672

STRATEGY MATRIX

VOLATILITY

INTEREST RATE

DIVIDEND YIELD

SHOW CALLS

30.00

1.00

3.00

Use current values

HIST. VOLA. (255D.): +20.00%

CURR. INTEREST RATE: +2.00%

CURR. DIV. YIELD: —

FOR CALL CALCULATIONS: PRICE

28.80 EUR

(17:06:32, EUREX)

UNDERLYING PRICE

4,169.47 Pkt.

(17:31:15, STOXX LTD.)

FOR PUT CALCULATIONS: PRICE

38.10 EUR

(15:38:53, EUREX)

UNDERLYING PRICE

4,169.47 Pkt.

(17:31:15, STOXX LTD.)

OPTIO N TYPE	STRIKE	MATURITY	TRADING VENUE	TIME	LAST PRICE	LAST VOL. (QTY)	CURRE NCY	CONTR. SIZE	Δ	Δ%	DELTA	GAMMA	OMEGA	RHO	THETA	VEGA	IMP. VOLA.
CALL	4,175.00	31/03/2023	EUREX	17:06:32	28.80	24	EUR	1.00	-3.60	-11.1111	—	—	—	—	—	—	—
PUT	4,175.00	31/03/2023	EUREX	15:38:53	38.10	10	EUR	1.00	-2.50	-6.1576	—	—	—	—	—	—	—

In the [Widget Gallery](#), you find the "Warrant Matrix" widget in the "Other" section for derivatives.

See also:

- [Elements of the Option Matrix](#)
- [Settings in the "Option Matrix" widget](#)

5.63.1 Elements of the Option Matrix

See also:

- [Select and show underlying in Option Matrix](#)
- [Filter options of the option list](#)
- [Option list](#)
- [Strategy matrix](#)


Select and show underlying in Option Matrix

At the top of the "Option Matrix" widget, select the corresponding underlying from the drop-down list. Alternatively, you can also drag underlyings from other widgets to this widget. The underlying is shown in the upper part of the table at up to 3 trading venues by default:

1. XETRA
2. Frankfurt

3. Domestic stock exchange of the security

Depending on the corresponding quotation, these trading venues are hidden if they are not available for the security selected. If the domestic stock exchange is XETRA or Frankfurt, the third trading venue is hidden. In the [Settings of the widget](#), you can select all relevant trading venues and view a complete arbitrage list in the upper area of the widget. For more information on the columns in the upper part of the "Option Matrix" widget, see [Arbitrage](#).

 A menu icon is available for each option and for each underlying, allowing you to quickly open the option or underlying in a new widget. For more information, see the section [Commands in the widget menu](#).



To hide the underlying display in the Option Matrix, open the widget settings and select "None" from the "Trading venues" drop-down list.
Use the arrows on the right side of the widget to expand or reduce the "Option list" and "Strategy matrix" areas of the option matrix.

Filter options of the option list

If you selected the underlying in the upper part of the matrix, you can filter the option list. The following filter options are available:

Filters	Description
Trading venue	Select a trading venue. The options of the EUREX are shown by default. The number of options found is shown in brackets.
Display	Select the criterion by which to sort the options. The following choices are available: <ul style="list-style-type: none"> • Strike price • Maturity date You can configure the default in the widget settings.
Strike price	Select the required strike price interval.
Maturity date	Select the maturity of the options. You can select from the corresponding maturity days. The selection is not available if you selected "Maturity" as display criterion.
Strategy	Select the strategy of the options. "European" is set by default.

The set filter conditions are also saved when the dashboard is saved.

Option list

In the next area of the "Option Matrix" widget, you see a list of options on the underlying selected above. Calls are shown **on the left side**, **puts are shown on the right side**. In the middle, you see the strike prices or maturities depending on which criterion was selected to sort the list.

For the option list, you can show or hide the following columns by using the [Settings of the "Option Matrix" widget](#):

- **Strike or maturity**

In the middle column, you see the strike price or maturity (depending on the selection) highlighted in colour.

- Open interest previous day (OI preday)
- Settlement preday
- B-Amount
- Bid
- Ask
- A-Amount
- Price
- Last volume (qty.)
- Cum. volume (qty.)

A menu icon is available for each option and for each underlying, allowing you to quickly open the option or underlying in a new widget. For more information, see [Commands in the widget menu](#).

Strategy matrix

Below the option list, you find the strategy matrix. The separate matrix has its own filter and settings area.

STRATEGY MATRIX		VOLATILITY		INTEREST RATE		DIVIDEND YIELD											
SHOW CALLS ▾		30.00		1.00		3.00		Use current values									
		HIST. VOLA: (200D,1) +21.52%		CURR. INTEREST RATE: +3.03%		CURR. DIV. YIELD: --											
FOR CALL CALCULATIONS:		FOR PUT CALCULATIONS:															
PRICE		PRICE															
10.00 EUR		1.60 EUR															
(10:21:13, EUREX)		(10:04:47, EUREX)															
UNDERLYING PRICE		UNDERLYING PRICE															
4,305.44 Pkt.		4,305.44 Pkt.															
(10:26:00, STOXX LTD.)		(10:26:00, STOXX LTD.)															
OPTIO N TYPE	STRIKE	MATURITY	TRADING VENUE	TIME	LAST PRICE	LAST VOL. (QTY)	CURRE NCY	CONTR. SIZE	±	±%	DELTA	GAMMA	OMEGA	RHO	THETA	VEGA	IMP. VOLA
CALL	4,300.00	06/04/2023	EUREX	10:21:13	10.00	3	EUR	1.00	3.60	56.25	--	--	--	--	--	--	--
PUT	4,300.00	06/04/2023	EUREX	10:04:47	1.60	1	EUR	1.00	-15.50	-90.6433	--	--	--	--	--	--	--
PRICE SCENARIO																	
-25.00%	3,229.08			0.00													
-15.00%	3,659.62			0.00													
-10.00%	3,674.90			0.00													
-5.00%	4,090.17			0.00													
±0.00%	4,305.44			5.44													
+5.00%	4,520.71			220.71													
+10.00%	4,735.98			435.98													
+15.00%	4,951.26			651.26													
+25.00%	5,381.80			1,081.80													

The strategy matrix determines the fair value for the various scenarios and maturities.

The individual price scenarios are determined **for the strike price or maturity selected in the option list**.

The following filter options are available in the filter area of the strategy matrix:

Filters	Description
Display	First select if you want to analyse calls or puts.

Filters	Description
Volatility	<p>Enter the required volatility in percent.</p> <p>The default setting is 30 days.</p> <p>Volatility is one of most important factors for determining the option price. We distinguish between the historical volatility and the assumed volatility for the future (implied volatility):</p> <p>The historical volatility measures the dispersion of returns (standard deviation) of an underlying over a given period in the past, for example, 250 days. The value is shown in percent per annum. The historical volatility is only partially useful to determine option prices because the future volatility of the underlying is key. It can only be estimated by market participants, the historical volatility is used for the estimation.</p> <p>A higher estimated volatility results in a higher option price.</p> <p>From each option price (bid or ask) and from each trading price, you can determine the volatility used to calculate the option price. This volatility included in the option price is referred to as implied volatility.</p>
Interest rate	<p>Enter the current interest rate for the calculation.</p> <p>As interest rate, select the short-term interest rate of the corresponding country relevant for the time to maturity. In practice, the so-called repo rate is used in the calculation.</p>
Dividend yield	Enter the dividend yield to be used in the calculation.
Use current values	Turn this switch on to use the current values for the volatility, interest rate and dividend yield as shown in the table below.

In the strategy matrix, the key figures are calculated for call and put and various price scenarios are shown for the settings specified.

Here, you see more details about the options currently selected above. (The corresponding row is highlighted in the option list.)

By using the widget settings, you can show or hide the prices of the underlying, call and put used in the calculation in the strategy matrix:

CALL OPTIONS			
STRATEGY MATRIX	VOLATILITY	INTEREST RATE	DIVIDEND YIELD
SHOW CALLS ▾	20.2556	3.025	1.214
	HIST. VOLA. (250D.): +20.26%	CURR. INTEREST RATE: +3.03%	CURR. DIV. YIELD: +1.21%
FOR CALL CALCULATIONS: PRICE 1.14 EUR (30/03/2023, EUREX) UNDERLYING PRICE 408.95 EUR (10:47:50, PAR)		FOR PUT CALCULATIONS: PRICE 4.60 EUR (09:01:15, EUREX) UNDERLYING PRICE 408.95 EUR (10:47:50, PAR)	

You can find the following information about the maturity and strike price of calls and puts:

- Option type (call or put)
- Strike price


- Maturity date
- Trading venue
- Last price
- Last volume (qty.)
- Currency
- Contract volume
- Absolute change to previous day ("+/-")
- Relative change to previous day ("+/- %")
- Time of the last update
- Option key figures delta, gamma, omega, rho, theta and vega
- Implied volatility

For more information about indicators, see the [Börsenlexikon](#).

The prices are calculated for the following possible changes in the underlying price:

- -25%
- -15%
- -10%
- -5%
- Unchanged
- +5%
- +10%
- +15%
- +25%

Use the "Display" drop-down list to switch between calls and puts. "Show calls" is set by default.

 You can open and close the strategy matrix by using the arrow icon on the right side. The currently selected display is then retained even if changes are made in other areas of the widget.

5.63.2 Settings in the "Option Matrix" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget. Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

General settings

Trading venues

Strategy matrix

GENERAL SETTINGS

Push:

☒ ENABLED

Trading venues:

TOP ▾

Default sorting (options list):

STRIKE ▾

Show quotes used for keyfigure calculation:

.

SAVE

The "Settings" dialogue window is divided into different areas which you select on the left-hand side.

"General" area

Here, you can make the following settings:

- Enable or disable the push data feed
- Use the "Trading venues" drop-down list to select the trading venues of the underlying shown in the matrix
- Via the selection list "Default Sorting (options list)", you specify the default sorting for the list of options. (By default, they are sorted by the "Strike price" column, alternatively, you can sort by the "Maturity" column.)
- Use the "Show quotes used for keyfigure calculation" checkbox to show and hide information in the strategy matrix.

If the checkbox is selected, then the prices for warrants and underlying instrument on which the calculation is based are shown in the Strategy Matrix:

CALL OPTIONS

STRATEGY MATRIX

VOLATILITY

INTEREST RATE

DIVIDEND YIELD

☒ Use current values

SHOW CALLS ▾

20.2556

3.025

1.214

HIST. VOLA. (250D.): +20.26%

CURR. INTEREST RATE: +3.03%

CURR. DIV. YIELD: +1.21%

FOR CALL CALCULATIONS: PRICE

1.14 EUR

(30/03/2023, EUREX)

UNDERLYING PRICE

408.95 EUR

(10:47:50, PAR)

FOR PUT CALCULATIONS: PRICE

4.60 EUR

(09:01:15, EUREX)

UNDERLYING PRICE

408.95 EUR

(10:47:50, PAR)

"Trading venues" area

In this area, you can show and hide the columns of the upper underlying table in the matrix - for example, drag the columns to be shown into the "Selected" area.

For more information about displaying yield curves, see [Show and hide columns of the widgets via the settings](#).

"Strategy matrix" area

In this area, you can show and hide the columns of the strategy matrix.

For more information about displaying yield curves, see [Show and hide columns of the widgets via the settings](#).

For more information about the widget settings, see [Commands in the widget menu](#).

See also:

- [Configure trading venues of the underlying \(Option Matrix\)](#)

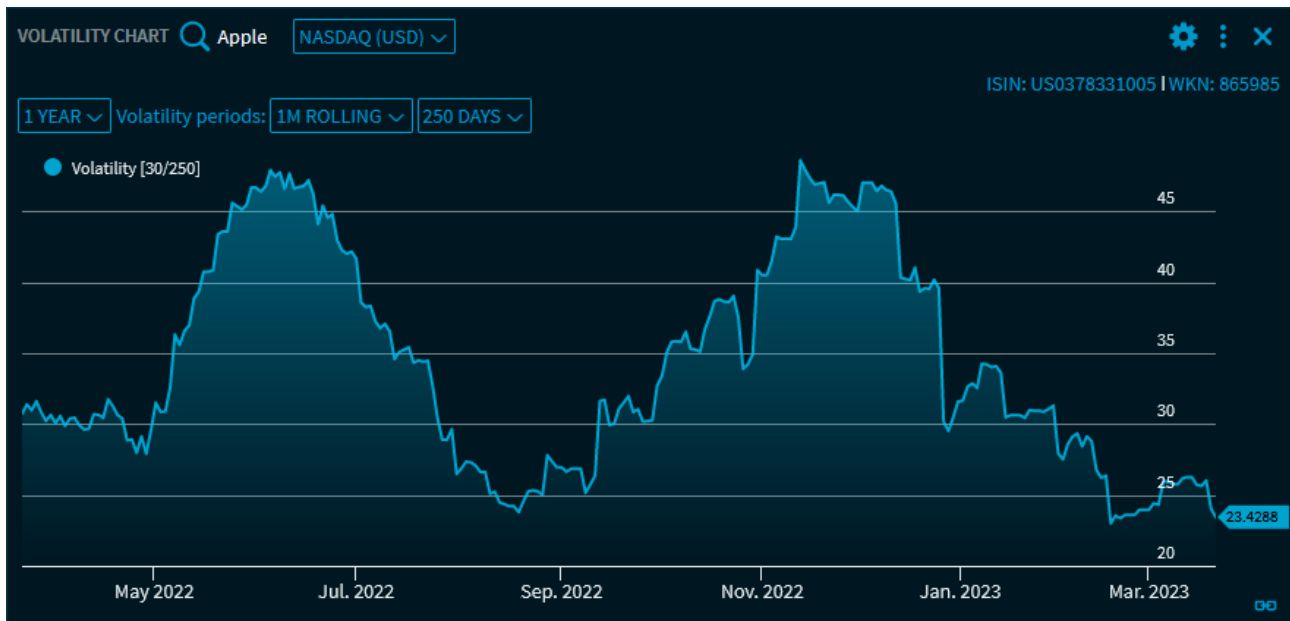
Configure trading venues of the underlying (Option Matrix)

Use the "Trading venues" drop-down list in the general settings of the Options Matrix in the upper part of the widget to define the matrix. You can select from the following settings:

Filters	Description
Top	Default setting Show only the top trading venues for the underlying.
All	Show all important trading venues for the underlying, thus displaying a complete arbitrage list in the upper area. For more information, see Arbitrage .
None	Hide the upper area of the Option Matrix.


5.64 Volatility Chart

With the "Volatility Chart" widget, you can visualise the historical volatility.



Use the drop-down list in the upper part of the "Volatility Chart" widget to select from the following settings:

Element	Description
"Instrument search" icon	Use the integrated quick search to search for the security to be displayed. After selecting a security, the name is displayed at the top left of the widget.
Select trading venue	You find the trading venue drop-down list next to the security drop-down list. Select the trading venue.
"Period" drop-down list	Below you will find the period selection. Select from the following periods: <ul style="list-style-type: none"> • 1 month • 6 months • Year to date • 1 year • 3 years • 5 years • 10 years • Max.

Element	Description
Volatility periods	<p>Select the calculation periods. The following choices are available:</p> <ul style="list-style-type: none"> • 1 week rolling • 1 month rolling • 3 months rolling • 6 months rolling • 1 year rolling <p>In addition, you can exactly specify the number of trading days per year in the calculation:</p> <ul style="list-style-type: none"> • 250 days • 252 days <p>The specified periods are then shown in the drop-down list and in the legend (in brackets).</p>
 Icon "Copy chart to clipboard"	<p>Click this Icon to copy the chart to the clipboard.</p>

By using the widget's menu icon, you can export the charts in the "Volatility Chart" widget to various file formats.

For more information about charts, see Chart.

See also:

- [Settings in the "Volatility Chart" widget](#)

5.64.1 Settings in the "Volatility Chart" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

Chart line and ordinate

Periods

CHART LINE AND ORDINATE SETTINGS

Instrument chart:

☐

ENABLED

Instrument volume:

☐

ENABLED

SMA period:

☐

ENABLED

38

Legend:

☒

ENABLED

Show quote information:

☒

IN LEGEND

☐

IN TOOLTIP

Ordinates to the right:

☒

ENABLED

Ordinate outside chart:

☐

ENABLED

Show last values:

☒

ENABLED

Highlight chart-lines:




☐

ENABLED

SAVE

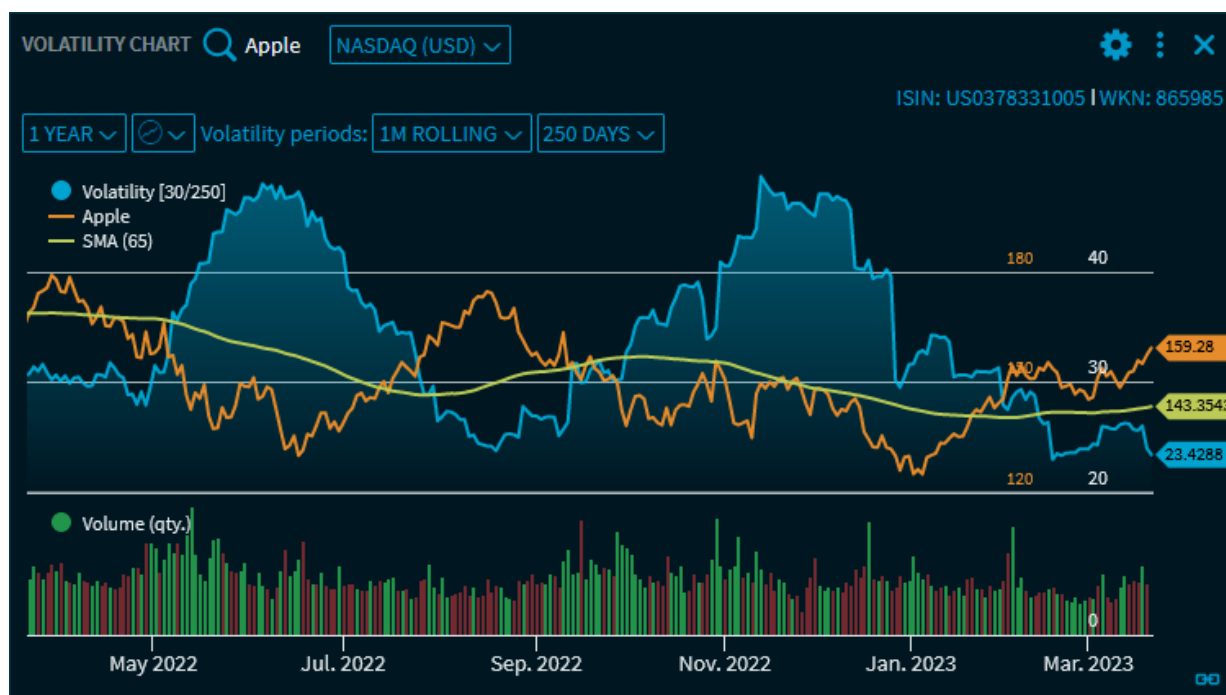
Configure your volatility chart. You can find the following settings:

Settings for chart line and ordinate settings

Field	Description
Instrument chart	<p>Select this checkbox to draw the selected security next to the volatility chart line.</p> <p>If the securities chart is displayed, then you can select a type from the chart types.</p> <ul style="list-style-type: none">  Mountain chart  OHLC chart  Candlestick chart <p>For more information on the individual types, see Chart type.</p>
Instrument volume	<p>Select the "enabled" checkbox to display the volumes of the security in the chart.</p> <p>The volumes are shown as a histogram at the bottom of the chart after you save the settings.</p>

Field	Description
MA period	<p>Select the "enabled" checkbox to show the moving average (MA) in the chart. Use the input field to enter the analysis period for the MA. The default setting is "38".</p> <p>When you save the settings, the MA is shown as an additional time series in the chart.</p>
Legend	<p>Clear this checkbox to hide the legend shown by default on the upper left side of the the volatility chart.</p>
Show prices	<p>By default, the price is displayed when pointing to the chart lines to the right of the respective legend entries.</p> <p>Select the "In tooltip" checkbox to display the prices directly at the mouse pointer as tooltip.</p>
Ordinates to the right	<p>By default, the ordinates are displayed on the right. Clear this checkbox to display the y-axis values on the left side.</p>
Ordinate outside chart	<p>By default, the ordinates are displayed in the chart window. Select this checkbox to display the y-axis values outside of the chart.</p>
Show last values	<p>Clear this checkbox to turn off the default display of current prices on the right side of the chart.</p>
Highlight chart line	<p>Select this checkbox to switch on the "highlighting" of the chart lines (when pointing to the lines in the chart or in the legend).</p> <p>This setting is disabled by default.</p>
"Save" button	<p>Closes the "Settings" dialogue window and saves the changes.</p>

Example: Volatility chart with displayed security time series, volumes and MA 65



For more information about the widget settings, see [Commands in the widget menu](#).

"Periods" settings

The settings for individual time periods correspond to those for "normal" charts. For more information, see [Settings in the "Chart" widget](#).

5.65 Warrant Matrix

The "Warrant Matrix" widget offers an overview of the warrants for an underlying. The matrix can be filtered by various criteria such as issuer, maturity or strike price.

WARRANT MATRIX SCHNEIDER ELEC. INH. EO 4											
ID	TRADING VENUE	CURRENCY	TIME	PAID	%	B-SIZE	BID	ASK	A-SIZE	CUM. TURNOVER	
SU	Paris	EUR	11:26:12	145.88	+0.62%	45	145.88	145.90	213	15.48 m	
860180	Xetra	EUR	11:35:36	145.98	+0.69%	112	145.46	145.98	554	299.18 k	
860180	Frankfurt	EUR	11:03:11	145.62	+0.51%	301	145.68	145.70	300	29.10 k	

ISSUER	MATURITY	TYPE	QUALITY
ALL	ALL	ALL	ALL

ID	NAME (SHORT)	ISSUER	TIME	B-SIZE	BID	ASK	A-SIZE	IMPLIED VOLATILITY	OMEGA	DELTA	VEGA	RHO	TIME VALUE	STRIKE	MATURITY
DW3JQK	DZ BANK OS Put a...	DZ BANK	09:14:00	25,000	0.10	0.13	25,000	57.724	-2.9872	-0.03915	0.01366	-0.09381	0.19	60.00	21/06/2024
DV83W2	DZ BANK OS Put a...	DZ BANK	09:14:42	25,000	0.10	0.13	25,000	57.31201	-4.00211	-0.05245	0.01318	-0.06848	0.19	76.00	15/12/2023
DV9FA5	DZ BANK OS Put a...	DZ BANK	09:09:48	25,000	0.10	0.13	25,000	57.31201	-4.00211	-0.05245	0.01318	-0.06848	0.19	76.00	15/12/2023
DW3JQL	DZ BANK OS Put a...	DZ BANK	09:14:00	0	0.00	0.00	0	49.53003	-3.299	-0.06371	0.02014	-0.14906	0.28	76.00	21/06/2024
JQ9TH3	JPM STR.PRO. PUT...	J.P. Morgan	10:10:22	25,000	0.11	0.15	25,000	98.19031	-1.59329	-0.12308	0.02506	-0.20928	1.12	80.00	15/12/2023
DW7TNN	DZ BANK OS Put a...	DZ BANK	22/02/2023	0	0.00	0.00	0	65.49072	-7.64293	-0.02583	0.0041	-0.0094	0.049	84.00	16/06/2023
DW7TNN	DZ BANK OS Put a...	DZ BANK	09:19:05	25,000	0.10	0.13	25,000	61.12671	-4.64497	-0.06087	0.01199	-0.05054	0.19	84.00	15/09/2023

Results: 1 - 50 of 825 (Total: 825)

See also:

- [Elements of the Warrant Matrix](#)
- [Settings in the "Warrant Matrix" widget](#)

5.65.1 Elements of the Warrant Matrix

See also:

- [Select and show underlying](#)
- [Filter options](#)
- [Warrant list](#)

Select and show underlying

At the top of the "Warrant Matrix" widget, select the corresponding underlying from the drop-down list. Alternatively, you can also drag underlyings from other widgets to this widget. The underlying is shown in the upper part of the table at up to 3 trading venues by default:

1. XETRA
2. Frankfurt
3. Domestic stock exchange of the security

Depending on the corresponding quotation, these trading venues are hidden if they are not available for the security selected. If the domestic stock exchange is XETRA or Frankfurt, the third trading venue is hidden. In the [Settings of the widget](#), you can select all relevant trading venues and view a complete arbitrage list in the upper area of the widget. For more information on the columns in the upper part of the "Warrant Matrix" widget, see [Arbitrage](#).




To hide the underlying display in the Option Matrix, open the widget settings and select "None" from the "Trading venues" drop-down list.

Filter options

If you selected the underlying in the upper part of the matrix, you can filter the warrant list. The following filter options are available:

Filters	Description
Issuer	Select the corresponding issuer of the warrants. By default, you see the warrants of all issuers.

Filters	Description
Maturity date	<p>Select the maturity of the warrants. You can select from the following connection periods:</p> <ul style="list-style-type: none"> • All (default setting) • < 1 month • < 3 months • < 6 months • < 9 months • 1 to 3 months • 3 to 6 months • 6 to 12 months • 1 to 2 years • 1 to 3 years • > 3 years • Open end
Type	<p>Select the type of the warrants. You can select from the following types:</p> <ul style="list-style-type: none"> • All (default setting) • Calls • Puts
Quality	<p>Select the quality of the warrants. You can select from the following criteria:</p> <ul style="list-style-type: none"> • All (default setting) • Deep in the money • In the money • At the money • Out of the money • Deep out of the money <p>A call is <i>in the money</i> if the current price of the underlying is greater than the strike price of the call.</p>

 The filters set in the warrant matrix are saved when you save the dashboard.

Warrant list

In the lower area of the "Warrant Matrix" widget, you see a list of warrants on the underlying selected above.

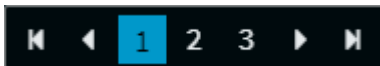
For the warrant list, you can show or hide the following columns by using the [Settings of the widget](#):

- ID
- Name (short)
- Issuer
- Time
- B-Amount
- Bid
- Ask
- A-Amount
- Implied volatility
- Omega
- Delta


- Vega
- Rho
- Time value
- Strike price
- Maturity date
- Paid
- UL Trad. venue (trading venue of the underlying)
- UL price (price of the underlying)
- UL time (time of the price of the underlying)
- Gamma
- Trading venue
- Leverage
- ISIN
- Name
- Theta
- YD price (previous day's price)
- YD time (time of the previous day's price)
- WKN

For more information about indicators, see the [Börsenlexikon](#).

You can drag and drop warrants to other suitable widgets. Grouping widgets is also supported when transferring underlyings and for individual warrants.



If a large number of warrants is found for the underlying, then the list is divided into several pages. Use the navigation controls to page through the list.

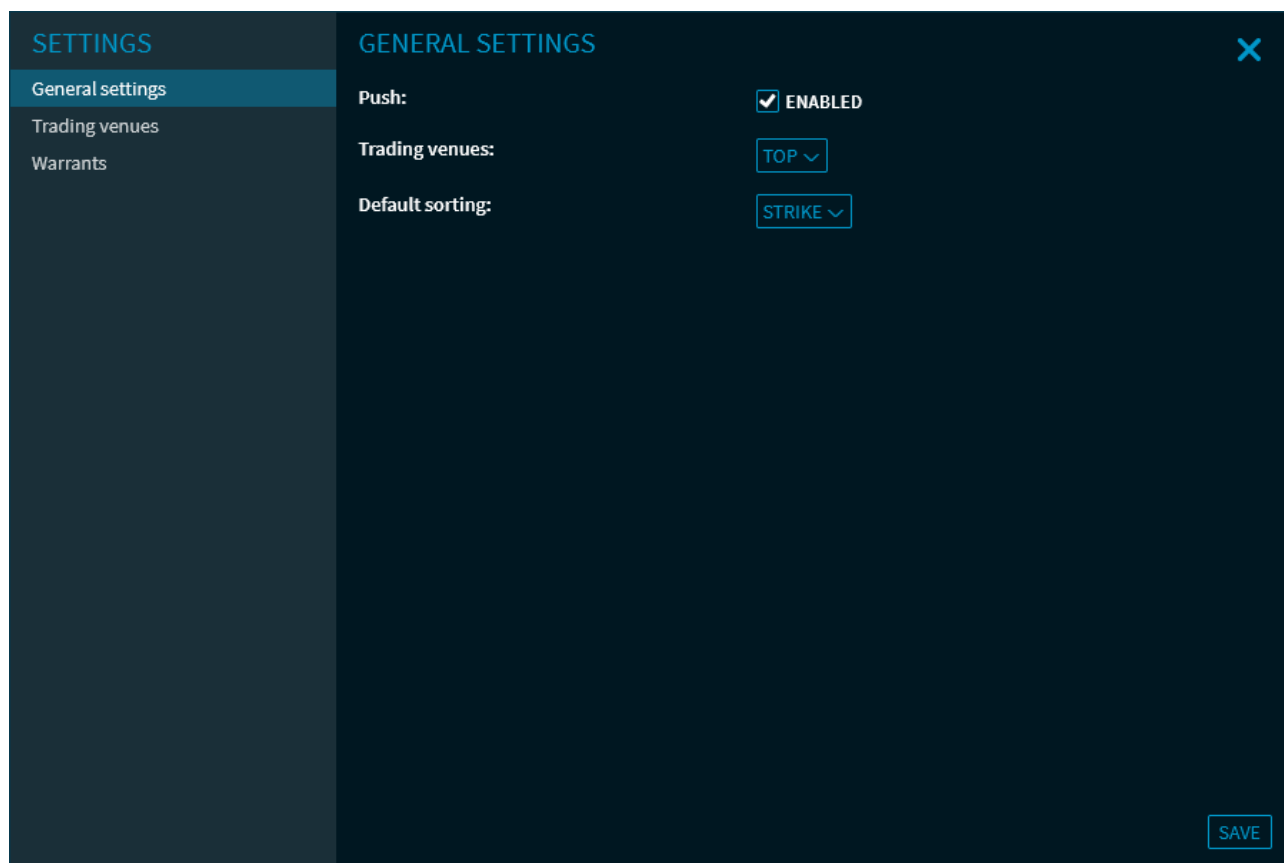
 At the start of each table row, you find a menu icon allowing you to quickly open the corresponding underlying or warrant in a new widget. For more information, see [Commands in the widget menu](#).

5.65.2 Settings in the "Warrant Matrix" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



The "Settings" dialogue window is divided into different areas which you select on the left-hand side.

"General" area

Here, you can make the following settings:

- Enable or disable the push data feed
- Use the "Trading venues" drop-down list to select the trading venues of the underlying shown in the matrix
- Via the selection list "Default sorting", you specify the default sorting for the list of warrants. (By default, they are sorted by the "Strike price" column, alternatively, you can sort by the "Maturity" column.)

"Trading venues" area

In this area, you can show and hide the columns of the upper underlying table in the matrix - for example, drag the columns to be shown into the "Selected" area.

For more information about displaying yield curves, see [Show and hide columns of the widgets via the settings](#).

"Warrants" area

In this area, you can show and hide the columns of the warrant list in the matrix.

For more information about displaying yield curves, see [Show and hide columns of the widgets via the settings](#).

For more information about the widget settings, see [Commands in the widget menu](#).

See also:

- [Configure trading venues of the underlying \(Warrant Matrix\)](#)

Configure trading venues of the underlying (Warrant Matrix)

Use the "Trading venues" drop-down list in the general settings of the Warrant Matrix in the upper part of the widget to define the matrix. You can select from the following settings:

Filters	Description
Top	Default setting Show only the top trading venues for the underlying.
All	Show all important trading venues for the underlying, thus displaying a complete arbitrage list in the upper area. For more information, see Arbitrage .
None	Hide the upper area of the Warrant Matrix.

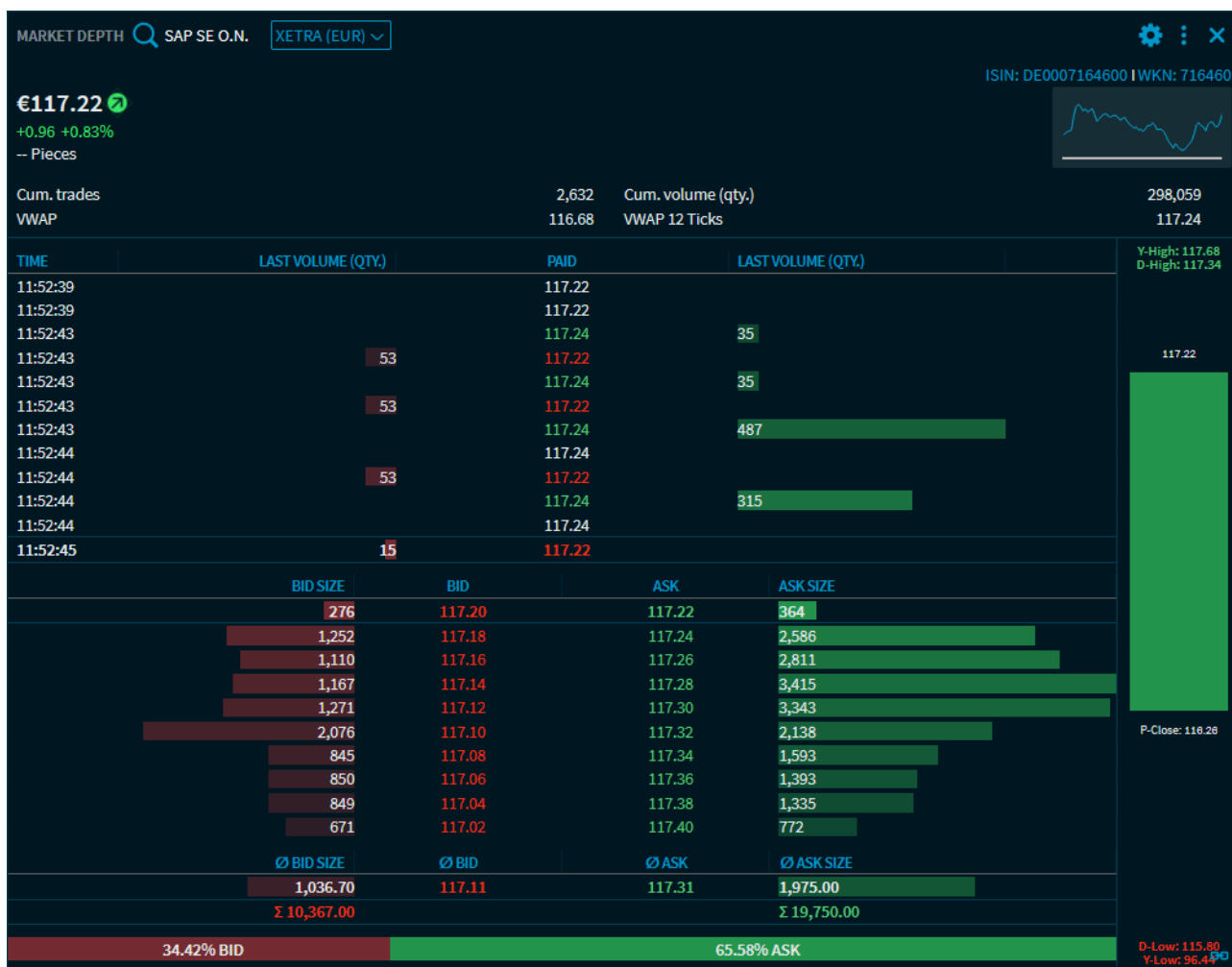
Example: Warrant Matrix with all trading venues of the underlying.

ID	TRADING VENUE	CURRENCY	TIME	PAID	%	B-SIZE	BID	ASK	A-SIZE	CUM. TURNOVER
SU	Paris	EUR	11:37:44	145.74	+0.52%	163	145.72	145.76	604	16.16 m
860180	Xetra	EUR	11:35:36	145.98	+0.69%	183	145.30	145.64	72	299.18 k
860180	Frankfurt	EUR	11:03:11	145.62	+0.51%	300	145.58	145.60	300	29.10 k

If many trading venues are available and displayed for an underlying, use the sorting options via the column headings or the scroll bar on the right to display them.

5.66 Market Depth

The "Market Depth" widget is one of the highlights of Infront Investment Manager. At a glance, you can immediately see all the important data relating to the current pricing of the selected security at the trading venue selected.



Select a security from the integrated quick search or drag it from another widget. After selecting a security, you can use the (now visible) drop-down list next to it to select a trading venue.



In addition to shares, this widget also supports all other types of securities or asset classes.

In the following sections, you learn about the information provided in the various areas of the widget.

See also:

- [General daily information about the security](#)
- [Price performance as candle chart](#)
- [The last paid prices \(trades\) including the volume.](#)
- [Best Bid and Best Ask Prices](#)
- [Settings in the "Market Depth" widget](#)

5.66.1 General daily information about the security

After selecting a security and trading venue, information about master data and price data appears.

- Name
- ISIN
- WKN

- Price with currency
- Relative price change in percent
- Absolute price change
- Last quantity
- Number of trades
- Total daily volume
- Volume Weighted Average Price (VWAP) of the day
- Volume Weighted Average Price of the last 12 ticks
- Mini chart

5.66.2 Price performance as candle chart

On the right side of the "Market Depth" widget, you see the price performance as a candle chart. The colour of the candle indicates if the current price is below the previous day's close. If the current price is above that price, the candle is green, if it is below the previous day's close, then the candle is red.

In addition, this area provides information about the daily and annual highs and lows.

5.66.3 The last paid prices (trades) including the volume.

In the upper part of the widget, you see the (constantly updated) last paid prices (trades) including volumes and trading times. In the settings, you can select 1 to 12 rows ("Order book" limit setting).

To visualise the market trend for the security selected, rising prices appear green, unchanged prices white and falling prices red. In the Visual Quote, the corresponding volumes in case of falling prices appear red on the left side and rising prices appear green on the right side. Volumes of trades quoted at an unchanged price are shown grey.

5.66.4 Best Bid and Best Ask Prices

Below the paid prices, you find the current best ask and best bid prices. In the settings, you can select up to 10 rows ("Time & Sales" limit setting).

The bid prices of the buyers are shown on the left side, the ask prices of the sellers on the right side. Next to this, you see the corresponding volumes that are shown for the best bids in red on the left side and for best asks in green on the right side.

Below, you see the average values of the best bid and ask prices. In addition, you find the total volume and the average volume for each bid (red) and ask (green) price.

At the bottom, you see bid to ask ratio for the prices shown.

5.66.5 Settings in the "Market Depth" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.

SETTINGS

Push: ☒ ENABLED

Time & Sales limit (1-12):

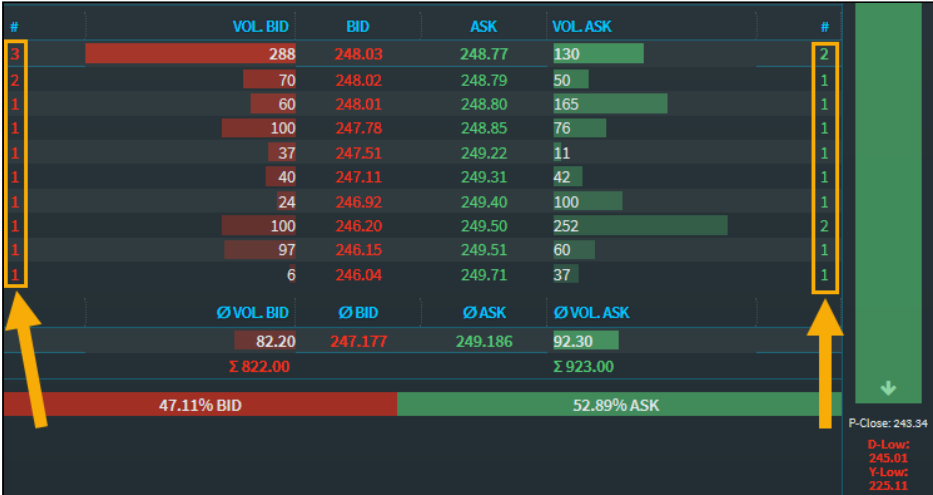
Order book limit (1-10):

Order book volumes: ☒ ENABLED

Order book orders: ☐ ENABLED

SAVE CHANGES

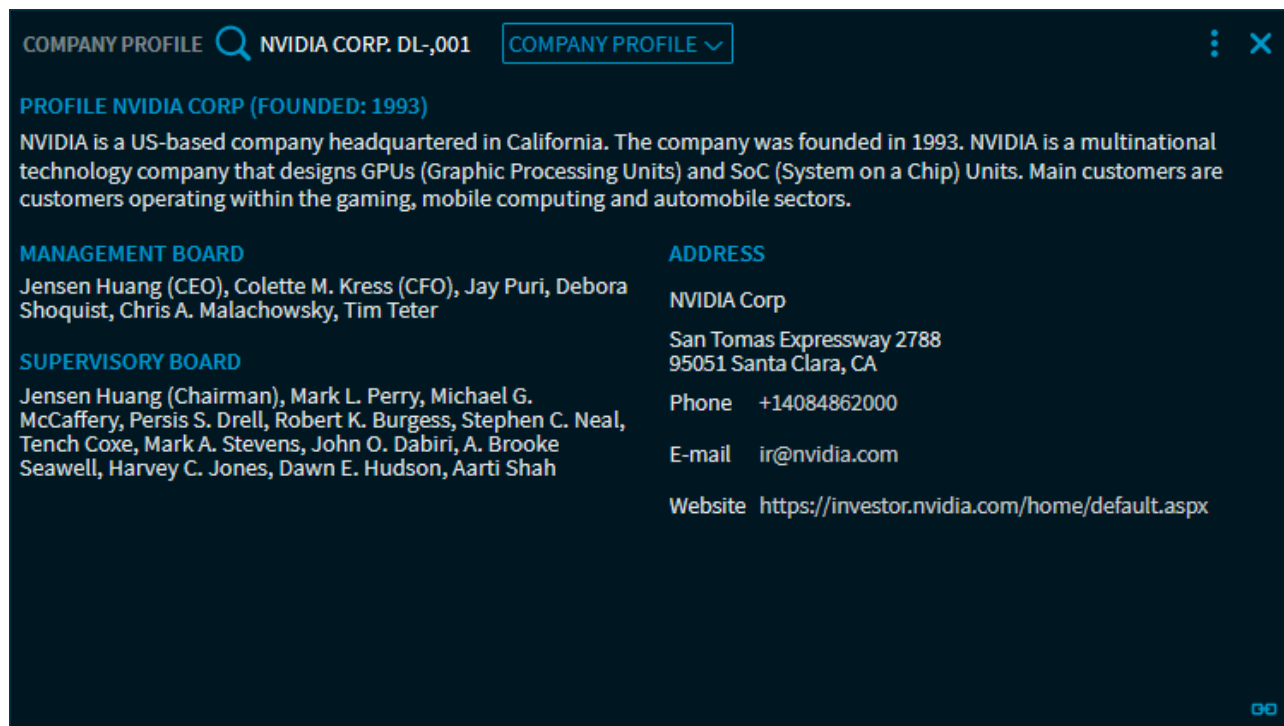
Here, you can make the following settings:


Field	Description
Push enabled	Use this checkbox to enable or disable the push data feed for this widget.
Time & Sales limit (1-12)	Specify the number of completed trades to be displayed. You can display up to 12 Time & Sales.
Order book limit (1-10)	Specify how many bid and ask prices from the order book you want to see. You can show up to 10 of the lowest bid and 10 of the highest ask prices.
Order book volume	Selected by default. With this checkbox, you can show or hide the display of the order book volume.
Order book orders	<p>The checkbox is cleared by default.</p> <p>With this checkbox, you can show or hide the display of the order book volume.</p> <p>If the checkbox is selected, then the number of the corresponding orders is shown for the bid and ask price.</p> 

For more information about the widget settings, see [Commands in the widget menu](#).

5.67 Company Profile

The "Company Profile" widget offers you a quick overview of a company listed on the stock exchange, showing a company profile as well as information about the management and supervisory board as well as the address and contact information.



COMPANY PROFILE  NVIDIA CORP. DL-,001 COMPANY PROFILE ▾ ⋮ ✕

PROFILE NVIDIA CORP (FOUNDED: 1993)
NVIDIA is a US-based company headquartered in California. The company was founded in 1993. NVIDIA is a multinational technology company that designs GPUs (Graphic Processing Units) and SoC (System on a Chip) Units. Main customers are customers operating within the gaming, mobile computing and automobile sectors.

MANAGEMENT BOARD	ADDRESS
Jensen Huang (CEO), Colette M. Kress (CFO), Jay Puri, Debora Shoquist, Chris A. Malachowsky, Tim Teter	NVIDIA Corp San Tomas Expressway 2788 95051 Santa Clara, CA
SUPERVISORY BOARD Jensen Huang (Chairman), Mark L. Perry, Michael G. McCaffery, Persis S. Drell, Robert K. Burgess, Stephen C. Neal, Tench Coxe, Mark A. Stevens, John O. Dabiri, A. Brooke Seawell, Harvey C. Jones, Dawn E. Hudson, Aarti Shah	Phone +14084862000 E-mail ir@nvidia.com Website https://investor.nvidia.com/home/default.aspx

To switch to a different company, use the security drop-down list in the upper part of the widget.

Alternatively, you can drag shares from other widgets to this widget.


With the second drop-down list, you can switch between the "Company Profile" default view and the ["Top Holders" view](#).

See also:

- ["Top Holders" view](#)
- ["Peers" view](#)

5.67.1 "Top Holders" view

Select the "Top Holders" view at the top of the "Company Profile" widget to display the list of the largest shareholders of the selected (listed) security or company.

COMPANY PROFILE  NVIDIA CORP. DL-,001 TOP HOLDERS ▾		
SHAREHOLDER		PARTICIPATION
Freefloat		74.41%
The Vanguard Group Inc		7.71%
Blackrock Inc		7.20%
FMR LLC		7.03%
Jen-Hsun Huang		3.65%

In the "Shareholder" column, you see the name of the shareholder. The "Participation" column shows the percentage stake of the largest holders in descending order. The "Free float" entry indicates the number of shares that are in the hands of public investors, that is, not in the hands of major investors.

5.67.2 "Peers" view

In the "Peers" view you can show the data "Infront sector L1" and "Infront sector L2" ("sub sector") for the 20 securities with the highest market capitalisation.

5.68 Earnings Estimates

The "Earnings Estimates" widget shows you an overview of all estimates of the financial analysts provided by S&P.

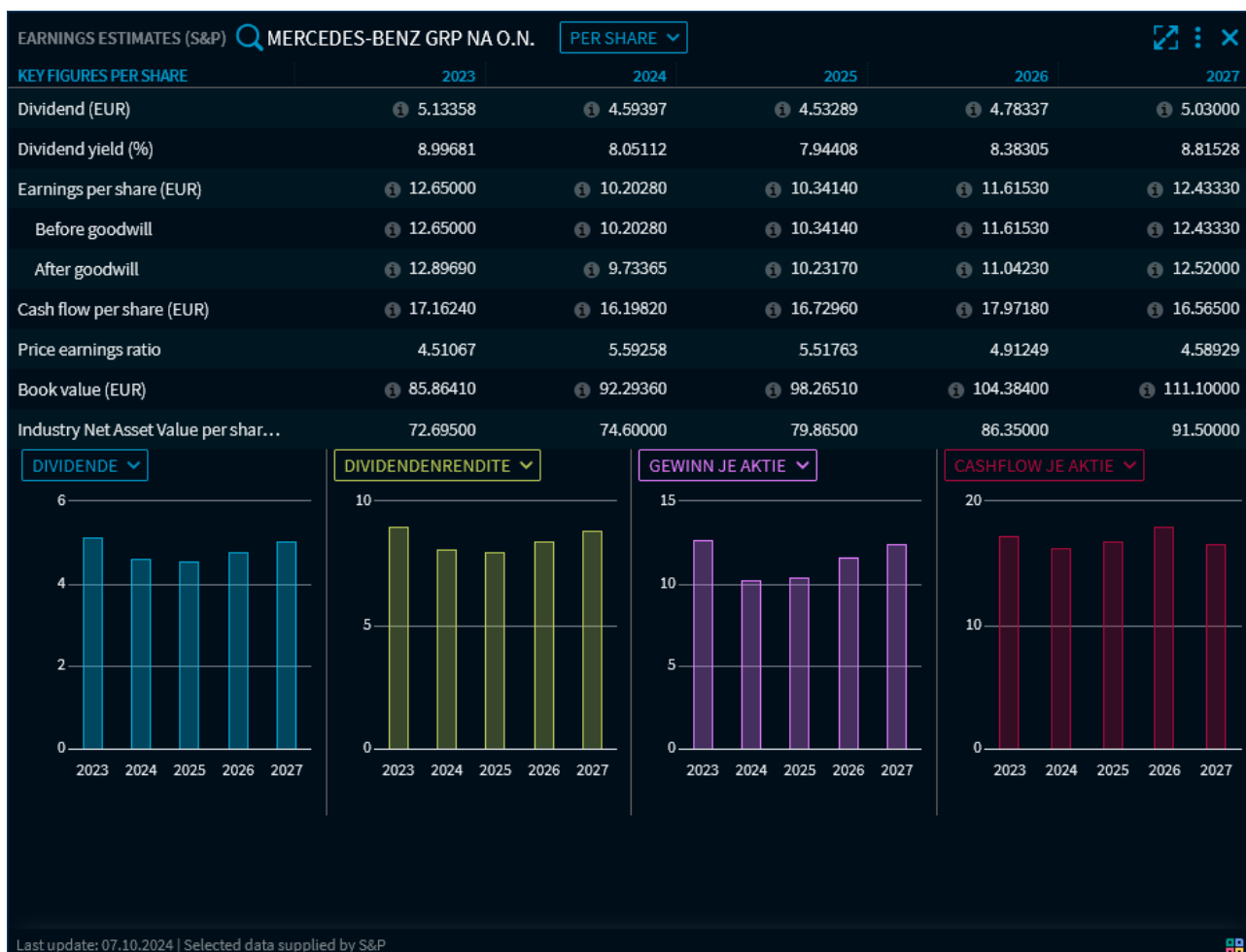
After selecting a security, you can select between various views. The following sections provide details on the individual views.

See also:

- ["Per share" view](#)
- ["Financials" view](#)
- ["Analyst Recommendations" view](#)

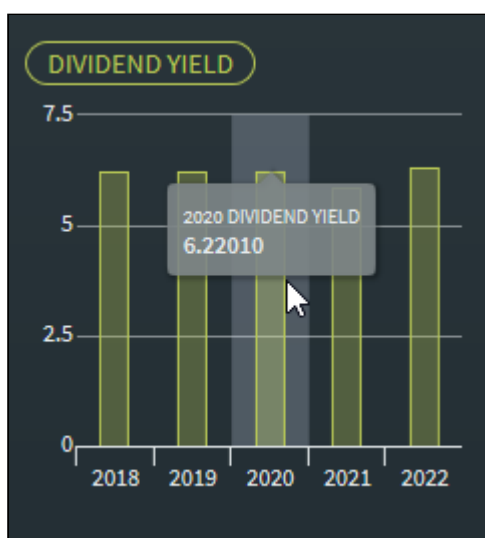
5.68.1 "Per share" view

In the upper part of the widget, select the corresponding security from the first drop-down list, and then select the "Per share" view (default) from the second drop-down list.



In the "Key figures per share" section, you see the earnings estimates per share for 5 years. The key figures in the table are also visualised in the charts below. With the drop-down lists above the charts, you can select and view all the key figures of the table.

Point to a bar in the chart to see the exact values.




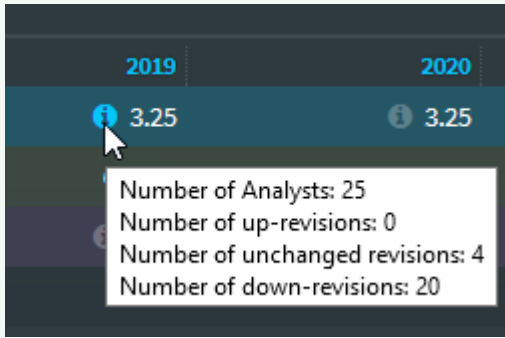
The following estimates are available in the "Per share" view of the "Earnings Estimates" widget:

- Dividend (related currency)

- Dividend yield
- Earnings per share (related currency)
- Earnings per share before goodwill
- Earnings per share after goodwill
- Earnings per share "Post Event Cons."
- Cash flow per share (related currency)
- PE (Price/earnings ratio)
- Book value (related currency)
- Industry Net Asset Value per share (related currency)

When saving the dashboard, the currently selected values of the bar charts are saved so that they are preselected the next time you open the dashboard.





Point to the icon next to each the estimate values to show detailed numbers of the underlying estimates in a tool tip.

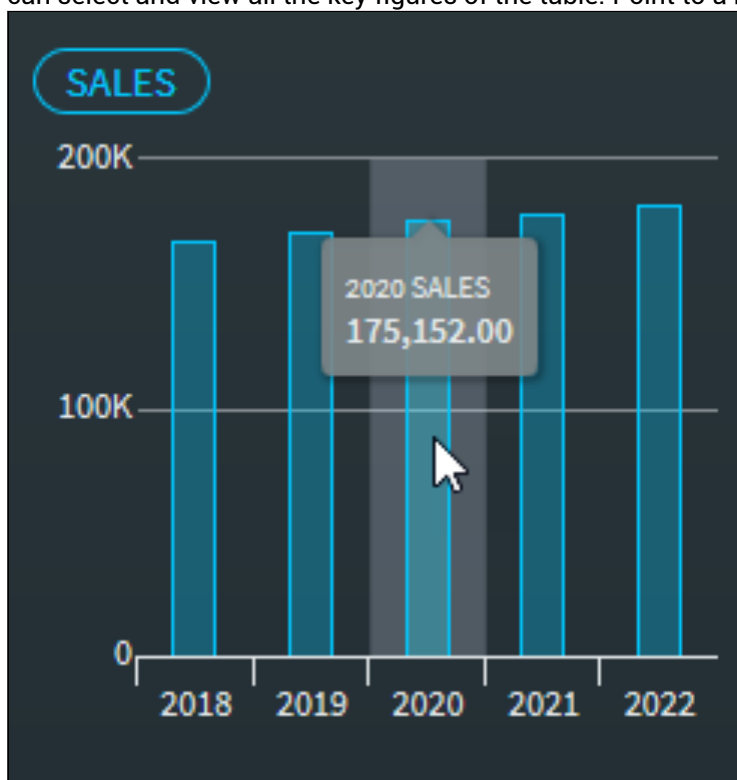
5.68.2 "Financials" view

In the upper part of the widget, select a security from the first drop-down list, and then select the "Financials" view.



In the "Key financial estimates" area, you see the earning estimates of the company for 5 years. The key figures in the table are also visualised in the charts below. With the drop-down lists above the charts, you

can select and view all the key figures of the table. Point to a bar in the chart to see the exact values.



The following estimates are available in the "Key figures" of the "Financials" view of the "Earnings Estimates" widget:

- Sales (in million euros)
- EBITDA (in million euros)
- EBIT (in million euros)
- Pre-tax profit (in million euros)
- Net profit (in million euros)
- Net debt (in million euros)

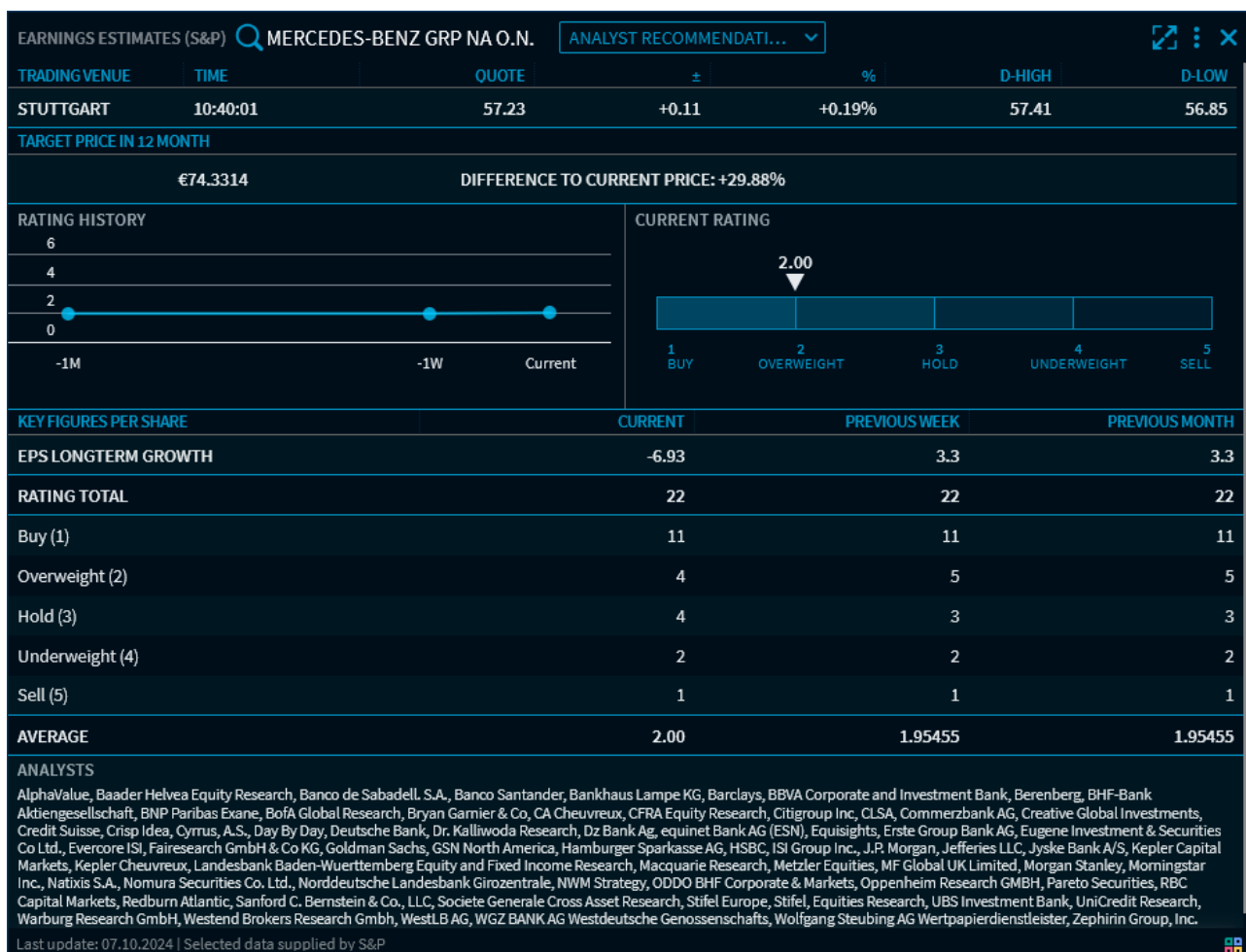


2020	2021
175,152.00	178,455.00
Number of Analysts: 22 Number of up-revisions: 9 Number of unchanged revisions: 5 Number of down-revisions: 6	

Point to the icon next to each the estimate values to show detailed numbers of the underlying estimates in a tool tip.

5.68.3 "Analyst Recommendations" view

In the upper part of the widget, select a security from the first drop-down list, and then select the "Analyst Recommendations" view.



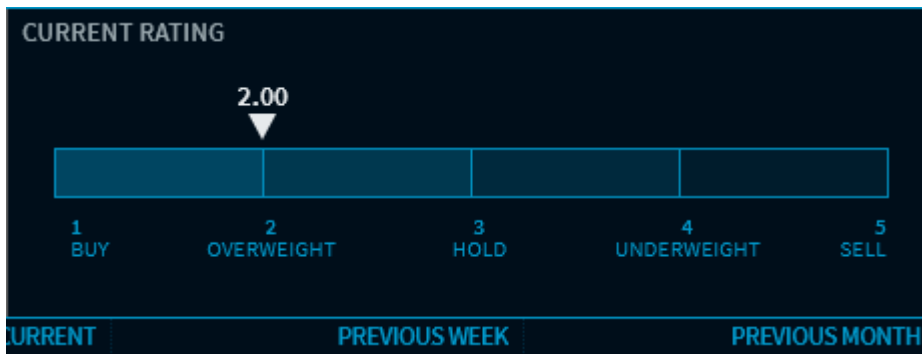
In the upper area, you see the current value for the price target in 12 months and the relative difference to the current price. An arrow symbol indicates the expected direction of the price.

In the "Key figures per share" section, you see the number of ratings and their distribution for the "Current", "Previous week" and "Previous month" periods. The numbers in the table are also visualised in charts providing a historic and current view.

The following data is available in the "Analyst Recommendations" view of the "Earnings Estimates" widget:

- Rating total
- Total of ratings with the "Buy" recommendation (value 1)
- Total of ratings with the "Overweight" recommendation (value 2)
- Total of ratings with the "Hold" recommendation (value 3)
- Total of ratings with the "Underweight" recommendation (value 4)
- Total of ratings with the "Sell" recommendation (value 5)
- Calculated average value
- Analysts

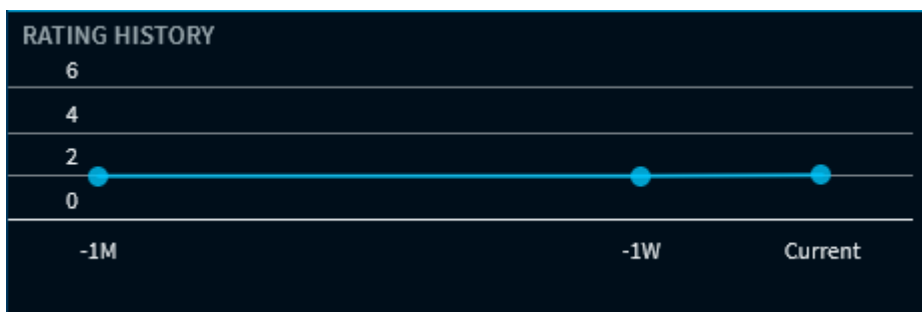
The current average is shown in the "Current rating" graphic.



In the example, the average value is calculated as follows:

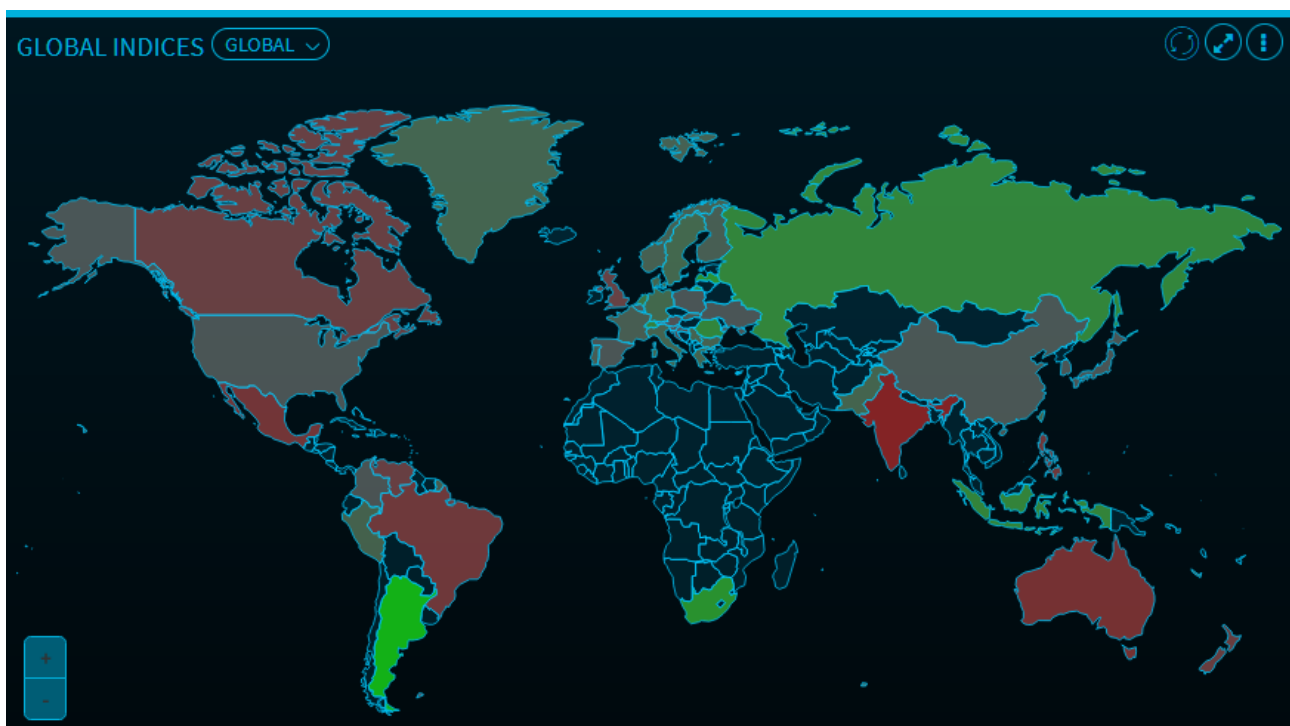
$$2.00 = (11 \cdot 1 (\text{Buy}) + 4 \cdot 2 (\text{Overweight}) + 4 \cdot 3 (\text{Hold}) + 2 \cdot 4 (\text{Underweight}) + 1 \cdot 5 (\text{Sell})) / 22$$

Similar to the table, the "Rating history" chart shows the average values for the "Current", "Previous week" and "Previous month" periods. Point to a data point in the rating history to see the corresponding values.



5.69 Global Indices

This widget features a world map allowing you to quickly find the most important index and its current performance for each country. Point to the country of your choice to see the current performance of the index.



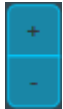
GLOBAL

Use the button in the upper left corner to change the region:

- Global (default)
- Europe
- Asia
- North America
- South America
- Australia

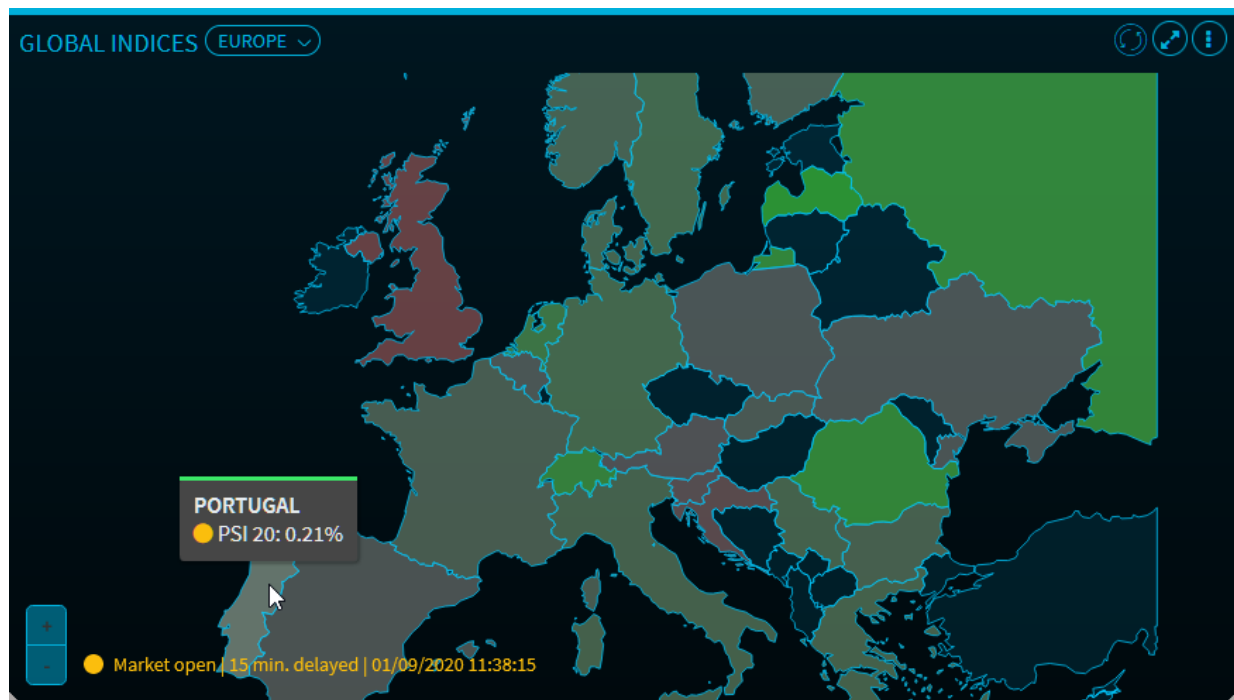


Click the "Refresh" icon to reload the display. The settings are saved and shown when you open the dashboard the next time.



Use the plus and minus icons in the lower left corner to zoom in or out. If your cursor is in the "World Map widget", you can also use the mouse wheel or double-click.

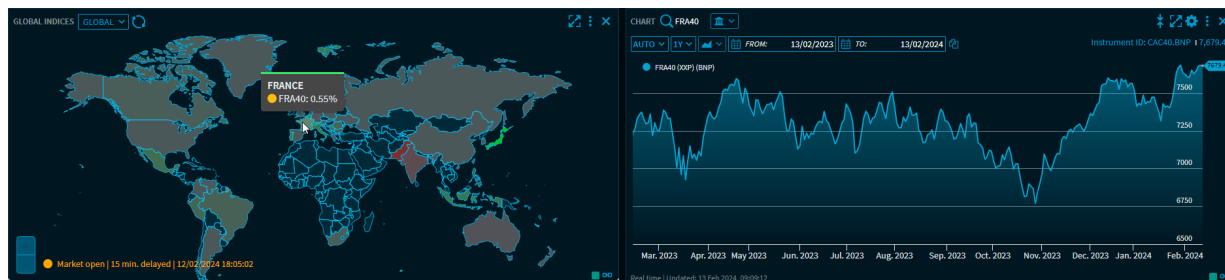
Example: Portugal



The colour of the country (here: green) shows you the current performance of the country (here: PSI 20) compared to the previous day. Use the plus and minus icons in the lower left corner to zoom in or out. When you point with your mouse to Portugal, you see the index and the current performance in percent (here -0.54%). If the stock exchange is open as shown in the example, then this is indicated by

a yellow dot (if closed, then white dot) next to the index name and the text and time stamp at the bottom of the widget. Here, you also find real time or delayed information about the index performance changes.

Example: France grouped with index chart



The "Global Indices" widget also supports grouping widgets. For example, clicking on a country displays the corresponding chart for the index in a chart widget.

5.70 Swaption Calculator

With the Swaption Calculator, you can calculate interest swaps for options.

SWAPTION CALCULATOR

GENERAL CONTRACT DATA

Option maturity

23/03/2024

Option model

BACHELIER

Strike

2.00

Volatility in bp

36.00

Swaption type

PAYER

FIXED

Nominal value

1,000,000.00

Currency

EURO

Value date

23/03/2023

Term to

23/03/2033

Payment frequency

ANNUALLY

Day count convention

ISMA ACT/ACT

FLOATING

Nominal value

1,000,000.00

Currency

EUR

Value date

23/03/2023

Term to

23/03/2033

Payment frequency

SEMI-ANNUALLY

Day count convention

ISMA ACT/ACT

Valuations

Premium amount

70,262.63074319 EUR

5.70.1 "General Contract Data" area

Element	Description
Option maturity	Use the integrated calendar to select the maturity date of the options.
Option model	Select the desired option model here - "Black 76" or "Bachelier".
Strike price	Enter the strike price.
Volatility in bp	Enter the volatility in basis points.
Swaption type	Select the role for the calculation, that "payer" or "receiver".

"Fixed" area

Element	Description
Nominal amount	Enter the (fixed) nominal amount for the calculation. The nominal amount for "Fixed" and "Floating" remains unchanged.
Currency	Select the (fixed) currency for the calculation. The currency for "Fixed" and "Floating" remains unchanged.
Value date	Use the integrated calendar to specify the value date date of the calculation. The current date is set by default.
Term to	Use the integrated calendar to specify the end date of the calculation. The default setting is the current date plus 10 years.
Payment frequency	Select the payment frequency for the fixed interest payment. The following periods are available: <ul style="list-style-type: none"> • Monthly • Quarterly • 4-monthly • Semi-annually • Annually

Element	Description
Day count convention	<p>Select the day count convention for the fixed interest payment. The following periods are available for the day count convention:</p> <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/365 • ISMA (ACT/ACT) • ISMA 30E/360

5.70.2 "Floating" area

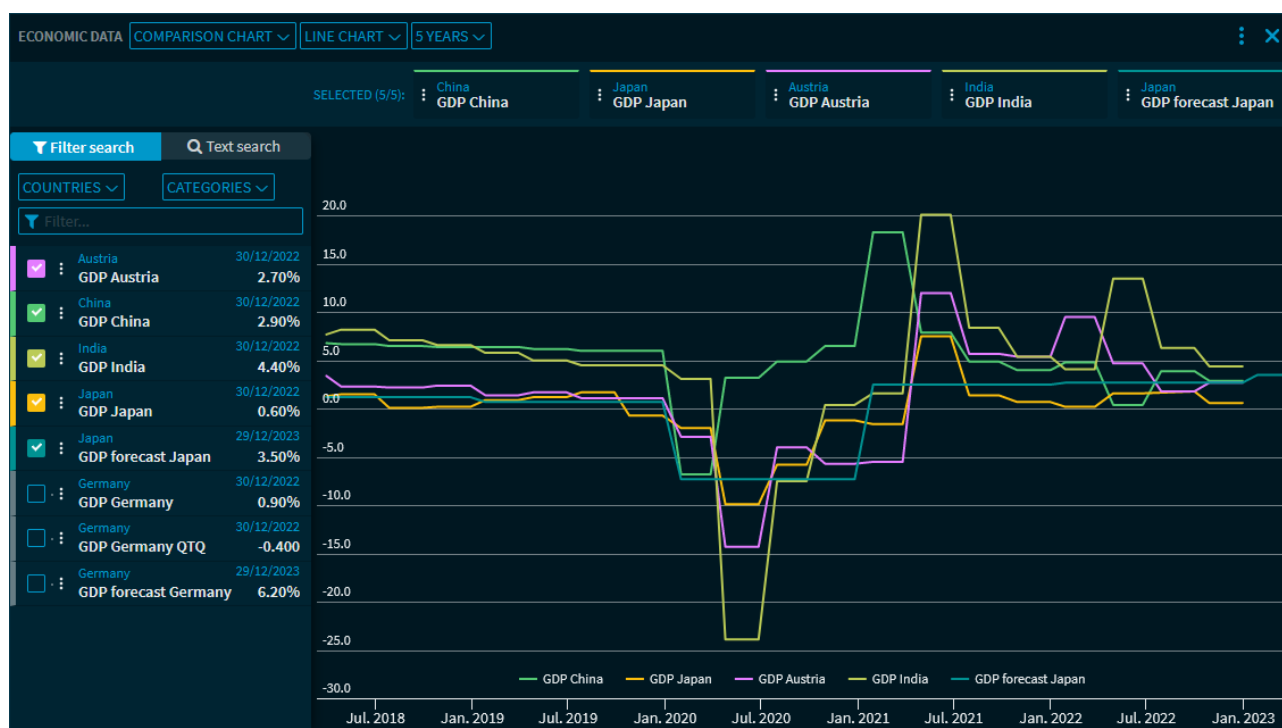
Element	Description
Nominal amount	<p>The nominal amount value of the calculation.</p> <p>The nominal amount for "Fixed" and "Floating" remains unchanged.</p>
Currency	<p>The currency of the calculation.</p> <p>The currency for "Fixed" and "Floating" remains unchanged.</p>
Value date	<p>The value date date selected in the "Fixed" area of the calculation.</p> <p>The current date is set by default.</p>
Term to	<p>The end date selected in the "Fixed" area of the calculation.</p> <p>The default setting is the current date plus 10 years.</p>
Payment frequency	<p>Select the payment frequency for the floating interest payment. The following periods are available:</p> <ul style="list-style-type: none"> • Monthly • Quarterly • 4-monthly • Semi-annually • Annually
Day count convention	<p>Select the day count convention for the floating interest payment. The following periods are available for the day count convention:</p> <ul style="list-style-type: none"> • German 30/360 • German 30/365 • French ACT/360 • English ACT/365 • ISMA (ACT/ACT) • ISMA 30E/360

5.70.3 "Valuation" area

Element	Description
Premium amount	The resulting amount of the premium. The value is immediately calculated after you change the parameter.

5.71 Economic Data

The "Economic Data" widget offers all important macroeconomic data by region.



First, select the from the drop-down list in the upper part of the widget. The following views are available:

- Comparison chart
- Germany
- G7/CH/Euroland
- Emerging markets

You can also select other display formats and time periods.

In the filter area on the left side, you have the possibility to select countries and categories in the "Filter search" area. Switch to the "Text search" area by clicking on it to search for products by entering specific terms in the search field. You can also use these two search filter options in combination.

The currently selected data is displayed at the top of the widget.

The settings saved in the "Economic Data" widget will be available to you the next time you log in.



The "Economic data" widget supports the CSV export of the historical data. You start the export via the widget menu.

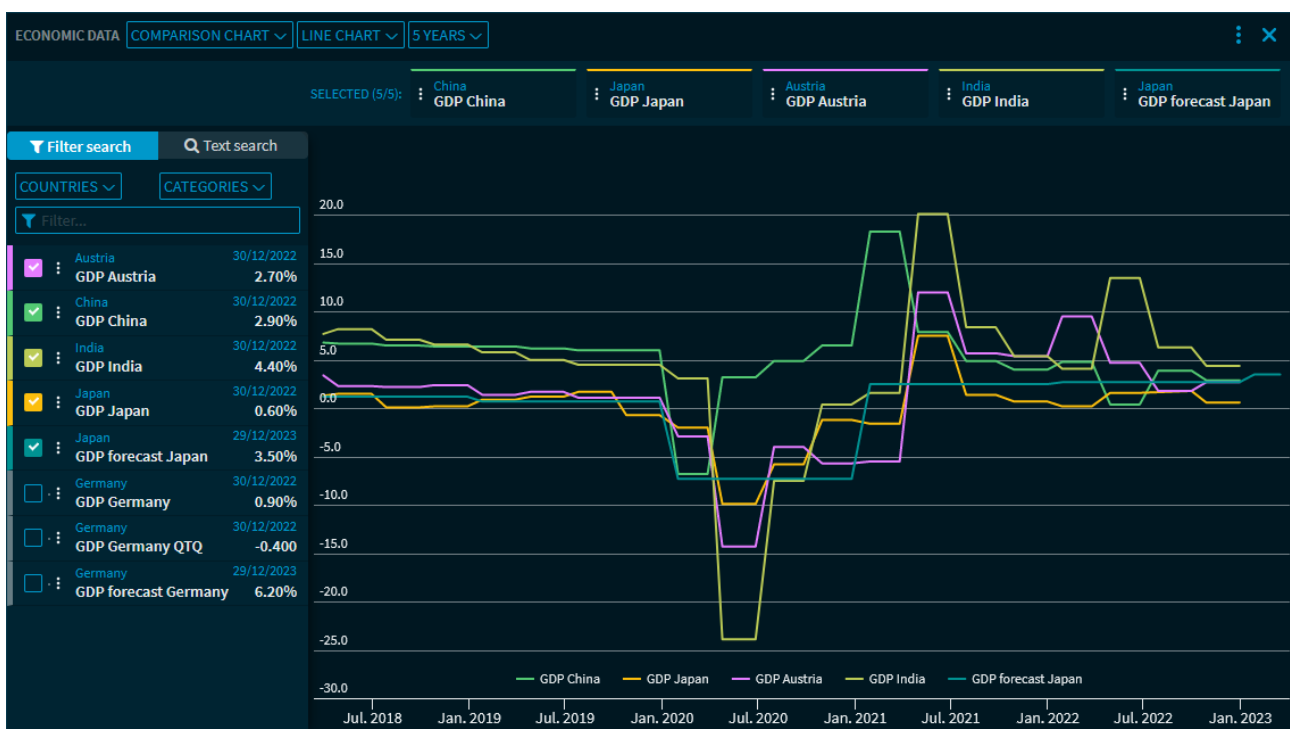
The following sections provide details on the views and data.

See also:

- [Economic Data - "Comparison chart" view: Line chart](#)
- [Economic Data - "Comparison chart" view: Bar chart](#)
- [Economic Data - "Germany" view](#)
- [Economic Data - "G7/CH/Euroland" view](#)
- [Economic Data - "Emerging markets" view](#)

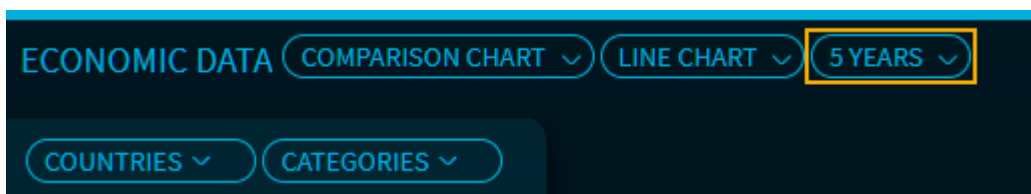
5.71.1 Economic Data - "Comparison chart" view: Line chart

From the drop-down list in the upper part of the widget, select the "Comparison chart" view (default view when you open the widget). With this chart, you can compare economic data for up to 5 countries over a period that you can configure.



With the second selection list, you can change the display from a line chart to a [bar chart](#).

You can select the comparison period from the third drop-down list in the upper part of the widget.

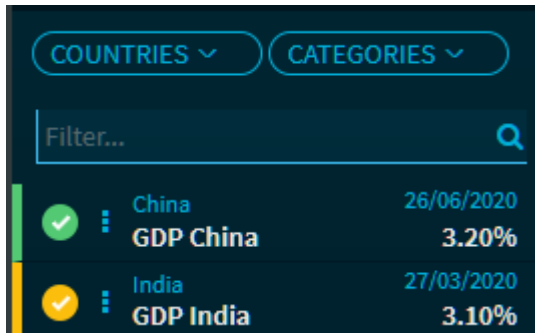


The following periods are available:

- 1 month
- 6 months
- Year to date
- 1 year
- 3 years

- 5 years (default setting)
- 10 years
- Max.

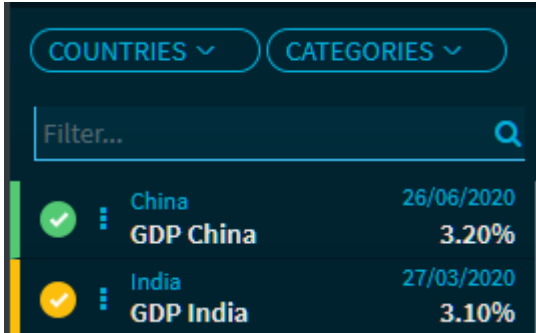
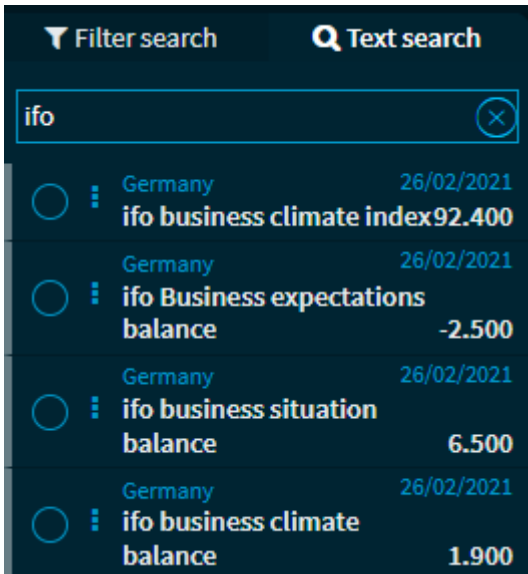

On the left side of the widget, use the filter and search to select the data to be displayed in the chart.

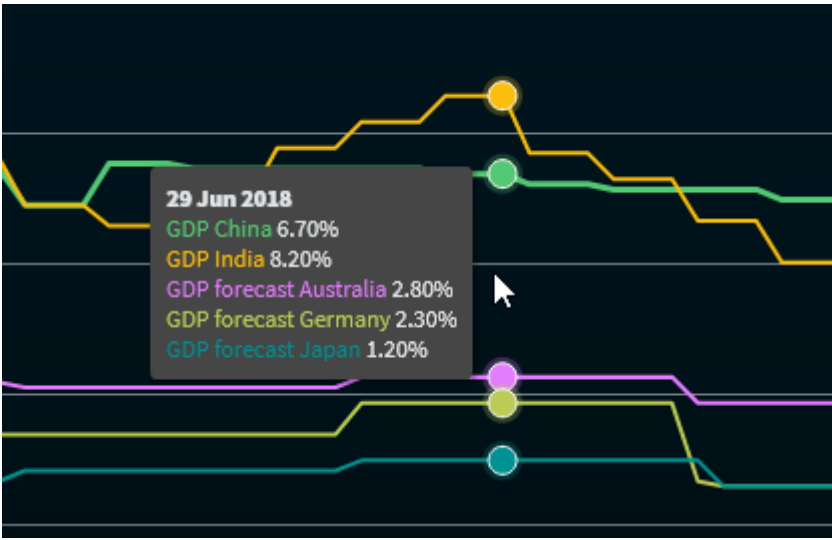
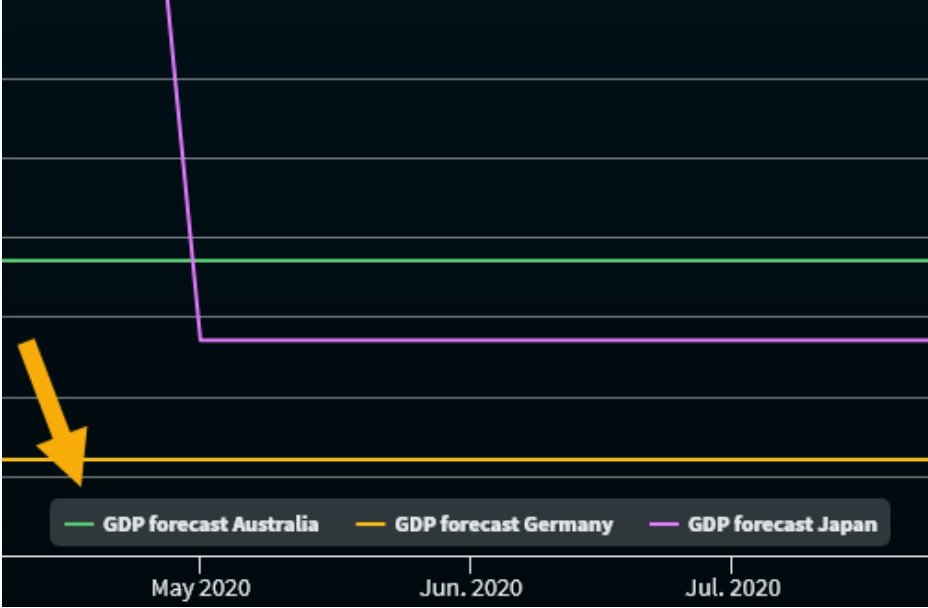


You can set the chart as follows:

Field	Description
Select country	Select the countries from the first drop-down list in the "Filter search" area. To do this, select from the alphabetically sorted entries in the drop-down list or use the "Select all" command to show all countries in the configuration area.

Field	Description
Select category	<p>Select the category from the second drop-down list. To do this, select the corresponding entry from the "View" drop-down list. The following data is available:</p> <ul style="list-style-type: none"> • Labour market • Incoming orders • GDP • Exchange rates • Foreign reserve • Personal income • Retail sales • Producer prices • Money supply • Leading indicator • Mortgage rate • ifo Business Climate Index • Index • Industrial production • Inflation • Capacity utilisation • Economic data • Trade balance • Key interest rate • Prime rate • Productivity • Other • Savings ratio • Consumer price • ZEW Economic sentiment • Interest
Filter	<p>Use this filter field to filter the entries currently shown in the configuration area. The filter applies as soon as you start typing.</p>

Field	Description
Selection buttons	<p>You can show or hide the data displayed on the left side at any time. To do this, select the corresponding button next to the corresponding entry:</p>  <p>The selected entries move to the top of the list, which is initially sorted alphabetically. You can select up to 5 entries. If you have already selected 5 entries and want to select a different one, you first need to clear the selection of an entry.</p> <p>The colour of the entry corresponds to the colour of the corresponding chart line.</p> <p>The country, name, date of the last update and the value are shown for each entry.</p>
Text search	<p>Switch to this tab to search for products by entering specific terms in the search field.</p>  <p>Make your selection just as in the filter area.</p>
Menu icon 	<p>Use the menu icon in front of an entry to open the instrument as usual in another widget of your choice, such as in a "Full Quote" or a "Chart" widget.</p>

Field	Description
Chart	<p>On the right side of the widget, you see the selected data for up to 5 chart lines. The colours corresponds to the colour of the corresponding selection button. Point to the chart line or the entries in the legend to view the exact price details:</p> 
Legend	<p>A legend is displayed in the chart. If you point to a legend entry, this time series is highlighted in the chart.</p> <p>Click the legend entry to hide the corresponding time series (it remains dimmed out in the legend and can be displayed at any time by clicking it again).</p>  <p>In this example, the data series "BIP Prognose Deutsch" above the legend is hidden.</p>

5.71.2 Economic Data - "Comparison chart" view: Bar chart

From the drop-down list in the upper part of the widget, select the "Comparison chart" view (default view when you open the widget). With this chart, you can compare economic data for up to 5 countries over a period that you can configure. In the second drop-down list, select the "Bar chart" view:



Point to the columns to display the associated data. You can use the legend entries to highlight the individual columns. For a description of the other functions and settings of the "Comparison chart" view of the widget, see [Economic Data - "Comparison chart" view: Line chart](#).

5.71.3 Economic Data - "Germany" view

From the drop-down list at the top, select the "Germany" view to see the most important economic data for Germany.

ECONOMIC DATA GERMANY		
TYPE		CURRENT
CAPACITY UTILIZATION		
Capacity utilisation DE		75.20% (25/09/2020)
CONSUMER PRICES		
HICP Germany		106.400 (31/07/2020)
ECONOMY		
Permits building constr.		10.100 (26/06/2020)
GDP		
GDP Germany		-11.30% (26/06/2020)
GDP forecast Germany		-8.80% (25/12/2020)
INCOMING ORDER		
In. orders DE (home)		4.30% (26/06/2020)
In. orders building constr.		-13.60% (29/05/2020)
In. orders construction		-5.50% (29/05/2020)

The data is sorted alphabetically and grouped in colour-coded categories ("Labour market", "Incoming orders" and "GDP"). In brackets after each value, you see the corresponding date of the last update.

Overview of the areas:

- Labour market
- Incoming orders
- GDP
- Retail sales
- Producer prices
- Money supply
- Mortgage rate
- ifo Business Climate Index
- Index
- Industrial production
- Inflation
- Capacity utilisation
- Economic data
- Productivity
- Other
- Consumer price
- ZEW Economic sentiment
- Interest

5.71.4 Economic Data - "G7/CH/Euroland" view

From the drop-down list at the top, select the "G7/CH/Euroland" view to see the most important conomic data for these regions.

ECONOMIC DATA		G7/CH/EUROLAND ▾								⋮	✕
	GERMANY	FRANCE	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	ITALY	JAPAN	CANADA	SWITZERLAND	UNITED STATES OF AMERICA	EURO COUNTRIES		
GDP	--	0.50% (30/12/2022)	--	1.40% (30/12/2022)	0.60% (30/12/2022)	--	--	0.90% (30/12/2022)	1.80% (30/12/2022)		
Industrial production	0.60% (24/02/2023)	1.26% (24/02/2023)	-4.30% (27/01/2023)	1.40% (27/01/2023)	-0.60% (24/02/2023)	1.82% (27/01/2023)	6.10% (30/12/2022)	--	--		
Inflation	7.40% (31/03/2023)	5.60% (31/03/2023)	10.40% (24/02/2023)	--	3.30% (24/02/2023)	--	2.90% (31/03/2023)	6.00% (24/02/2023)	6.90% (31/03/2023)		
Labour market	--	7.10% (27/01/2023)	3.80% (27/01/2023)	8.00% (24/02/2023)	--	--	1.90% (31/03/2023)	3.50% (31/03/2023)	6.60% (24/02/2023)		
Money supply	-2.70% (24/02/2023)	-2.70% (24/02/2023)	--	-2.70% (24/02/2023)	4.30% (24/02/2023)	--	--	-5.83% (24/02/2023)	-2.70% (24/02/2023)		
Prime rate	--	--	--	--	1.48% (07/04/2023)	6.70% (07/04/2023)	2.00% (07/04/2023)	8.00% (07/04/2023)	--		

The data is sorted alphabetically. In brackets below each value, you see the corresponding date of the last update.

Overview of the data:

- Labour market
- GDP
- Money supply
- Industrial production
- Inflation
- Prime rate/interest

This data is shown for the following countries or regions:

- Germany (G7)
- France (G7)
- Great Britain (G7)
- Italy (G7)
- Japan (G7)
- Canada (G7)
- Switzerland
- USA (G7)
- Eurozone (countries, which have adopted the euro)

5.71.5 Economic Data - "Emerging markets" view

From the drop-down list at the top, select the "Emerging markets" view to see the most important economic data for the major (East European) emerging markets.

ECONOMIC DATA		EMERGING MARKETS ▾					⋮	✕
		POLAND	SLOVAKIA	HUNGARY	RUSSIAN FEDERATION	CZECH REPUBLIC		
Inflation		16.20% (31/03/2023)	--	--	--	--		
Prime rate		--	--	--	45.00% (07/04/2023)	7.18% (07/04/2023)		

The data is sorted alphabetically. In brackets below each value, you see the corresponding date of the last update.

Overview of the data:

- Inflation

- Prime rate/interest

If available, this data is shown for the following countries:

- Poland
- Slovakia
- Hungary
- Russia
- The Czech Republic

5.72 Yield Curves

The "Yield Curves" widget shows yield curves for up to 6 different countries with a maturity term of up to 10 years. Select the date to define the time range of the historical yield curve.

In addition, you can compare yields of two countries in detail using a spread analysis.

Via the integrated securities search, corresponding securities (e.g. futures) can also be searched for and additionally displayed.

See also:

- [Yield Curves view](#)
- [Spread analysis](#)
- [Show individual securities](#)

5.72.1 Yield Curves view

If you have marked the desired countries in the upper drop-down list "Select country", the yield curves of the currently selected countries are displayed. You can select up to 6 different countries.

Below this you have the option of selecting several "versions" of the yield curves with different time intervals. To do this, activate the corresponding checkboxes or select a user-defined date via the integrated calendar.



On the x-axis, you see the term of the yield curves in years.

In the legend table below the chart, you see the corresponding values for 1 to 10 annual yields. When you point to a value in the table, it is also highlighted in the chart and vice versa.

5.72.2 Spread analysis

In addition to the yield curve view, the "Yield Curves" widget also offers the spread analysis. To do this, select the 2 yield curves to be compared in the spread selection lists on the right-hand side of the widget.

In the chart, the yield curves and the spread are graphically presented.



In the legend table below the chart, you see the corresponding values for 1 to 10 yields and the corresponding selected spread. When you point to a value in the table, it is also highlighted in the chart and vice versa.

5.72.3 Show individual securities

The securities search integrated into the "Yield Curves" widget can be used to search for several individual securities (e.g. futures) and display them via the "Add" button additionally.



Added securities can also be deleted again using the DELETE command in the menu icon of an instrument on the left side of the table.



Tullet chain symbols can also be added as individual values in the "Yield curves" widget.
Examples: 11886SECEURL.MRKTC.10Y, BMKGB01Y.TFI, SBSUSD.IIRSE.15Y, BMKNZ02Y.TFI, BMKNZ20Y.TFI

5.73 Index Membership

This widget shows all indices that include the selected security. In addition, you can view the results as a [Correlation Matrix](#) or in smaller tiles.

INDEX MEMBERSHIP

FRESEN.MED.CARE KGAA O.N.

TABLE

ISIN	NAME (SHORT)	TRADING VENUE	TIME	PAID	%	NET CHANGE	DELAY
EU0009658210	STXE 600 NR EUR	STOXX Ltd.	12:00:00	805.37	+0.04%	+0.31	DS
EU0009658731	STXE 600 HEALTH C.RE.EUR	STOXX Ltd.	12:00:00	1,628.01	+0.78%	+12.62	DS
DE0007203325	PRIME ALL SH. TR	XETRA	12:00:00	5,310.80	+0.51%	+27.02	DS
DE0001717049	L/E-DAX TR EUR	Frankfurt	08:59:00	13,028.56	+0.19%	+25.10	DS
DE0008469016	HDAX PERFORMANCE-INDEX	XETRA	12:00:00	7,179.61	+0.53%	+37.72	DS
DE0008469024	FAZ-INDEX	Stuttgart	12:00:00	2,285.39	+0.56%	+12.82	DS
DE000SLA1FE2	F.A.Z. EURO	Stuttgart	12:00:01	115.07	+0.17%	+0.19	DS
DE000SLA3AF6	F.A.Z. CHEMIE + PHARMA EO	Stuttgart	11:59:50	2,673.10	+0.66%	+17.54	DS
EU0009658194	ESTX NR EUR	STOXX Ltd.	31/08/2020	736.02	-1.01%	-7.54	DS
EU0009658350	ESTX HEALTH CARE RE.EUR	STOXX Ltd.	31/08/2020	1,363.58	-0.10%	-1.36	DS
DE0009660324	DAXSEC.PHA.+HEALTHC.TR	XETRA	12:00:00	4,482.06	+1.10%	+48.57	DS
DE000A0METL2	DAXPLUS MAX.SR.GER.TR.EUR	XETRA	12:00:00	956.01	+0.60%	+5.73	DS
DE000A1EXPL5	DAXPL.MAX.SH.RA.GE.NR EUR	XETRA	12:00:00	914.76	+0.60%	+5.48	DS
DE0008469008	DAX PERFORMANCE-INDEX	XETRA	12:00:01	13,012.17	+0.52%	+66.79	DS
DE0008469602	CDAX-GESAMTINDEX (PERF)	XETRA	12:00:00	1,221.26	+0.60%	+7.27	DS

The table is sorted by the "Name (short)" column in descending order by default.



The symbols in the "Delay" column indicate whether the data is displayed in real time or is delayed.

- RT: Real-time (real-time push)
- RS: Real-time snap (real-time snap)
- DL: Delayed (delayed push)
- DS: Delayed snap

Point to the symbols to view the delay in minutes.



With the menu icon, you can open the corresponding index in a new widget, for example as a [Chart](#) or a [Full Quote](#) widget. For more information, see [Commands in the widget menu](#).



Unlike in the "Correlation Matrix" widget, the "Correlation Matrix" view calculates the correlation of the indices.

See also:

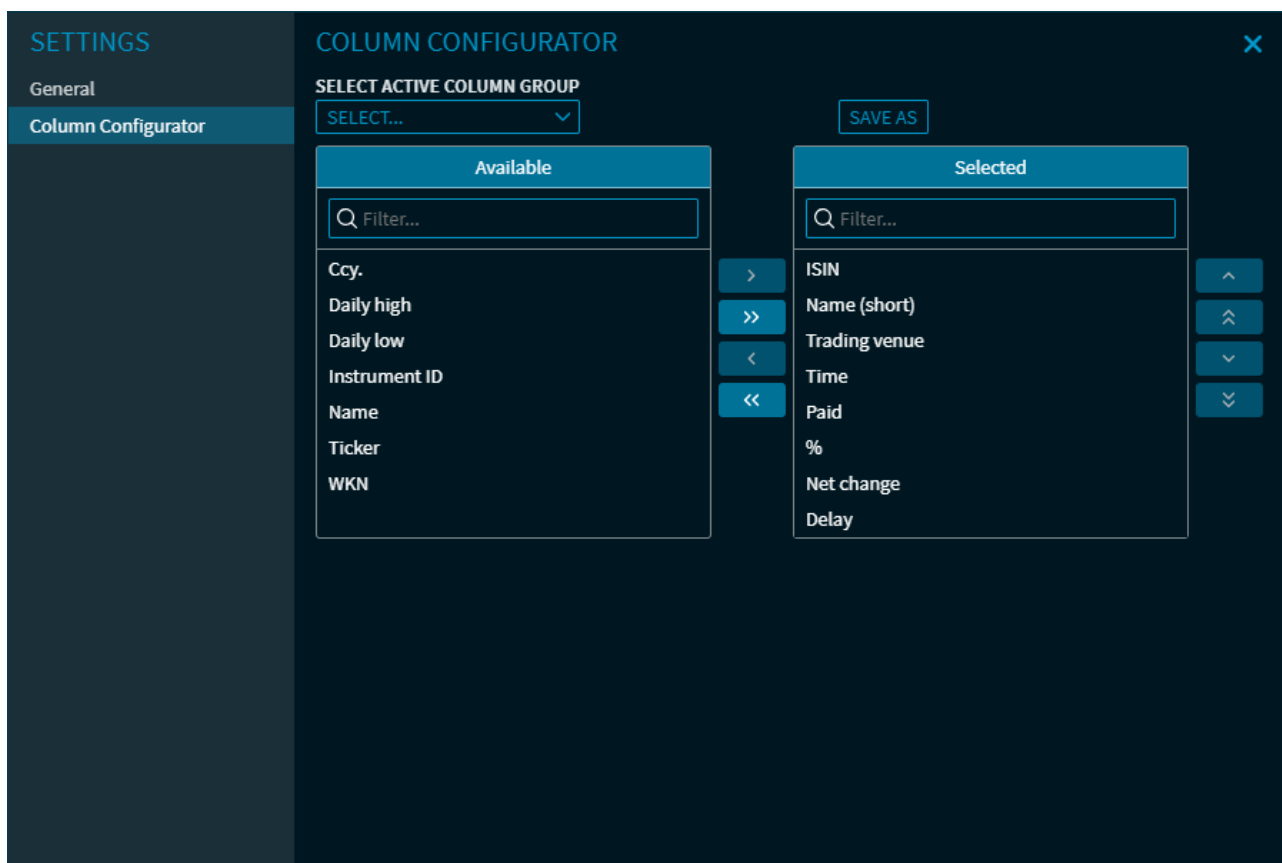
- [Settings in the "Index Membership" widget](#)

5.73.1 Settings in the "Index Membership" widget



Use the "Widget settings" icon to open the "Settings" dialogue window for configuring the widget.

Alternatively, you can use the "Settings" command in the widget menu.



Here, you can make the following settings:

- Enable or disable the push data feed
- Shows or hides columns of tables (in the example, the columns of the "Table" view).
- Settings in the "Correlation Matrix" view (with the corresponding view selected)

The setting options of the "Correlation Matrix" view corresponds to those in the "Correlation Matrix" widget. Because the correlation of the indices is calculated here, there are no settings for dividends and corporate actions. For more information about the settings, see the section [Settings in the "Correlation Matrix" widget](#).

For more information about the widget settings, see [Commands in the widget menu](#).

5.74 Ticker tape

You can add ticker tapes to your dashboard. The ticker tape is displayed above the widgets in the dashboard and shows the current price movements of the instruments it contains. Tickers, performance, price (in the respective currency) and daily percentage change are displayed. If no ticker is available, then the short name of the instrument is displayed in the ticker tape instead.



Point to the right border of the ticker tape to show a menu icon allowing you to change the theme, open the ticker tape settings or close the ticker tape.


In the settings of the ticker tape, you have the possibility to select the securities for the ticker tape. You can use indices, watchlists or portfolios to add their securities. See also [Ticker tape settings](#).

See also:

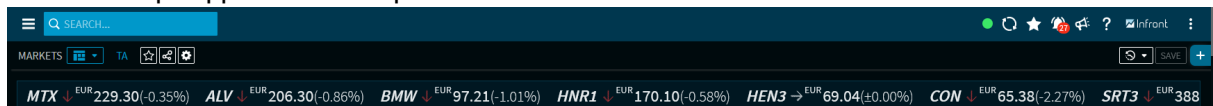
- [Add ticker tape](#)
- [Ticker tape elements](#)
- [Ticker tape settings](#)
- [Pin picker tape to top dashboard bar](#)
- [Hide ticker tape](#)

5.74.1 Add ticker tape

To add a ticker tape:

1.  Click the "Properties" icon in the upper left corner of the dashboard.
2. In the "Dashboard properties" dialogue window that appears, click the "Add ticker tape" button.
3. Finally, click the "Update" button to apply the configuration and close the "Dashboard properties" dialogue window.

The ticker tape appears at the top of the dashboard.



5.74.2 Ticker tape elements

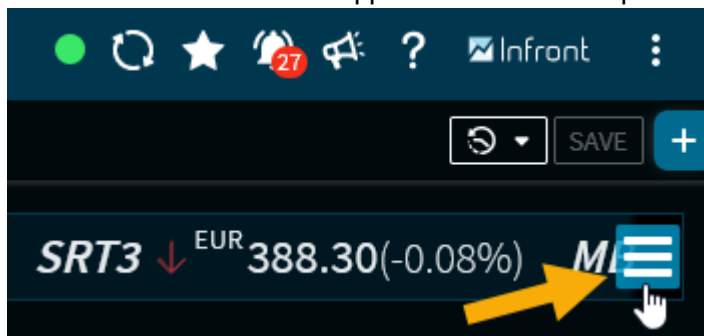
The ticker tape has the following elements:

- Symbol of the security
- Price performance arrow
- Currency
- Current price
- Change in percent against previous day's close

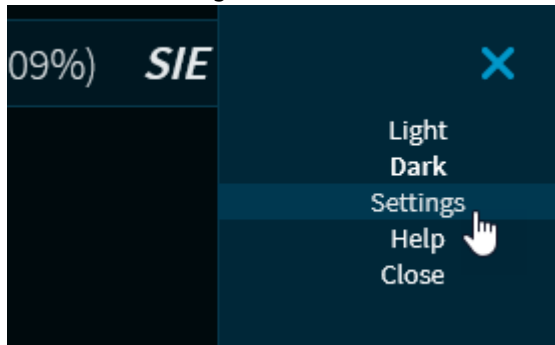
5.74.3 Ticker tape settings

To configure the ticker tape:

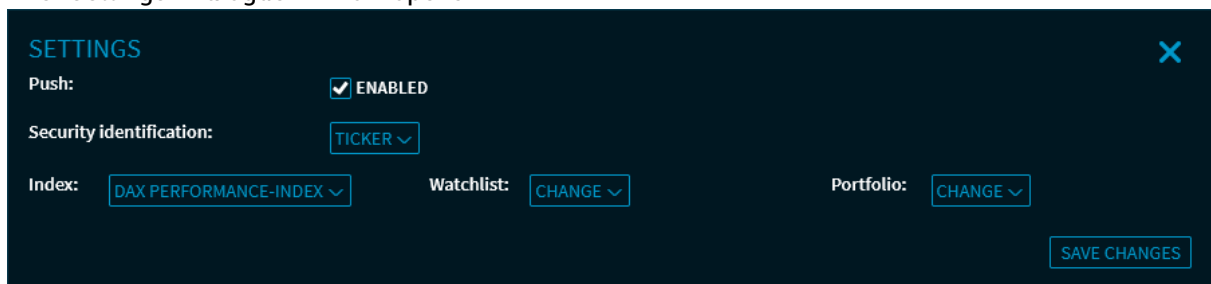
1. Point to the right end of the ticker tape.
2. Click on the menu icon that appears on the ticker tape.



3. Select the "Settings" command from the context menu of the ticker tape menu icon



The "Settings" dialogue window opens.



4. Click the "Save changes" button to close the "Settings" dialogue window and update the ticker tape.

You can specify the following settings:

- Enable or disable the push data feed
- Security identifier
Select here whether the ticker symbol (default setting) or the name of the respective security is to be displayed in the ticker type.



Point to the instrument value in the ticker tape to display the name as a tooltip by default.

- Index
Use the [Quick search](#) in the menu to select an index for the ticker tape.

Example

Select "CAC 40" to see the 40 members of the French CAC index.

- [Watchlist](#)
You can also select any created watchlist. The ticker tape will then show the individual securities from the Watchlist.
- [Portfolio](#)
You can also select any created portfolio. The ticker tape shows the individual securities from the portfolio.




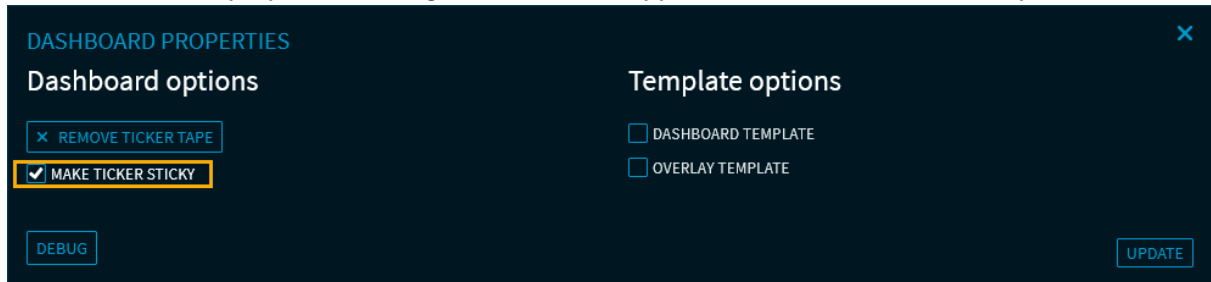
The menu also allows you to close the ticker tape and select the theme: "Dark" or "Light". For more information, see [Select theme](#).
Use the "Help" command in the context menu to open the "Ticker" page of your online help in the Help Center (in a new browser tab).

5.74.4 Pin picker tape to top dashboard bar

You can pin a ticker tape to the top dashboard bar so that it is always visible at the top of the screen even when scrolling.

To do this, follow these steps:

1.  Click the "Properties" icon in the upper left corner of the dashboard.
2. In the "Dashboard properties" dialogue window that appears, select the "Add ticker tape" checkbox.



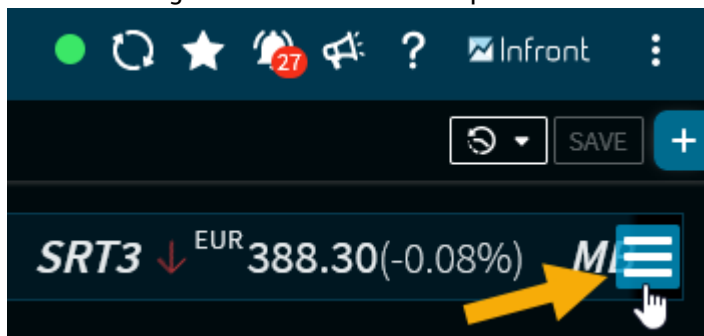
3. Finally, click the "Update" button to apply the configuration and close the "Dashboard properties" dialogue window.

The ticker tape is now pinned at the top.

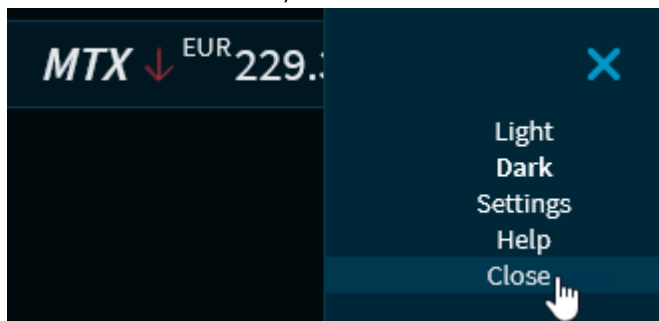
5.74.5 Hide ticker tape

To remove a ticker tape shown in the dashboard:

1. Point to the right border of the ticker tape.



2. Click on the menu icon that appears on the ticker tape.
3. From the context menu, select "Close".



The ticker tape is removed from the dashboard.

5.75 Time and Sales Vertical

If you have access to the established "Time & Sales" widget, you can now also use the "Time & Sales Vertical" widget. Here you can see the Bid, Ask and Trades including Volume for the selected security in live updated rows.

TS-VERTICAL
MERCEDES-BENZ GRP NA O.N.
XETRA (EUR)
50 TICKS

ZEIT	KURS	BRIEF	B-MENGE	GELD	G-MENGE	VOLUMEN (STK.)	VOL. GESAMT (STK.)	ANZAHL TRADES	AUKTION
06.06.2024, 10:36:33	65.78	65.79	1303	65.77	1321	383	433304		
06.06.2024, 10:36:33	65.78	65.79	1597	65.77	948	383	433304		
06.06.2024, 10:36:33		65.78	649	65.77	435				
06.06.2024, 10:36:32				65.77	1216				
06.06.2024, 10:36:31		65.79	1443	65.77	1382				
06.06.2024, 10:36:31		65.79	1443	65.77	1216				
06.06.2024, 10:36:30		65.79	1268	65.77	1382				
06.06.2024, 10:36:30	65.78	65.8	1165	65.78	306	192	432921		
06.06.2024, 10:36:27		65.8	1069	65.78	473				
06.06.2024, 10:36:27		65.8	521						
06.06.2024, 10:36:25		65.8	346						
06.06.2024, 10:36:24		65.8	217						
06.06.2024, 10:36:17	65.78	65.8	217	65.78	1959	857	432729	2868	0

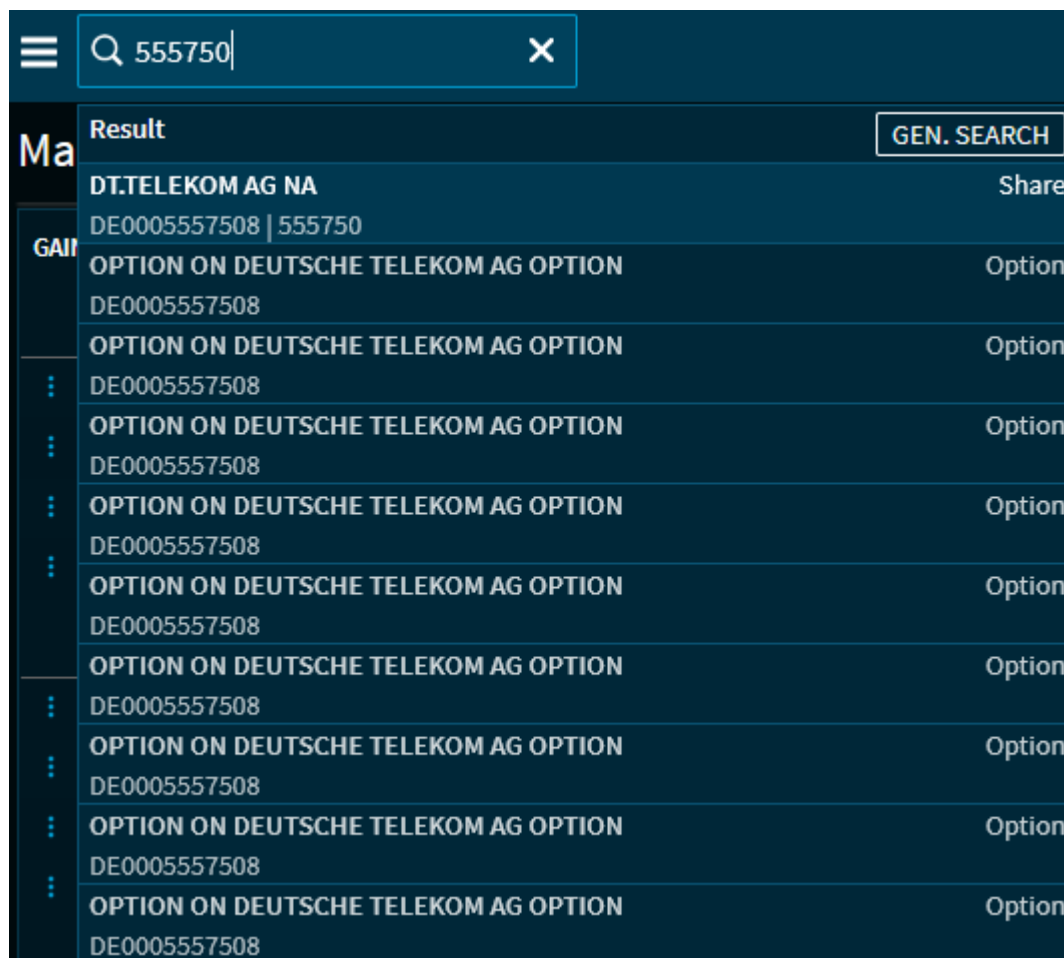
You can specify the number of ticks in a selection list.

In the "Time & Sales Vertical" widget, positive value changes are displayed in green and negative changes in red.

6 Search

Use the many options for searching securities in Infront Investment Manager.

In the upper part of Infront Investment Manager, an input field is always available for a quick search for securities.



Result		GEN. SEARCH
DT.TELEKOM AG NA	Share	
DE0005557508 555750		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		
OPTION ON DEUTSCHE TELEKOM AG OPTION	Option	
DE0005557508		

Enter your search term in the input field and select the relevant hit from the list.

If the matching hit is not available in the search results, you can use the "General search" button to switch to the general search, using help of which you can search and filter in detail for securities, pages and news.

In addition to the powerful (general) search, you find special menus and widgets to carry out a context-sensitive quick search. In this chapter, you find information about the various search functions.

See also:

- [Quick search](#)
- [General search](#)

6.1 Quick search

At the top of Infront Investment Manager, you need to search for securities in menus and widgets, you can use context-sensitive search fields. Thus you can quickly find the correct security.

Enter your search term in the search field and select the relevant hit. Or quickly select a security from the list of your last search terms ("[History](#)") or currently trending securities ("[Trending](#)").

6.1.1 Quick search via the input field in the title bar

Proceed as follows to search securities:

1. Enter the search term in the search field.



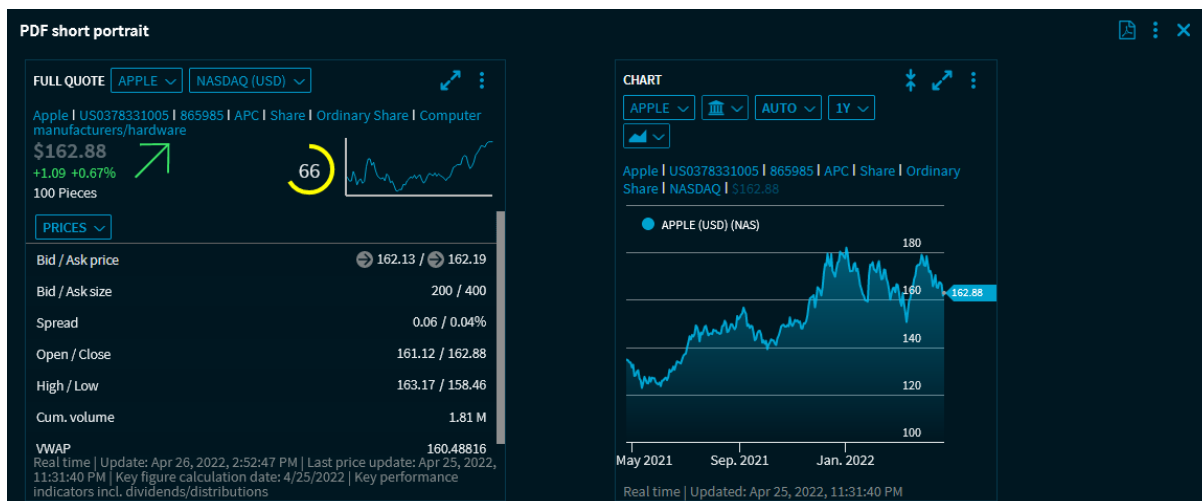
	History	Trending	GEN. SEARCH
Apple	US0378331005 865985		Share
Digital Turbine	US25400W1027 A14MRK		Share
Appian Corp	US03782L1017 A2DR9Y		Share
APPEN FPO [APX]	AU000000APX3 A12HVN		Share
AppFolio	US03783C1009 A14TU7		Share
Applied Materials	US0382221051 865177		Share
Applied DNA Sciences	US03815U3005 A2PUTA		Share
Applied Optoelectronics	US03823U1025 A1W4EQ		Share
APPLIED GRAPH.	GB00BFSSB742 A1W8HP		Share
Applied Genetic Technologies C	US03820J1007 A110V2		Share

The quick search shows you results as soon as you start typing the second letter and refines the search with every additional character.

Below the search field, these search results are shown with the name, asset class and WKN of the security. You can use the arrow keys to go through the search results.

2. Select the hit you are looking for.

This is then first opened in a [Short portrait](#) and can be processed further, for example by using the menu icon.



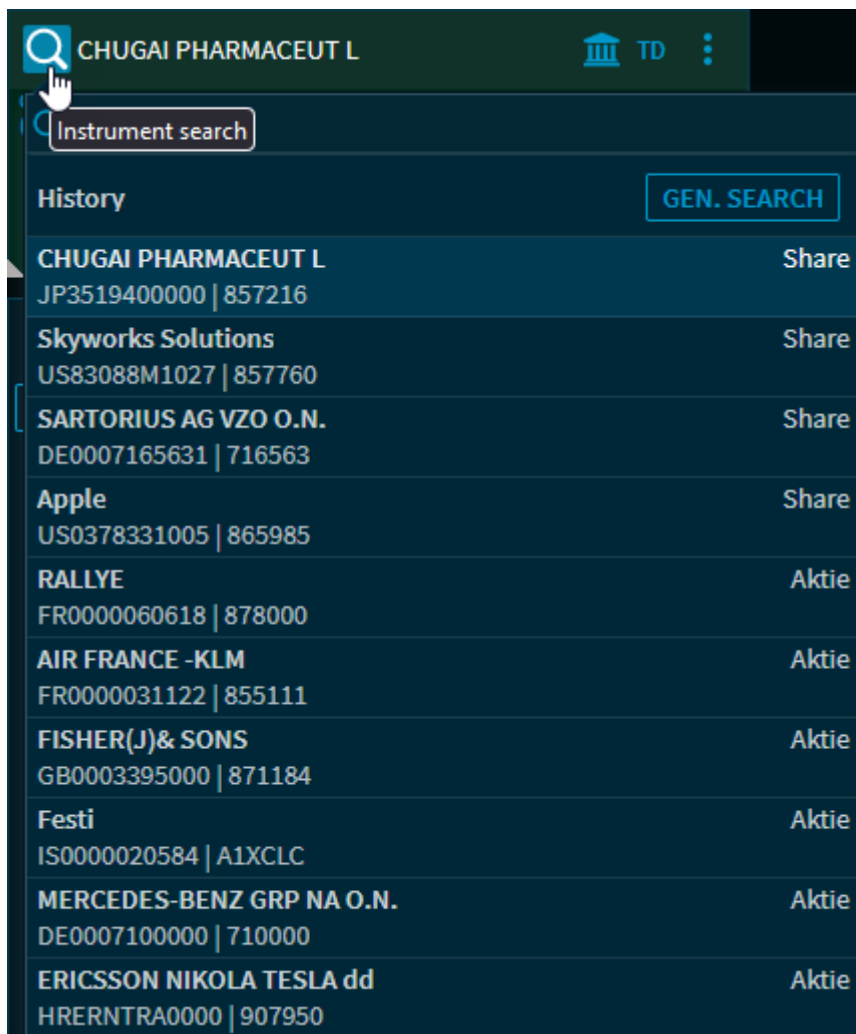
As an alternative to selecting the hit by mouse click, you can also **drag and drop** it directly from the search results into a widget on the dashboard.



If you do not find the desired result via the quick search in the title bar, switch to **General search** by using the "General search" button.

6.1.2 Quick search in menus and widgets

A quick search is also integrated in numerous widgets, analogous to the quick search via the title bar described above. For example, you always open a quick search for selecting the input object by click the "Instrument search" icon at the top left in widgets.



Instrument	Share Type
CHUGAI PHARMACEUT L JP3519400000 857216	Share
Skyworks Solutions US83088M1027 857760	Share
SARTORIUS AG VZO O.N. DE0007165631 716563	Share
Apple US0378331005 865985	Share
RALLYE FR0000060618 878000	Aktie
AIR FRANCE -KLM FR0000031122 855111	Aktie
FISHER(J)& SONS GB0003395000 871184	Aktie
Festi IS0000020584 A1XCLC	Aktie
MERCEDES-BENZ GRP NA O.N. DE0007100000 710000	Aktie
ERICSSON NIKOLA TESLA dd HRERNTA0000 907950	Aktie



If you do not find the relevant result via the quick search in the title bar, switch to [General search](#) by using the "Gen. Search" button.

See also:

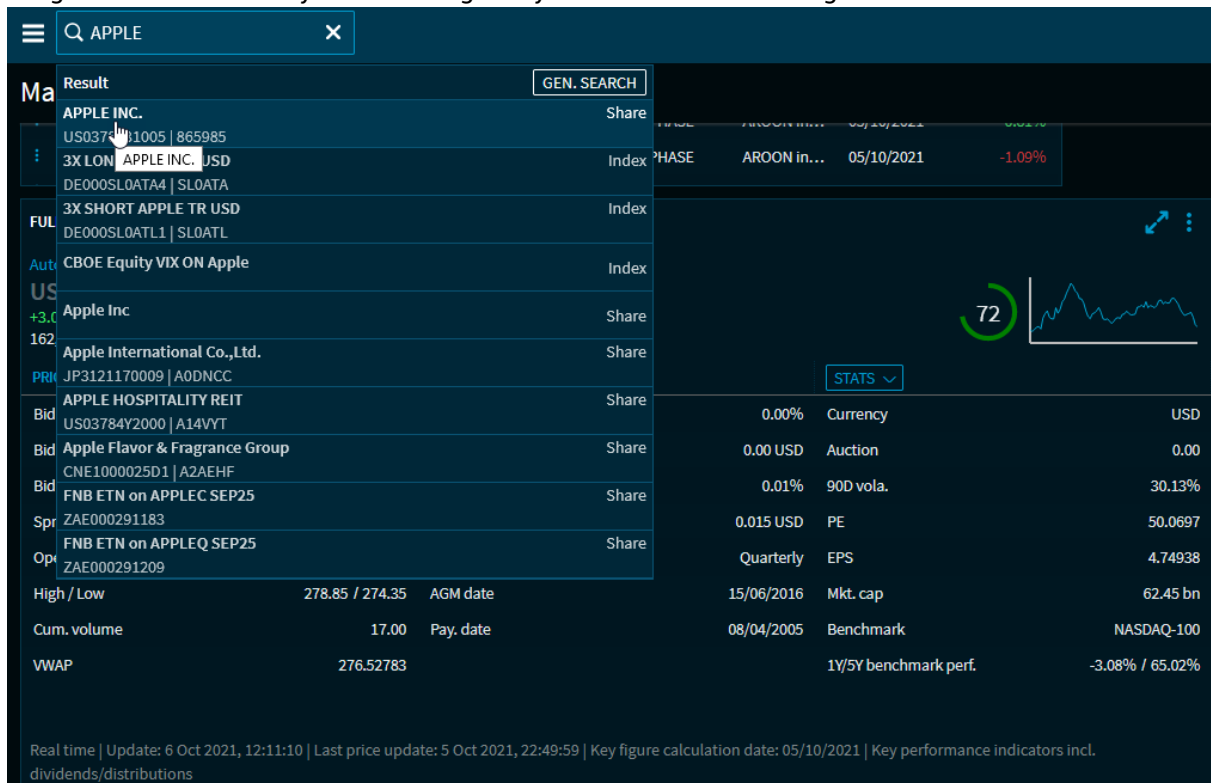
- [Open results of the quick search via drag](#)
- [Quick search - History](#)
- [Quick search - Trending](#)

6.1.3 Open results of the quick search via drag

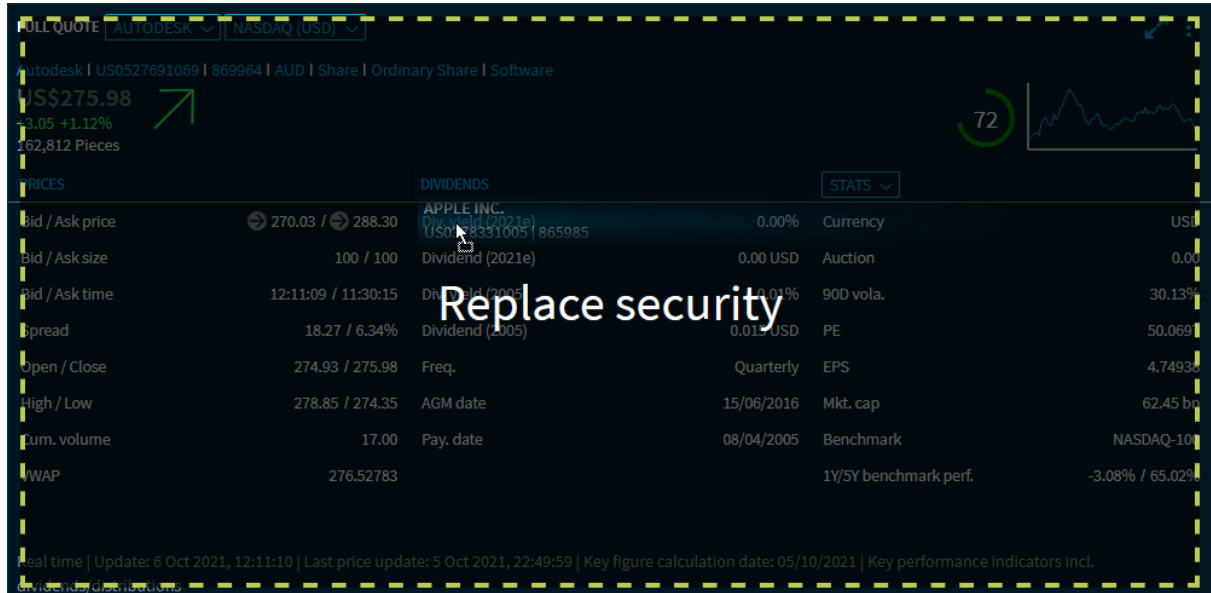
Instruments from the quick search results list, the history or the "Trending" list can be transferred directly to widgets of the current dashboard via drag & drop.

To do this, follow these steps:

1. Drag the relevant security into the widget of your choice while holding down the left mouse button.



2. Release the mouse button over the widget when the window with the "Replace security" message is visible in the widget.



The security from the search result is now displayed in the widget.



6.1.4 Quick search - History

In the quick search at the top of Infront Investment Manager, instead of entering a search term in the search field in the "History" section, you can also quickly (re)select a security from the list of your last 10 search terms.

	History	Trending	GEN. SEARCH
L'OREAL	FR0000120321 853888		Share
NESTLE N	CH0038863350 A0Q4DC		Share
NEMETSCHEK SE O.N.	DE0006452907 645290		Share
ESTX 50 PR.EUR	EU0009658145 965814		Index
S&P 500 Index	US78378X1072 A0AETO		Index
SMI® PR	CH0009980894 969000		Index
DAX PERFORMANCE-INDEX	DE0008469008 846900		Index
Repligen Corp	US7599161095 870980		Share
AS SI I Gl Sust & Res Inc A	LU0094547139 989897		Fonds
ASMALLWORLD N	CH0404880129 A2JE3W		Aktie

6.1.5 Quick search - Trending

In the quick search at the top of Infront Investment Manager, instead of entering a search term in the search field in the "Trending" area, you can also quickly select a security from the list of currently popular search terms.

	History	Trending	GEN. SEARCH
		TWITTER INC. DL-,000005 Share US90184L1026 A1W6XZ	
		PrivatFonds: Kontrolliert Fund DE000A0RPAM5 A0RPAM	
		NETFLIX INC. DL-,001 Share US64110L1061 552484	
		DEUTSCHE POST AG NA O.N. Share DE0005552004 555200	
		RHEINMETALL AG Share DE0007030009 703000	
		SIEMENS AG NA O.N. Share DE0007236101 723610	
		HSBC HLDGS PLC DL-,50 Share GB0005405286 923893	
		Unilmmo: Deutschland Fund DE0009805507 980550	
		MICROSOFT DL-,00000625 Share US5949181045 870747	
		ALTRIA GRP INC. DL-,333 Share US02209S1033 200417	

In the "Trending" section, you will find the 10 securities that are preferentially selected for alerts, watchlists and portfolios on the last 3 working days.

6.2 General search

In the (general) search, the securities databases are searched for hits. To start a search:

1. Enter the search term in the quick search at the top.
2. Select the appropriate hit in the search result of the quick search or start the detailed search by using the **"General search" button**.

	Result	Trending	GEN. SEARCH
	MERCEDES-BENZ GRP NA O.N. Share DE0007100000 710000		
	Peoples Bancorp of North Carol Share US7105771072 923674		
	LianBio Share US53000N1081 A3C6D0		

- Refine your search in the search screen of the general search. You start each search process here with the <RETURN> key or the search icon ("magnifying glass") to the right of the input field.

710

Include instruments without first price or with outdated prices

Search

SELECTED (1)

INSTRUMENTS Quotations

Certificate 203 ETF 23 Fund 4 Leverage 1,034 Option 1,921 Share 50 Open in Screener

WKN	ISIN	INSTRUMENT ID	COUNTRY	TRADING VENUE	NAME	CURRENCY	TIME	PRICE	NET CHANGE	%	B SIZE	BID	ASK	A SIZE	CUM. VOLUME	CLOSE PRICE
<input type="checkbox"/>	710000	DE0007100000	Germany	Berlin	MERCEDES-BENZ GROUP AG NAM...	EUR	2:13:32 PM	57.69	+2.20	+3.96%	4,334	57.69	57.80	4,326	140	55.49
<input type="checkbox"/>	710000	DE0007100000	Germany	Banque Cant...	MERCEDES-BENZ GROUP AG NAM...	EUR	3:24:01 PM	57.72	+2.44	+4.41%	—	0.00	0.00	—	—	55.28
<input type="checkbox"/>	710000	DE0007100000	Germany	Düsseldorf	MERCEDES-BENZ GROUP AG NAM...	EUR	3:03:29 PM	57.72	+2.50	+4.53%	700	57.73	57.76	700	65	55.22
<input type="checkbox"/>	710000	DE0007100000	Germany	CHI-X 4	MERCEDES-BENZ GROUP AG NAM...	EUR	2:36:20 PM	57.89	+2.54	+4.59%	0	0.00	57.90	45	490	55.35
<input checked="" type="checkbox"/>	710000	DE0007100000	Germany	XETRA	MERCEDES-BENZ GROUP AG NAM...	EUR	3:25:34 PM	57.76	+2.55	+4.60%	380	57.73	57.76	1,429	1 M	55.25
<input type="checkbox"/>	710000	DE0007100000	Germany	BATS - BXE - D...	MERCEDES-BENZ GROUP AG NAM...	EUR	3:20:37 PM	57.725	+2.21	+3.97%	9	39.00	57.90	40	4 K	55.52
<input type="checkbox"/>	710000	DE0007100000	Germany	Frankfurt	MERCEDES-BENZ GROUP AG NAM...	EUR	3:05:23 PM	57.73	+2.24	+4.04%	440	57.73	57.77	440	2 K	55.49
<input type="checkbox"/>	710000	DE0007100000	Germany	Switzerland	Mercedes-Benz	CHF	10/17/22	95.00	+0.00	+0.00%	100	63.97	0.00	0	0	95.00
<input type="checkbox"/>	710000	DE0007100000	Germany	Hamburg	MERCEDES-BENZ GROUP AG NAM...	EUR	3:04:11 PM	57.71	+2.39	+4.32%	478	57.75	57.78	866	4 K	55.32
<input type="checkbox"/>	710000	DE0007100000	Germany	Switzerland	Mercedes-Benz	EUR	10/17/22	55.00	+0.00	+0.00%	20	0.00	52.17	60	0	55.00
<input type="checkbox"/>	710000	DE0007100000	Germany	Hannover	MERCEDES-BENZ GROUP AG NAM...	EUR	2:17:53 PM	57.67	+3.30	+6.07%	380	57.73	57.76	866	71	54.37
<input type="checkbox"/>	710000	DE0007100000	Germany	Milan After ho...	MERCEDES-BENZ GROUP	EUR	7:00:00 AM	55.20	—	-3.49%	0	0.00	0.00	0	75	55.20
<input type="checkbox"/>	710000	DE0007100000	Germany	Munich	MERCEDES-BENZ GROUP AG NAM...	EUR	1:14:24 PM	57.46	+2.27	+4.11%	285	57.75	57.77	259	52	55.19
<input type="checkbox"/>	710000	DE0007100000	Germany	Milan	MERCEDES-BENZ GROUP NAMEN...	EUR	3:07:43 PM	57.71	+2.51	+4.55%	240	57.52	57.72	660	2 K	55.20
<input type="checkbox"/>	710000	DE0007100000	Germany	Stuttgart	MERCEDES-BENZ GROUP AG NAM...	EUR	3:25:05 PM	57.74	+2.32	+4.19%	2,771	57.75	57.75	2,771	15 K	55.42
<input type="checkbox"/>	710000	DE0007100000	Germany	Cboe Europe	MERCEDES-BENZ GROUP AG NAM...	EUR	3:24:53 PM	57.72	+2.33	+4.21%	482	57.73	57.75	103	1 M	55.39
<input type="checkbox"/>	710000	DE0007100000	Germany	Tradegate	MERCEDES-BENZ GROUP AG NAM...	EUR	3:24:02 PM	57.71	+2.37	+4.28%	600	57.73	57.75	900	169 K	55.34
<input type="checkbox"/>	710000	DE0007100000	Germany	London SE Int...	MERCEDES ORD MERCEDES-BENZ...	EUR	3:24:53 PM	57.72	+2.33	+4.20%	10,000	57.15	58.34	10,000	394 K	55.395

- The hits are displayed in the search results.

The search results are subdivided in areas for each individual type. Use the buttons above to switch to the type of security you are looking for. Below on the buttons, the number of securities found for a type is shown in brackets. The columns displayed are optimised for the individual types of securities. By using the "Instrument/Quotes" switch, you can decide whether you want to display all quotes of the securities at the respective trading venues or only the instruments.



Tips

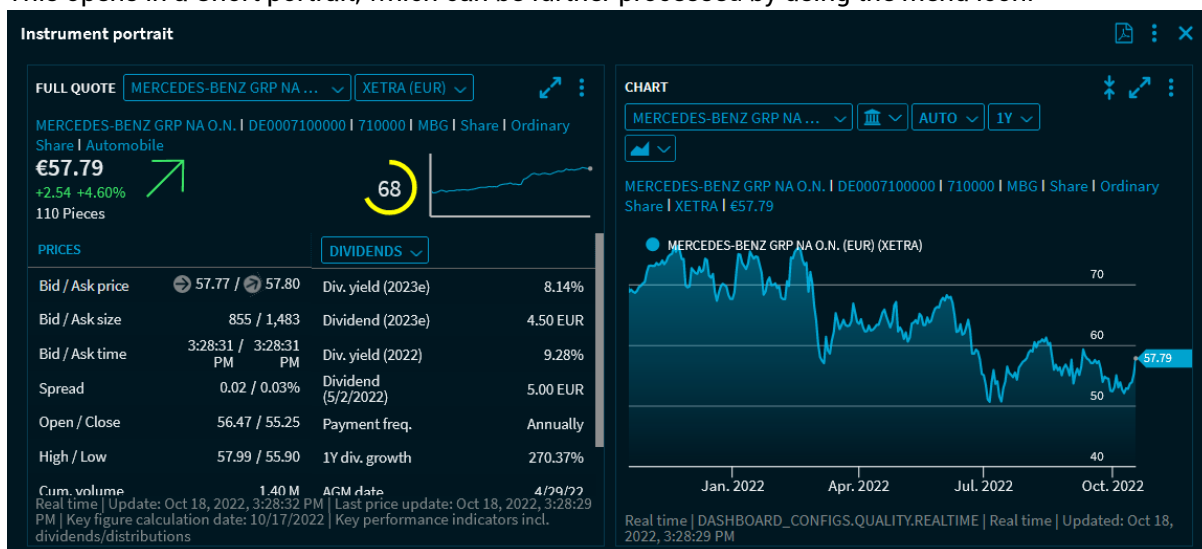
Click the "Open in screener" button to open the currently displayed search result in the corresponding **Screener** (in the example above, in the share screener). Use this functionality to refine your search when there is a great number of hits in the screener.

Directly below the input field, you can also search for securities without a current price that are ignored by default in the search using the "Include securities without first price or with outdated prices" button.

For the hits in the search result, you can decide in the User profile settings whether the hit at the default trading venue should be displayed first when searching for securities in the search result. This setting is selected by default. If this setting is cleared, then for example for German standard shares, "XETRA" is displayed as the first search result (however, this also depends on the activations).

5. Select the corresponding search result by clicking it.

This opens in a Short portrait, which can be further processed by using the menu icon.

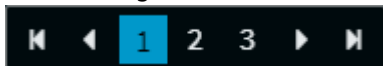


6. In the "Place widget" dialogue box that appears, specify whether you want to place the widget at the top of the dashboard ("Add to top" button) or at the end of the dashboard ("Add to bottom" button):



The new widget, for example, the "Full Quote" - widget, will then open at the corresponding place in the dashboard.

Securities selected by clicking them are displayed in the dashboard at the selected position in a "Full Quote" widget.



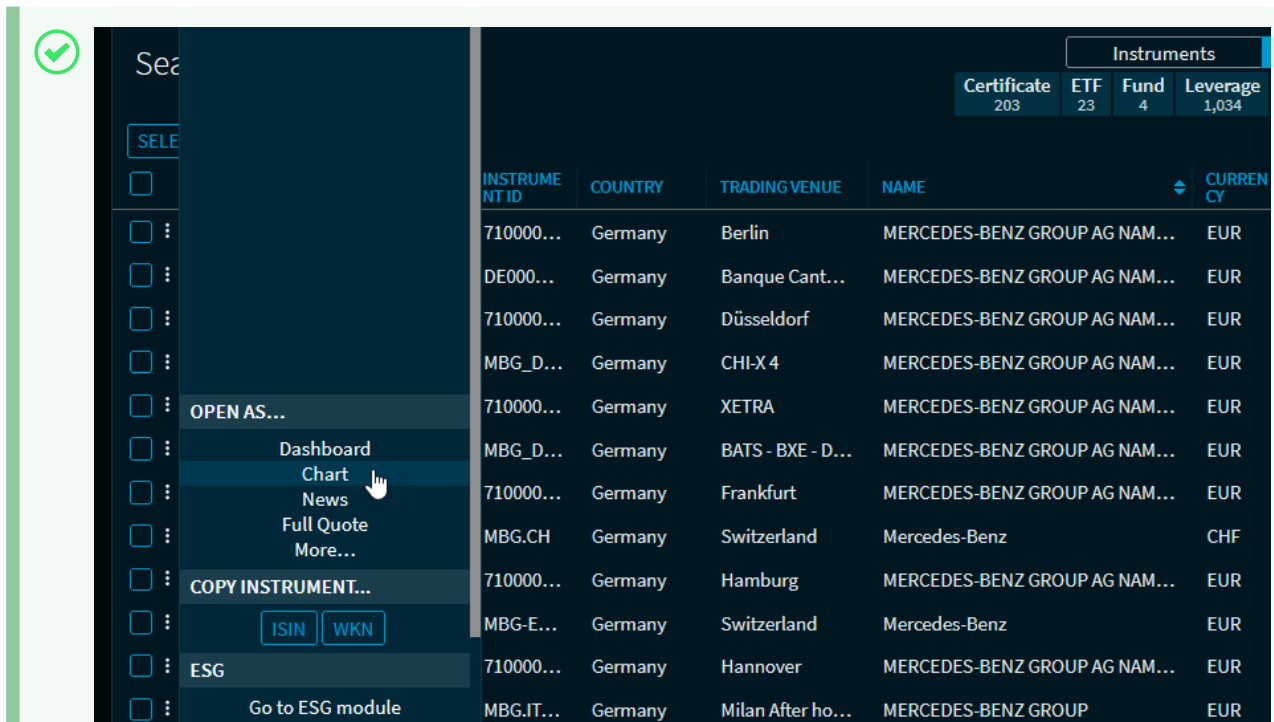
You can go through the pages by using the navigation elements that appear when you "mouse over". Use the "Mouseover" to show navigation elements that you can use to page through the list.



You can also use the checkboxes in the first column to select multiple hits and add them to a watchlist or portfolio of your choice. For more information, see [Select several hits from the search results](#).

To close the search without selecting an instrument, click the "Close" icon to the right in the upper

right corner of the search window and press <ESC>.



Use the menu icon to the left of each row to Security type open securities in the default dashboard for this security type. The usual commands for opening the instrument in other widgets (chart, news...) are also available. Use the alert icon at the bottom of the "Tools" area to switch directly to the ["Price alert" dialogue window](#). Commands are also available to open the security in Compass or the ESG module.

See also:

- [Select several hits from the search results](#)

6.2.1 Select several hits from the search results

If you have carried out your search as described above, you can also select several hits or securities in the search results. To do this, select the checkboxes of the relevant rows or securities in the first column.

SELECTED (7) ▾		
<input type="checkbox"/>	NAME	INSTRUMENT ID
<input checked="" type="checkbox"/>	LBBW BONUS-Z 22 SAP	LB1TYL.FFMST
<input checked="" type="checkbox"/>	LBBW BONUS-Z 22 SAP	LB1V3N.STG
<input checked="" type="checkbox"/>	LBBW BONUS-Z 22 SAP	LB1V3N.FFMST
<input type="checkbox"/>	VONTOBEL FI.ANL.18/21SAP	VA8SZS.STG
<input type="checkbox"/>	VONTOBEL FI.ANL.18/21SAP	VA8SZS.FFMST
<input checked="" type="checkbox"/>	LB.HESS.-THR.DUO19/21SAP	HLB8LM.FFMST
<input checked="" type="checkbox"/>	UC-HVB DIZ21 SAP	HX665U.STG
<input checked="" type="checkbox"/>	UC-HVB DIZ21 SAP	HX665U.FFMST
<input type="checkbox"/>	UC-HVB DIZ21 SAP	DE000HX665U3.MCHMM

Use the checkbox in the column heading to select all securities in the search results of the currently selected security type.

If you have selected several hits, you will find the following further commands in the "Selected" drop-down list above the search results:

Command	Description
Add to watchlist	<p>Select this command to add the selected securities to a watchlist.</p> <p>Here, you can decide in the menu whether you want to use an existing watchlist or create a new watchlist.</p> <p>The functionality corresponds to that in the screener results list. For more information, see Wertpapiere aus Screener zu bestehender Kursliste hinzufügen and Create instruments from Screener as new watchlist.</p>
Add to portfolio	<p>Select this command to add the selected securities to a portfolio.</p> <p>Here, you can decide in the menu whether you want to use an existing portfolio or create a new portfolio.</p> <p>The functionality corresponds to that in the screener results list. For more information, see Wertpapiere aus Screener zu bestehendem Portfolio hinzufügen and Create instruments from Screener as new portfolio.</p>
Clear all selections	Select this comment to clear all currently selected checkboxes.

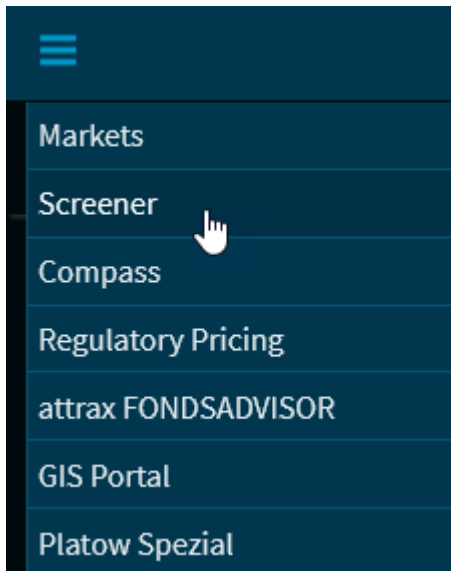
The number of currently selected hits in all security types is shown in brackets in the "Selected" drop-down list.

7 Screener

The Screener provides alternative ways to search and filter for securities in Infront Investment Manager.



To start the screener, select "Screener" from the main menu that you open by clicking the menu icon on the top left.



The Screener allows you to create search and filter screens that you can configure according to your needs. You can open the so-called "screens" directly from the start page of the Screener.

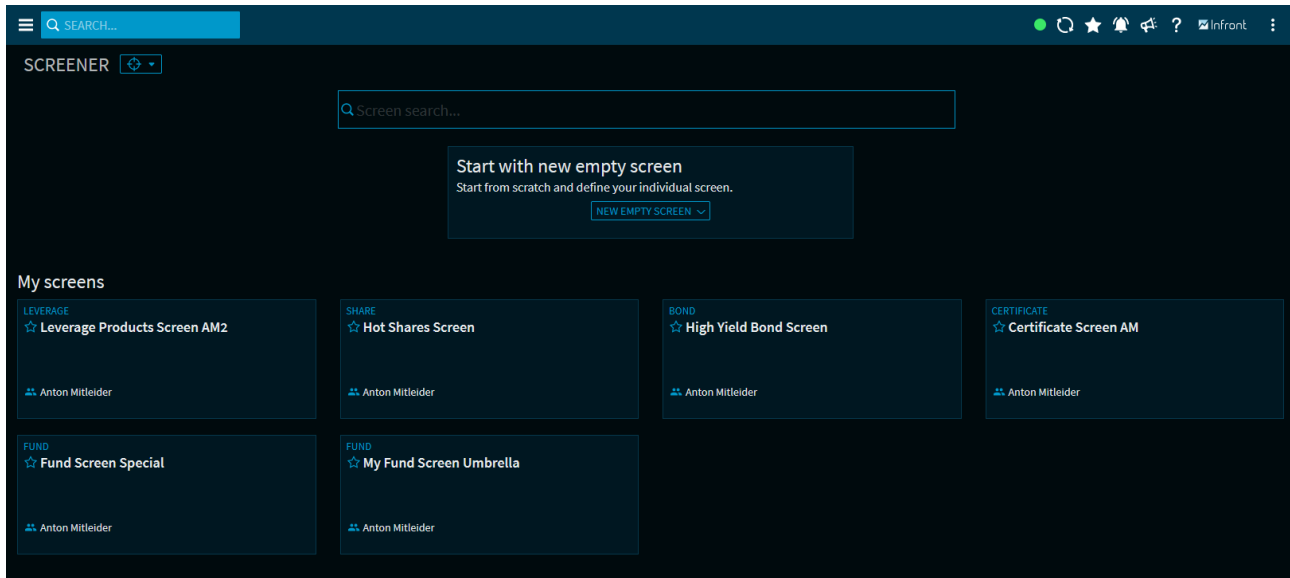
See also:

- [Screener start page](#)
- [Open screens](#)
- [Standard elements in screens](#)
- [Filter screens](#)
- [Save screens](#)
- [Save screens as copy with another name](#)
- [Screen settings](#)
- [Mark screens as favourites](#)
- [Show results in Screener](#)
- [Open short portraits from results list](#)
- [Export instruments from Screener to Excel](#)
- [Add instruments from Screener to existing watchlist](#)
- [Create instruments from Screener as new watchlist](#)
- [Add instruments from Screener to existing portfolio](#)
- [Create instruments from Screener as new portfolio](#)
- [Fund Screener](#)
- [Certificate Screener](#)
- [Bond Screener](#)
- [Share Screener](#)
- [Leverage Screener](#)
- [CDS Screener](#)
- [Issuer Screener](#)

- [Delete screens](#)

7.1 Screener start page

On the Screener start page, you can manage and [open](#) all screens. There are various ways to open the corresponding screens for your securities analysis.



In the upper area of the Screener start page, you find the [Screener Explorer](#) and [Screen Search](#) as well as the tiles for the quick start with empty or standard screens. Below, you find your private screens you created, and below you find other screens available to you.

7.2 Open screens

In the Screener, you have various options to open a screen:

- Select a saved screen from the Screener Explorer on the start page.
- Select screen from search
- Select from personal favourites
- Directly select from added screens
- Selection from in-house screens
- Creation of a new (empty) screen for each security type (drop-down list with "Start with new empty screen")
- Creation of a new (empty) screen for each security type via the Screener Explorer in an open screen



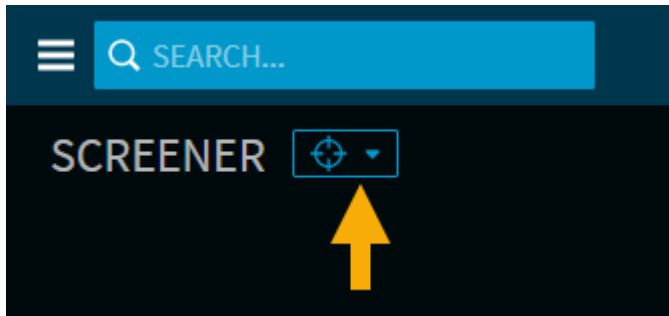
When you save a screen, you also save the currently selected display. For example, if you have selected the display as result list (with hidden filter settings) when saving, this screen will be opened again next time with the result list in full screen mode.

See also:

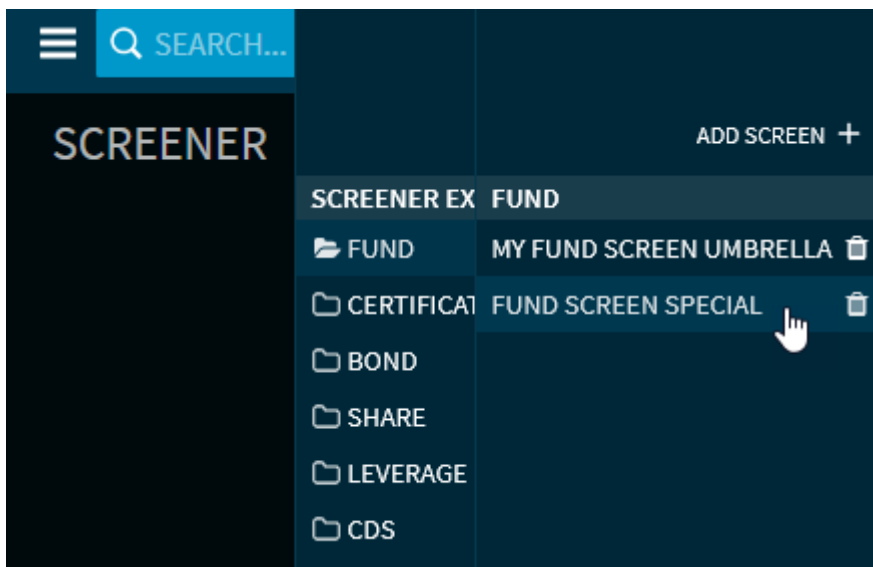
- [Open screen from the Screener Explorer](#)
- [Open screen from the screen search](#)
- [Open screen using the tiles on the Screener homepage](#)
- [Create and open a new empty screen](#)

7.2.1 Open screen from the Screener Explorer

You can open the saved screens from the Screener Explorer. You find the Screener Explorer at the top left of the screener.



Divided in the various security types, you can quickly find the screens in the Explorer and open them by clicking the corresponding entries in the Screener Explorer.

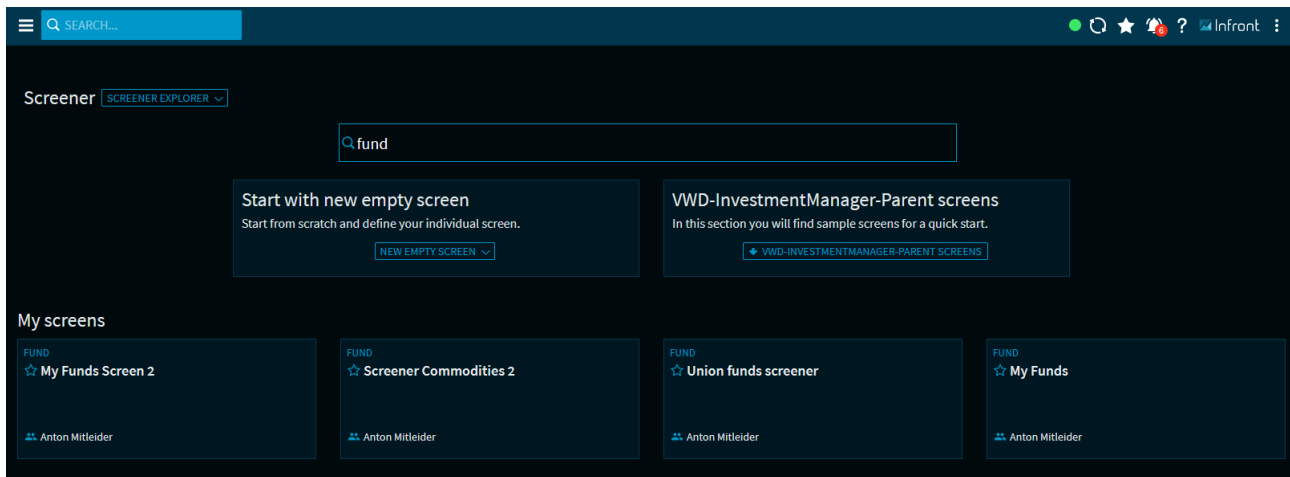


7.2.2 Open screen from the screen search

You can filter the screens using the screen search on the screen start page.

The list of the recently added screens as well as the favourite screens are filtered when you enter the search term.

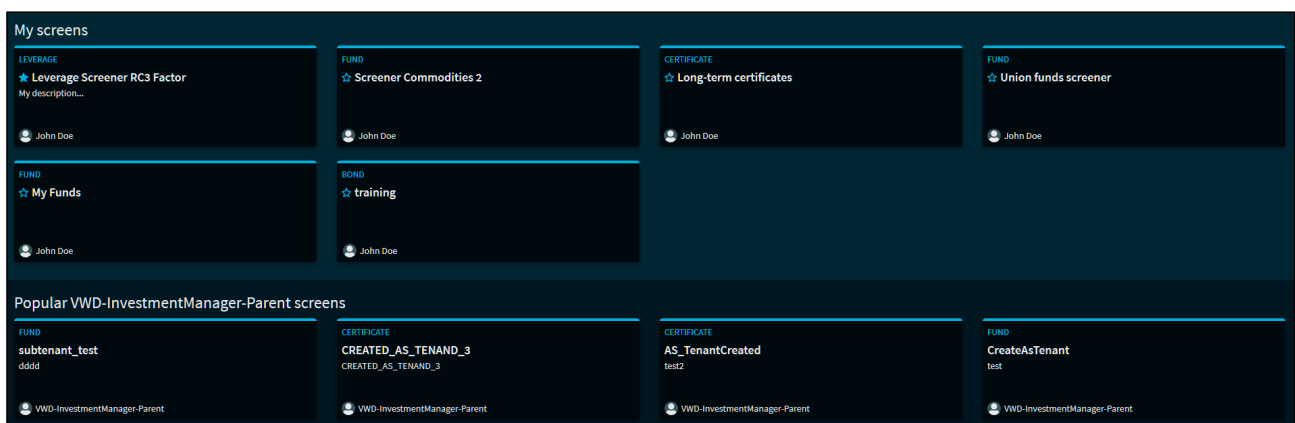
This allows you to quickly find the right screen and open it by clicking the corresponding screen tile.



Then open the screen by clicking the tile.

7.2.3 Open screen using the tiles on the Screener homepage

Use the list of your own screens to open a screen by clicking the tile on the Screener start page. Here, you find the recently added screens.

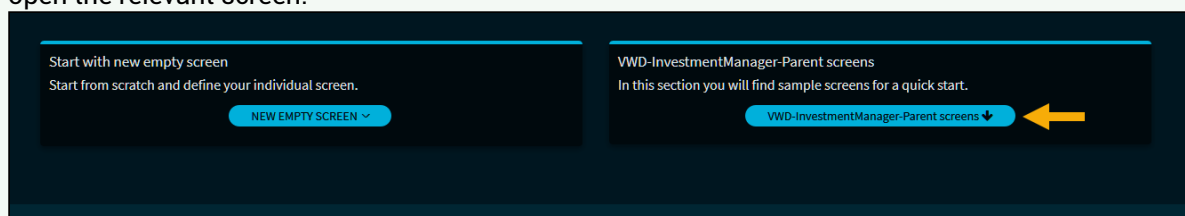


You can also quickly start the [favourites](#) you selected by clicking the respective tile - favourites are sorted at the top of the list of your own screens.

Under your personal screens, you find further in-house or predefined screens available to you.



By clicking the button in the right upper tile, you jump directly to this lower area where you can open the relevant screen.

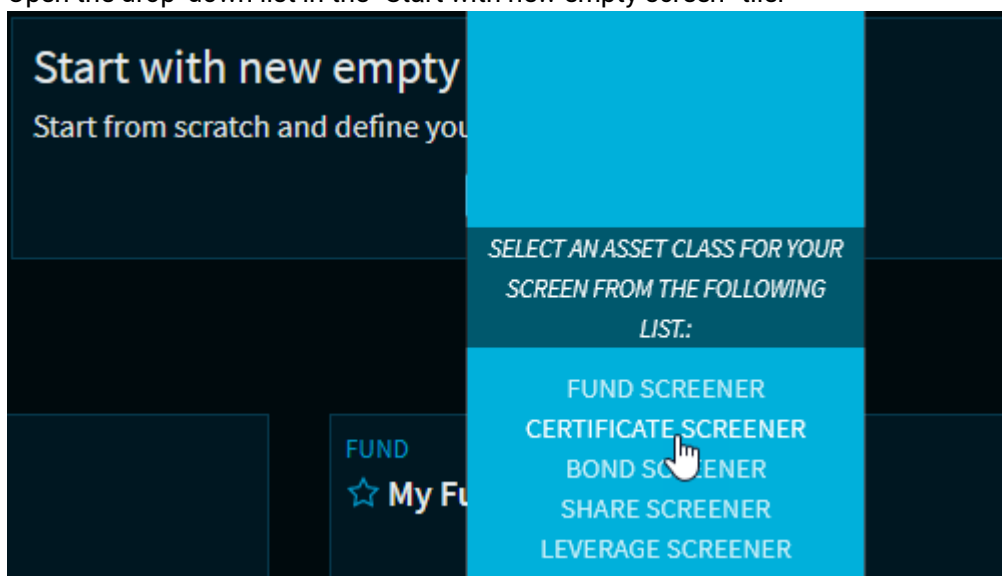


By using the [Screen Search](#), you can quickly find the desired screen in extensive lists.

7.2.4 Create and open a new empty screen

If you are on the [screener start page](#), proceed as follows to create a new screen for a security type

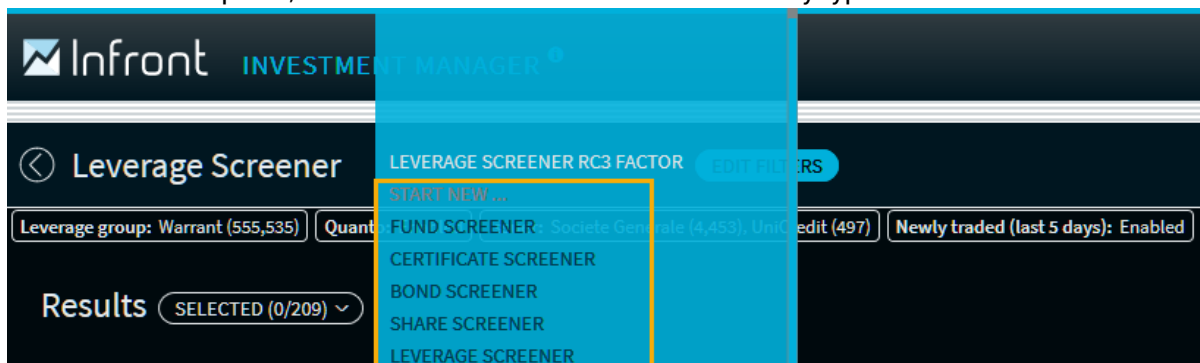
1. Open the drop-down list in the "Start with new empty screen" tile.



2. Select the relevant asset class (or security category).
This opens the new screen, where you can set your filter conditions.

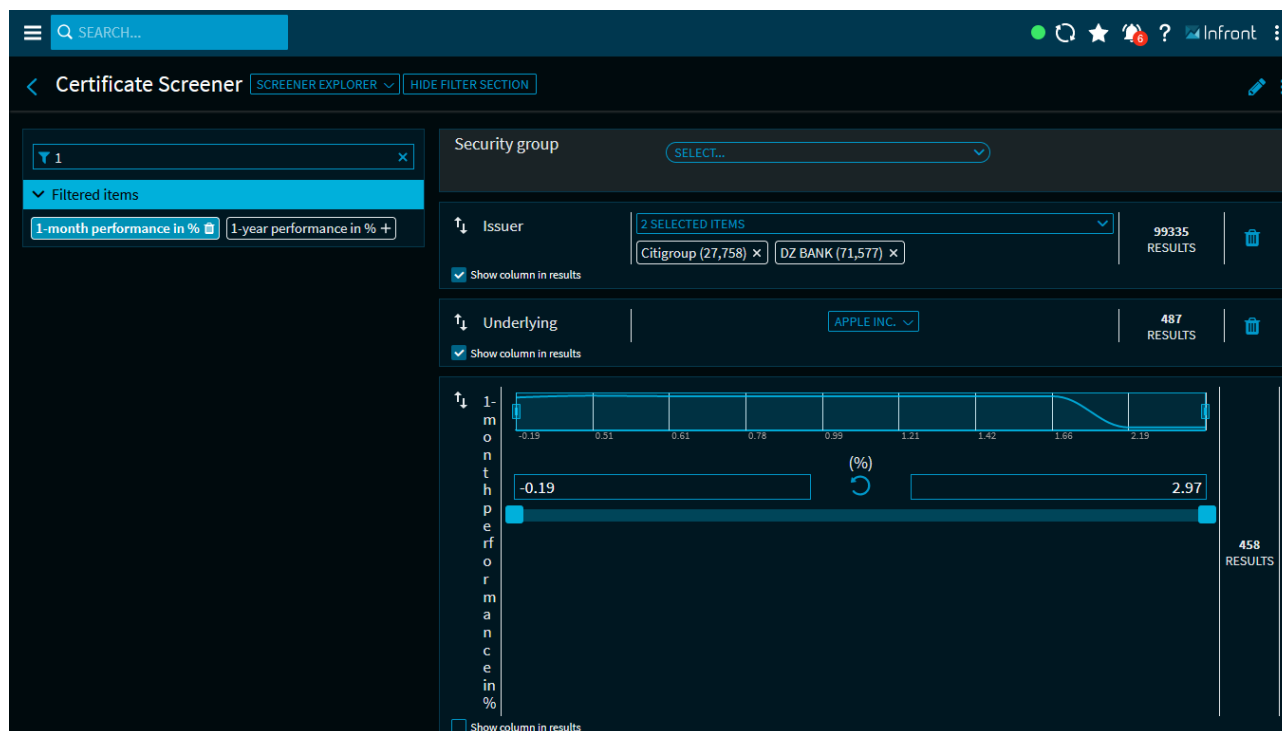
If you are in an open screen, proceed as follows to create a new screen for a security type (without returning to the screener start page):

1. If necessary, first save your changed settings in the currently open screen.
2. Open the screener Explorer.
3. In the Screener Explorer, select the screener for the relevant security type in the "Start new..." area.

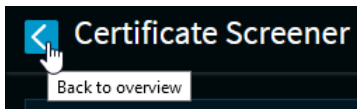




This opens the new screen and you can set your filter conditions.

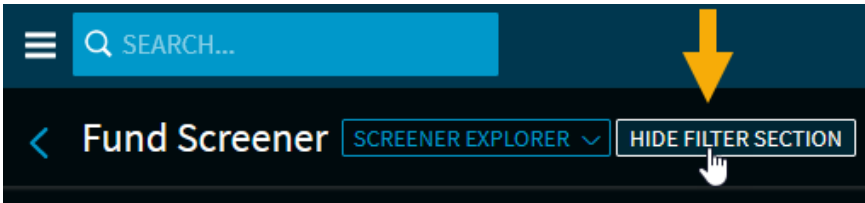
7.3 Standard elements in screens



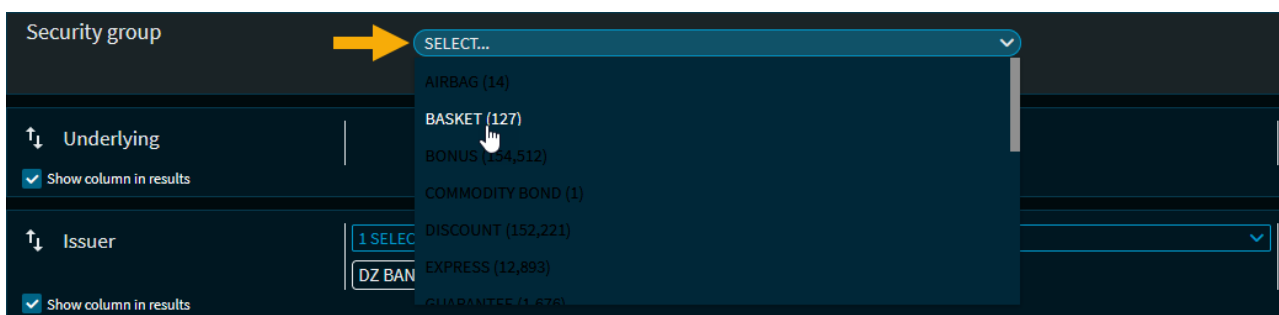
In a screen (see [Select screens](#)), the following standard elements are available in the filter view:

Element	Description
	Click the "Back to overview" icon in the upper left corner to leave the current screen and return to the Screener start page .
Screener Explorer	From the drop-down list of the Screener Explorer above, you can select another screen for the currently selected security type or a new empty screen for any security type.
"Hide filter" button or "Edit filter" button	You can maximise the results at the bottom of the screen by clicking the "Hide filter" button and hide the filter conditions at any time. If the results are displayed, you can return to the filter conditions by clicking the "Edit filter" button. See also the section Show results in Screener .
"Discard changes" button	If you made any changes in your screen but haven't saved them yet, you can undo the changes with the "Discard changes" button (appears only if there are changes).

Element	Description
 "Save screen as..." icon or "Save screen" icon	<p>Allows you to save the current screen configuration.</p> <p>After saving a screen for the first time, the "Save screen" disk icon replaces the "Save screen as..." icon.</p> <p>See also Save screens.</p>
 "Menu" icon	<p>In the menu of this icon you will find the commands and functions described below.</p>
"Menu" icon - "Save screen as" command	<p>This command allows you to save the current screen configuration.</p> <p>See also Save screens.</p>
"Menu" icon - "Save screen as copy" command	<p>(This command is available only if the currently open screen has already been saved.)</p> <p>Select this command to save the current screen configuration as a copy with a different name.</p> <p>See also Save screens.</p>
"Menu" icon - "Delete screen" command	<p>(This command is available only if the currently open screen has already been saved.)</p> <p>Deletes the screen currently open.</p> <p>For more information, see Delete screens.</p>
"Menu" icon - "Settings" command	<p>(This command is available only if the currently open screen has already been saved.)</p> <p>Select this command to view and, if necessary, change the screen settings in the "Settings" dialogue window that appears.</p> <p>See also Screen settings.</p>
"Menu" icon - "Results settings" command	<p>Select this command to view and change the screen result settings in the "Settings" dialogue window that appears.</p> <p>See also Show results in Screener.</p>
Filters	<p>The filter area is the central area of the screen. Here, you specify your filter conditions for the instrument selection.</p> <p>For more information, see Filter screens.</p>

Element	Description
Results	<p>The results of your search are displayed at the bottom of the screen.</p> <p>You can maximise the results at any time - with the filter area currently displayed - by clicking the "Hide filter" button.</p>  <p>See also the section Show results in Screener.</p>

For some security types, you can find additional drop-down lists. For example, you can select certain types for certificates and leveraged products before the actual filter settings:

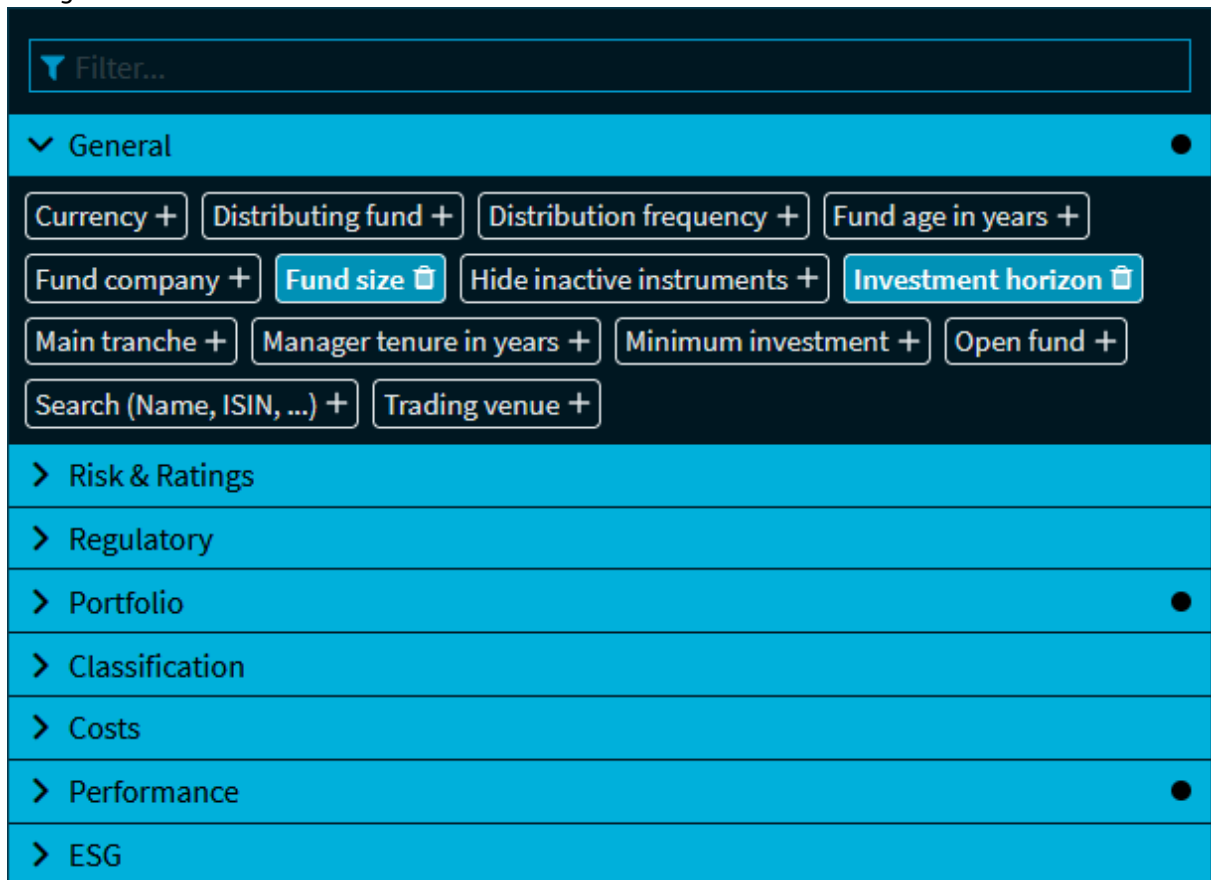


7.4 Filter screens

Specify individual filter criteria for your screens. To do this, follow these steps:

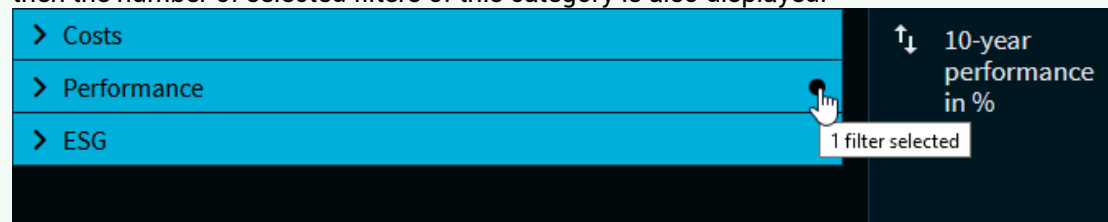
1. If necessary, open the corresponding screen.
2. Click the "Edit filter" button.
3. Select the new filters in the filter area on the left side by **clicking or dragging and dropping them**. On the left side of the dialogue window with the filter selection, you find a search function and the filter

categories.

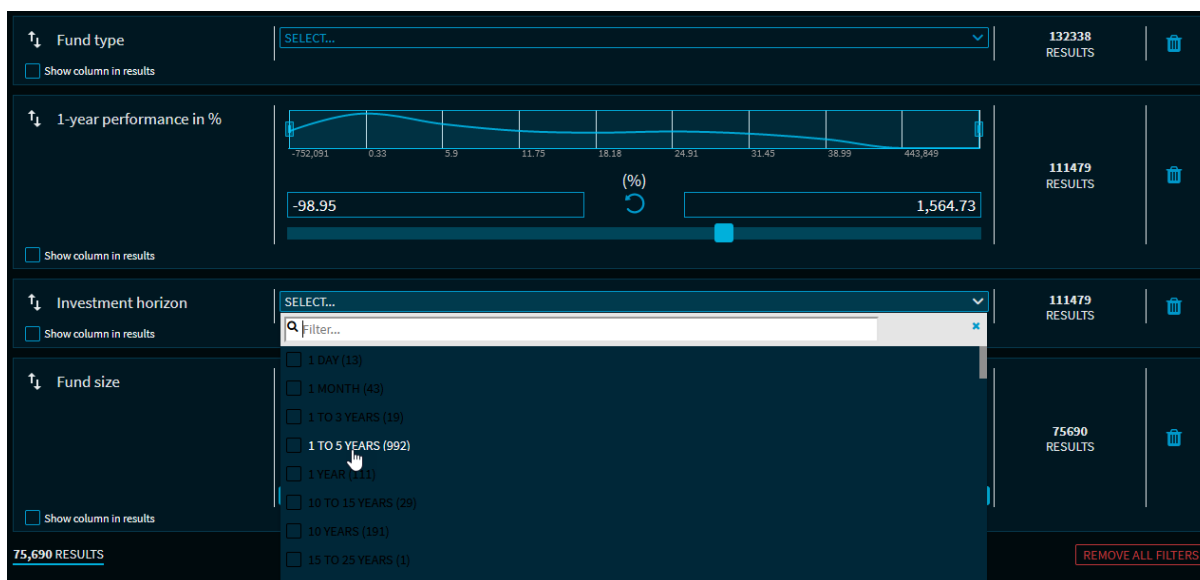



Click the button again to remove the selected filter.

The currently selected filters are highlighted. In addition, the black dots behind the category names indicate that filters of this category are currently selected. If you point to the points, then the number of selected filters of this category is also displayed:

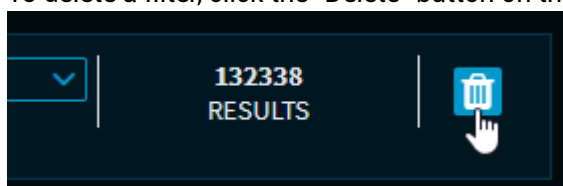


4. Now specify the individual filter conditions. Often, you have drop-down lists, sliders and "From - To" input fields to specify the filters.

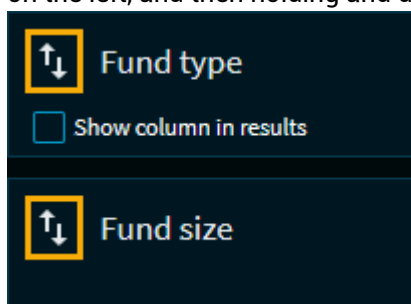


Under the filter conditions, you will always see the current number of matching search results in the securities universe according to the current filter settings. Add further filters to narrow down the results. The number of results is also shown for each individual filter condition. If a filter condition does not return any results, then this is highlighted by a red upper border and an exclamation mark in the lower right corner. You can open a dialogue window for deleting or readjusting the filter. In addition, the number of research results is shown next to each entry in the drop-down lists (as illustrated in the image above).

To delete a filter, click the "Delete" button on the right side of the filter conditions:



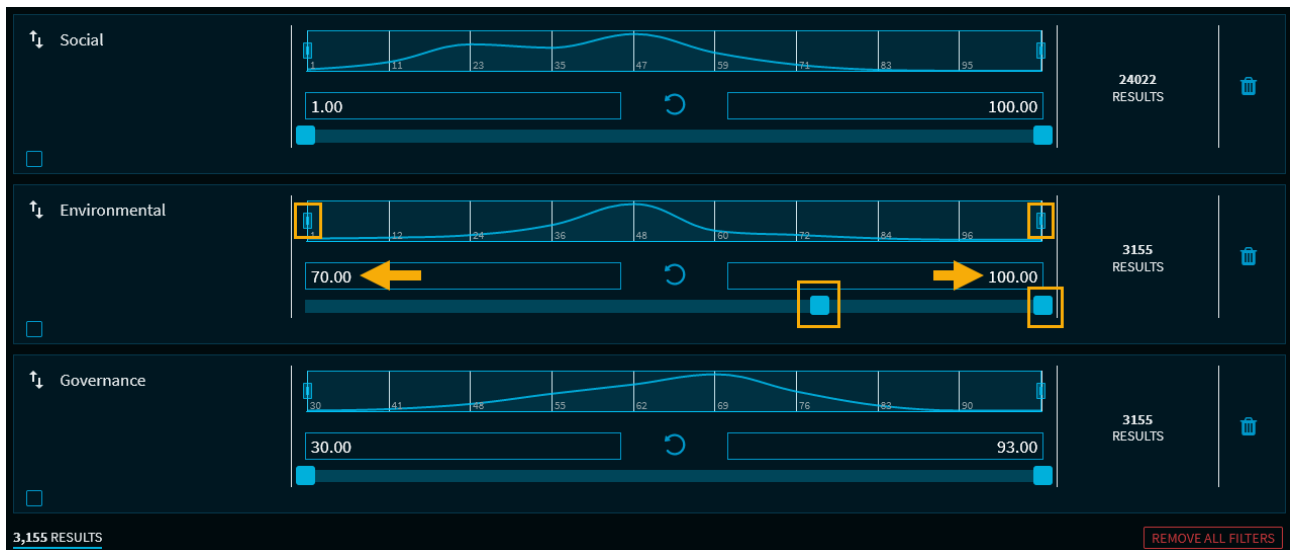
5. You can change the order of the individual filter conditions by clicking or touching the double arrows on the left, and then holding and dragging them up or down to the corresponding position.



6. Select the "Show in results list" checkbox to add a column to the [results list](#) for this filter condition.
7. With the "Remove all filters" button, you can remove all filters of the screen (they will still be available in the filter selection, you can reselect them at any time).

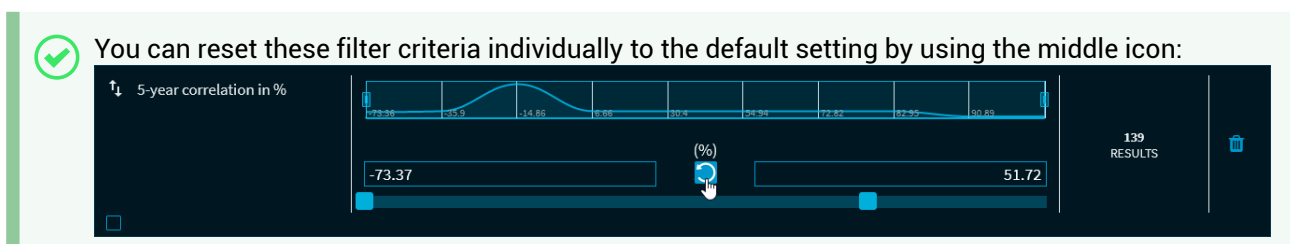
7.4.1 Filter criteria with slider

You can set some filter criteria using sliders.



To do this, drag the left and right limits to the relevant value by using the lower handle points or enter the exact values in the input fields.

You can also drag the borders to the corresponding values directly in the graphic.



7.5 Save screens

Save your new screens to later re-use them with the filter settings made. To do this, follow these steps:

1. **SAVE** Click the "Save screen as..." icon in the open screen or the "Save screen" icon for already saved screens.
Or select the command SCREEN SAVE AS... from the menu icon at the top right.
2. In the "Global Settings" dialogue window that appears, enter the name of the screen and add descriptive details about the screen.

Global settings

☒ SAVE VIEW FOR FILTER DISPLAY
 Filters are displayed when opening a screen

General settings

NAME

Fund Screen ABC

DESCRIPTION

SAVE SCREEN AS ...

3. Specify above whether to save the currently selected setting for the filter view with the screen. In the picture above, the filter view of the screen is shown when saving and is also saved as such.
4. Click the "Save screen as..." button to save the screen and close the "Global Settings" dialogue window.



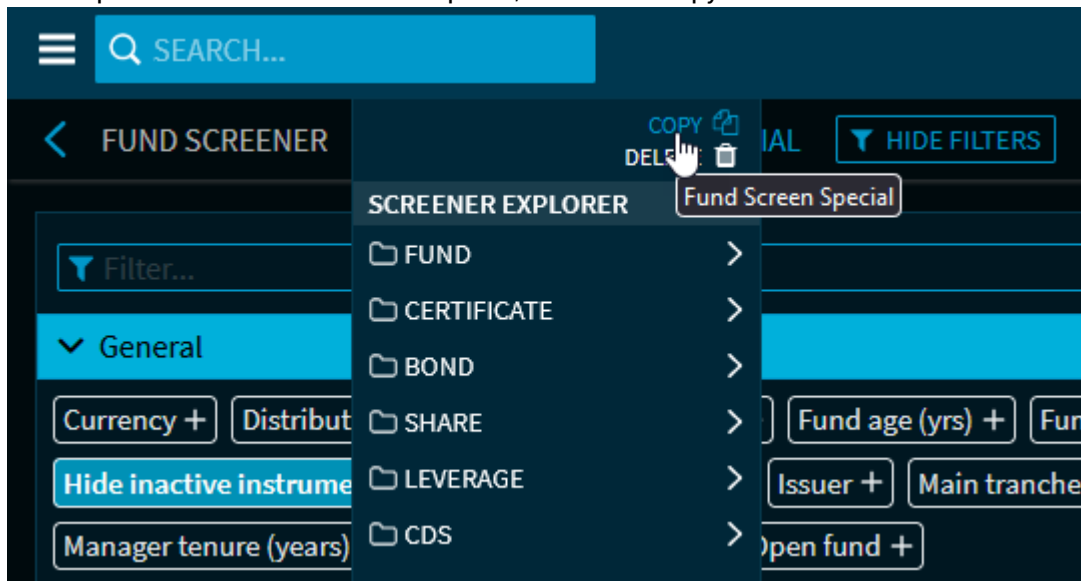
After configuring the screen (for example, in the settings of the filters), click the "Save" icon to apply the changes. If you do not want to save your changes, click the "Discard changes" button, thus restoring the last saved state of the screen. To save a copy of the screen, use the [Save screen as copy](#) command from the menu icon.

When you save a screen, you also save the currently selected display. For example, if you have selected the display as result list (with hidden filter settings) when saving, this screen will be opened again next time with the result list in full screen mode.

7.6 Save screens as copy with another name

To save your filter settings in a new screen, save the screen as copy of the current screen with a new name. To do this, follow these steps:

1. In the open screen in the Screener Explorer, select the "Copy" command.



2. In the "Global Settings" dialogue window that appears, enter the name of the new screen and add descriptive details. If the selected is already assigned, a corresponding message appears.

Global settings

☒ Save view for filter display

Filters are displayed when opening a screen

General settings

Name

Leverage Screener RC4 Factor

Description


Risk Class 4

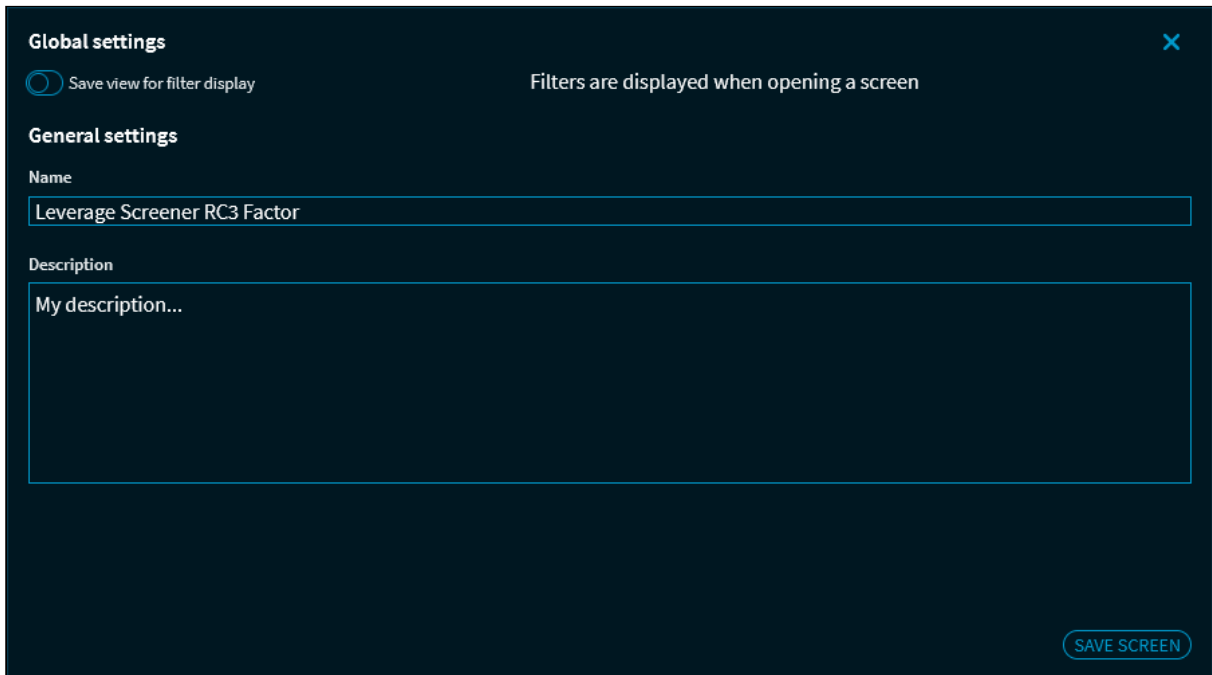
SAVE SCREEN AS COPY

3. Specify above whether to save the currently selected settings for the filter view with the screen.
4. Click the "Save screen as copy" button to save the screen and close the "Global settings" dialogue window.


7.7 Screen settings

In an open screen that is already saved, you can also see or edit its settings. To do this, follow these steps:

1.  Select the "Settings" command from the menu icon of the open screen.
2. Make the required changes in the "Settings" dialogue window that appears.

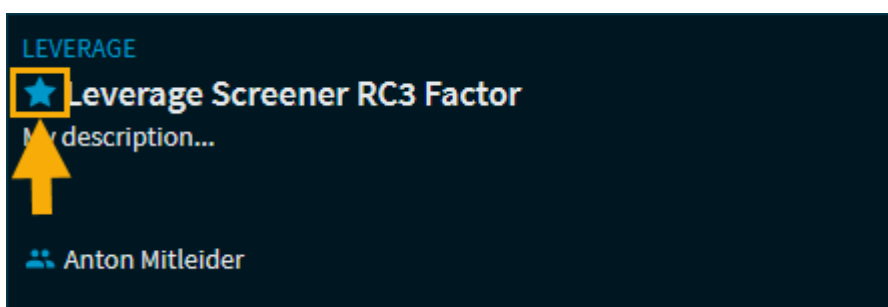


3. In the "Global settings" area, you can select the "Save filter view setting" checkbox.
 4. In the "General settings", you can change the name of the screen and enter a description.
 5. Click the "Save screen" button to apply your changes and close the "General settings" dialogue window.
- The changes are saved and a corresponding message appears.

 The names and descriptions entered here will then also appear in such widgets as "Screener results".

7.8 Mark screens as favourites

On the Screener start page, you can mark screens as favourites. To do this, click the star in the tile of the corresponding screen:



The favourites always appear in front of the lists of added screens. The screens last marked as favourites appear at the front when you restart the Screener start page.

7.9 Show results in Screener

The results lists are displayed at the bottom of the screen and can be maximised by clicking the "Hide filters" button.


ISIN	NAME	ISSUER	CUR.	COUNTRY	NAV	NAV DATE	REGION/COUNTRY
LU1032466366	GSF GI Mul-Ass Inc Ptf Base	Goldman Sachs Asset Management Fund Services Limited	USD	LU	123.17	23/08/2021	Worldwide
LU1032466523	GSF GI Mul-Ass Inc Ptf Base	Goldman Sachs Asset Management Fund Services Limited	USD	LU	147.28	23/08/2021	Worldwide
LU1032466879	GSF GI Mul-Ass Inc Ptf I	Goldman Sachs Asset Management Fund Services Limited	USD	LU	123.43	23/08/2021	Worldwide

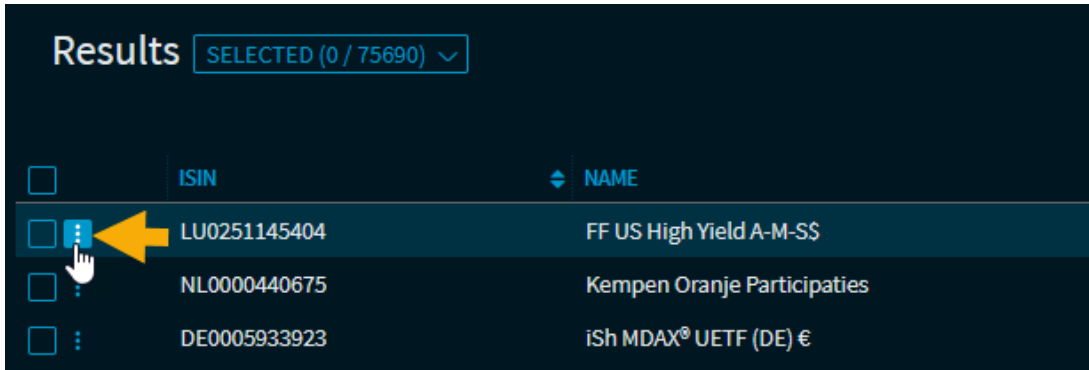

If the results are maximised (and thus the filter conditions are hidden), then the set filters are displayed in the upper area of the list:

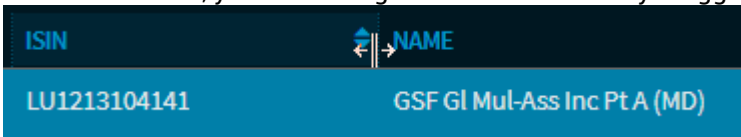

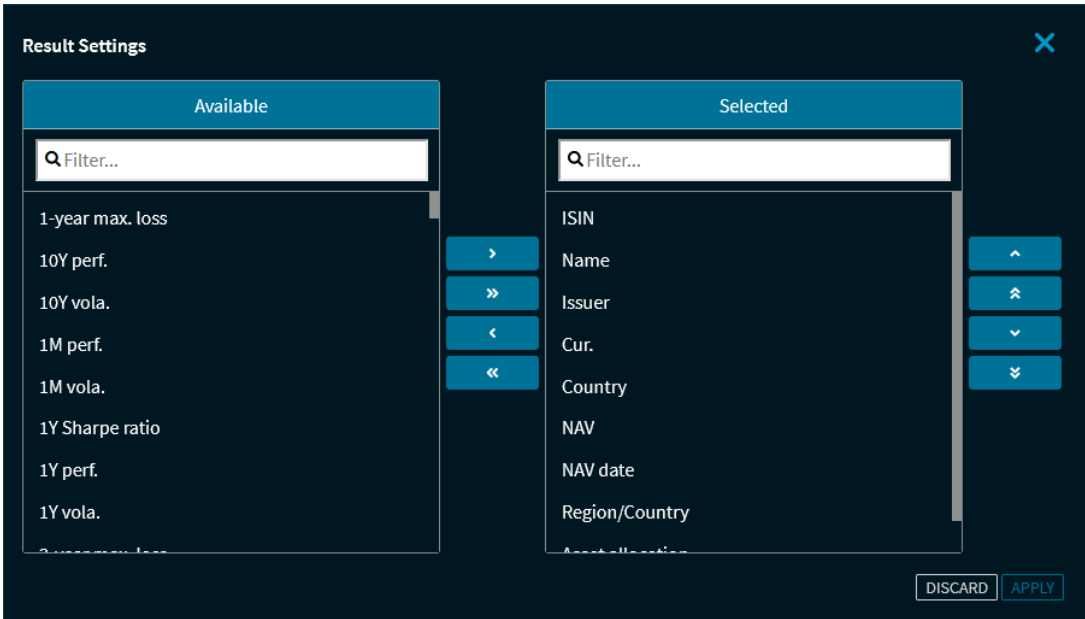
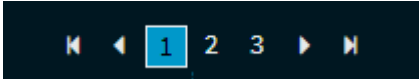
In large results lists, you can use the navigation controls above and below the list to page through the results. Click a column header to sort the lists by the corresponding column. Click the column header again to reverse the sorting order.

The following functions are available in the result lists of a Screener:

Element	Description
Drop-down menu "Export"	<p>The following functions are available for the instruments selected in the list:</p> <ul style="list-style-type: none"> Export to Excel For more information, see Export instruments from Screener to Excel. Add to watchlist For more information, see Add instruments from Screener to existing watchlist. Add to portfolio For more information, see Add instruments from Screener to existing portfolio. Clear all selections <p>If no security is currently selected in the results list, then only the "Export to Excel" command is available. The maximum number of entries that can be exported is 1000.</p>

Element	Description																											
"Edit filter" button or "Hide filter" button	Select the "Edit filter" button to minimise the result list and display the filter conditions again. If the filter criteria are currently displayed, then you can return to the filter conditions by clicking the "Hide filter" button.																											
"Select row" column	<p>In the first column, you can select individual rows (that is, instruments).</p> <table><tr><th><input type="checkbox"/></th><th>ISIN</th><th>NAME</th></tr><tr><td><input checked="" type="checkbox"/></td><td>LU0251145404</td><td>FF US High Yield A-M-SS</td></tr><tr><td><input checked="" type="checkbox"/></td><td>NL0000440675</td><td>Kempen Oranje Participaties</td></tr><tr><td><input checked="" type="checkbox"/></td><td>DE0005933923</td><td>iSh MDAX® UETF (DE) €</td></tr><tr><td><input checked="" type="checkbox"/></td><td>DE0005933931</td><td>iShares Core DAX® UETF(DE) €</td></tr><tr><td><input type="checkbox"/></td><td>DE0005933972</td><td>iShares TecDAX® (DE) €</td></tr><tr><td><input type="checkbox"/></td><td>DE0005933964</td><td>iShares SLI UCITS ETF CHF(D)</td></tr><tr><td><input checked="" type="checkbox"/></td><td>DE0006289465</td><td>iS ebrx GvtGy UETFD €</td></tr><tr><td><input checked="" type="checkbox"/></td><td>LU0136234654</td><td>UBS(L)FS MSCI USA A</td></tr></table> <p> To select all instruments, select the checkbox in the column header.</p>	<input type="checkbox"/>	ISIN	NAME	<input checked="" type="checkbox"/>	LU0251145404	FF US High Yield A-M-SS	<input checked="" type="checkbox"/>	NL0000440675	Kempen Oranje Participaties	<input checked="" type="checkbox"/>	DE0005933923	iSh MDAX® UETF (DE) €	<input checked="" type="checkbox"/>	DE0005933931	iShares Core DAX® UETF(DE) €	<input type="checkbox"/>	DE0005933972	iShares TecDAX® (DE) €	<input type="checkbox"/>	DE0005933964	iShares SLI UCITS ETF CHF(D)	<input checked="" type="checkbox"/>	DE0006289465	iS ebrx GvtGy UETFD €	<input checked="" type="checkbox"/>	LU0136234654	UBS(L)FS MSCI USA A
<input type="checkbox"/>	ISIN	NAME																										
<input checked="" type="checkbox"/>	LU0251145404	FF US High Yield A-M-SS																										
<input checked="" type="checkbox"/>	NL0000440675	Kempen Oranje Participaties																										
<input checked="" type="checkbox"/>	DE0005933923	iSh MDAX® UETF (DE) €																										
<input checked="" type="checkbox"/>	DE0005933931	iShares Core DAX® UETF(DE) €																										
<input type="checkbox"/>	DE0005933972	iShares TecDAX® (DE) €																										
<input type="checkbox"/>	DE0005933964	iShares SLI UCITS ETF CHF(D)																										
<input checked="" type="checkbox"/>	DE0006289465	iS ebrx GvtGy UETFD €																										
<input checked="" type="checkbox"/>	LU0136234654	UBS(L)FS MSCI USA A																										

Element	Description
Menu icon	<div>  </div> <p>Similar to the icon for the widget menu in widgets, in Screener results lists this icon opens a menu with the following commands to open the corresponding instrument:</p> <ul style="list-style-type: none"> • Dashboard This command opens the security in the Dashboard templates currently defined for this security type. • Chart • Full Quote • More... <p>For more information, see Commands in the widget menu.</p> <p>In this menu you will also find the command NEW ALERT, which you can use to directly open the dialogue window "New price alert" for configuring an Alert for the corresponding security in the results list.</p> <p>Use the "Short portrait" command to open the short portrait of the security.</p> <p>In addition, they have commands for copying WKN or ISIN to the Clipboard.</p>
Sort by column	<p>You can click many column headers to sort the results lists by column. The sortable columns are indicated by a symbol in the column header:</p> <div>  </div> <p>To reverse the sorting, click the column header again.</p>
Short portrait	<p>When you click an instrument in the results list to select it, a short portrait of the security opens with all imports price date including the chart.</p> <p>For more information, see Open short portraits.</p>


Element	Description
Column width	<p>In the results list, you can change the column width by dragging the separator:</p> 
 "Menu" icon - "Results settings" command	<p>Select the "Result settings" command from the menu icon to show or hide the columns of the results list in the "Result settings" dialogue box that appears.</p>  <p>On the left side, you will find all columns available for the screen, on the right side the columns currently selected for display in the result list. You can use the upper filter fields to search for columns, the middle buttons to show or hide selected columns, and the buttons on the right to change the order of the selected columns in the results list.</p> <p>You the "Apply" button to save your settings in this dialogue window.</p> <p>For more information about the settings, see Settings of the results list in the Screener.</p>
Navigation elements	<p>If you find more than 25 search results, then the results are shown on several pages. Use the upper and lower navigation controls to page through the list.</p> 

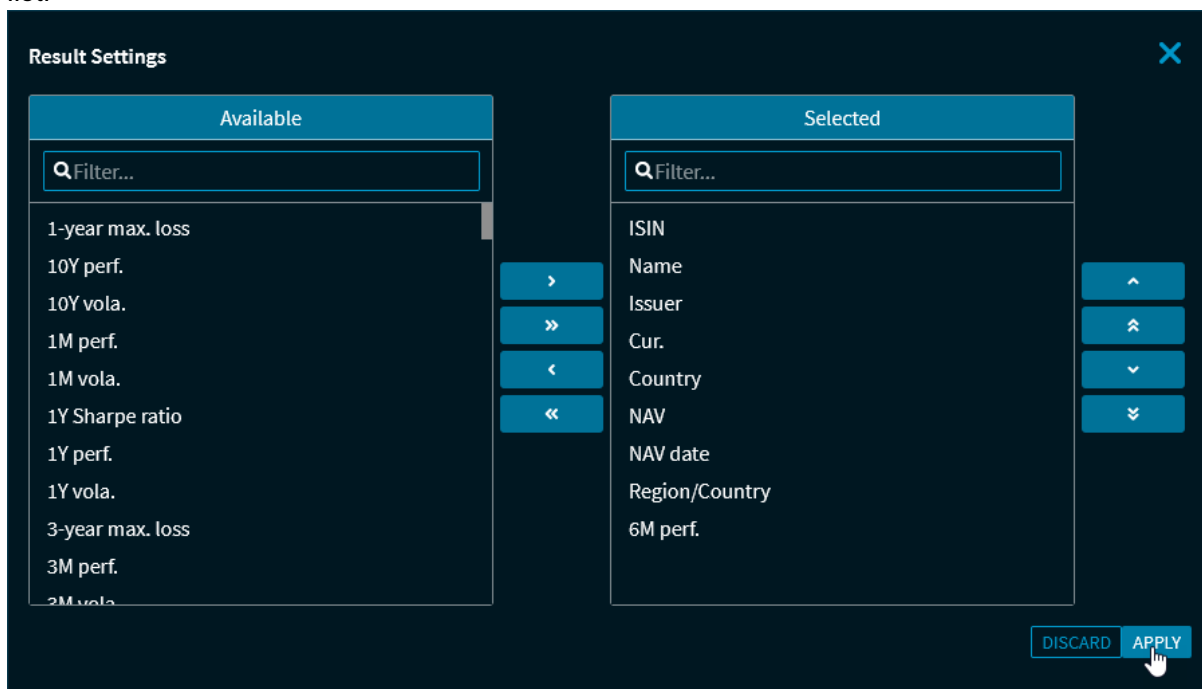
See also:

- [Settings of the results list in the Screener](#)
- [Display results in the "Screener results" widget](#)

7.9.1 Settings of the results list in the Screener



If you have opened a screen, you can view the settings of the result list or show or hide columns. To do this, follow these steps:








1.  Select the "Result settings" command from the menu icon of the open screen.
2. In the "Result settings" dialogue window that appears, specify the columns displayed in the results list.



3. Save the selection with the "Apply" button.
This closes the "Result settings" dialogue window and updates the results list.

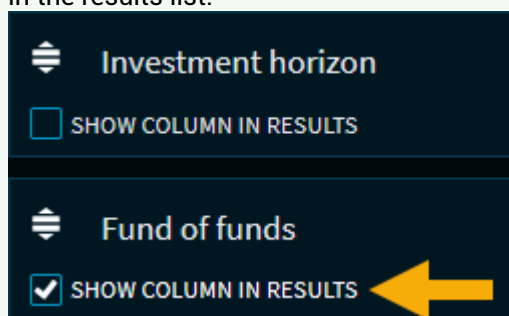
The following elements are available:

Element	Description
"Available" area	On the left side, you find the "Available" area with all columns available for this screen. Use the filter field or the scroll bar to search for columns.
"Selected" area	On the right side, you find the "Selected" area showing all columns that are currently displayed in the results list.
Filter fields	In both areas, "Available" and "Selected", you can search for columns directly in the list or just filter the list.
	Click this button to add the columns selected in the "Available" area to the "Selected" area. <div>  You can select multiple entries at the same time by holding down the <CTRL> key. On mobile devices, you can select several values by simply selecting the values one after the other. </div>

Element	Description
	Click this button to add all available columns at once to the "Selected" area.
	Click this button to remove the columns marked in the "Selected" area from the results list. You can reselect them in the "Available" area at any time to add them to the display.
	Click this button to remove all currently selected columns from the results list. You can reselect them in the "Available" area at any time to add them to the display.
	Click this button to move the columns selected in the "Selected" area one position up.
	Click this button to move the columns selected in the "Selected" area to the top.
	Click this button to move the columns selected in the "Selected" area one position down.
	Click this button to move the columns selected in the "Selected" area to the bottom.



Use the "Show column in results list" checkbox in the [filter conditions](#) to add a column for the filter in the results list:



7.9.2 Display results in the "Screener results" widget

With "Screener Results" widget, you can directly display results of a saved screen directly without opening the Screener first. The displayed results are updated depending on the filter settings in the screener.

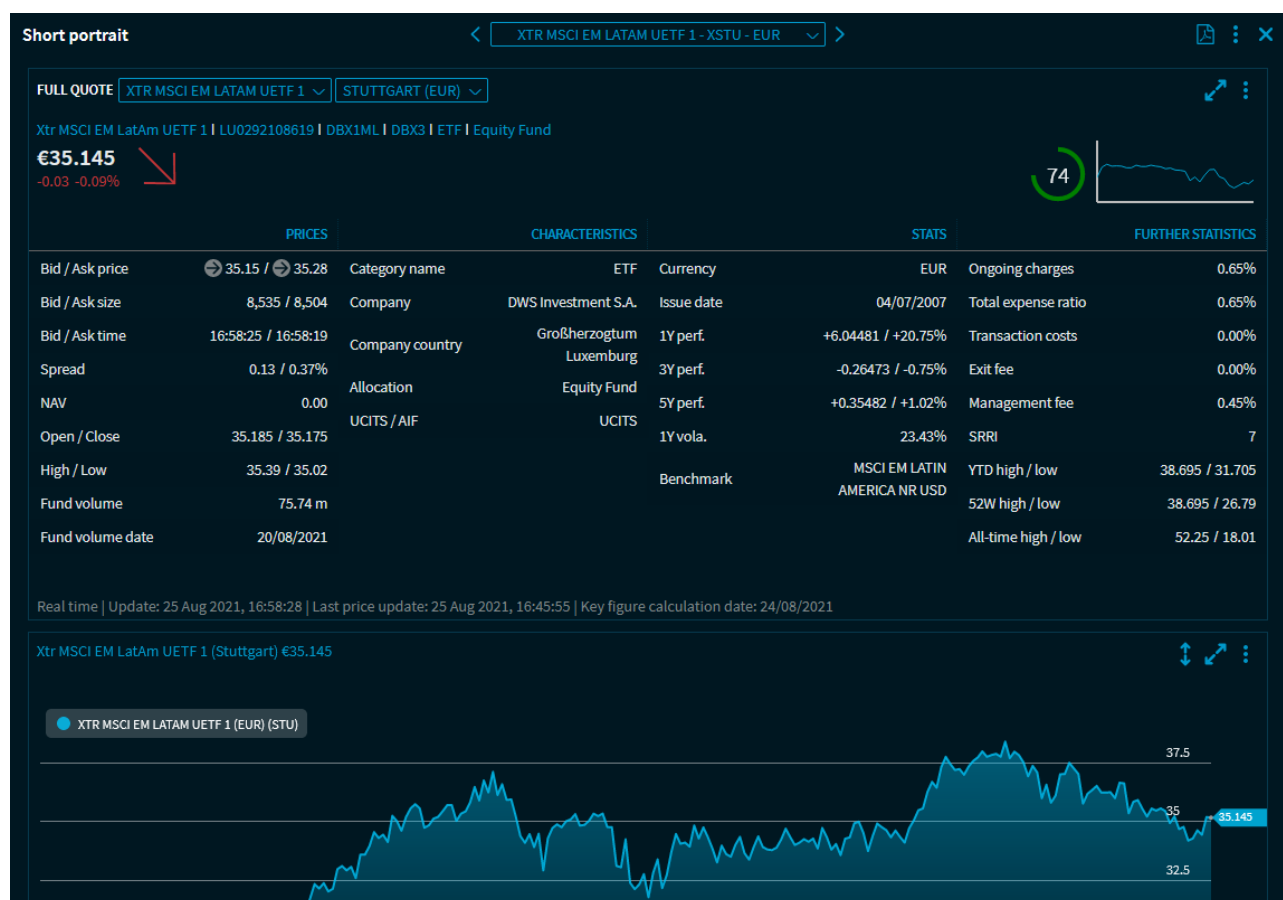
You can select the corresponding screen by using the Screener Explorer integrated into the widget above.

For more information about this widget, see [Screener results](#).

7.10 Open short portraits from results list

When you click an instrument in the results list in the screener to select it, then a short [portrait of the security](#) opens with all imports price date including the chart.

Alternatively, you can also use the SHORT PORTRAIT command from the menu icon of the securities in the result list.



i The short portraits are based on the so-called "39851413". You can configure this special form of dashboard individually for trading venues, security classes and types and store it for the short portraits.

Use the drop-down list in the upper area of the short portrait to show another instrument from the results list in the short portrait. Use the arrow icons to page through the results list.

Depending on the security type and the configured overlay template, you will then see prices, characteristics and key figures for the security in the widgets of the short portrait. In these widgets, you will find the functions known from the "normal" dashboards.

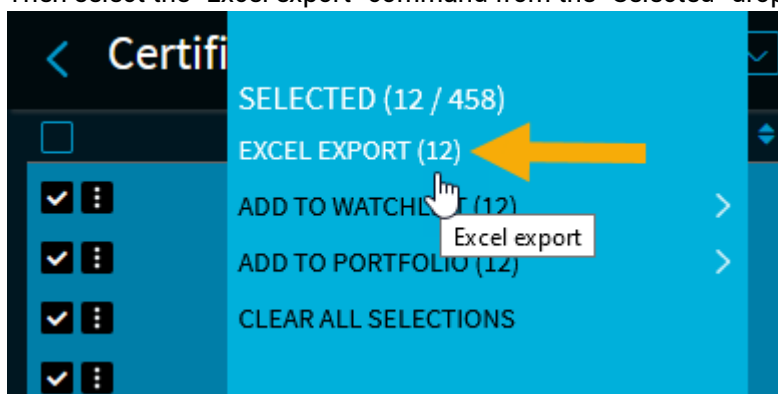
For more information, see [Short portraits](#).

7.11 Export instruments from Screener to Excel

You can export instruments selected in a results list to Excel. To do this, follow these steps:

1. Open the results list by clicking the results arrow of the corresponding screen.
2. In the results list, select the instruments that you want to export.

- Then select the "Excel export" command from the "Selected" drop-down list.



This exports the selected securities as a CSV file and can be saved and opened and edited in Excel, for example.



In brackets, you see the number of the selected securities. If no securities are selected, then the "Excel export" command will export **up to 1000 instruments** from the results list.

7.12 Add instruments from Screener to existing watchlist

You can add selected securities of a results list to an existing watchlist in the "Watchlist" widget. To do this, follow these steps:

- Open the results list by clicking the results arrow of the corresponding screen.
- In the results list, select the instruments that you want to export.
- From the "Selected" drop-down list, select the "Add to watchlist" command.



4. Then select the relevant one from the list of your available price lists

ADD TO EXISTING...

ETF COMMODITIES 2
ETF COMMODITIES 6
MOST ADDED

MY WATCHLIST 2

ADD TO NEW...

Name of watchlist

Leverage Screener - 12/10/2020

+ADD TO WATCHLIST

The selected securities are added to this watchlist.



In the watchlist, instruments added from the Screener are indicated by the text "Added from screener".

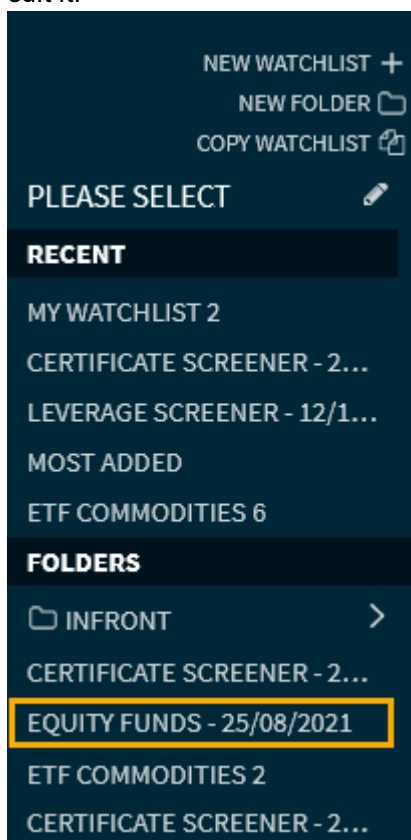
7.13 Create instruments from Screener as new watchlist

You can create instruments selected from a results list as a new watchlist and open it in a "Watchlist" widget. To do this, follow these steps:

1. Open the results list by clicking the results arrow of the corresponding screen.
2. In the results list, select the instruments that you want to export.
3. In the "Selected" drop-down list, select "Add to watchlist". Then, enter a name for the new watchlist in the "Add to new..." area.
4. Click the "Add to watchlist" button.

The new watchlist is created with the new name and opens in the "Watchlist" widget, where you can

edit it.



In the watchlist, instruments added from the Screener are indicated by the text "Added from screener".

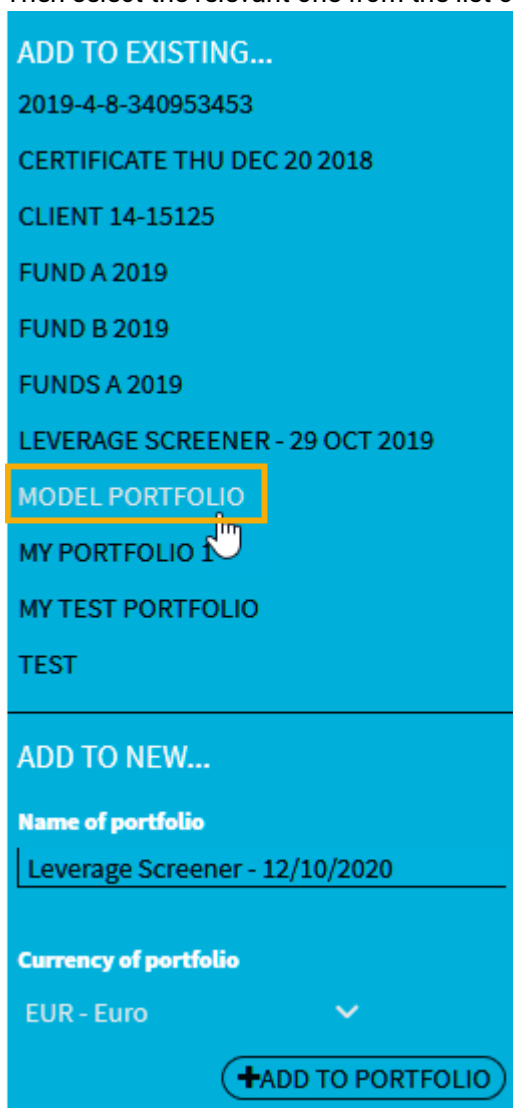
7.14 Add instruments from Screener to existing portfolio

You can add selected instruments of a results list to an existing portfolio. To do this, follow these steps:

1. Open the results list by clicking the results arrow of the corresponding screen.
2. In the results list, select the instruments that you want to export.
3. From the "Selected" drop-down list, select the "Add to portfolio" command.



4. Then select the relevant one from the list of your available portfolios



The selected securities are added to this portfolio.



Instruments added from the Screener are indicated by the text "Added from screener".

7.15 Create instruments from Screener as new portfolio

You can create instruments selected from a results list as a new portfolio and open it in a "Portfolio" widget.

To do this, follow these steps:

1. Open the results list by clicking the results arrow of the corresponding screen.
2. In the results list, select the instruments that you want to export.
3. In the "Selected" drop-down list, select "Add to portfolio". Then, enter a name for the new portfolio in the "Add to new..." area.
4. Select the portfolio currency.

SELECTED (6)
EXCEL EXPORT
ADD TO WATCH
ADD TO PORTFOLIO
CLEAR ALL SELECTIONS

6
2019-4-8-340953453
CERTIFICATE THU DEC 20 2018
CLIENT 14-15125
FUND A 2019
FUND B 2019
MY TEST PORTFOLIO
TEST

ADD TO NEW...

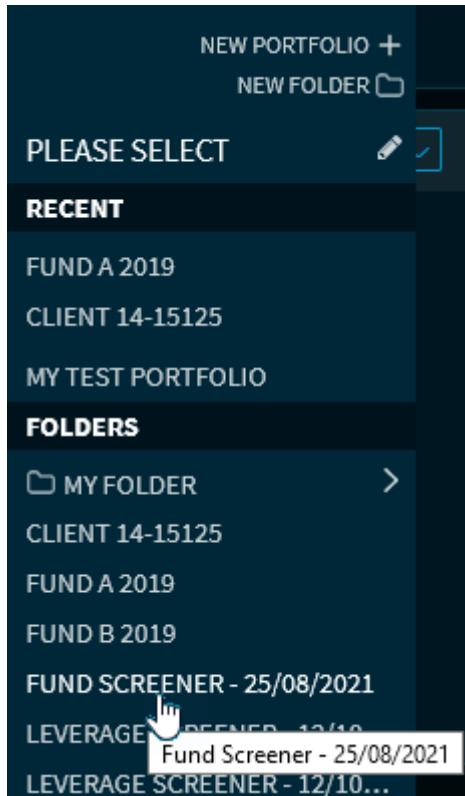
Name of portfolio
Fund Screener - 25/08/2021


Currency of portfolio
EUR - EURO

+ ADD TO PORTFOLIO

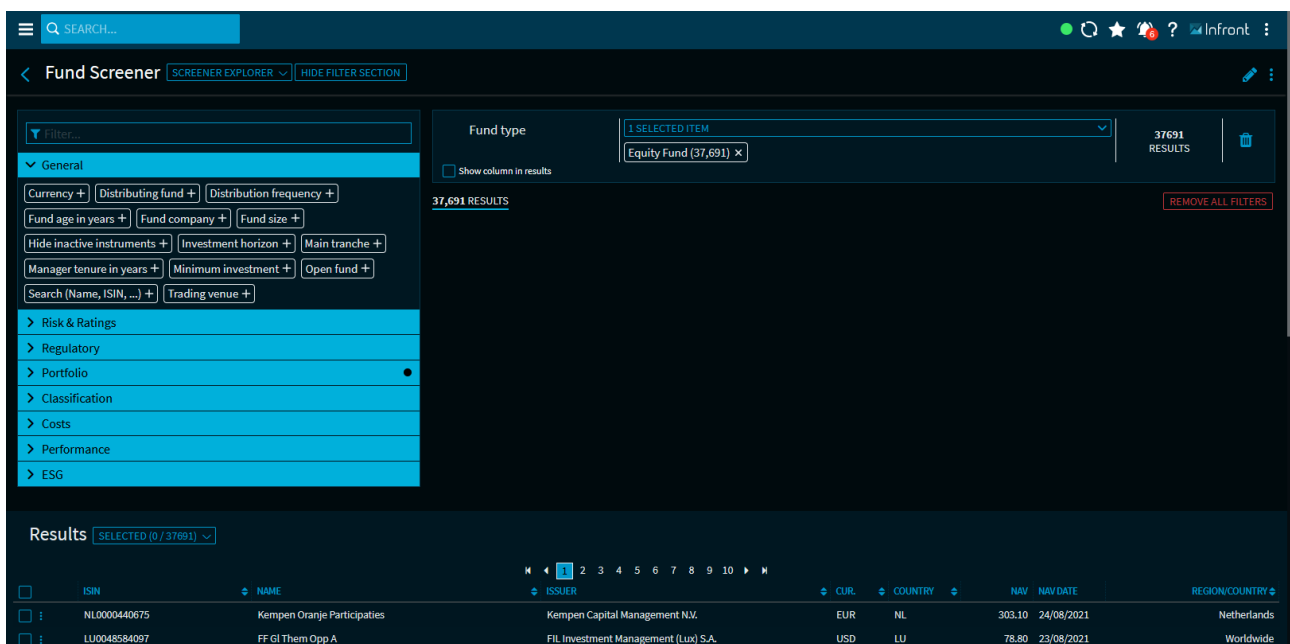
5. Click the "Add to portfolio" button.

The new portfolio is created with the new name and opens in the "Portfolio" widget, where you can edit it.



 Instruments added from the Screener are indicated by the text "Added from screener".

7.16 Fund Screener



ISIN	NAME	ISSUER	CUR	COUNTRY	NAV	NAV DATE	REGION/COUNTRY
NL0000440675	Kempen Oranje Participaties	Kempen Capital Management N.V.	EUR	NL	303.10	24/08/2021	Netherlands
LU0048534097	FF GI Them Opp A	FIL Investment Management (Lux) S.A.	USD	LU	78.80	23/08/2021	Worldwide

The available filters are listed in the following [Filters in fund screens](#) chapters.

- Filters in fund screens

▼ Filter...

▼ General

Currency +

Distribution freq. +

Distribution type +

Fund age (yrs) +

Fund size +

Hide inactive instruments +

Investment horizon +

Issuer +

Main tranche +

Manager tenure (years) +

Minimum investment +

Open fund +

Search (Name, ISIN, ...) +

Trading venue +

> Risk & Ratings

▼ Regulatory

Country of origin +

Country of registration +

OGAW / AIF +

> Portfolio

> Classification

> Costs

> Historical performance

> ESG

"General" filter

- Investment horizon
- Distribution type ("Distributing" or "Accumulating")
- Distribution frequency
- Fund age
- Fund volume
- Trading venue
- Main tranche
- Hide inactive instruments
- Fund company
- Manager tenure
- Minimum investment
- Open fund
- Search (name, ISIN,...)

- Currency

Filter "ESG":

- E - Emissions
- E - Environmental externalities
- E - Resource use
- E - Governmental emissions
- E - Governmental consumption of resources
- E - Suppliers footprint
- E - Product footprint
- E - Environmental governance & processes
- **ESG score**
- **ESG score relevance**
- G - CSR and sustainability
- G - Formal institutions
- G - Informal institutions
- G - Partnerships, memberships, awards and certifications
- G - Stability
- G - Corporate ethics & behaviour
- G - Corporate governance
- **Governance**
- S - Community and society
- S - Human capital
- S - Customers & products
- S - Supply chain
- S - Employees
- S - Physical capital
- S - Technology
- **Social**
- **Environment**

"Historical performance" filter

- 1-month performance
- 3-month performance
- 6-month performance
- Performance YTD
- 1-year performance
- 3-year performance
- 5-year performance
- 10-year performance
- Performance since launch
- 6-month max. loss
- 1-year max. loss
- 3-year max. loss
- Jensen's alpha in %
- Longest loss period (in months)
- Outperformance in %
- Turnover Ratio

"Classification" filter

- Fund of funds
- EFCF category

- ETF
- ETF replication
- ETF replication name
- Index fund
- Institutional fund
- Pension plan
- Regular investment
- Riester fund
- SFDR
- Socially responsible
- Suitable for savings plans
- Union funds
- VWL capable (Germany)
- Insurance fund
- Securities lending allowed

"Costs" filter

- Front-end load
- Securities account fee
- Ongoing charges
- Management fee
- Exit fee

"Portfolio" filter

- Asset allocation
- Industry
- Region
- Small cap


"Regulatory" filter

- Country
- UCITS/AIF
- Distribution approval

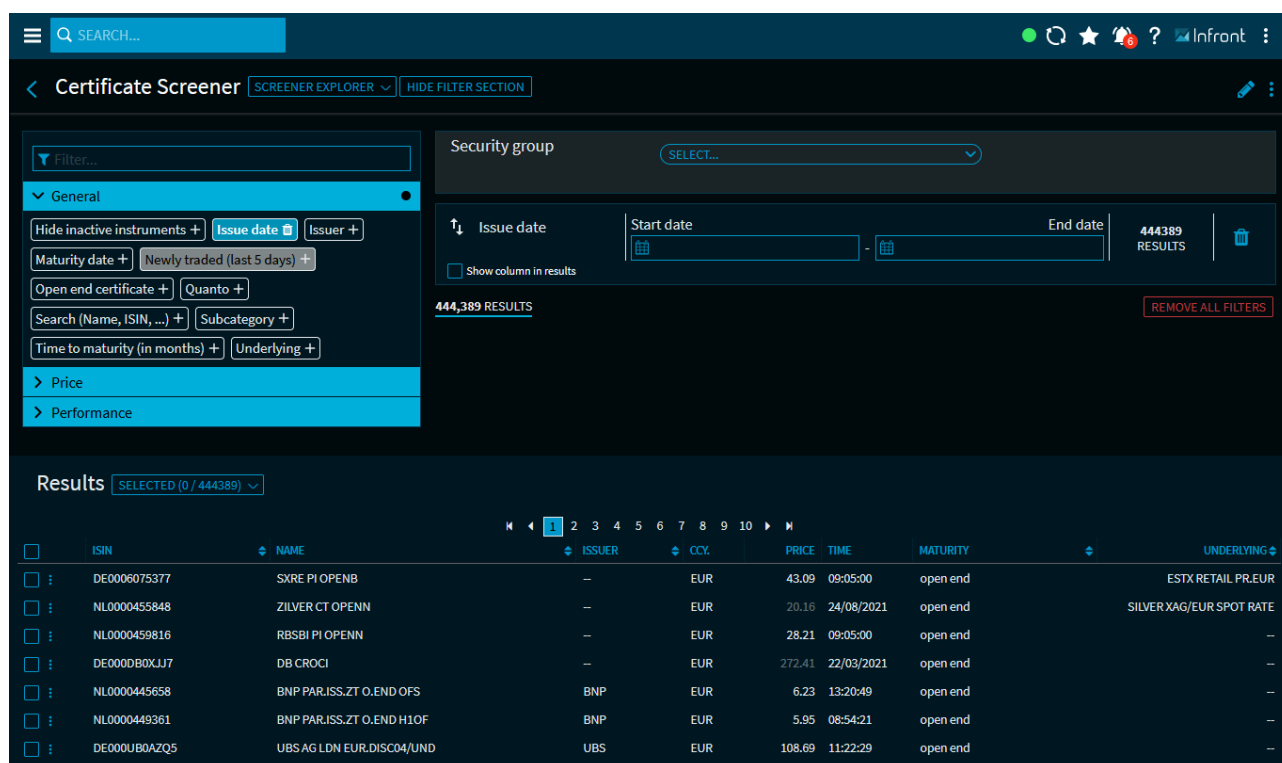
"Risk & Ratings" filter

- 1-year Sharpe ratio
- 3-year Sharpe ratio
- 5-year Sharpe ratio
- 1-month volatility
- 6-month volatility
- 1-year volatility
- 3-year volatility
- 5-year volatility
- 10-year volatility
- Currency hedged
- Diamond rating
- Diamond rating date
- Capital guarantee
- SCOPE fund rating
- SRI ("Socially Responsible Investment")
- SRI date

- Currency risk
- Currency exposed against

 For information on how to configure filters, see [Filter screens](#).

7.17 Certificate Screener



ISIN	NAME	ISSUER	CCY	PRICE	TIME	MATURITY	UNDERLYING
DE0006075377	SKRE PI OPENB	–	EUR	43.09	09:05:00	open end	ESTX RETAIL PR.EUR
NL0000455848	ZILVER CT OPENN	–	EUR	20.16	24/08/2021	open end	SILVER.XAG/EUR SPOT RATE
NL0000459816	RBSBI PI OPENN	–	EUR	28.21	09:05:00	open end	–
DE000DB0XJJ7	DB CROCI	–	EUR	272.41	22/03/2021	open end	–
NL0000445658	BNP PAR.ISS.ZT O.END OFS	BNP	EUR	6.23	13:20:49	open end	–
NL0000449361	BNP PAR.ISS.ZT O.END H1OF	BNP	EUR	5.95	08:54:21	open end	–
DE000UB0AZQ5	UBS AG LDN EUR.DISC04/UND	UBS	EUR	108.69	11:22:29	open end	–

In the Certificate Screener, you can first select a security group by using the upper drop-down list. There are the following security groups in the Certificate Screener:

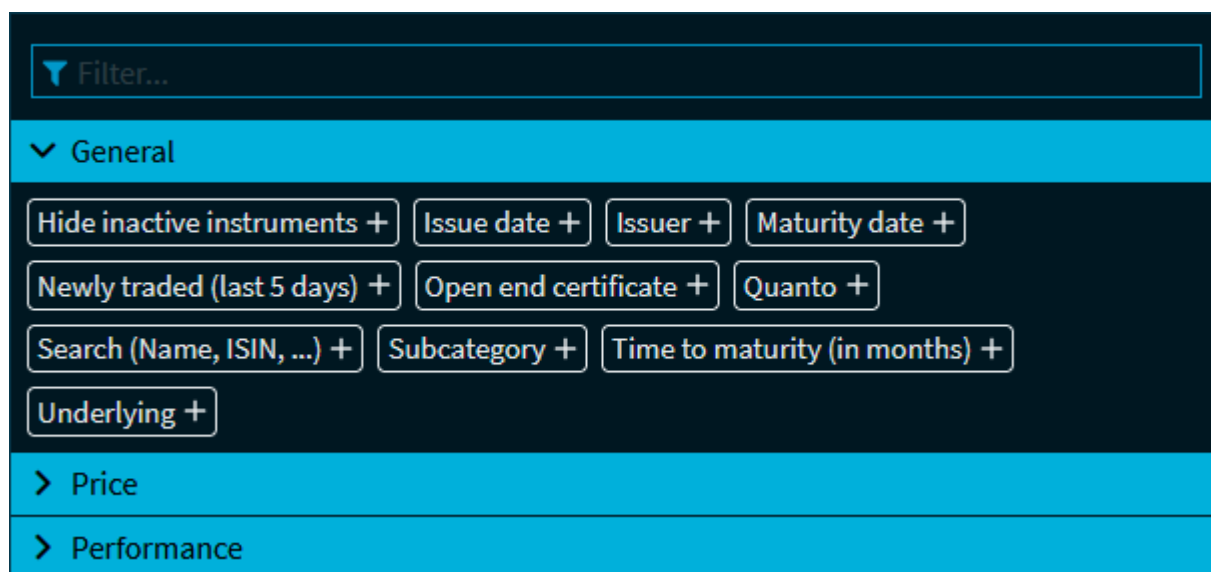
- All
- Airbag
- Equity bond
- Basket
- Creditworthiness bond
- Bonus
- Discount
- Express
- Guarantee
- Index
- Indexed bond
- Lock-in
- Outperformance
- Other
- Partial guarantee
- TwinWin

For all certificates, the available filters are listed in [Filters in certificate screens \(security group "All"\)](#). For some certificate types, there are also type-specific filter options, these are listed in the following subsections.

See also:

- [Filters in certificate screens \(security group "All"\)](#)
- [Filters in certificate screens \(security group "Reverse convertible bonds"\)](#)
- [Filters in certificate screens \(security group "Bonus"\)](#)
- [Filters in certificate screens \(security group "Discount"\)](#)
- [Filters in certificate screens \(security group "Express"\)](#)
- [Filters in certificate screens \(security group "Outperformance"\)](#)

7.17.1 Filters in certificate screens (security group "All")



The screenshot shows a web interface for a screener. At the top is a search bar labeled "Filter...". Below it are three main sections: "General", "Price", and "Performance". The "General" section is expanded and contains several filter buttons: "Hide inactive instruments +", "Issue date +", "Issuer +", "Maturity date +", "Newly traded (last 5 days) +", "Open end certificate +", "Quanto +", "Search (Name, ISIN, ...) +", "Subcategory +", "Time to maturity (in months) +", and "Underlying +". The "Price" and "Performance" sections are currently collapsed.

The following filters are available for all certificate screens:

"General" filter

- Underlying
- Issue date
- Issuer
- Open end certificate
- Maturity date
- Time to maturity (in months)
- Hide inactive instruments
- Newly traded (last 5 days)
- Quanto
- Search (name, ISIN,...)
- Subcategory


"Price" filter

- Already traded

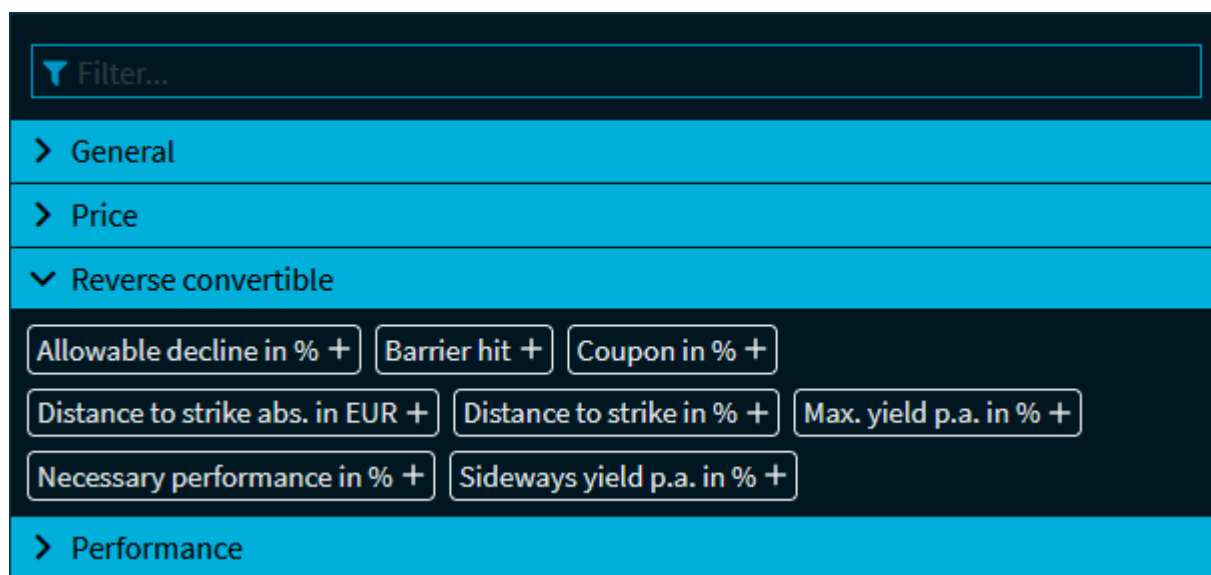
"Performance" filter

- 1-month performance

- 3-month performance
- 6-month performance
- Performance YTD
- 1-year performance
- 3-year performance

 For information on how to configure filters, see [Filter screens](#).


7.17.2 Filters in certificate screens (security group "Reverse convertible bonds")



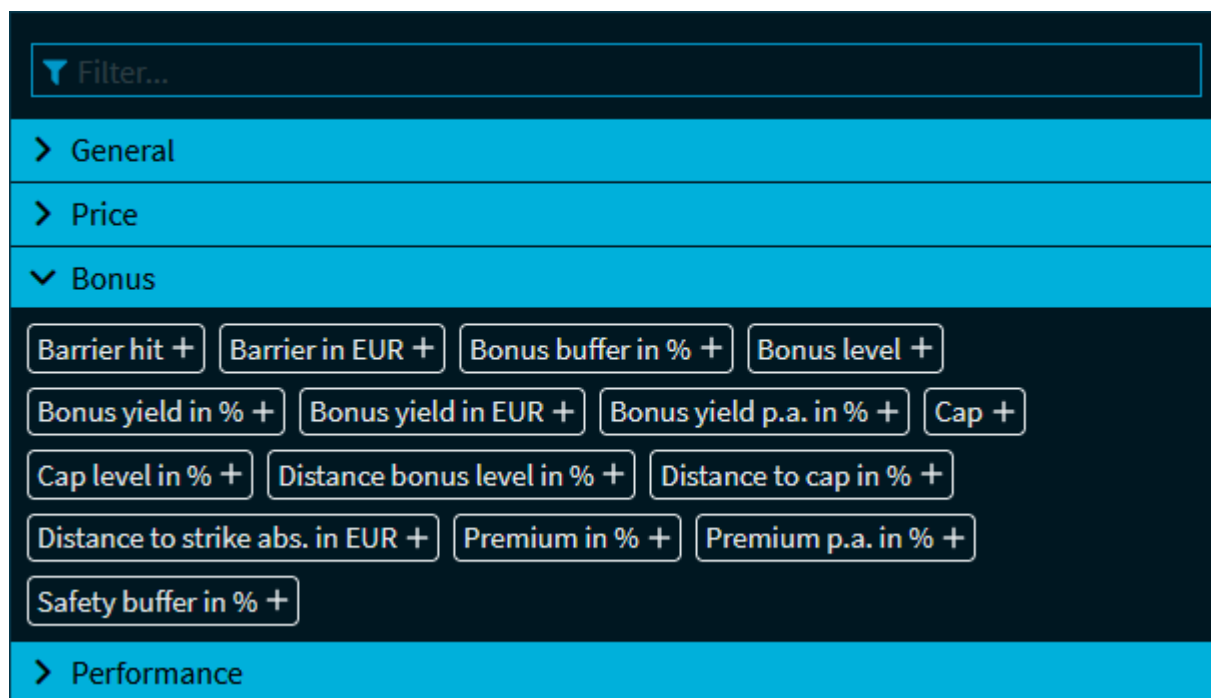
In addition to the filters described in [Filters in certificate screens \(security group "All"\)](#), the following filters are available for reverse convertible bonds:

"Reverse convertible bonds" filter

- Distance to strike abs.
- Distance to strike in %
- Barrier touched
- Allowable decline
- Coupon in %
- Max. yield p.a. in %
- Necessary performance in %
- Sideways annual return rel.

 For information on how to configure filters, see [Filter screens](#).

7.17.3 Filters in certificate screens (security group "Bonus")



In addition to the filters described in [Filters in certificate screens \(security group "All"\)](#), the following filters are available for bonus certificates:

"Bonus" filter

- Distance to strike abs. in EUR
- Distance to barrier in %
- Distance to cap in %
- Premium in %
- Premium p.a. in %
- Barrier breached
- Barrier in EUR
- Bonus level
- Bonus buffer in %
- Bonus yield in %
- Bonus yield in EUR
- Bonus yield p.a. in %
- Cap
- Cap level in %
- Safety buffer in %



For information on how to configure filters, see [Filter screens](#).

7.17.4 Filters in certificate screens (security group "Discount")

Filter...

> General

> Price

▼ Discount

Cap +

Cap level in % +

Discount in % +

Distance to cap in % +

Max. yield p.a. in % +

Sideways yield in % +

> Performance

In addition to the filters described in [Filters in certificate screens \(security group "All"\)](#), the following filters are available for discount certificates:

"Discount" filter

- Distance to cap in %
- Cap
- Cap level in %
- Discount in %
- Max. yield p.a. in %
- Sideways yield in %



For information on how to configure filters, see [Filter screens](#).

7.17.5 Filters in certificate screens (security group "Express")

Filter...

> General

> Price

▼ Express

Distance to barrier in % +

> Performance

In addition to the filters described in [Filters in certificate screens \(security group "All"\)](#), the following filter is available for express certificates:

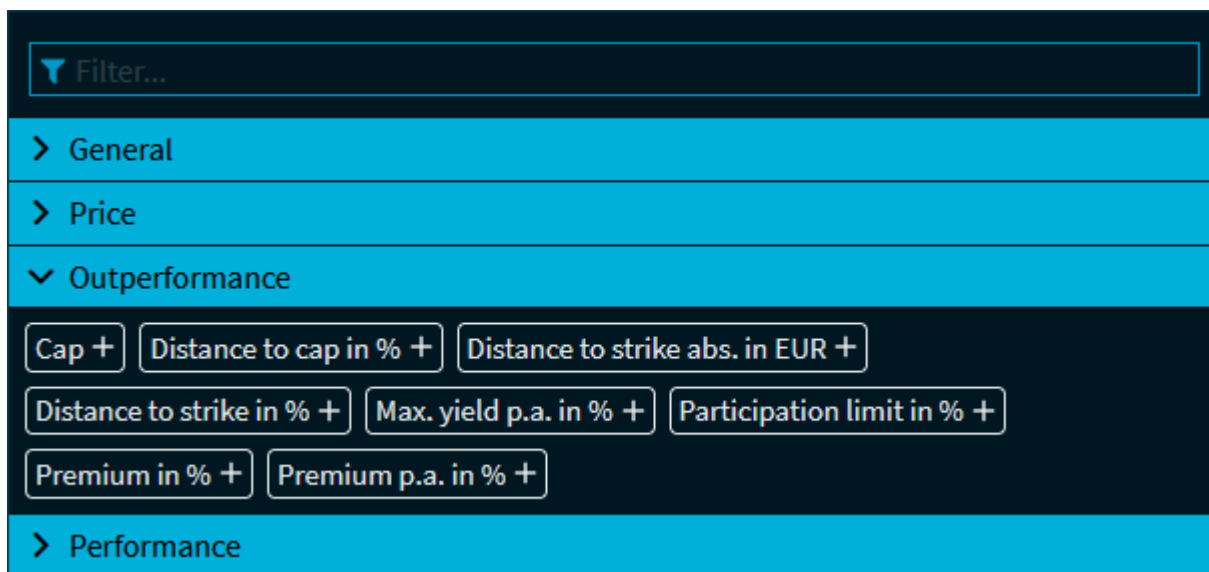
"Express" filter

- Distance to barrier in %



For information on how to configure filters, see [Filter screens](#).

7.17.6 Filters in certificate screens (security group "Outperformance")



In addition to the filters described in [Filters in certificate screens \(security group "All"\)](#), the following filter is available for outperformance certificates:

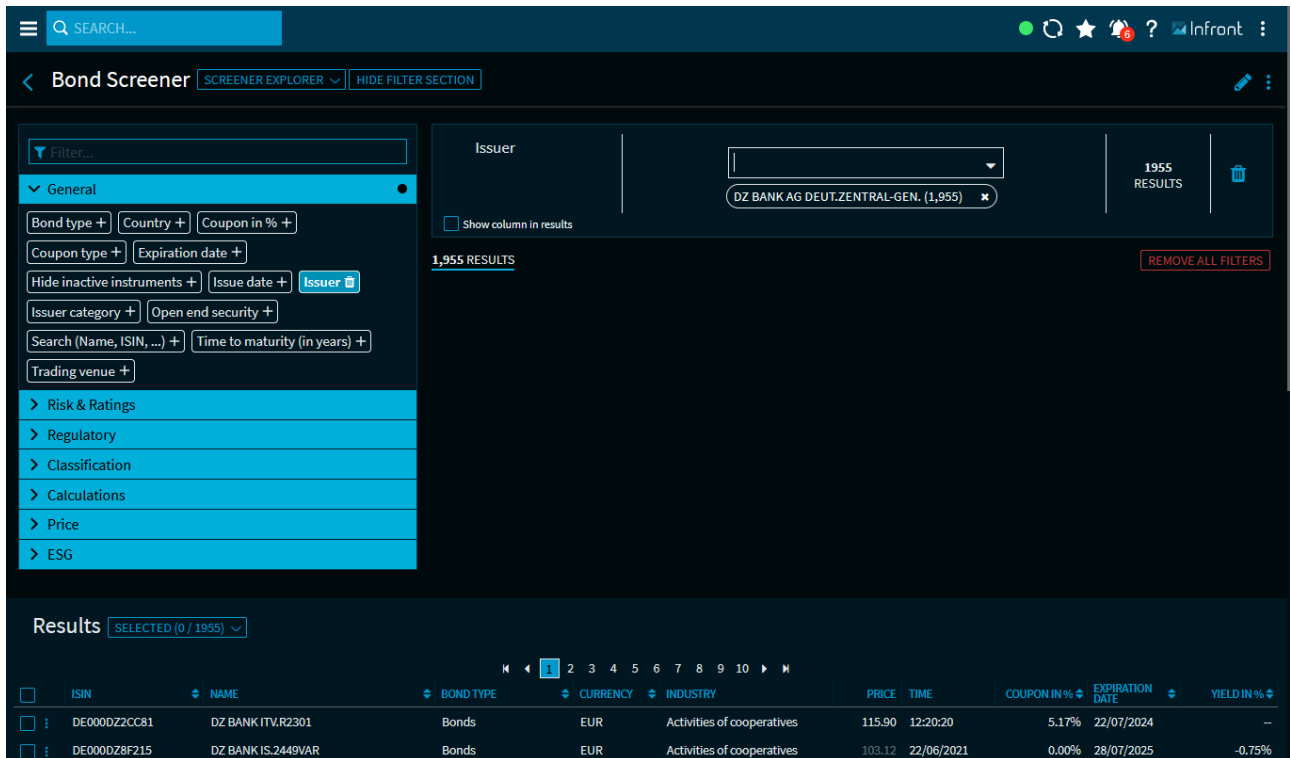
"Outperformance" filter

- Distance to strike abs. in EUR
- Distance to strike in %
- Distance to cap in %
- Premium in %
- Premium p.a. in %
- Cap
- Max. yield p.a. in %
- Participation factor in %



For information on how to configure filters, see [Filter screens](#).

7.18 Bond Screener



Bond Screener SCREENER EXPLORER HIDE FILTER SECTION

Filter...

General

Bond type + Country + Coupon in % +

Coupon type + Expiration date +

Hide inactive instruments + Issue date + **Issuer**

Issuer category + Open end security +

Search (Name, ISIN, ...) + Time to maturity (in years) +

Trading venue +

Risk & Ratings

Regulatory

Classification

Calculations

Price

ESG

Issuer: **DZ BANK AG DEUT.ZENTRAL-GEN. (1,955)**

☐ Show column in results

1,955 RESULTS REMOVE ALL FILTERS

Results SELECTED (0 / 1955)

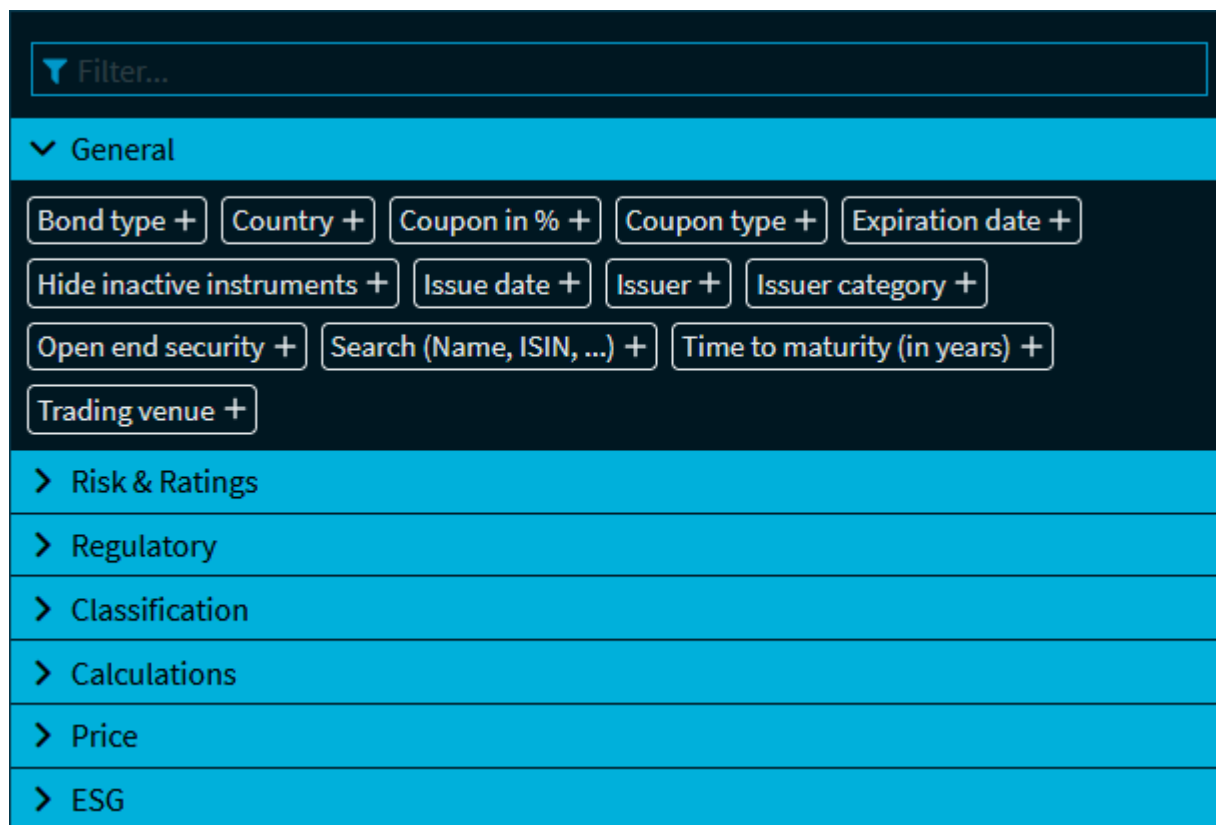
ISIN	NAME	BOND TYPE	CURRENCY	INDUSTRY	PRICE	TIME	COUPON IN %	EXPIRATION DATE	YIELD IN %
DE000DZ2CC81	DZ BANK ITV.R2301	Bonds	EUR	Activities of cooperatives	115.90	12:20:20	5.17%	22/07/2024	—
DE000DZ8F215	DZ BANK IS.2449VAR	Bonds	EUR	Activities of cooperatives	103.12	22/06/2021	0.00%	28/07/2025	-0.75%

The available filters are listed in the following [Filters in bond screens](#) chapters.

See also:

- [Filters in bond screens](#)

7.18.1 Filters in bond screens



The following filters are available for your bond screens:

"General" filter

- Bond type
- Issue date
- Issuer
- Issuer category
- Open end instrument
- Trading venue
- Hide inactive instruments
- Coupon in %
- Coupon frequency
- Coupon type
- Country
- Maturity
- Time to maturity (in years)
- Search (name, ISIN and so on)

"Calculations" filter

- 1-week volatility
- 1-month volatility
- 3-month volatility
- 6-month volatility
- 1-year volatility
- 3-year volatility

- 5-year volatility
- 10-year volatility
- Basis point value
- Duration
- Convexity
- Minimum trading unit
- Modified duration
- Yield in %
- Accrued interest
- Interest rate elasticity

"Classification" filter

- Sector
- Sector category

"Price" filter

- Traded last 5 days
- Pari
- Currency

"Regulatory" filter

- LEI

"Risk & Ratings" filter

- Moody's short-term
- Moody's long-term
- Subordinated
- S&P short-term
- S&p long-term
- [Debitor termination right](#)



For information on how to configure filters, see [Filter screens](#).

See also:

- ["Debitor termination right" filter](#)

"Debitor termination right" filter

For example, you can use this filter to search for bonds that do not have a debitor termination right. When configuring the filter, multiple selection of the filter conditions is possible; to do this, select the respective checkboxes.

Debitor termination right

☐ Show column in results

52,053 RESULTS

SELECT...

Filter...

☐ OHNE EINSCHRÄNKUNG JEDERZEIT (1,132)
☐ OHNE EINSCHRÄNKUNG JEDERZEIT ZUM WERT AM TAG DER KÜNDIGUNG (9,946)
☐ OHNE EINSCHRÄNKUNG ZU JEDEM ZINSTERMIN (1,598)
☐ OHNE EINSCHRÄNKUNG ZUM TERMIN (2,197)
☐ SONSTIGES (65)
☐ UNTER EINSCHRÄNKUNG (5)
☐ ZU WECHSELNDEN KURSEN (278)

52053 RESULTS

REMOVE ALL FILTERS

7.19 Share Screener

SEARCH...

Share Screener

SCREENER EXPLORER

HIDE FILTER SECTION

Filter...

General

Country +

GICS Industry +

GICS Industry Group +

GICS Sub-Industry +

Index +

Industry

Search (Name, ISIN, ...)

Trading venue +

Risk & Ratings

Regulatory

Earnings estimates

Price

Performance

Fundamental data

ESG

Industry

1 SELECTED ITEM

250 RESULTS

REMOVE ALL FILTERS

250 RESULTS

Results

SELECTED (0 / 250)

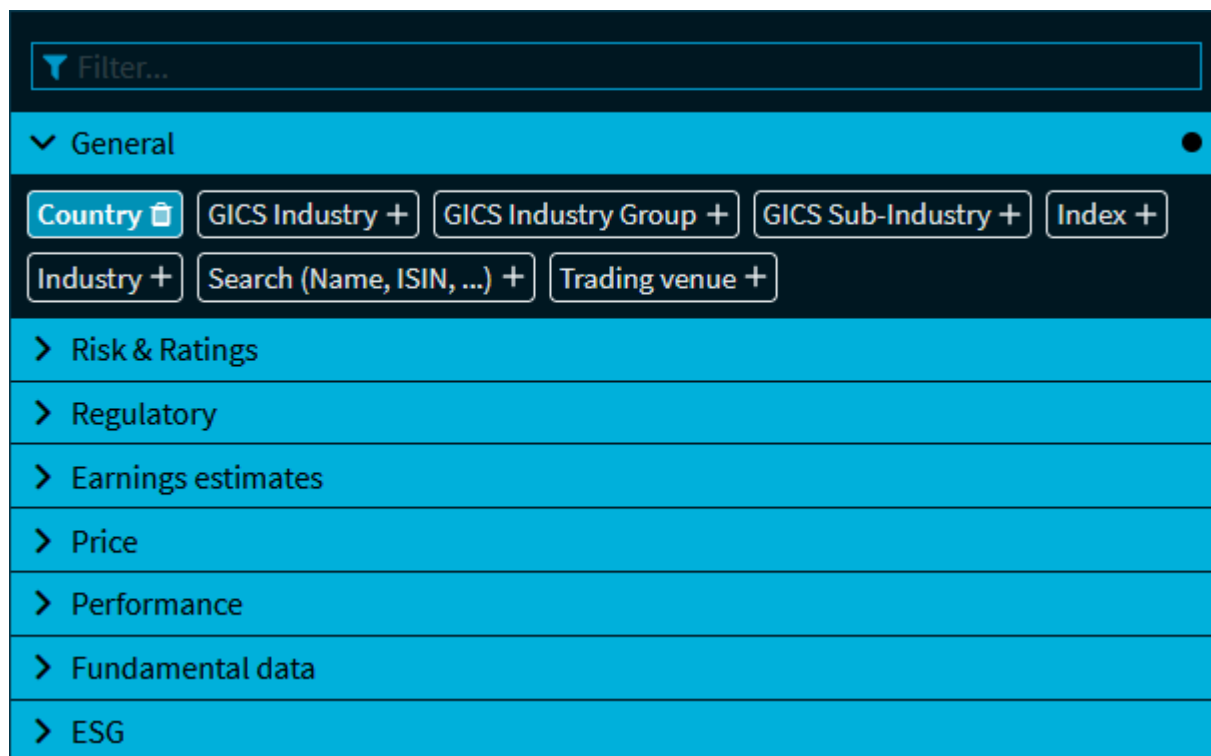
	ISIN	NAME	CCY	TRADING VENUE	PRICE	TIME	± IN %	VOLUME	1Y PERC.
<input type="checkbox"/>	TREDOT000013	DOGUS OTOMOTIV SERVIS VE TICAR	TRY	ISE	47.70	4:10:00 PM	1.49%	1,000	43.31%
<input type="checkbox"/>	US2026081057	COMIL VEHICLE GROUP DL-01	EUR	FSE	6.55	8:00:26 AM	-1.50%	0	-10.74%
<input type="checkbox"/>	KYG3777B1032	GEELY AUTO. HLDGS HD-02	EUR	FSE	1.94	4:30:07 PM	-0.27%	1,700	-36.41%
<input type="checkbox"/>	US8765685024	TATA MTRS LTD ADR/5 IR 2	EUR	FSE	28.60	10:59:39 AM	-0.69%	100	54.01%
<input type="checkbox"/>	AU000000DDT1	DATADOT FPO [DDT]	AUD	AUSX	0.01	9:19:02 AM	0.00%	--	-27.27%

The available filters are listed in the following chapter [Filters in share screens](#).

See also:

- [Filters in share screens](#)

7.19.1 Filters in share screens



The following filters are available for your share screens:

"General" filter:

- Industry
- GICS Industry (Global Industry Classification Standard)
- GICS Industry Group
- GICS Subindustry
- Trading venue
- Index
- Country
- Search (name, ISIN,...)

Filter "ESG":

- E - Emissions
- E - Resource use
- E - Suppliers footprint
- E - Product footprint
- E - Environmental governance & processes
- **ESG score**
- **ESG score relevance**
- G - CSR and sustainability
- G - Partnerships, memberships, awards and certifications
- G - Corporate ethics & behaviour
- G - Corporate governance
- **Governance**
- S - Community and society
- S - Customers & products

- S - Supply chain
- S - Employees
- **Social**
- **Environment**

"Fundamental data" filter:

- 1-week correlation
- 3-month correlation
- 6-month correlation
- 1-year correlation
- 3-year correlation
- 5-year correlation
- 10-year correlation
- Dividend yield financial year (AfU)
- Dividend yield previous financial year (AfU)
- EBIT (AfU)
- EBITDA (AfU)
- P/CF ratio financial year (AfU)
- P/CF ratio previous financial year (AfU)
- P/E financial year (AfU)
- P/E previous financial year (AfU)
- P/S financial year (AfU)
- P/S previous financial year (AfU)
- Net profit (AfU)
- Free float (AfU)
- Turnover (mil.) (AfU)

"Earnings Estimates" filter:

- CFJA Financial Year (FactSet)
("Cash Flow per Share")
- CFJA next financial year (FactSet)
- Dividend yield financial year (FactSet)
- Dividend yield next financial year (FactSet)
- EBIT financial year (FactSet)
- EBIT next financial year (FactSet)
- EBITDA financial year (FactSet)
- EBITDA next financial year (FactSet)
- EPS financial year (FactSet)
- EPS next financial year (FactSet)
- Recommendations (FactSet)
- Recommendations previous week (FactSet)
- Recommendations previous month (FactSet)
- BVPS financial year (FactSet)
- BVPS next financial year (FactSet)
- BVPS financial year (FactSet)
- BVPS next financial year (FactSet)
- Net profit financial year (FactSet)
- Net profit next financial year (FactSet)
- Sales financial year (FactSet)
- Sales next financial year (FactSet)

"Price" filter:

- 1-week average volume (qty.)
- 1-month average volume (qty.)
- 3-month average volume (qty.)
- 6-month average volume (qty.)
- 1-year average volume (qty.)
- 3-year average volume (qty.)
- 5-year average volume (qty.)
- 10-year average volume (qty.)
- Market capitalisation (AfU)

"Performance" filter:

- 1-week alpha
- 1-month alpha
- 3-month alpha
- 6-month alpha
- 1-year alpha
- 3-year alpha
- 5-year alpha
- 10-year alpha
- 1-week beta
- 1-month beta
- 3-month beta
- 6-month beta
- 1-year beta
- 3-year beta
- 5-year beta
- 10-year beta
- 1-week performance
- 1-month performance
- 3-month performance
- 6-month performance
- Performance YTD
- 1-year performance
- 3-year performance
- 5-year performance
- 10-year performance
- 1-week benchmark performance
- 1-month benchmark performance
- 3-month benchmark performance
- 6-month benchmark performance
- 1-year benchmark performance
- 3-year benchmark performance
- 5-year benchmark performance
- 10-year benchmark performance
- Distance to high (52 weeks)
- Distance to high (all time)
- Distance to low (52 weeks)
- Distance to low (all time)

"Regulatory" filter:

- LEI (Legal Entity Identifier)

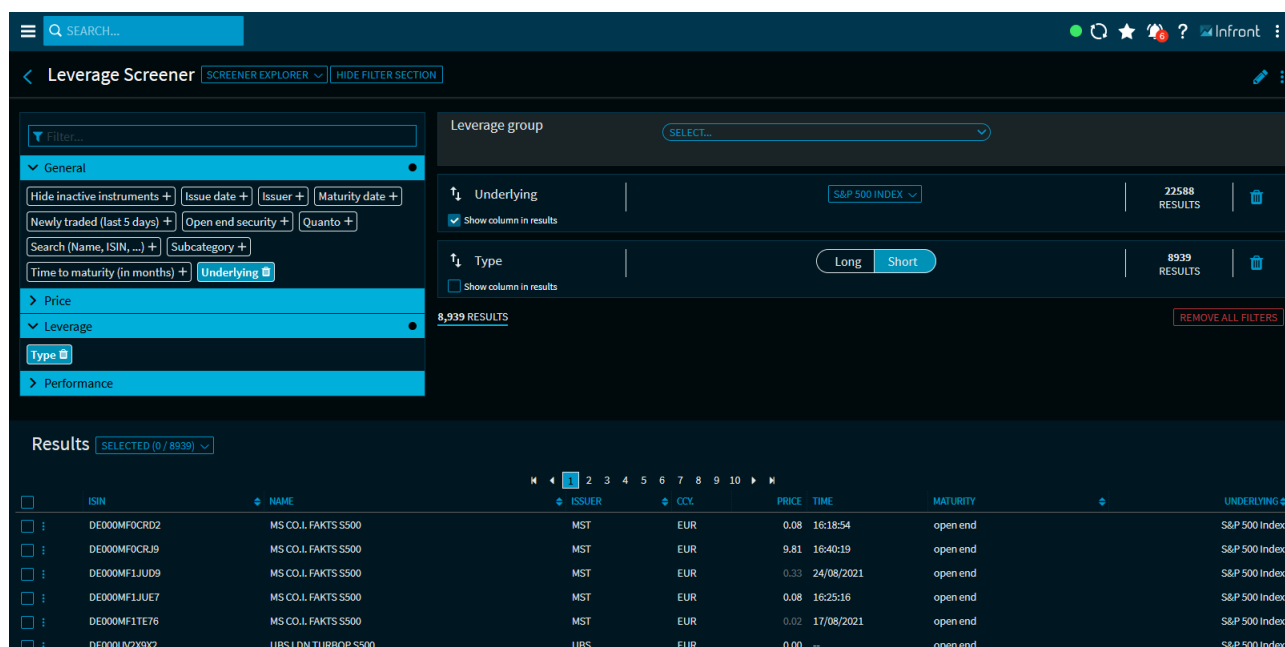
"Risk & Ratings" filter:

- 1-week volatility
- 1-month volatility
- 3-month volatility
- 6-month volatility
- 1-year volatility
- 3-year volatility
- 5-year volatility
- 10-year volatility
- Volatility year-to-date



For information on how to configure filters, see [Filter screens](#).

7.20 Leverage Screener



In the Leverage Screener, you can select a leverage group by using the upper drop-down list. The instruments are divided in the following leverage groups:

- All
- Discount warrant
- Factor certificate
- Knock-out
- Warrant
- Warrants other

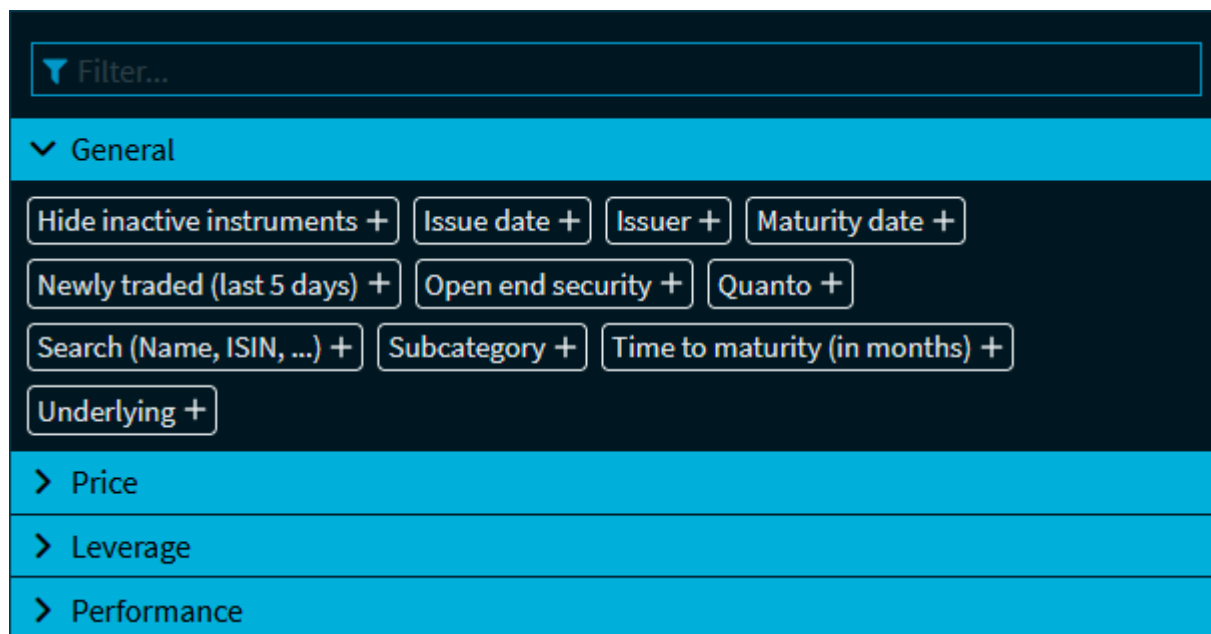
The available filters are listed in the chapter [Filters in leverage screens \(leverage groups "All"\)](#).

See also:

- [Filters in leverage screens \(leverage groups "All"\)](#)
- [Filter in leverage screens \(leverage groups "Factor certificate"\)](#)
- [Filter in leverage screens \(leverage groups "Knock-out"\)](#)

- [Filter in leverage screens \(leverage group "Warrant"\)](#)

7.20.1 Filters in leverage screens (leverage groups "All")



The screenshot shows a dark-themed interface with a search bar at the top labeled "Filter...". Below it, there are four main filter categories, each with a blue header bar and a list of filters:

- General** (expanded):
 - Hide inactive instruments +
 - Issue date +
 - Issuer +
 - Maturity date +
 - Newly traded (last 5 days) +
 - Open end security +
 - Quanto +
 - Search (Name, ISIN, ...) +
 - Subcategory +
 - Time to maturity (in months) +
 - Underlying +
- Price**
- Leverage**
- Performance**

The following filters are available for all leverage screens:

"General" filter

- Underlying
- Issue date
- Issuer
- Open end instrument
- Maturity date
- Time to maturity (in months)
- Hide inactive instruments
- Newly traded (last 5 days)
- Quanto
- Search (name, ISIN,...)
- Subcategory

"Price" filter


- Distance to strike in %
- Strike price
- Already traded
- Traded yesterday
- Traded today
- Traded last 5 days
- Traded last month

"Leverage" filter

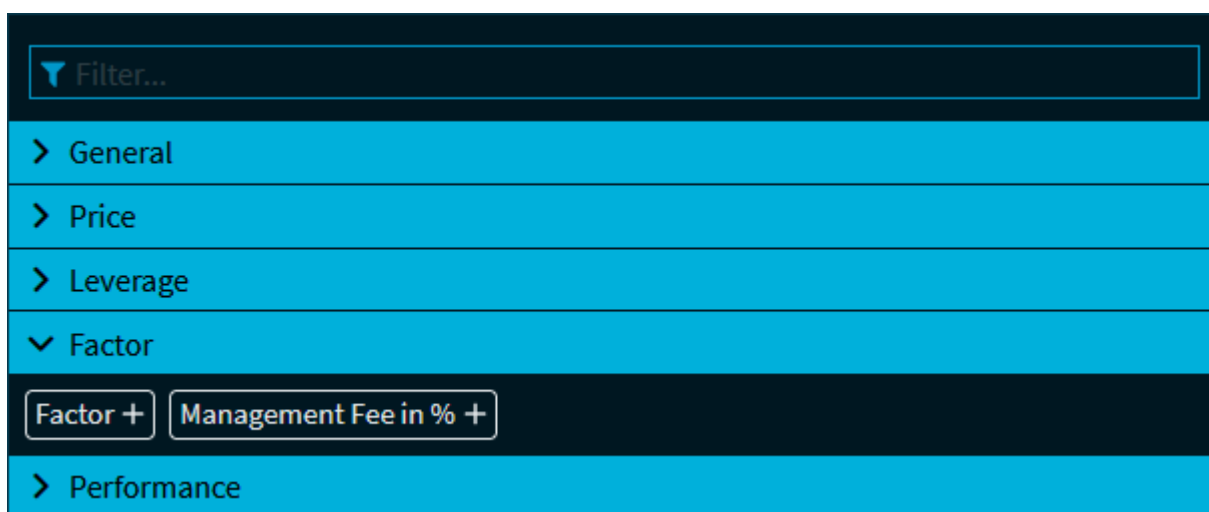
- Type

"Performance" filter

- 1-month performance
- 3-month performance
- 6-month performance
- Performance YTD
- 1-year performance
- 3-year performance
- 1-month volatility
- 3-month volatility

 For information on how to configure filters, see [Filter screens](#).

7.20.2 Filter in leverage screens (leverage groups "Factor certificate")




The screenshot shows a sidebar menu with a search bar at the top labeled 'Filter...'. Below the search bar are several menu items: 'General', 'Price', 'Leverage', 'Factor' (which is expanded and highlighted in blue), and 'Performance'. Under the 'Factor' menu item, there are two sub-items: 'Factor +' and 'Management Fee in % +', both of which are also highlighted in blue.

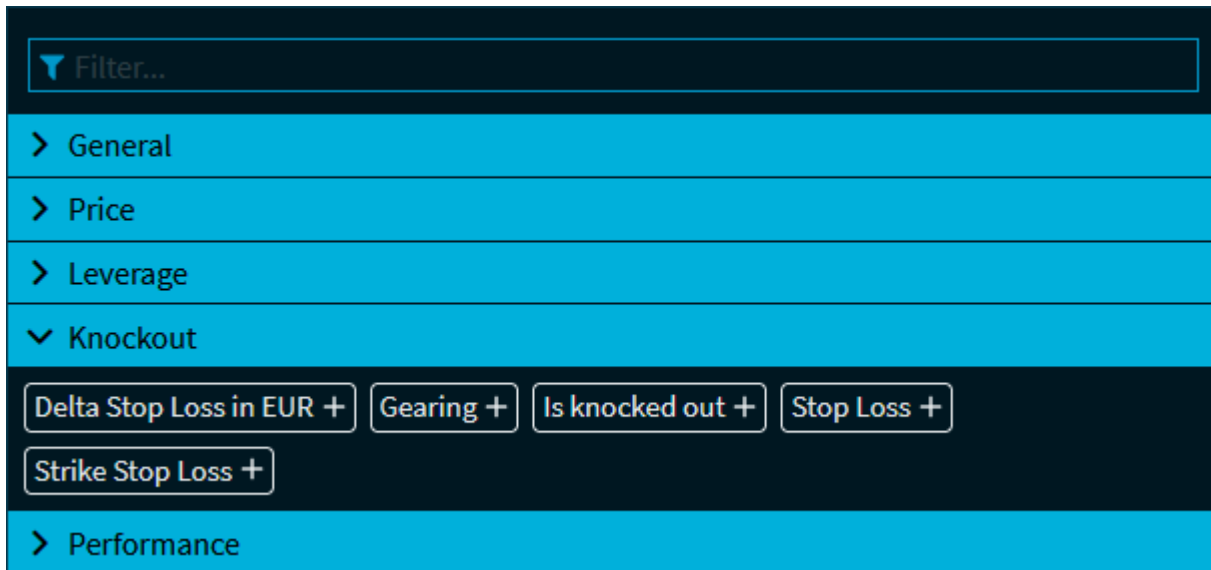
In addition to the filters described in [Filters in leverage screens \(leverage group "All"\)](#), the following filters are available for factor certificates:

"Factor" filter

- Factor
- Management fee in %

 For information on how to configure filters, see [Filter screens](#).


7.20.3 Filter in leverage screens (leverage groups "Knock-out")



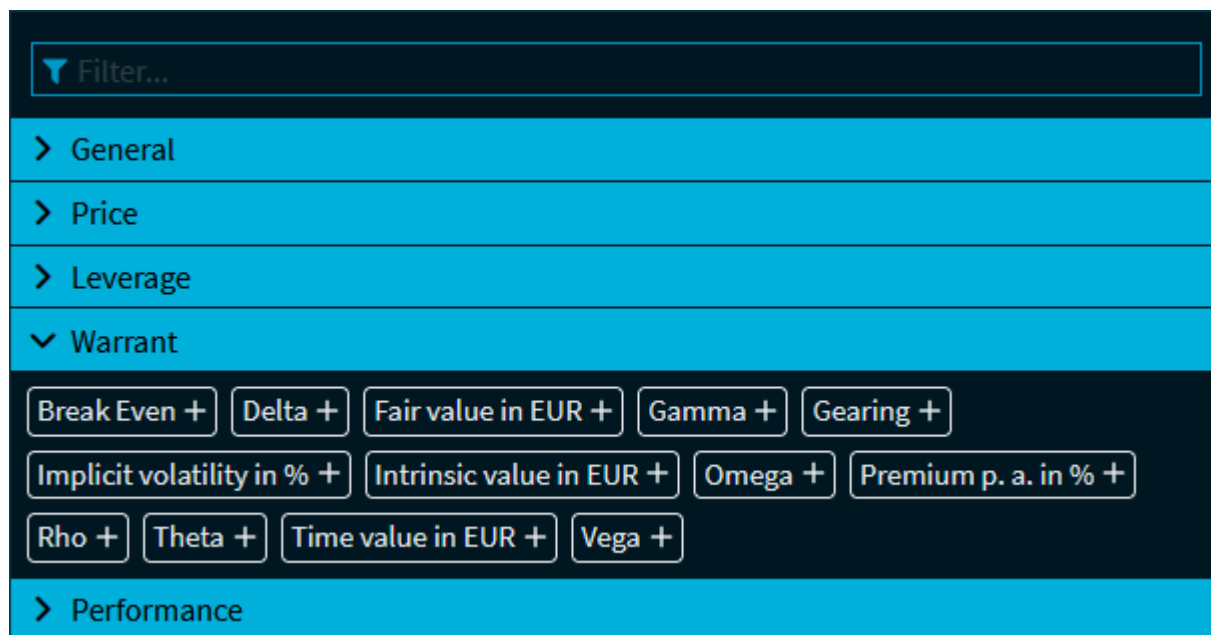
In addition to the filters described in [Filters in leverage screens \(leverage group "All"\)](#), the following filters are available for knock-out certificates:

"Knock-out" filter

- Knocked-out
- Delta stop-loss in EUR
- Leverage
- Stop Loss
- Stop-loss certificate

 For information on how to configure filters, see [Filter screens](#).


7.20.4 Filter in leverage screens (leverage group "Warrant")



In addition to the filters described in [Filters in leverage screens \(leverage group "All"\)](#), the following filters are available for warrants:

"Warrant" filter

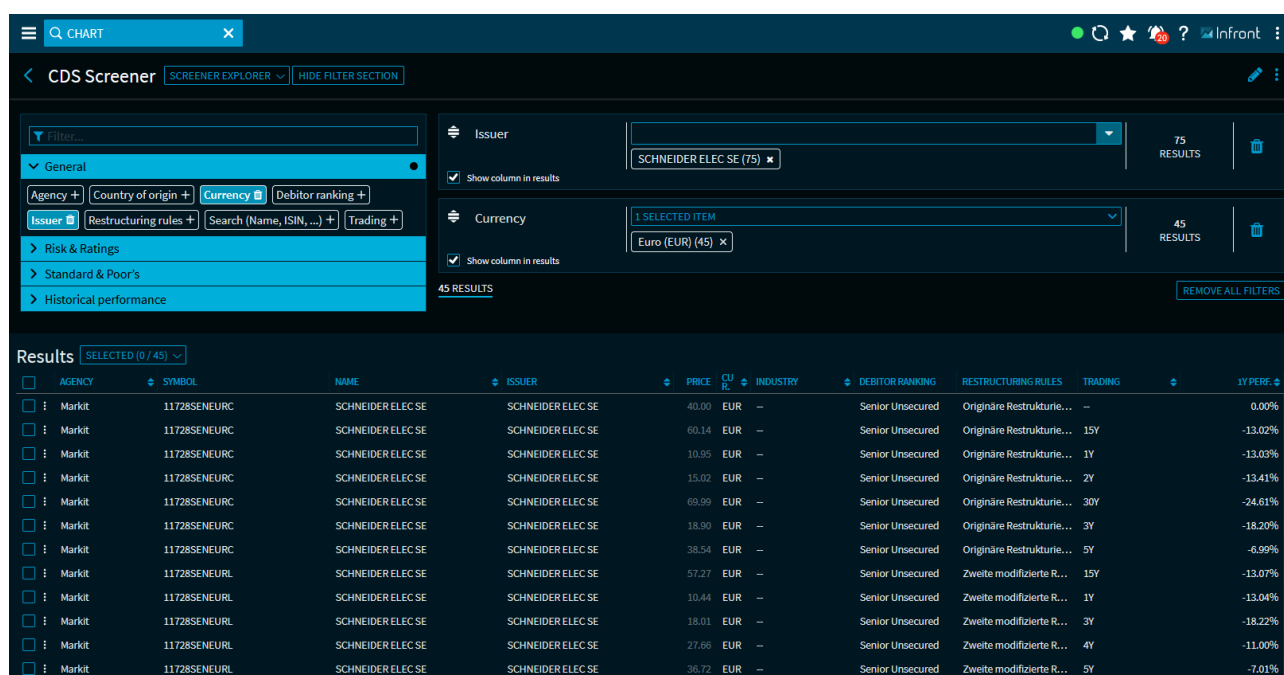
- Premium p.a. in %
- Break-even
- Delta
- Fair value in EUR
- Gamma
- Leverage
- Implied volatility in %
- Intrinsic value in EUR
- Omega
- Rho
- Theta
- Vega
- Time value in EUR

 For information on how to configure filters, see [Filter screens](#).

7.21 CDS Screener

Definition

A credit default swap (CDS) is a credit derivative in which default risks of loans, bonds or debtors are traded.



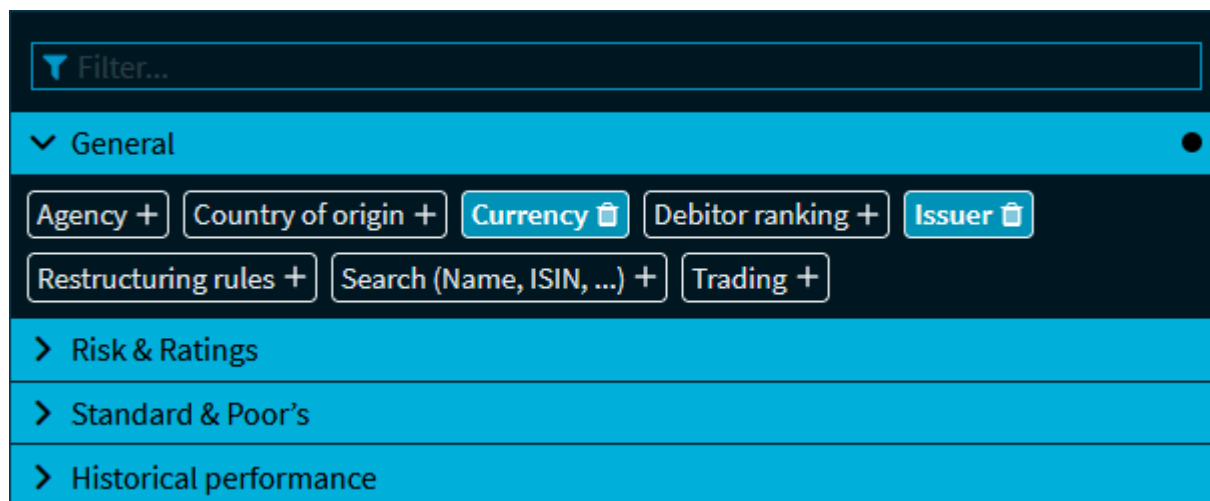
AGENCY	SYMBOL	NAME	ISSUER	PRICE	CUR	INDUSTRY	DEBITOR RANKING	RESTRUCTURING RULES	TRADING	1Y PERF.
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	40.00	EUR	—	Senior Unsecured	Originäre Restrukturie...	—	0.00%
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	60.14	EUR	—	Senior Unsecured	Originäre Restrukturie...	15Y	-13.02%
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	10.95	EUR	—	Senior Unsecured	Originäre Restrukturie...	1Y	-13.03%
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	15.02	EUR	—	Senior Unsecured	Originäre Restrukturie...	2Y	-13.41%
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	69.99	EUR	—	Senior Unsecured	Originäre Restrukturie...	30Y	-24.61%
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	18.90	EUR	—	Senior Unsecured	Originäre Restrukturie...	3Y	-18.20%
Markit	11728SENEURC	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	38.54	EUR	—	Senior Unsecured	Originäre Restrukturie...	5Y	-6.99%
Markit	11728SENEURL	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	57.27	EUR	—	Senior Unsecured	Zweite modifizierte R...	15Y	-13.07%
Markit	11728SENEURL	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	10.44	EUR	—	Senior Unsecured	Zweite modifizierte R...	1Y	-13.04%
Markit	11728SENEURL	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	18.01	EUR	—	Senior Unsecured	Zweite modifizierte R...	3Y	-18.22%
Markit	11728SENEURL	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	27.66	EUR	—	Senior Unsecured	Zweite modifizierte R...	4Y	-11.00%
Markit	11728SENEURL	SCHNEIDER ELEC SE	SCHNEIDER ELEC SE	36.72	EUR	—	Senior Unsecured	Zweite modifizierte R...	5Y	-7.01%

The available filters are listed in the following chapter [Filters in CDS screens](#).

See also:

- [Filters in CDS screens](#)

7.21.1 Filters in CDS screens



The following filters are available for your CDS screens:

"General" filter

- Agency
- Debtor ranking
- Issuer

- Trade
- Country of origin
- Restructuring rule
- Search (name, ISIN and so on)
- Currency

"Risk & Ratings" filter

- 1-week volatility in %
- 1-month volatility in %
- 3-month volatility in %
- 6-month volatility in %
- 1-year volatility in %
- 3-year volatility in %
- 5-year volatility in %
- 10-year volatility in %

Filter "Standard & Poor's"

- Sector
- S&P issuer rating
- Standard

"Historical performance" filter

- 1-week performance
- 1-month performance
- 3-month performance
- 6-month performance
- 1-year performance
- 3-year performance
- 5-year performance
- 10-year performance

7.22 Issuer Screener

The Issuer Screener provides the perfect search for issuers. Search for issuers based on ratings from the most important rating agencies, countries or LEIs.

The screenshot shows the 'ISSUER SCREENER' interface. At the top, there are buttons for 'PLEASE SELECT' and 'HIDE FILTERS', along with 'DISCARD' and 'SAVE'. Below this, there are several filter sections: 'Filter...' (with a search bar), 'Fitch Ratings' (with sub-filters for IFS Rating, Long Term Rating, Long Term Rating Date, and Short Term Rating), 'General' (with Country and Search (Issuer, LEI)), 'Moody's Ratings' (with sub-filters for Long Term Rating, Long Term Rating Date, and Short Term Rating), and 'S&P Ratings' (with sub-filters for Long Term Rating, Long Term Rating Date, and Short Term Rating). On the right side, there are dropdowns for 'Country' (showing 'DE (215,974)') and 'Long Term Rating (S&P)' (showing '1 SELECTED ITEM'). Below these, there are buttons for 'SHOW COLUMN IN RESULTS' and 'REMOVE ALL FILTERS'. The 'Results' section at the bottom displays a table with columns for NAME, LEI, COUNTRY, and various rating metrics. The table contains several rows of data, including 'Talanx Aktiengesellschaft', 'SAP SE', 'Kreditanstalt für Wirt...', 'DEUTSCHE APO...', 'DZ HYP AG', and 'DZ BANK AG De...'. The table is scrollable, and there is a '6 RESULTS' indicator.

The available filters can be found in the following chapter [Filters in issuer screens](#).

- [Filters in issuer screens](#)

7.22.1 Filters in issuer screens

This screenshot shows the filter options in the 'ISSUER SCREENER' interface. It includes a 'Filter...' search bar and several expandable filter sections: 'Fitch Ratings' (with sub-filters for IFS Rating, Long Term Rating, Long Term Rating Date, and Short Term Rating), 'General' (with Country and Search (Issuer, LEI)), 'Moody's Ratings' (with sub-filters for Long Term Rating, Long Term Rating Date, and Short Term Rating), and 'S&P Ratings' (with sub-filters for Long Term Rating, Long Term Rating Date, and Short Term Rating). The interface also features buttons for 'PLEASE SELECT' and 'HIDE FILTERS'.

The following filters are available for your issuer screens:

Filter "General"

- Country
- Search (Issuer, LEI)

Fitch Ratings

- IFS Rating (Fitch)
- Long Term Rating (Fitch)
- Long Term Rating Date (Fitch)
- Short Term Rating (Fitch)
- Short Term Rating Date (Fitch)

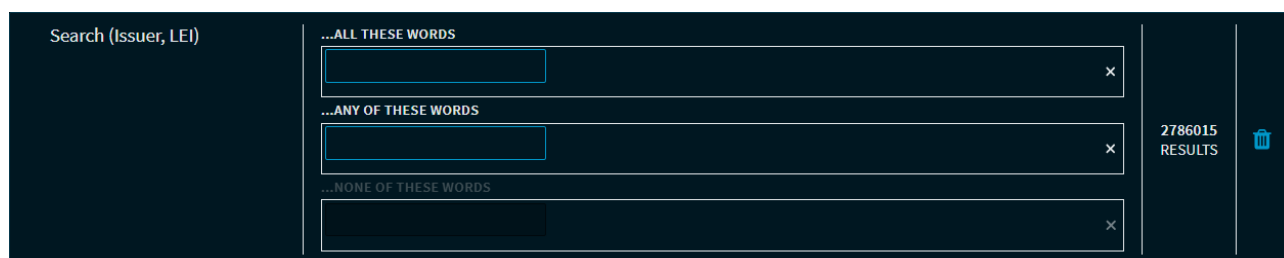
Moodys Ratings

- Long Term Rating (Moodys)
- Long Term Rating Date (Moodys)
- Short Term Rating (Moodys)
- Short Term Rating Date (Moodys)

S&P Ratings

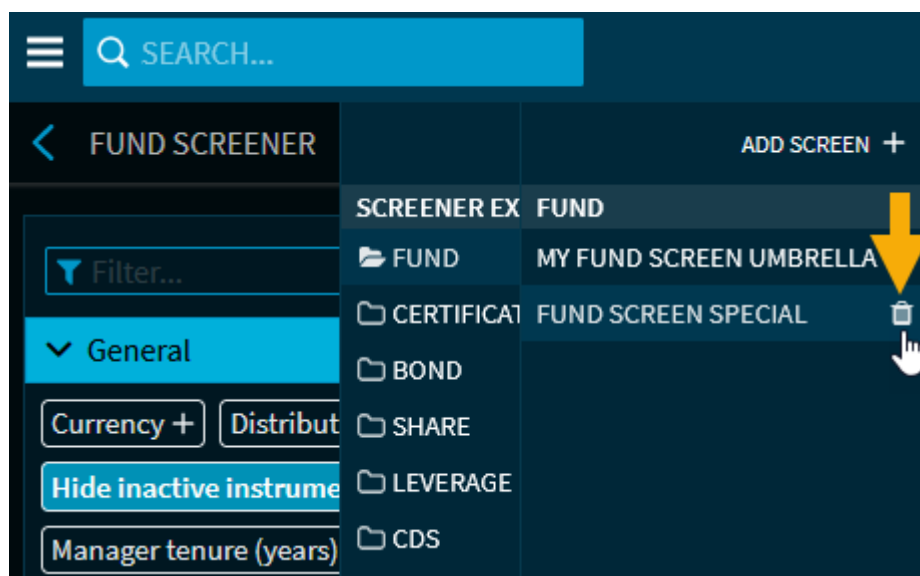
- Long Term Rating (S&P)
- Long Term Rating Date (S&P)
- Short Term Rating (S&P)
- Short Term Rating Date (S&P)

You can use the "Search" filter in the "General" filter area to configure detailed search queries for issuers or LEIs:

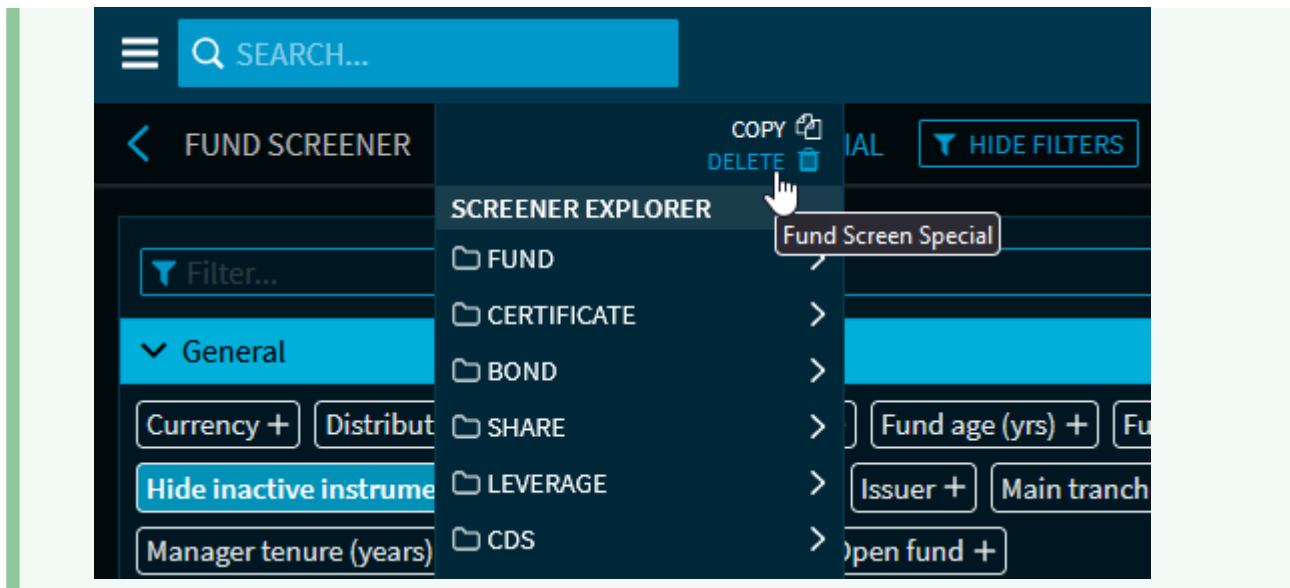


7.23 Delete screens

You can also delete the screens you created at any time. In the Screener Explorer screen, click the "Delete screen" icon and confirm the prompt with "Yes".



You can quickly delete the currently open private screen by using the "Delete" command at the top of the screener Explorer.



8 Communication Center

The Communication Center is the new central communication platform of Infront Investment Manager for administrators.



To open the Communication Center, use the "Communication Center" icon on the title bar of the Infront Investment Manager.



If there are unread notifications in the Communication Center, the number of these notifications is displayed as a red number on the icon.


The Communication Center allows administrators to publish notifications in freely configurable categories within the application.

NOTIFICATIONS CENTER

Market news

U.S. lays out possible critical raw materials agreement with EU

Release Notes


ADMIN

U.S. LAYS OUT POSSIBLE CRITICAL RAW MATERIALS AGREEMENT WITH EU

March 23 (Reuters) - The United States and the European Commission have negotiated a possible agreement to allow for electric vehicles with critical minerals extracted or processed in the European Union to qualify for U.S. green subsidies, Handelsblatt reported on Thursday.

Lithium, manganese, nickel and cobalt - key minerals for battery production - would fall under the agreement and should therefore qualify for subsidies under the U.S. \$430-billion Inflation Reduction Act (IRA) package, according to the draft paper seen by German business paper Handelsblatt.

Under the IRA rules, electric vehicles can qualify for subsidies only if at least 40% of the critical minerals within come from the U.S. or a country it has a free trade agreement with.

8.1 Settings

By using the settings, it can be configured for each category whether or not users are to be informed about new notifications with a special notifications, for example, by means of a pop-up.



You open the settings in the Communication Center by clicking the "Settings" icon at the bottom left of the dialogue window.

NOTIFICATIONS CENTER

Market news

U.S. lays out possible critical raw materials agreement with EU

Release Notes

ADMIN

SETTINGS

General

Default notification

SILENT

Per Category

Market news

SILENT

RESET USER STATE

Release Notes

SILENT

RESET USER STATE

In detail, the following setting options for the notifications are available via the respective drop-down lists of the categories:

- Ignore
- Still
- Pop-up
- Sticky pop-up

8.2 Admin area

Categories and notifications can be managed in the admin area.

You open the admin area in the Communication Center via the "Admin" button at the bottom left of the dialogue window, which is only visible if you have the appropriate authorisation.

NOTIFICATIONS (
ADMIN: MESSAGES
NEW MESSAGE

Title (0/100)
Mandatory: Please add a title here ...

Notes (0/5000)

Normal
B
I
U
S
”
</>
x₁
x²
🔗
☰
☷
☰
☷
☷
A
🖼️
Z_x

Mandatory: Please add your message text here ...

Category

▼
+

From

📅
19/06/2023 15:05

Till

📅
19/07/2023 00:00

Status

ACTIVE (AC)
▼

Targets

▼

⚙️
ADMIN

Author

CANCEL

SEND

9 Administration

Learn how to manage user data and general settings of Infront Investment Manager.

This chapter describes how to optimise your workstations in Infront Investment Manager.

Learn about the basic administration of the users and their credentials. You will also learn how to select the language and theme of Infront Investment Manager.

See also:

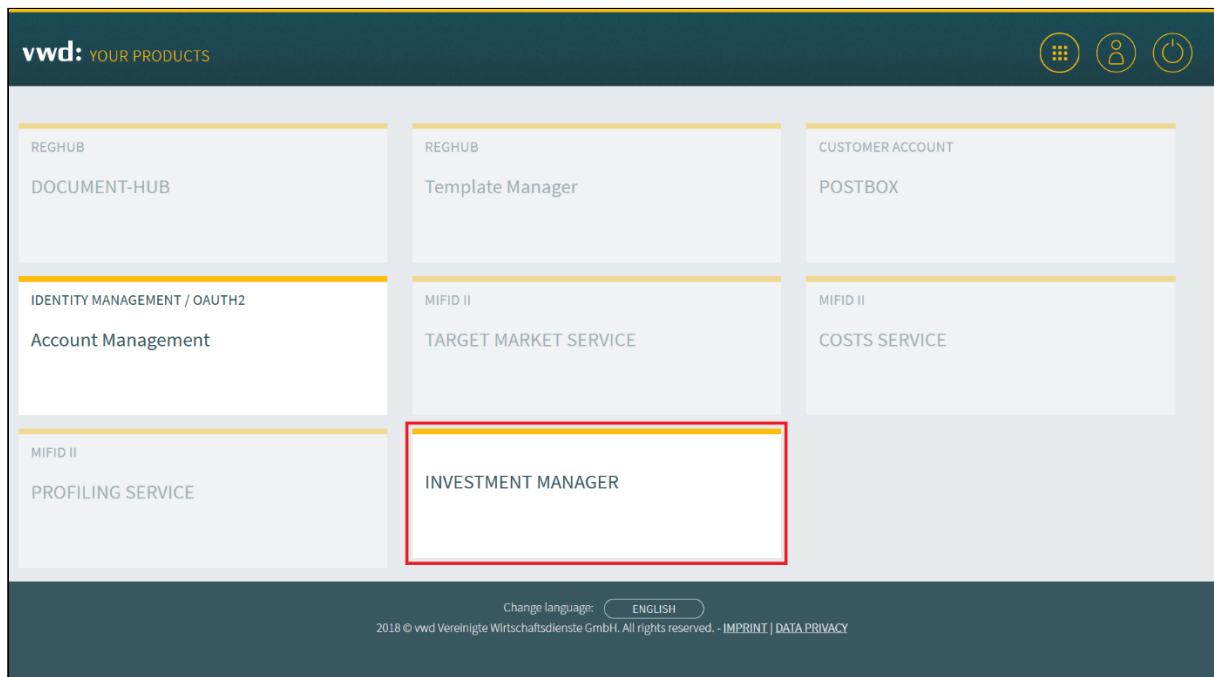
- [First login](#)
- [Log in](#)
- [Password rules](#)
- [Language selection](#)
- [Log out](#)
- [Contact](#)
- [Settings and profile](#)
- [Log](#)
- [Privacy Policy](#)
- [Disclaimer](#)
- [Imprint](#)
- [Send feedback](#)
- [System requirements](#)

9.1 First login

When using the credentials received from Infront Financial Technology GmbH for Infront Investment Manager or another service for the first time, you are prompted to change your password (for security reasons).

To log in online for the first time, follow these steps:

1. Open the link you received for the log in.
The log in page opens in the browser, where you can already select a different language. For more information, see the section [Language selection](#).
2. In the first input field, enter the user name you received or your e-mail address known to Infront Financial Technology GmbH.
3. In the second input field below, enter the temporary password you received.
4. Click the "Log in" button.
5. On the page that appears, enter the new password and confirm it. Make sure you follow the for the new password [Password rules](#).
6. After entering the new password, click the "Send" button.
In the browser, the start page with all services and products appears. You can open the products activated for you.

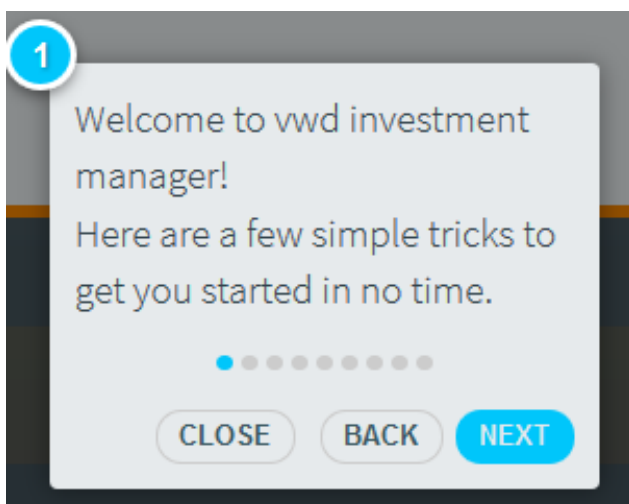


7. Select the "Infront Investment Manager" entry.
8. Infront Investment Manager opens. When you log in for the first time, you see the welcome page.
9. Accept the Privacy Policy, confirm the information about the usage of cookies and, optionally, consent to receiving advertisement material.

The welcome page allows you to specify or edit the "WP2 advisor number", "Position" and "E-mail" on your first login. This data is transferred to the "Settings & Profile" module and can be changed there again, if necessary.

After you confirm the Privacy Policy, you see the actual user interface of Infront Investment Manager. When you open the application for the first time, you will see introductory tooltips ("intros") to get you up and running in Infront Investment Manager.

You can control these intros by using the "Close", "Back" and "Next" buttons or directly jump to one of the steps by clicking the small dots:

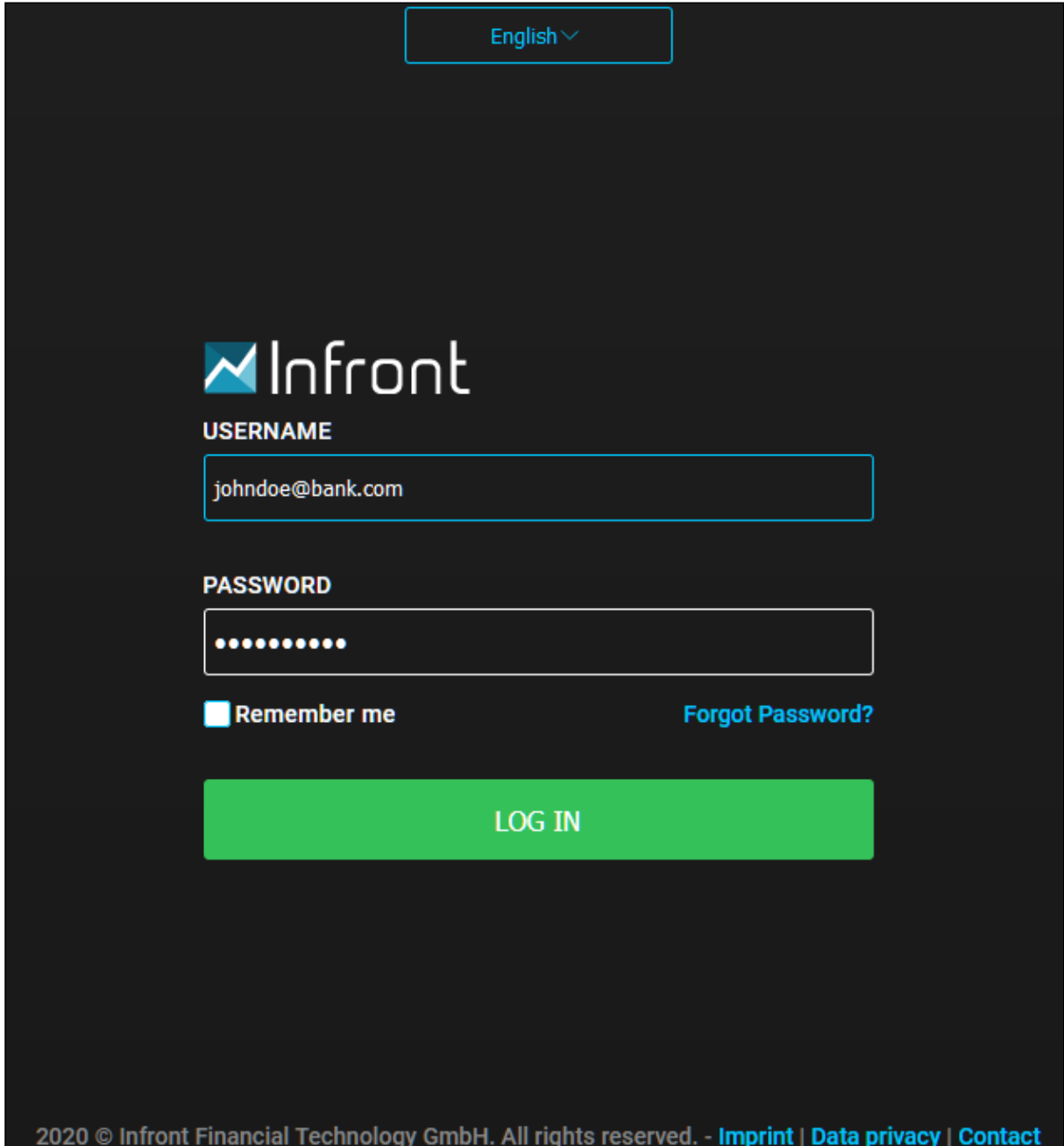


To start Infront Investment Manager, you must confirm the Privacy Policy when you log in for the first time.

9.2 Log in

If you want to log in again after you logged out, follow these steps:

1. Open the link for the log in:
2. In the first input field, enter the user name or your e-mail address known to Infront Investment Manager.
3. In the second input field below, enter the password.



The image shows a login form for Infront Investment Manager. At the top right, there is a language selector button labeled "English" with a dropdown arrow. The Infront logo is centered on the page. Below the logo, there are two input fields. The first is labeled "USERNAME" and contains the text "johndoe@bank.com". The second is labeled "PASSWORD" and contains ten dots. Below the password field, there is a checkbox labeled "Remember me" and a link labeled "Forgot Password?". A large green button labeled "LOG IN" is positioned below the input fields. At the bottom of the form, there is a footer line: "2020 © Infront Financial Technology GmbH. All rights reserved. - [Imprint](#) | [Data privacy](#) | [Contact](#)".

4. Click the "Log in" button.
In the browser, the start page with all services and products appears. You open the activated products by clicking the corresponding entry. The services and products not activated are disabled.
5. Select the "Infront Investment Manager" entry.
6. The Infront Investment Manager opens, showing the last saved dashboard on the start page.



Infront Investment Manager supports one login for each user. If a user logs on a second time, the first connection is disconnected and reset to the login window.
The use of different logins is possible on one device in different browsers.

9.3 Password rules

Please note the minimum requirements when setting a password:

- The password is at least 9 characters long.
- The password has at least one capital character.
- The password has at least one small character.
- The password has at least one special character.
- The password differs from the last 12 passwords of the user.

9.4 Language selection



In the Settings for the user profile, you can configure a default language for the user, which you can override by using the commands described here.

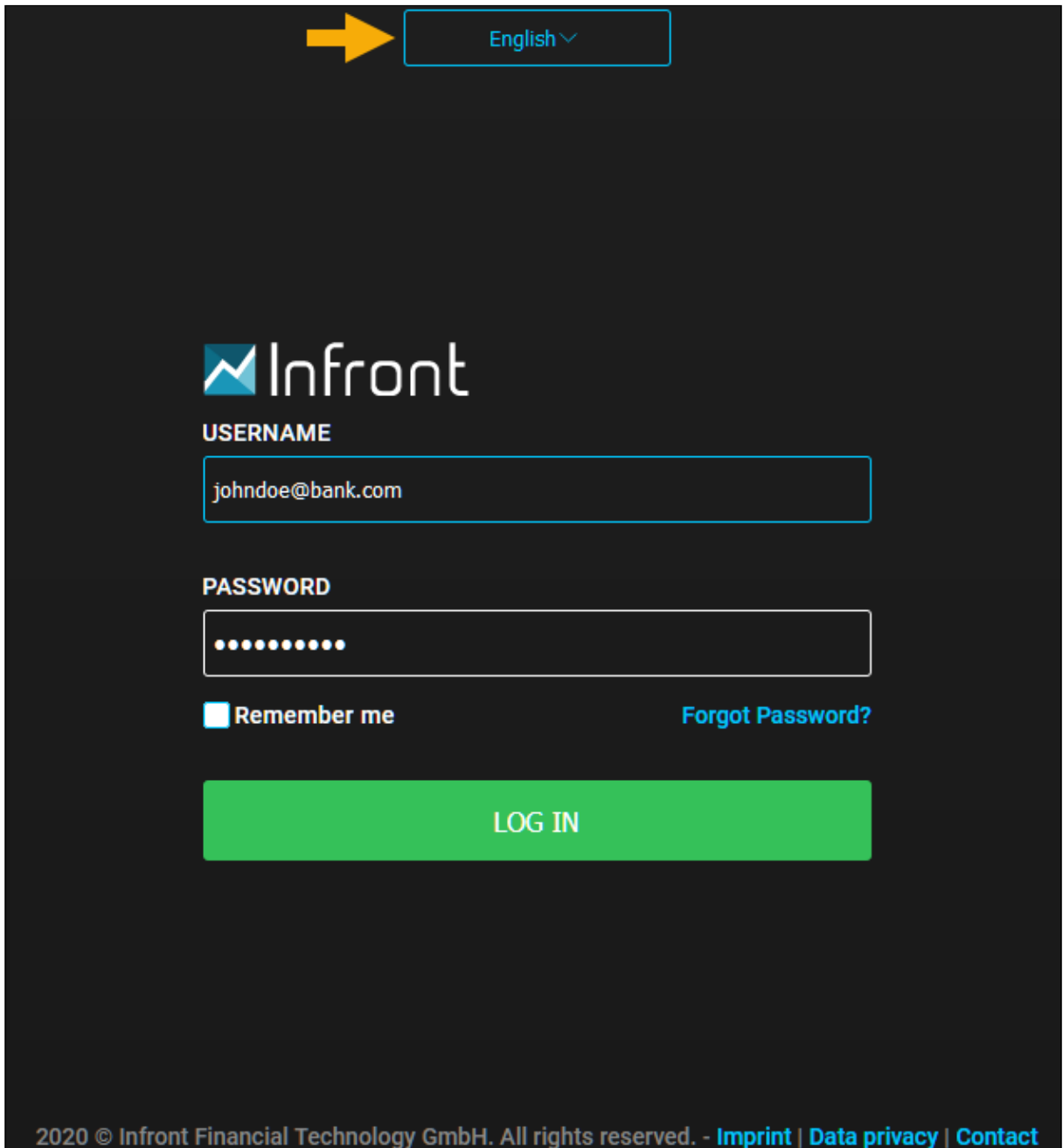
9.4.1 Language selection in the login screen

You can select the language on the login page of your Infront Investment Manager. Currently, you can select from five languages:


- German
- English
- French
- Italian
- Dutch

To change the language from German to English:

1. In the upper part of the login page, open the "Change language" drop-down list (in this case, "English" is selected).



English ▾

 Infront

USERNAME

johndoe@bank.com

PASSWORD

●●●●●●●●●●

☐ Remember me [Forgot Password?](#)

LOG IN

2020 © Infront Financial Technology GmbH. All rights reserved. - [Imprint](#) | [Data privacy](#) | [Contact](#)

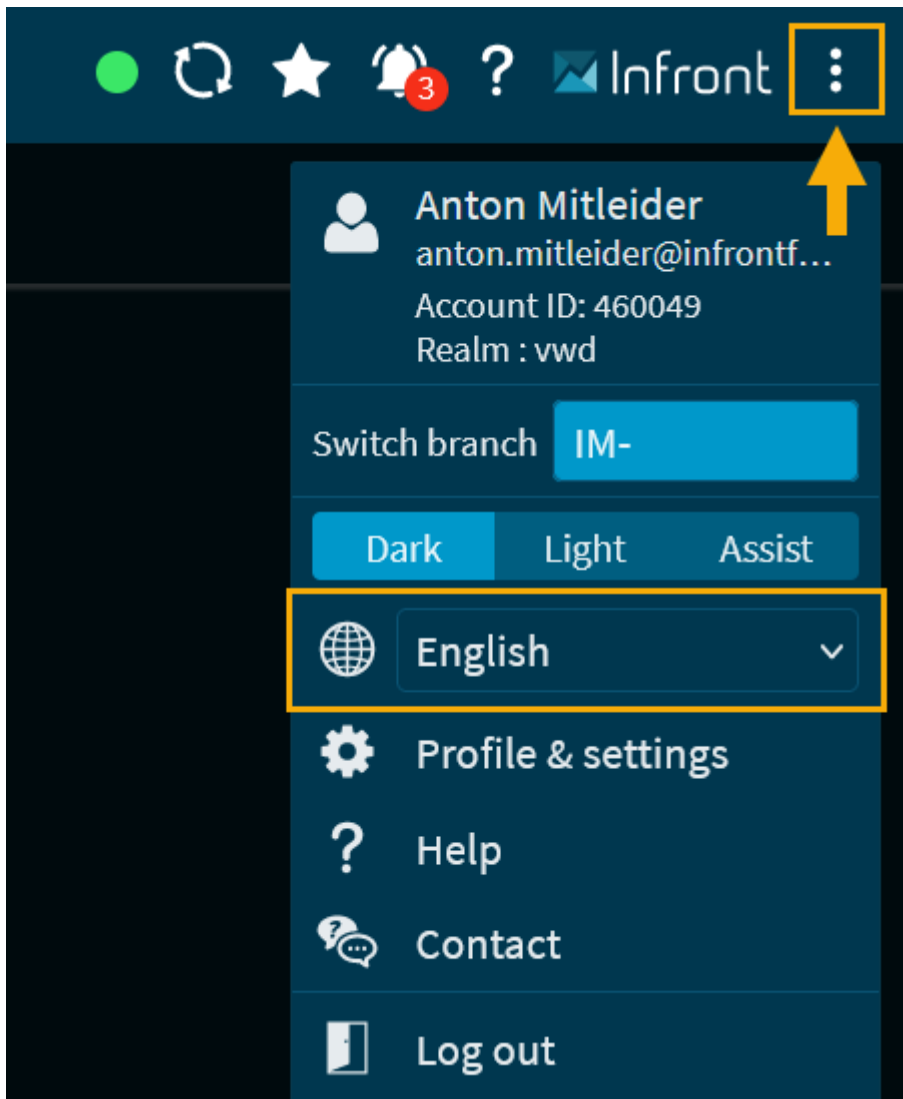
2. In the drop-down list, select "English".



3. Infront Investment Manager is now in English.
You can reset the initial language in the same way.

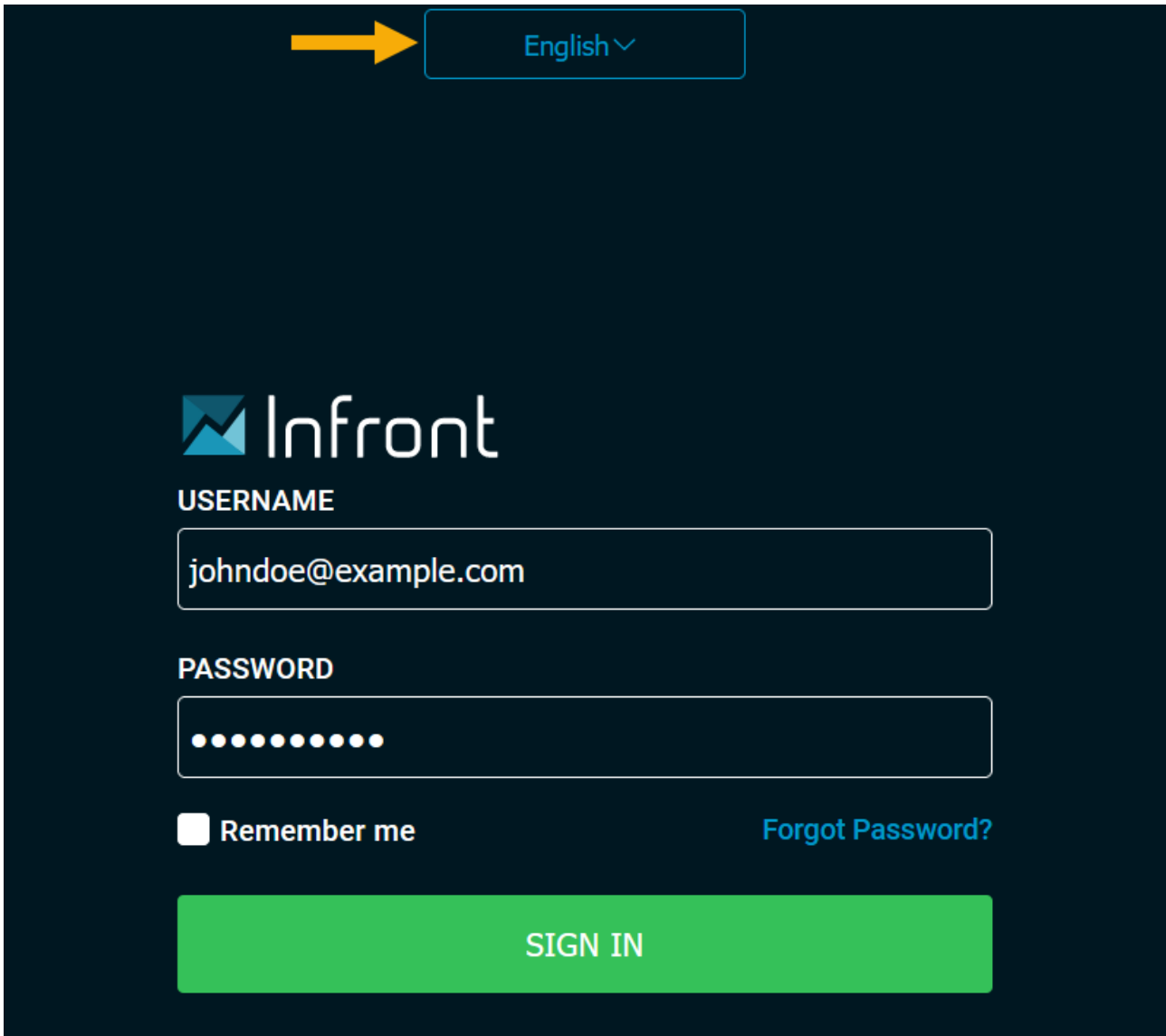
9.4.2 Language selection in the settings menu

As an alternative to the login page, you can also change the language in the open Infront Investment Manager at any time. You will find a corresponding drop-down list in the settings menu:



9.5 Log out

To end the current work session in the browser and log out, select the "Log out" command in [Settings menu](#) at the top right of the title bar.



After logging out, you can always log on again, see the section [Log in](#).

9.6 Contact

By using the "Contact" command in [Settings menu](#), you can see the contact details of the sales employee responsible for you or the corresponding customer service.

Select the country that applies to you from the list.

GET IN TOUCH

Want to get in touch? We 'd love to hear from you. Here's how you can reach us:

Deutschland

Schweiz

Vertrieb

+41 43 4444 999
www.infrontfinance.com/sales-team

Customer Service

+41 43 4444 911
supportch@infrontfinance.com

Belgien

Niederlande

Frankreich

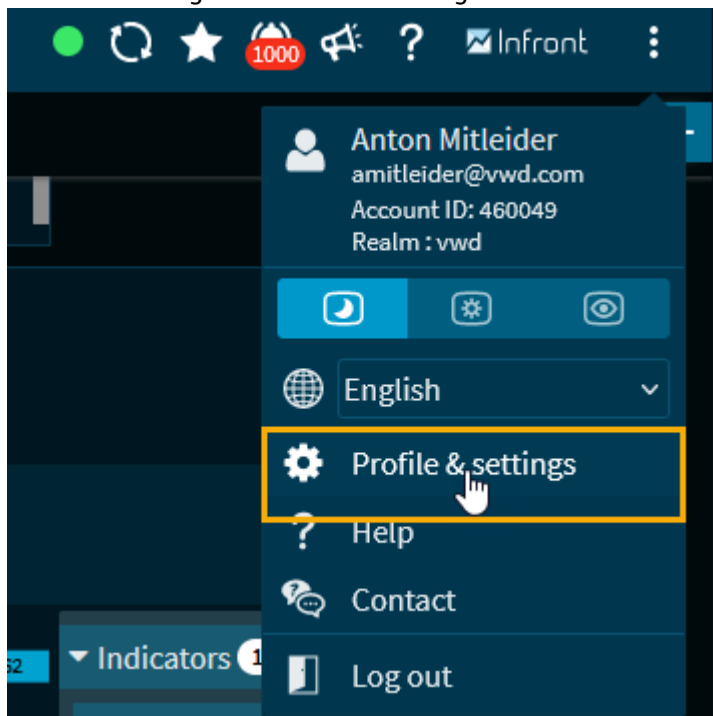
Italien

9.7 Settings and profile

In Infront Investment Manager, you can view and configure the current profile and program settings. Manage your personal information that Infront stores. The name specified here is necessary to share dashboards and news with other users, for example.

To edit your settings:

1. From the settings menu icon on the right side of the title bar, select "Settings & profile".



2. The "Settings" dialogue window appears with your user profile in the foreground. Make your changes here in the various areas that you can select on the left side of the dialogue window. For more information, see the following subsections.
3. Use the close icon at the top right of the settings dialogue window to save the settings, close the settings window and return to your dashboard.

See also:

- (50-en) "User profile" area
- ["Print frame" area](#)
- ["Sources" area](#)
- ["Legal" area](#)
- ["Activation" area](#)
- ["Assetmax" area](#)
- [Select theme](#)
- [Select branding](#)
- [Intro](#)
- [Configure print layout](#)
- [Enable Colour Assist](#)

9.7.1 "Print frame" area

In the "Settings" dialogue window, switch to this area to store an individual print layout for printouts.

For more information, see [Configure print layout](#).

9.7.2 "Sources" area

In the "Sources" area, you see your current data sources. Click an entry to expand the disclaimer of the corresponding provider.

PROFILE & SETTINGS

User profile

Print frame

Sources

Legal

Activation

SOURCES

Infront:

dpa-AFX

MSCI

Econoday

Nasdaq

EUROFER

S&P Credit Ratings

FactSet

S&P Dow Jones Indices

HONG KONG

STOXX

ICE BoAML

the Screener

JPX-Nikkei Index 400

TULLETT PREBON INFORMATION

MSCI

The MSCI information may only be used for your internal use, may not be reproduced or disseminated in any form and may not be used as a basis for or a component of any financial instruments or products or indexes. None of the MSCI information is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. Historical data and analysis should not be taken as an indication or guarantee of any future performance analysis, forecast or prediction. The MSCI information is provided on an "as is" basis and the user of this information assumes the entire risk of any use made of this information. MSCI, each of its affiliates and each other person involved in or related to compiling, computing or creating any MSCI information (collectively, the "MSCI Parties") expressly disclaims all warranties (including, without limitation, any warranties of originality, accuracy, completeness, timeliness, non-infringement, merchantability and fitness for a particular purpose) with respect to this information. Without limiting any of the foregoing, in no event shall any MSCI Party have any liability for any direct, indirect, special, incidental, punitive, consequential (including, without limitation, lost profits) or any other damages. The product(s) referred to herein is not sponsored, endorsed, issued, sold or promoted by MSCI. (www.msci.com)

9.7.3 "Legal" area

In the "Legal" area, you find details about the:

- [Disclaimer](#)
- [Privacy Policy](#)

PROFILE & SETTINGS

User profile

Print frame

Sources

Legal

Activation

×

LEGAL

Disclaimer

The information contained in this website is for general information purposes only. The information is provided by Infront Financial Technology GmbH and while we endeavour to keep the information up to date and correct, we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the website or the information, products, services, or related graphics contained on the website for any purpose. Any reliance you place on such information is therefore strictly at your own risk.

In no event will we be liable for any loss or damage including without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising from loss of data or profits arising out of, or in connection with, the use of this website.

Through this website you are able to link to other websites which are not under the control of Infront Financial Technology GmbH. We have no control over the nature, content and availability of those sites. The inclusion of any links does not necessarily imply a recommendation or endorse the views expressed within them.

Every effort is made to keep the website up and running smoothly. However, Infront Financial Technology GmbH takes no responsibility for, and will not be liable for, the website being temporarily unavailable due to technical issues beyond our control.

Privacy Policy

INFORMATION WE COLLECT AND ITS USE

We may ask for certain information such as a user name, your first and last name, birthdate, phone number, profession and e-mail address when you register with Infront Investment Manager, or if you correspond with us. We may also retain any messages you send through the Service and may collect information you provide in User Content you post to the Service. We use this information to operate, maintain and provide to you the features and functionality of the Service. We may also use this information to correspond with you and to address any issues you raise about the Service.

COOKIES INFORMATION

When you visit the Service, we may send one or more cookies (a small text file containing a string of alphanumeric characters) to your computer that uniquely identifies your browser and lets Canva help you log in faster and enhance your navigation through the site. A cookie may also convey information to us about how you use the Service (e.g., the pages you view, the links you click and other actions you take on the Service), and allow us or our business partners to track your usage of the Service over time.

9.7.4 "Activation" area

In the "Activation" area, you will find the details of your currently activated data subscriptions if you have the appropriate authorisation.

9.7.5 "Assetmax" area

If you also use Assetmax widgets, define the user profile here. Enter your Assetmax data (URL, Assetmax user and Assetmax password) and save it.

EINSTELLUNGEN & PROFIL

Benutzerprofil
Druckrahmen
Quellen
Rechtliche Hinweise
AssetMax-Profil

ASSETMAX-PROFIL

URL

LOGIN

PASSWORD


Password is not encrypted use this for testing purposes only

SPEICHERN

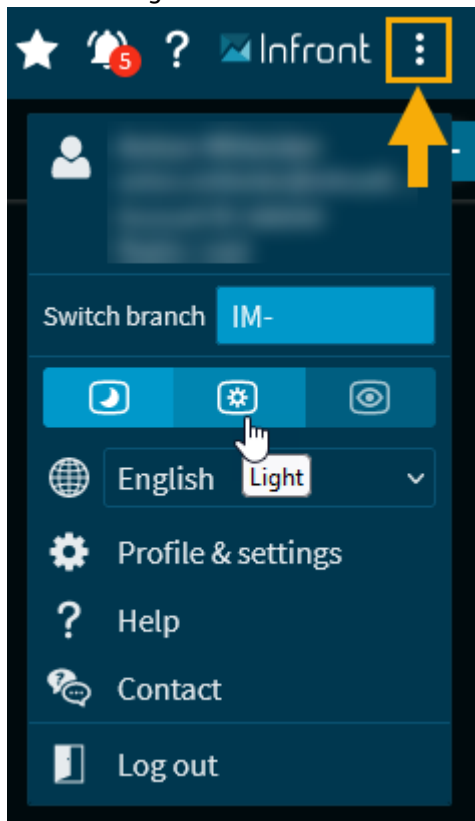
9.7.6 Select theme

In the settings menu (or in the settings of your user profile), you can quickly change the theme of your Infront Investment Manager. Currently, you can switch between the "Dark" (default) and "Light" theme.

To switch your Infront Investment Manager to the "Light" theme:

-  Open the settings menu in the title bar via the menu icon.

2. Click the "Light" icon in the menu.



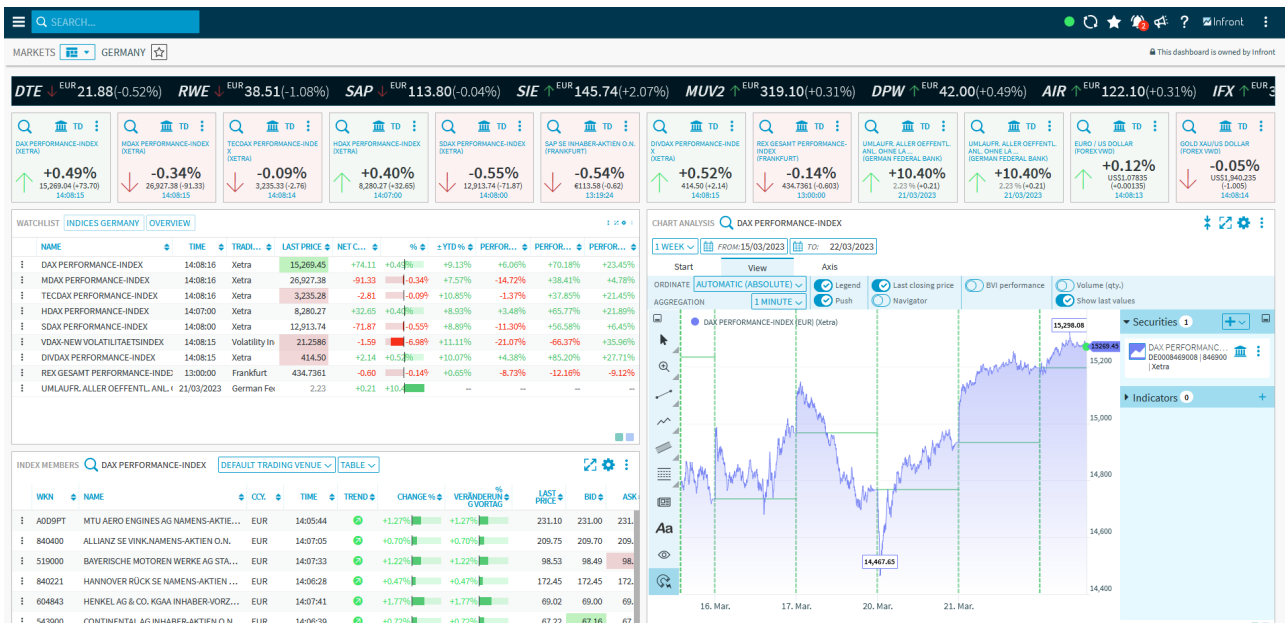
This changes the design.

From the widget menus, you can also change the theme.

"Dark" theme



"Light" theme



Notes

Please note that the change to the "Light" theme is not possible with Internet Explorer 11. We recommend to switch to another browser.

9.7.7 Select branding

If you have commissioned a corporate design for your Infront Investment Manager, then you (or your administrator) can select it in the "Branding" area (instead of the "default" branding). This changes the design of Infront Investment Manager to your individual branding.

Proceed as follows to change it:

1. From the menu icon in the title bar, select "Settings & Profile".
2. This opens the window showing your user profile.
3. In the "Theme and Branding" area, select your branding from the "Branding" drop-down list.
4. Use the close icon at the top right of the settings dialogue window to save the settings, close the settings window and return to your dashboard.
Then you see the changed branding.

9.7.8 Intro

When you open the application for the first time, you will see introductory tooltips ("Intro") to get you up and running in Infront Investment Manager.

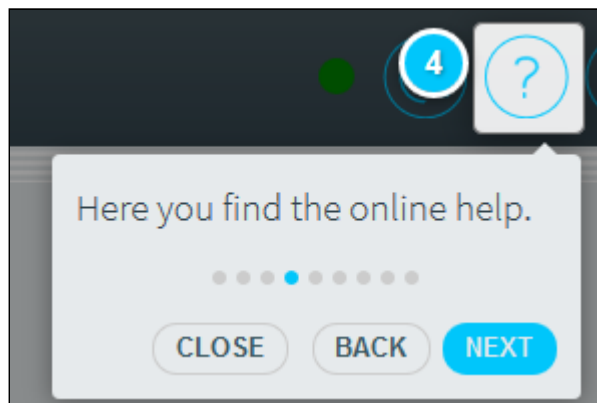
To repeat this introduction when you start the application the next time:

1. From the menu icon in the title bar, select "Settings & Profile".
2. This opens the window showing your user profile.
3. In the "Intro" area, click the "Restart intro" button.

4. Select the close icon at the top right of the settings dialogue window to close the settings window and return to your dashboard.

This opens the dashboard showing the intro.


Example

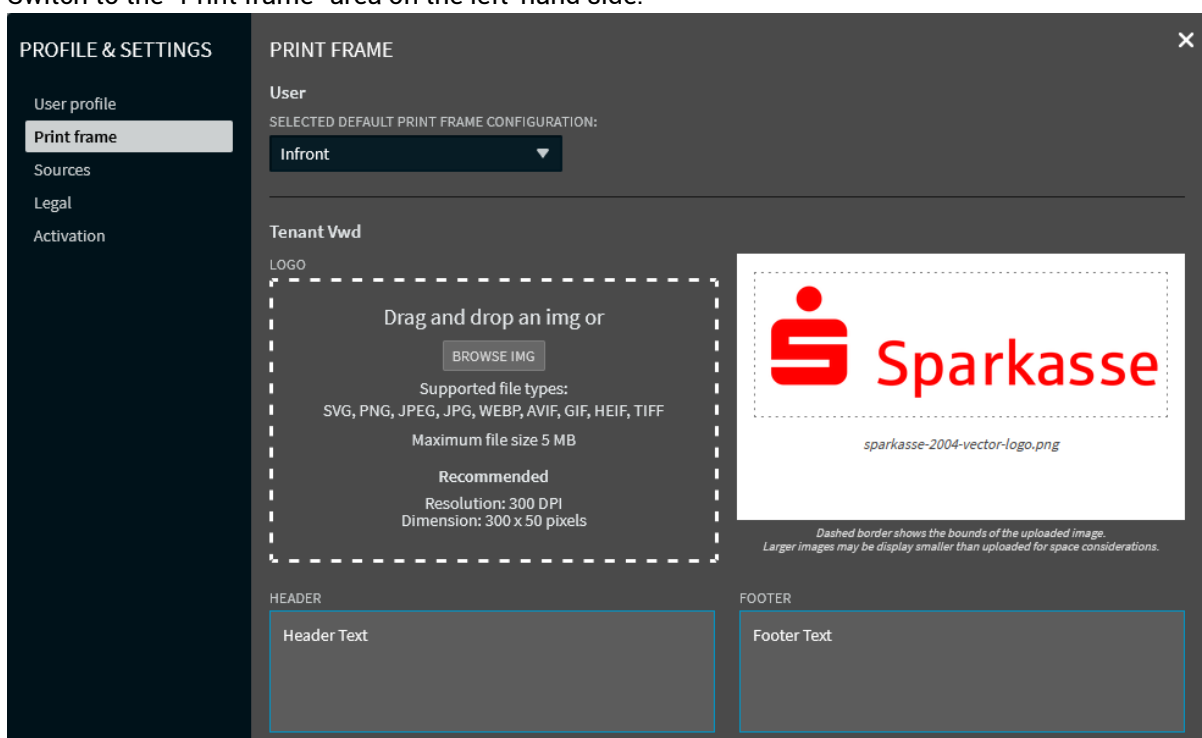


9.7.9 Configure print layout

In Infront Investment Manager, the administrator can define an individual print layout.

To do this, follow these steps:

1.  Open the main menu by clicking the main menu icon on the right side of the title bar and then select "Settings & Profile".
This opens the "Settings & Profile" dialogue window.
2. Switch to the "Print frame" area on the left-hand side.



3. Select a logo, if needed. You can also delete this logo.
4. Enter the text for the header in the "Header" input field.
5. Enter the text for the footer in the "Footer" input field.
6. Close the dialogue window after the configuration was completed.



Note that the print settings are supported by all modern browsers except by "Internet Explorer".

9.7.10 Enable Colour Assist

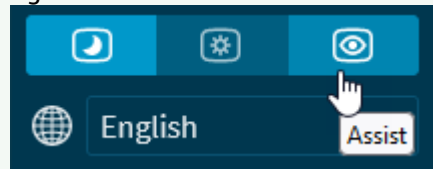
For users with colour vision problems, you can change the default display of Infront Investment Manager to the so-called "Colour Assist". To do this, select the "Colour optimisation" button in the "Design and branding" area in the user settings.



Tips



You can turn on colour optimisation directly in the program via the settings menu at the top right:



This mode is also useful if the monitor supports only a limit colour range.

Note that it is not possible to select a [theme](#) or [branding](#) when Colour Assist is enabled. In these cases, you must first switch the Colour Assist "Off".

9.8 Privacy Policy

You can find the privacy policy in the "Settings" dialogue window ["Legal" area](#).

9.9 Disclaimer

You can find the disclaimer page in the "Settings" dialogue window ["Legal" area](#).

9.10 Log

Infront Investment Manager logs results, access times and further parameters.

Logs

Filter logger:

```
[
  {
    "logger": "user/info",
    "loglevel": 40,
    "messageData": [
      "Currently logged in user: johndoe@vwd.com",
      {
        "realm": "vwd",
        "user_id": "87606aa2-ec92-43e4-9e7b-f57e16965d57",
        "user_name": "johndoe@vwd.com",
        "user_email": "johndoe@vwd.com",
        "user_phone": "86666666"
      }
    ]
  }
]
```

FinanceApi Requests

SERVICE	START	END	DIFFERENCE [MS]	CACHEPATH
user.searchEntitlement	16:57:28:426	16:57:29:408	982	Q
user.searchUserControl	16:57:28:503	16:57:29:464	961	Q
user.searchUserControl	16:57:28:511	16:57:29:464	953	Q
user.searchUserControl	16:57:28:521	16:57:29:465	944	Q
user.searchUserControl	16:57:28:503	16:57:29:465	962	Q
page.search	16:57:28:956	16:57:29:492	536	Q
watcher.searchSecurityLimit	16:57:28:523	16:57:29:601	1078	Q

CLEAR

CLOSE

The "Filter Logger" shows the various data blocks with their start and end time in milliseconds.

Point to the entries with the mouse cursor to display more details about the API requests.

Click the "Close" button to close the log window and return to Infront Investment Manager.

To delete the log, click the "Clear" button.

9.11 System requirements

To use Infront Investment Manager effectively, you only need a modern up-to-date browser where the cookies, JavaScript and the local storage are enabled. You will also need a memory of 4 GB RAM or more.

The system requirements in detail:

Element	Description
Browser	<ul style="list-style-type: none"> Google Chrome (current version) Mozilla Firefox (current version or current ESR) Microsoft Edge (current version) Safari (2 last major versions)

Element	Description
Browser settings	<ul style="list-style-type: none"> • Cookies enabled • localStorage enabled • JavaScript enabled
RAM	>= 4 GB
CPU	To be evaluated / defined
Access URLs (firewall configuration may need to be adjusted)	<p>General URLs:</p> <ul style="list-style-type: none"> • https://gateway.cloud.eu.infrontservices.com • <a href="https://<realm>.cloud.eu.infrontservices.com">https://<realm>.cloud.eu.infrontservices.com • https://idm.cloud.eu.infrontservices.com • https://gateway.eu.infrontfinance.com • https://idm.eu.infrontfinance.com • https://fonts.gstatic.com • https://fonts.googleapis.com • https://analytics.vwd.com • https://code.highcharts.com • https://wsv3.vwd-webtech.com • https://wtk.infrontservices.com • https://charts-api.vwd.com/ • wss://wsv3.vwd-webtech.com • wss://login.infrontservices.com <p>Production URLs may vary for users. The URLs can be configured for each user so that other domains can be used.</p>
IP addresses	<ul style="list-style-type: none"> • 128.127.8.48/28 (infrontservices.com) • 128.127.9.16/28 (infrontservices.com)


9.12 Imprint

Open the imprint with the "Imprint" command at the bottom of the login page of Infront Investment Man.

9.13 Send feedback

In Infront Investment Manager, you can send feedback about the application. To do this, follow these steps:

1. Select "Send feedback" from the "Settings menu" icon menu on the right side of the title bar.
2. In the dialogue window that appears, enter a description and a corresponding summary.
3. Consider enabling the checkbox to include data about your current environment, like the browser and page URL.
Sending this technical details is optional but helps us process your feedback.
4. Finally, click the "Submit" button to send your message.
This sends the feedback, a corresponding notification appears.

 The feedback function can be disabled.



Infront Financial Technology GmbH
Mainzer Landstraße 178 – 190
60327 Frankfurt am Main
Customer Service: +49 69 26095760
E mail: supportde@infrontfinance.com
www.infront.co