MFG110 - M7 - Trader Manual ComTrader

M7 Release 6.21.223

Date	29.09.2026
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1 Abbreviations

Abbreviation	Meaning
AMQP	Advanced Message Queuing Protocol
AON	All Or Nothing
ATC	Available Transfer Capacity
BAL	Balancing Order
BG	Balancing Group
CET	Central European Time
CSV	Comma-Separated Values
FOK	Fill Or Kill
GFS	Good For Session
GTD	Good Till Date
GUI	Graphical User Interface
H2H	Hub-To-Hub
ICB	Iceberg
IOC	Immediate Or Cancel
NON	None
OTC	Over The Counter
REG	Regular
STP	Stop
VWAP	Volume Weighted Average Price

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2 Introduction

2.1 About this Document

This document contains a description of the ComTrader front-end by Deutsche Börse AG. It is intended as a manual for traders and brokers, whilst the document *MFG120 – Admin Manual ComTrader* contains a description for market operation users.

2.2 The M7 ComTrader

ComTrader is a fast and highly customisable trading front-end designed to be used with the M7 trading architecture of Deutsche Börse Group.

Access to the GUI is enabled via java web start technology, so the only pre-requisites are a standard internet browser (like Internet Explorer, Google Chrome or Firefox) and an installed Java plugin. As updates are installed automatically, there is no need for maintenance windows or system downtimes whenever a new version of the GUI becomes available.

The GUI features server-stored profiles. Therefore, user specific settings are available on every computer used to access the GUI.

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3 Basic Features and Architecture

3.1 General

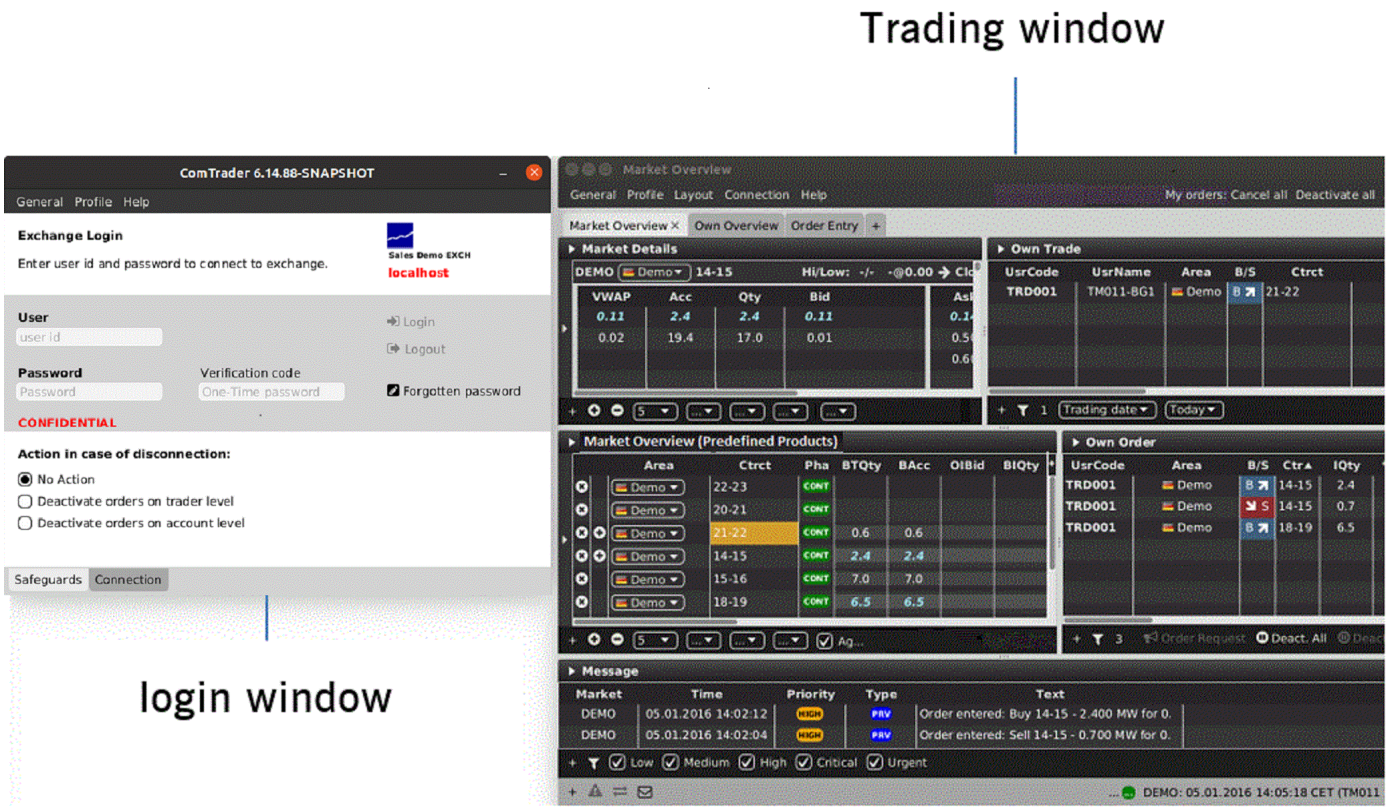
This chapter contains a description of the basic architecture and generic features of ComTrader for all panels and configurations.

The GUI is designed to be highly customisable and employs a *design mode (see Adding Panels to Boards)* to freely define the composition and layout of all entities.

3.2 Windows, Boards and Panels

The ComTrader GUI is designed in a hierarchical fashion which consists of *windows*, *boards*, and *panels*.

A ComTrader **window** is the basic GUI entity. It contains all of the other GUI elements such as *boards* and *panels*.



ComTrader features two types of windows: a ***login window*** (see *Login Window*), which is used for basic system settings and for establishing a connection to the trading system, and one or more ***trading windows*** (see *Trading Windows*) which contain the actual boards and panels in which information is displayed. and trading actions are performed.

All *windows* can be closed or reopened at any time as long as at least one ComTrader *window* is open. When the last ComTrader *window* is closed, the user is logged out of the connected exchange and the application is shut down.

A ***board*** (or *trading board,* see *Trading Boards*) is the next lower structural level, as it can contain multiple ***panels*** (see *Trading Panels*), whilst it itself is contained in one existing *window*. *Boards* can only be added to trading *windows* (not the *login window*)

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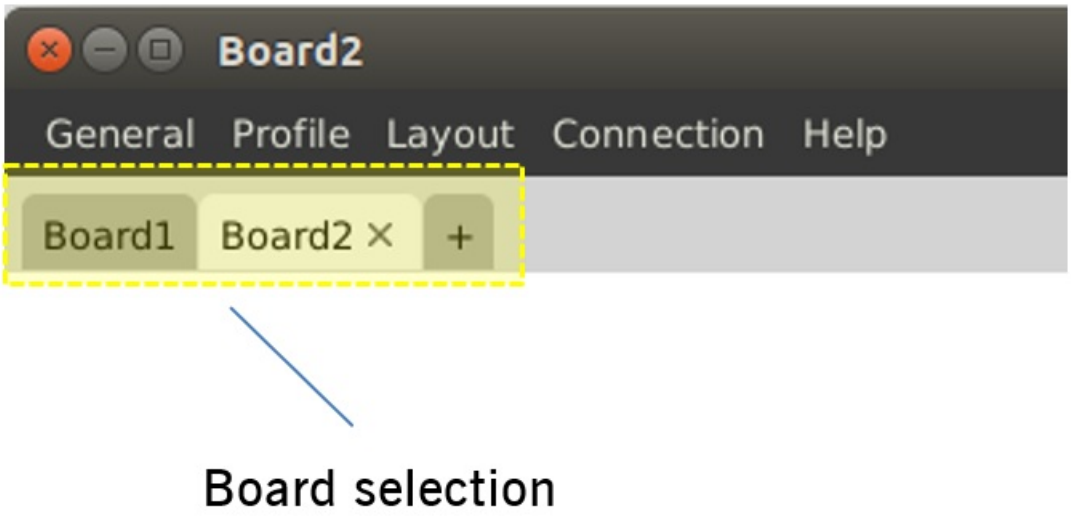
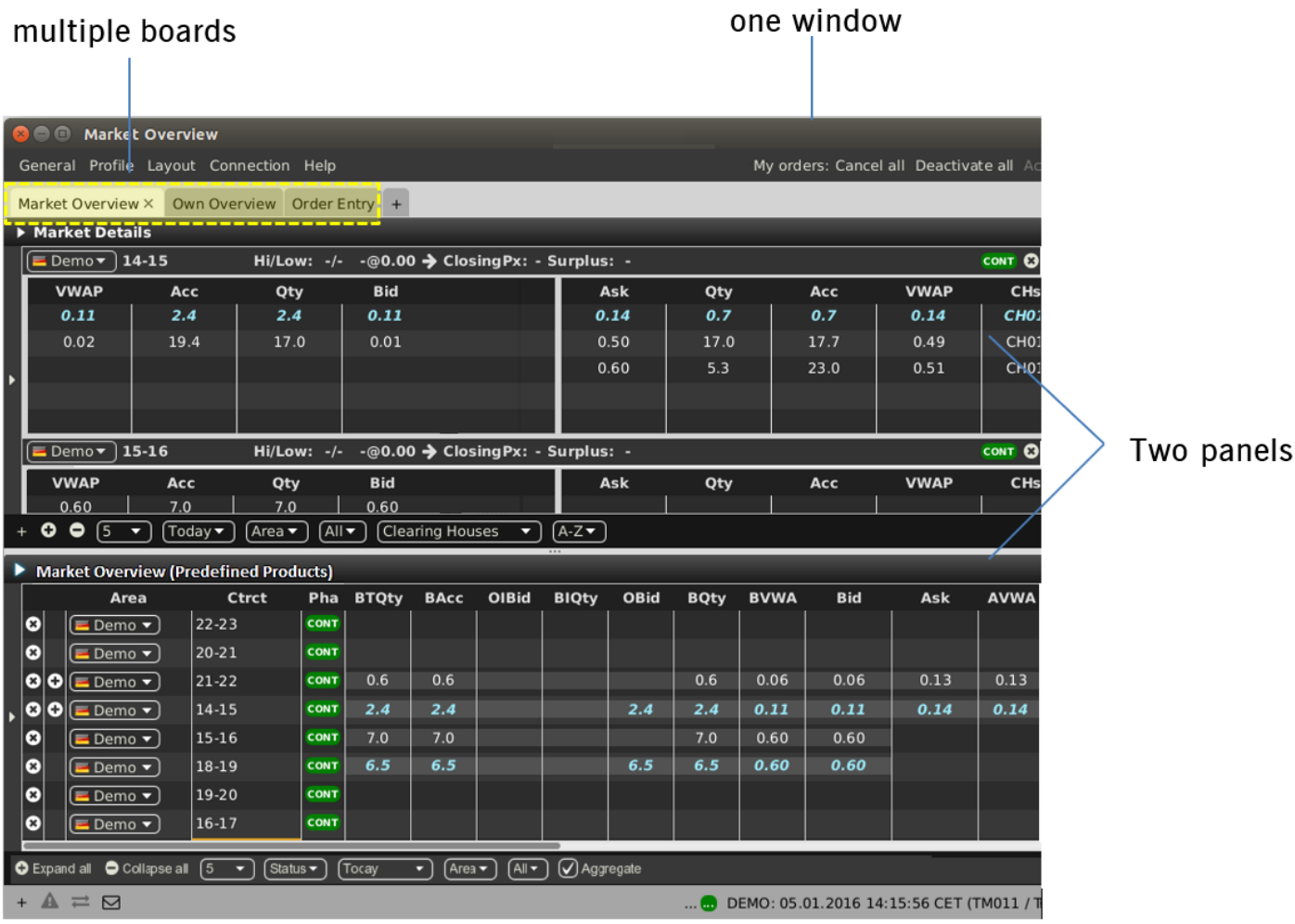
as the *login window* contains fixed information as well as fields that cannot be customised.

A user can switch between multiple *boards* in the same *window* by clicking on the tab with the *board's* name.



Each trading *board* can contain a different combination of *panels*, each with different a configuration.



Panels contain the basic features to view market data and to perform trading actions. Multiple *panels* can be added to each

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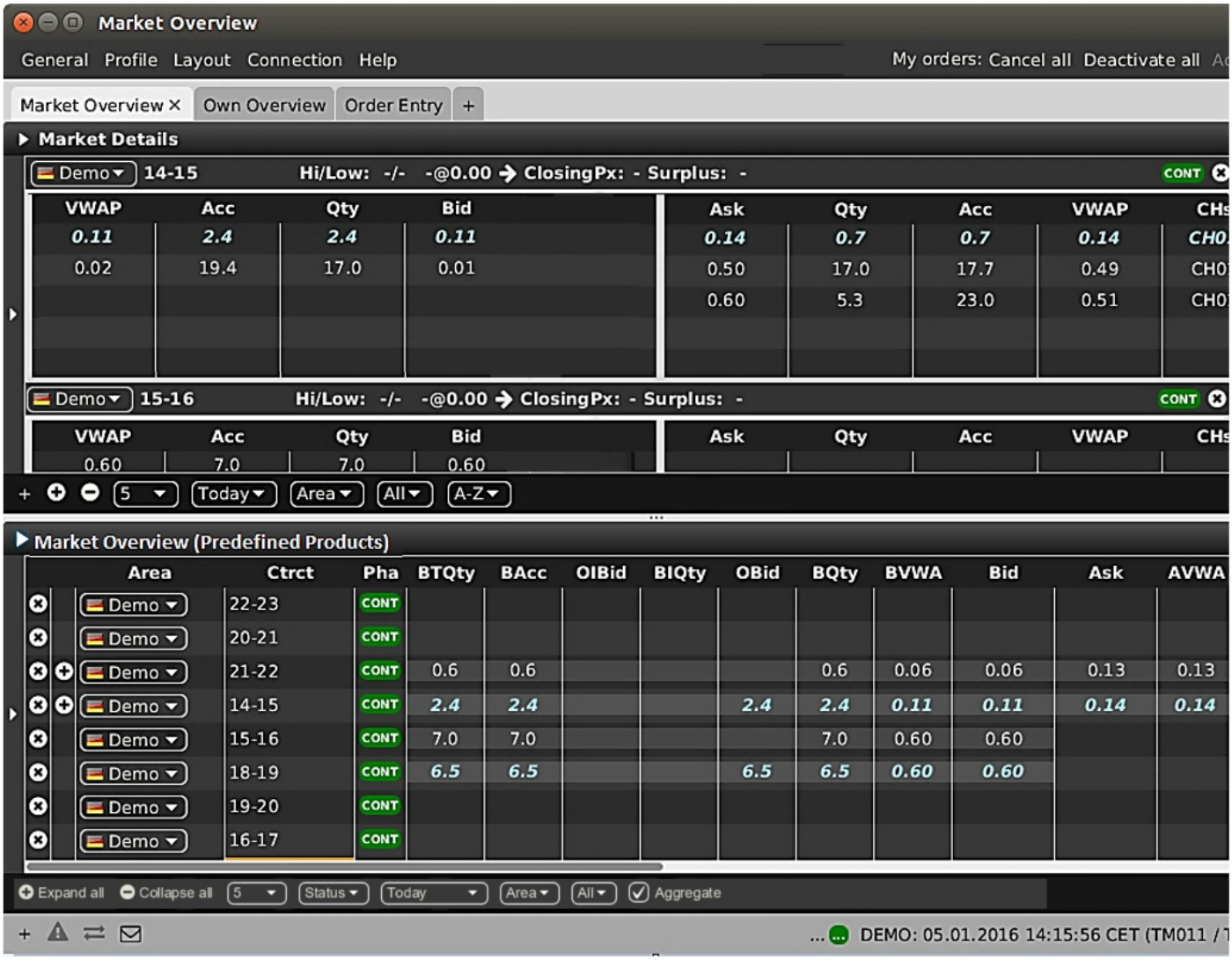
trading *board* and each *panel* can be configured in an individual way.

In the example *window* below, two *Market Overview (Predefined products)* panels have been added to a trading *board* labelled “Market Overview”.



The *window* also contains a second trading *board* labelled “Order Overview”, which is not active at the moment.

3.3 Login Window

3.3.1 General

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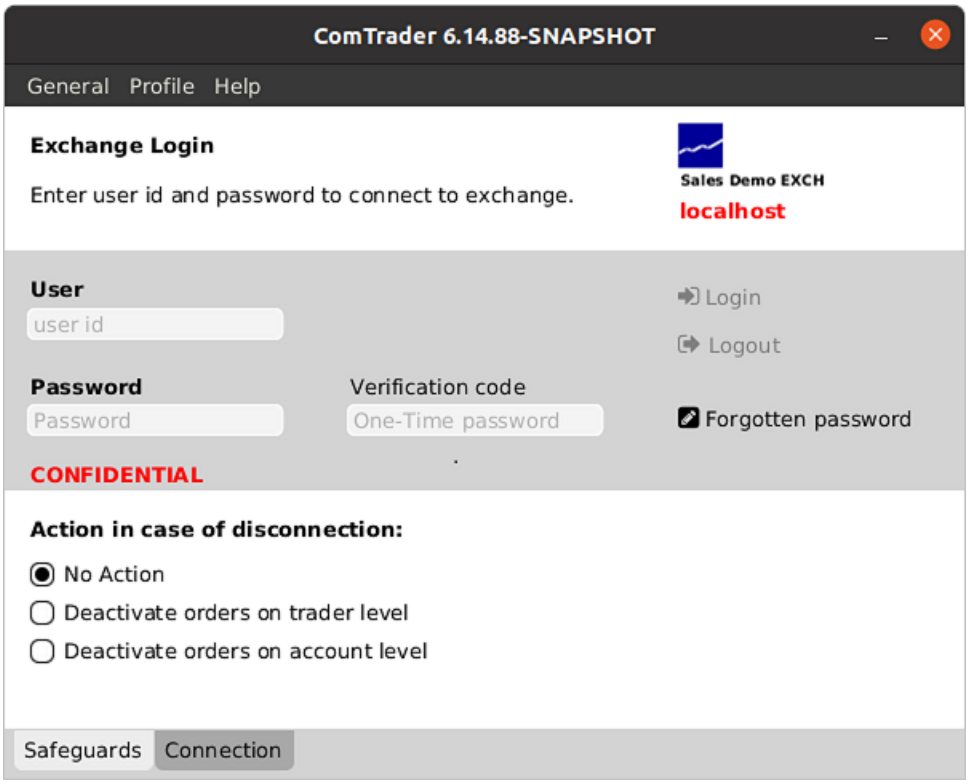

The login window contains two separate tabs: *Safeguards* and *Connection*.

3.3.2 Safeguards

This list contains the fields for the login credentials, password change functionality and disconnection actions.

Feature	Description
Login / Logout	After entering the Login Id, password and OTP, a user can click on “Login” to connect to the trading service. Once connected, a user can logout by clicking the “Logout” button. **Note:** The change of some settings is only possible if ComTrader is not logged into any exchange. A “Login ID” will be suspended if a wrong password was entered 5 times.
Verification code	The user needs to generate and enter a one-time password (the time-based verification code), using his personal TOTP Key.

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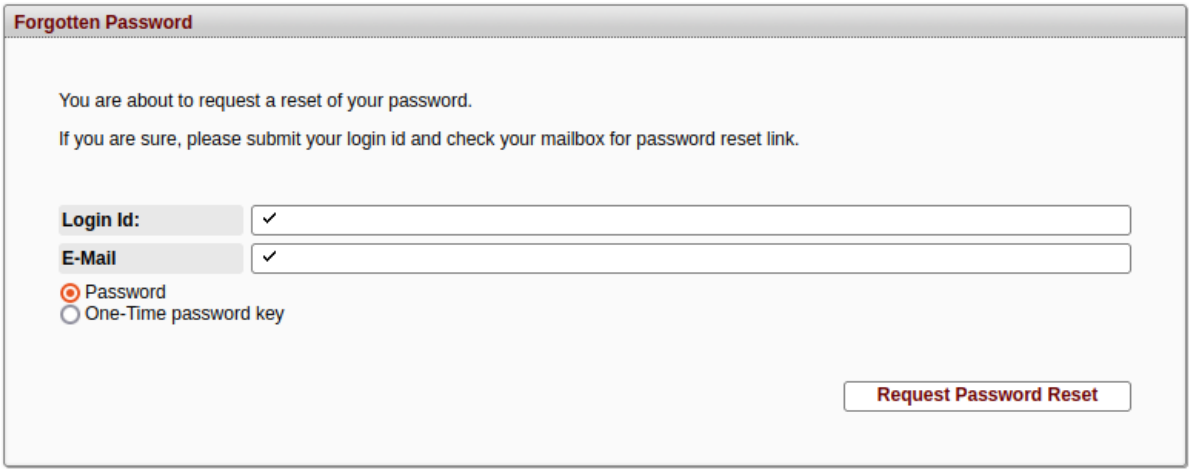
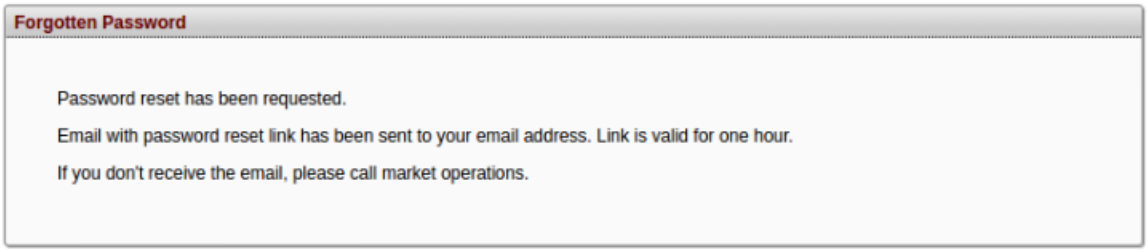
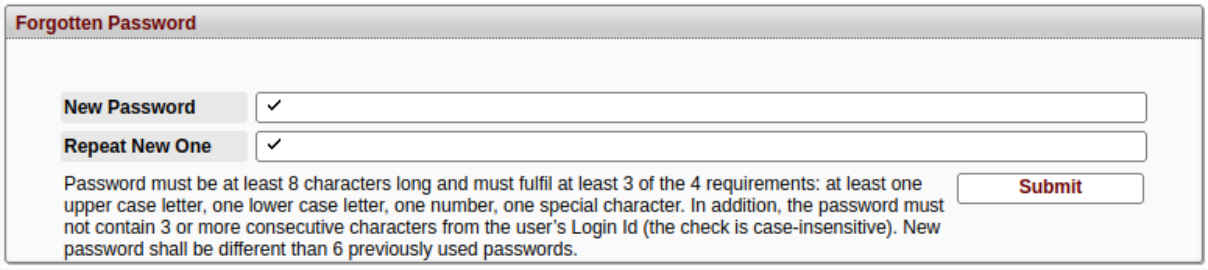
Feature	Description
Request password / OTP key change	The following Forgotten password website, from which the user can request the password reset, is opened upon clicking the Forgotten password button in the *ComTrader Log in* window. The user is then re-directed to a website where the user shall enter Login Id, Email, and select one of the following: Password or One-Time password key in order to request password reset. Password is selected by default. M7 validates that the provided email address corresponds to the Login Id.  **Password reset** Upon clicking the Request Password Reset button, an email with a password or OTP key reset link is sent to the e-mail address of the respective user. The link is valid for one hour. 
Change forgotten password	By clicking on the received URL link, a website is opened from which the user may enter the new password into the New Password and Repeat New One fields. The changes can be confirmed by pressing the Submit button. Please note that the new password must comply with the password policy in place (see Trading Window Profile Menu).  After a successful password reset, the user is prompted to re-login with the new credentials. After a successful re-login, the Forgotten password button changes to a Change password button (For more details please refer to the chapter Trading Window Profile Menu).

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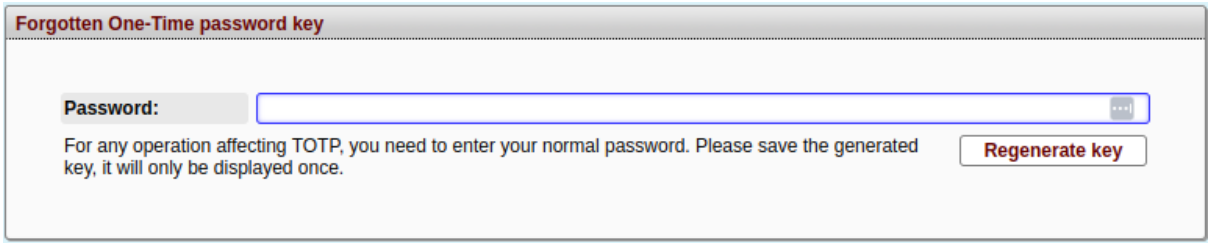
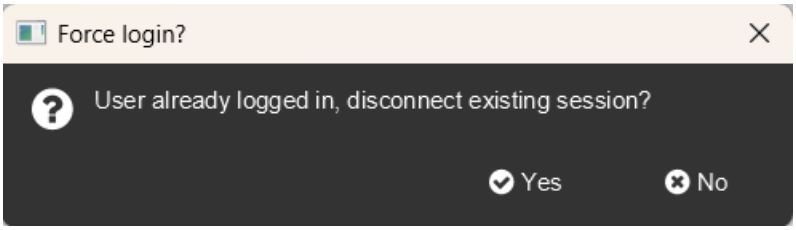
Feature	Description
Regenerate forgotten OTP key	By clicking on the received URL link, a website is opened from which the user can generate the new OTP key. For regeneration of the key the user must enter the normal password first.  If user regenerates key, the application displays the OTP key and its respective QR code which will be used for generation of the one time passwords (see Time-based One Time Password (TOTP)).
Action in case of disconnection	The following actions determine the steps that are performed if the front-end loses connection to the trading system without having performed a proper logout via the logout functionality. **No Action** -No action will be performed. **Deactivate orders on a trader level** - All orders entered (owned) by the user will be deactivated. **Deactivate orders on an account level** -All orders entered (owned) by users of the same account (balancing group) will be deactivated. The actions in case of disconnection take place approximately 80 - 100 seconds after the connection loss. ComTrader applies 60 seconds timeout and then M7 schedules the logout actions after another cca 20 - 40 seconds.

3.3.3 Session Handling and Forced Login Behavior

When a user logs in, ComTrader checks whether there is an existing active session for the same user.

If an active session is detected, the system displays a dialog informing the user that they are already logged in elsewhere. The user is given the option to disconnect the existing session:



Forced Login Process

If the user chooses to disconnect the previous session:

1. ComTrader sends a forced login request to the M7 Trading system.
2. The M7 Trading system responds by publishing a LogoutRprt message with the attribute forced = True to the broadcast queue of the currently active session.
3. In a normal scenario (e.g., when the existing session is another ComTrader instance or the M7 WebGUI):

- The active application processes the LogoutRprt message.
- The session is terminated gracefully.

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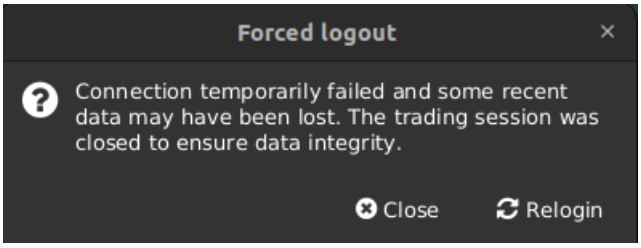
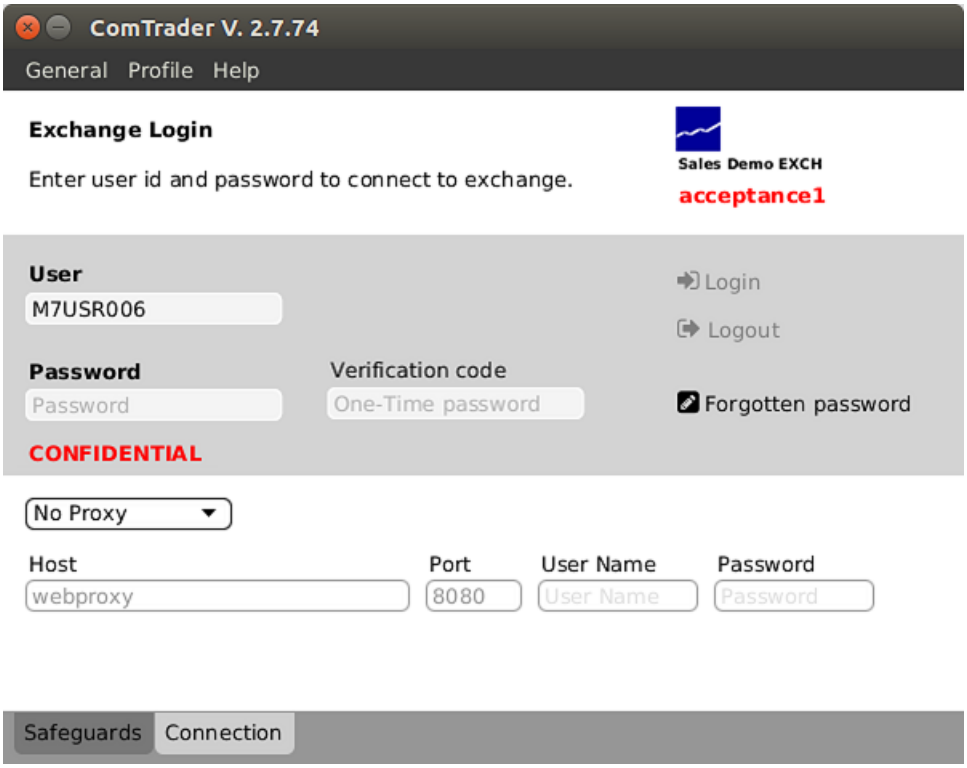
- The new login proceeds successfully.

Failure Scenario If the application holding the active session does not properly handle the LogoutRprt message (for example, a third-party application that ignores it):

- The application may fail to release its exclusive consumer on the broadcast queue.
- As a result, ComTrader cannot establish a new connection.
- An error message is displayed to inform the user that the login attempt has failed:



3.3.4 Connection



In this tab, a proxy server can be defined for the connection of ComTrader to the trading service.

If there are access restrictions on the network that mean no direct connection to the system (AMQP broker or profile server) is possible, the network must be configured to allow access via a proxy server.

Please consult with your network administrator for the necessary configuration details.

3.3.5 Login Window Menus

3.3.5.1 Login Window General Menu

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The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Logfiles	Opens the file location of the ComTrader log files.	
Settings	Opens the Settings panel (see *Settings*).	
Exit	Exits the current window/prompts to exit the application.	Alt+F4

3.3.5.2 Login Window Profile Menu

The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Load Default Profile	Loads the default profile.	
Load Last Saved Profile	Loads the last profile saved by the current user.	

3.3.5.3 Login Window Help Menu

The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Manual	Opens the Documentation page on the Customer Portal with ComTrader manual.	F1
About	Opens a window containing the current version of the front-end, java version, operating system details and the back-end version that ComTrader is connected to.	

3.4 Trading Windows

3.4.1 General Description

In addition to the login window, one or more trading windows can be opened. Each trading window can contain boards and panels which contain actual trading information and features.

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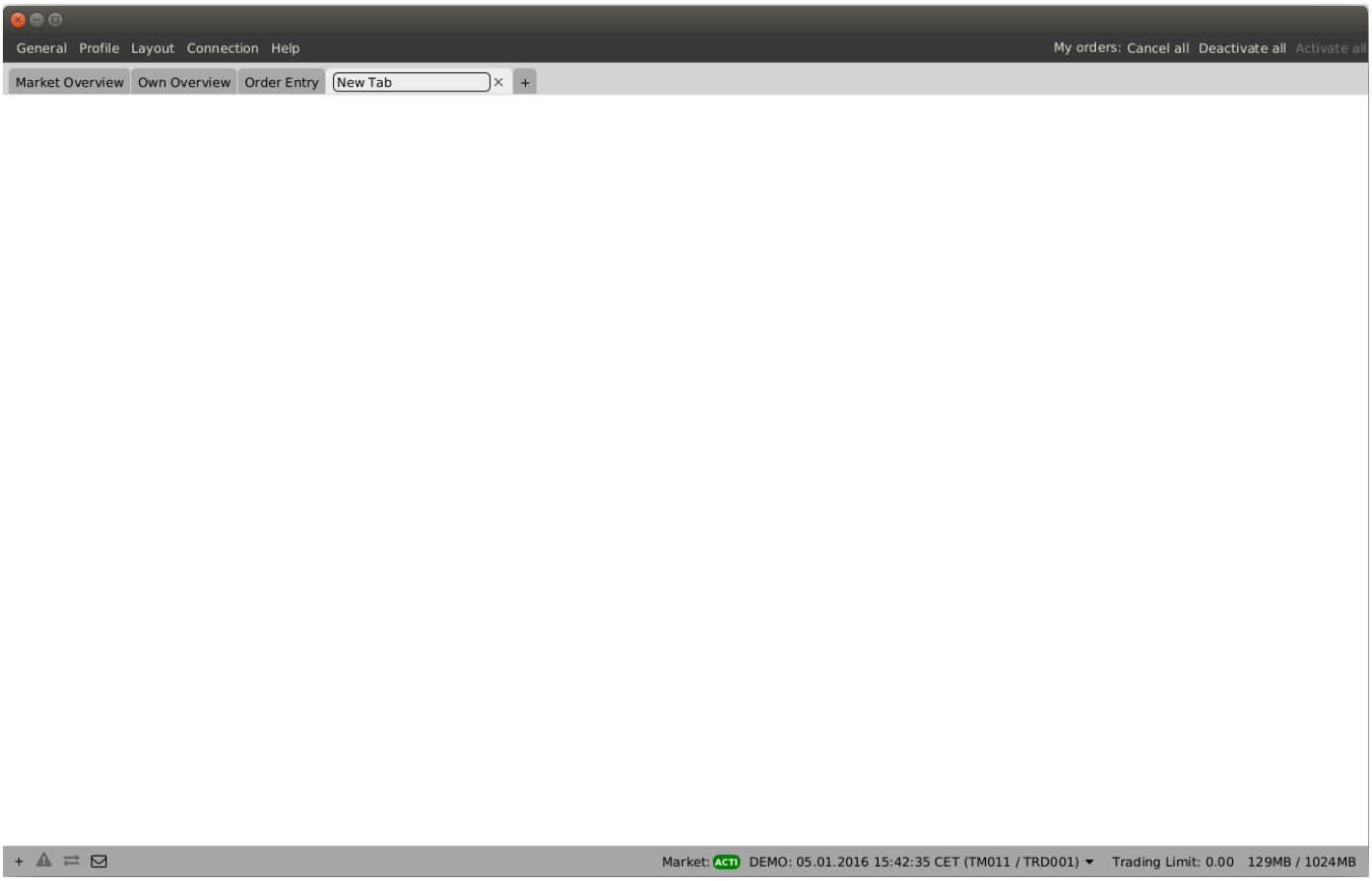
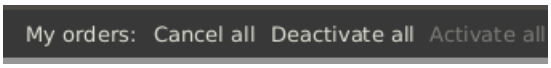


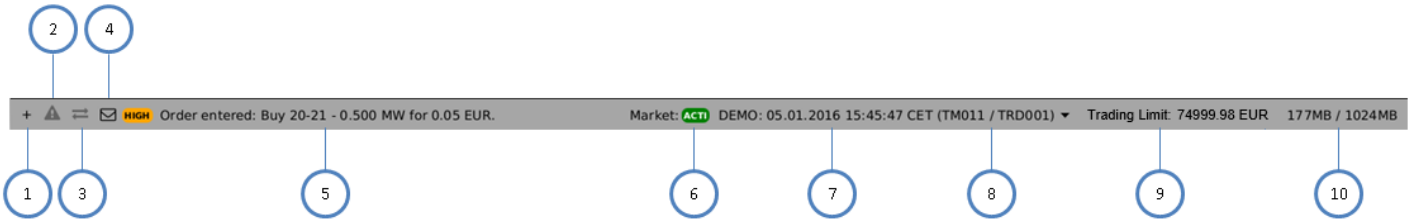
Windows can be resized by clicking and dragging the window borders.

The top right corner of each trading window always contains a quick action bar with some basic order action features:



Item	Description
Cancel all	Deletes all orders present in the market, owned by the logged in user.
Deactivate all	Deactivates all active orders owned by the logged in user.
Activate all	Activates all deactivated orders owned by the logged in user.

The bottom bar of each window contains the following items:



#	Item	Description

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#	Item	Description
1	Customise bottom bar	Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customise Bottom Bar*).
2	Error Orders Overview	Clicking on the exclamation mark in triangle warning notification opens the Error Orders Overview panel, which contains all orders with an ERR state. For more details please refer to *Error Orders Overview panel*.
3	Transmission Orders Overview	Clicking on the Transmission mark opens the Transmission Orders Overview list, which contains all orders with SENT and MODI states. For more details please refer to *Transmission Order Overview panel*.
4	Message button	Clicking the button will open a short list of the last received messages.
5	Last message	The last received system message.
6	Exchange Status	Contains the status, name, system date/time and used user credentials for the selected exchange.
7	Date, Time	Current date and system time of the connected exchange
8	Member ID	Member ID / User Code of the logged in user
9	Trading Limit	Current cash limit of the logged in user with the corresponding currency.
10	Memory	The currently used memory / total available memory.

3.4.2 Error Orders Overview panel

The Error Orders Overview panel is opened by clicking the red blinking exclamation triangle mark in the Trading window bottom bar. This panel contains all orders in an ERR state.

The Error Orders Overview panel contains the following columns:

Column Title	Name	Description
UsrCode	User Code	User code of the user performing the last successful action on an order. The bold text in the column User is used whenever a displayed user is the same as the logged in user. Note that when trading on behalf, the bold text is applied to the on-behalf user (i.e. if user1 acts on behalf of user2, then the bold text is applied for the user2).
Area	Area	Area for which the order has been entered,

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Column Title	Name	Description
B/S	Buy/Sell	The order side. The background colour of the Order Side column is the same as the background colour of the Order Entry panel as described in *Order Entry Advanced Horizontal*, i.e. red for the sell side, and blue for the buy side. In addition, the sell side has a red arrow pointing downwards towards the right is positioned to the left of the "S". In the case of the buy side, there is a green arrow pointing upwards towards the right is positioned on the right hand side of the displayed "B". **Valid values:** B - buy S - sell
Ctrct	Contract	Traded contract.
TmZn	Time Zone	Time zone identifier of the time zone that the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
IQty	Initial Quantity	Initial quantity of an iceberg order.
Qty	Quantity	Order quantity.
PQty	Peak Quantity	Peak quantity of an iceberg order
PPD	Peak Price Delta	Peak price delta of an iceberg order.
SQty	Shown Quantity	Shown quantity of an iceberg order.
SPrc	Stop Price	Stop price limit of the stop order
Prc	Price	Limit price of the order.
Accnt	Account	Account type of the order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).
State	Status	Status of the order. Only orders in an ERR state are listed (a red cross-symbol is shown). More information about the error reason can be displayed in the order's tooltip.
ExeRes	Execution Restriction	Execution restriction of the order. **Valid values:** NON - None IOC - Immediate or cancel FOK - Fill or kill
ValRes	Validity Restriction	Validity restriction of the order. **Valid values:** GFS - good for session GTD - good till date
ValDate	Validity Date	Validity date of the order.
OrdrID	Order ID	Order id of the order.
Txt	Text	Optional order text field.

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It is possible to use actions via the context menu as described in *Own Order* panel .

3.4.3 Transmission Orders Overview panel

The Transmission Orders Overview panel is opened by clicking the yellow glowing transmission mark in the Trading window bottom bar. This panel contains all orders that are in the SENT and MODI states[1].

The Transmission Orders Overview panel contains the following columns:

Column Title	Name	Description
UsrCode	User Code	User code of the user performing the last successful action on an order. The bold text in the column User is used whenever a displayed user is the same as the logged in user. Note that when trading on behalf, the bold text is applied to the on-behalf user (i.e. if user1 acts on behalf of user2, then the bold text is applied for the user2).
Area	Area	Area for which the order has been entered,
B/S	Buy/Sell	The order side. The background colour of the Order Side column is the same as the background colour of the Order Entry panel as described *Order Entry Advanced Horizontal*, i.e. red for sell, and blue for the buy side In addition, the sell side has a red arrow pointing downwards towards the right is positioned to the left of the "S". In the case of the buy side, there is a green arrow pointing upwards towards the right is positioned on the right hand side of the displayed "B". **Valid values:** B - buy S - sell
Ctrct	Contract	Traded contract.

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Column Title	Name	Description
TmZn	Time Zone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time Europe/London – Greenwich Mean Time (British Summer Time)
IQty	Initial Quantity	Initial quantity of an iceberg order.
Qty	Quantity	Order quantity.
PQty	Peak Quantity	Peak quantity of an iceberg order
PPD	Peak Price Delta	Peak price delta of an iceberg order.
SQty	Shown Quantity	Shown quantity of an iceberg order.
SPrc	Stop Price	Stop price limit of the stop order
Prc	Price	Limit price of the order.
Accnt	Account	Account type of the order. Account type values of the order are exchange specific (for more details please refer to DFS180 Public Message Interface).
State	Status	Status of the order. Only orders in the SENT or MODI states are listed (yellow gear wheels symbol is shown). More information about order processing status can be also displayed in order's tooltip.
ExeRes	Execution Restriction	Execution restriction of the order. **Valid values:** NON - None IOC - Immediate or cancel FOK - Fill or kill
ValRes	Validity Restriction	Validity restriction of the order. **Valid values:** GFS - good for session GTD - good till date
ValDate	Validity Date	Validity date of the order.
OrdrID	Order ID	Order id of the order.
Txt	Text	Optional order text field.

It is possible to use actions via context menu as described in *Own Order* panel and *OTC panel.*

3.4.4 Trading Window Menus

The M7 ComTrader windows include the *General, Profile, Layout, Connection* and *Help* menus.

3.4.4.1 Trading Window General Menu

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The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
New Trading Window	Opens a new trading board.	Alt+N
Logfiles	Opens the file location of the ComTrader log files.	
Settings	Opens the Settings panel (*Settings*).	
Exit	Exit the current window/promts to exit the application.	Alt+F4

3.4.4.2 Trading Window Profile Menu

The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Save Profile	Saves the current profile (see *Server Stored Profiles*).	Ctrl+S
Load Default Profile	Loads the default profile.	
Load Last Saved Profile	Loads the last profile saved by the current user.	
Import Profile	Imports a GUI profile file.	
Export Profile	Exports the current GUI profile into a file.	

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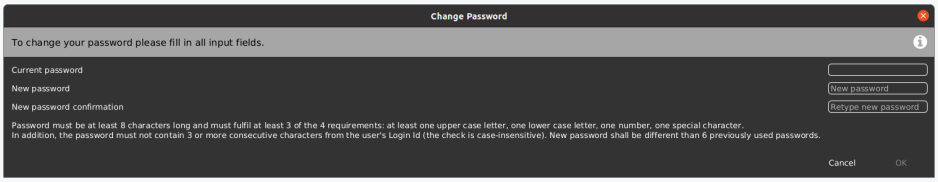
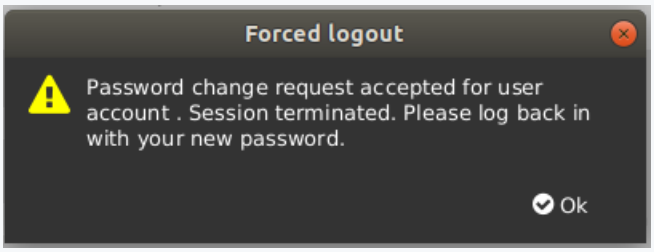
Menu Item	Description	Keyboard Shortcut
Change Password	Opens a dialogue window where the password of the currently logged in user can be changed:  The user submits the current password into the “Current password” field, and a new password into the “New password” and “New password confirmation” fields (identical for both fields). New password shall be different than 6 previously used passwords (this is configured in LDAP settings). In addition, the password must not contain 3 or more consecutive characters from the user’s LoginId (the check is case-insensitive). Passwords shall be at least 8 characters long and shall fulfil 3 of the 4 requirements: 1. at least one upper case letter 2. at least one lower case letter 3. at least one number 4. at least one special character - valid special characters are: !@#$%^&*_-+=`(){}:;'"<>,.?/ Passwords can expire after a certain length of time according to LDAP settings. If an expiration time[2] is configured in LDAP, M7: 1. sends a reminder to e-mail address set in user’s profile X[3] days before the password expiry, informing the user about the expiration date, 2. sends a notification on the day of password expiry, containing a link to password reset page. The user is logged out and asked to log in with the new password:  The user logs in to the system using the new password.	

3.4.4.3 Trading Window Layout Menu

The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Design Mode	Opens the design mode of ComTrader (see *Trading Panels*) to add, modify or remove trading panels.	Alt + C
Hide/Show Tabs	Toggles the selection tabs of all trading boards on/off.	ALT + T
Hide/Show Instrument Navigators	Toggles the instrument navigators of all panels on/off.	Alt + P

3.4.4.4 Trading Window Connection Menu

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The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Open Login Window	Opens the login window.	
Logout from Exchange	Selecting an exchange from the menu will disconnect the user from it.	

3.4.4.5 Trading Window Help Menu

The menu contains the following items:

Menu Item	Description	Keyboard Shortcut
Manual	Opens the Documentation page on the Customer Portal with ComTrader manual.	F1
About	Opens a window containing the current version of the front-end, java version, operating system details and of the back-end.	

3.4.5 Creating a new Trading Window

A new trading window can be created by either:

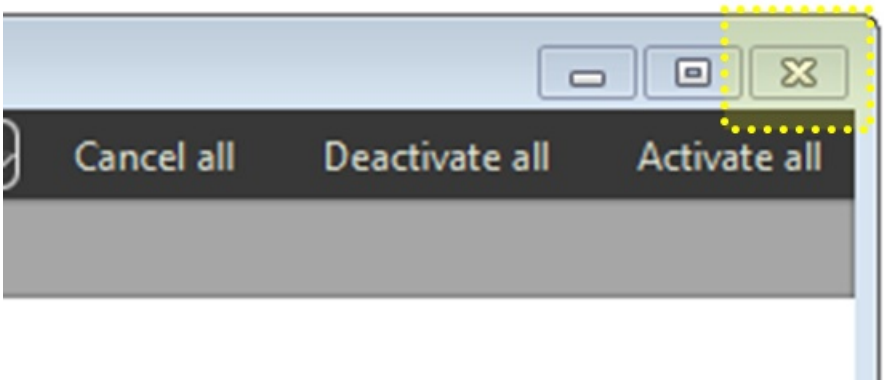
- Selecting the option “New Trading Window” from the "General" menu of a trading window.
- Dragging and dropping a trading board outside of a currently existing trading window (by dragging the board selection tab, see *Trading Boards*). This will create a new trading window with only the moved trading board.
- Selecting the option “Open in new window” from the context menu (opened by right clicking on a trading board tab) of a trading board tab selector (see *Modifying a Trading Board*).

3.4.6 Modifying a Trading Window

Trading windows can be resized and moved to new positions on the screen. The size and position of all trading windows are stored in the profile when saving the current profile.

3.4.7 Removing a Trading Window

Trading windows can be removed by clicking on the “X” symbol in the upper right corner of a window.



When merging the last trading board from a trading window (which only contains one trading board) to another trading window,

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the originator window is removed as well.

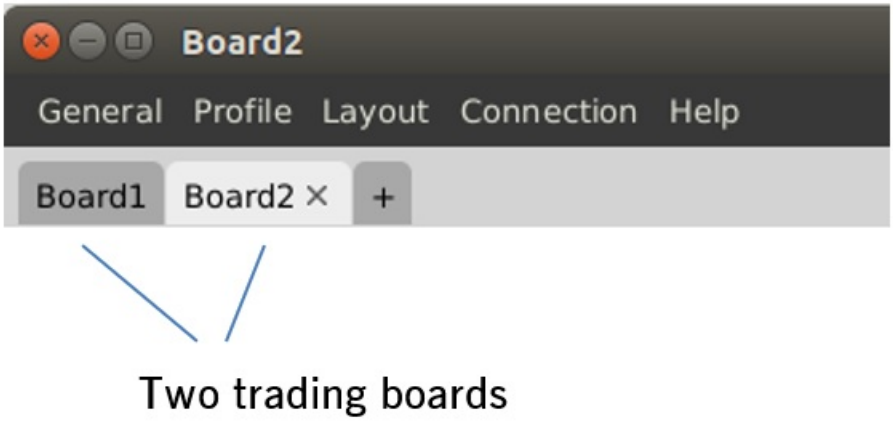
3.5 Trading Boards

3.5.1 General Description

Trading boards are the structural components that link trading panels to windows. A window can contain multiple trading boards with different panel configurations.

Each trading board contains a ***tab*** symbol with its name in the trading board selection area of a trading window.

Each trading window can also contain more than one trading board:



3.5.2 Creating a new Trading Board

When opening a new trading window, it only contains one empty trading board.

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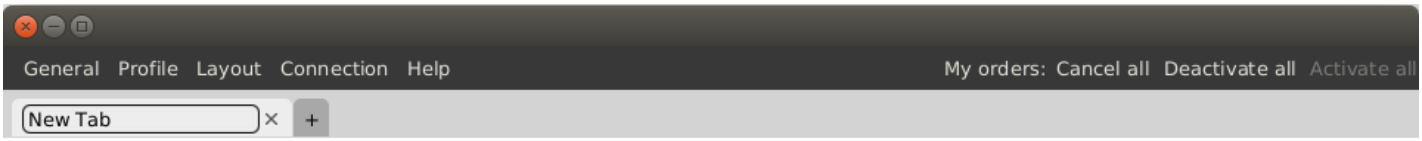
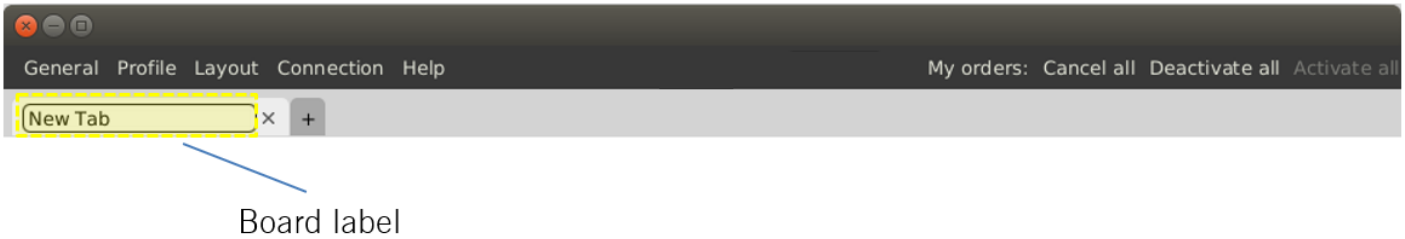
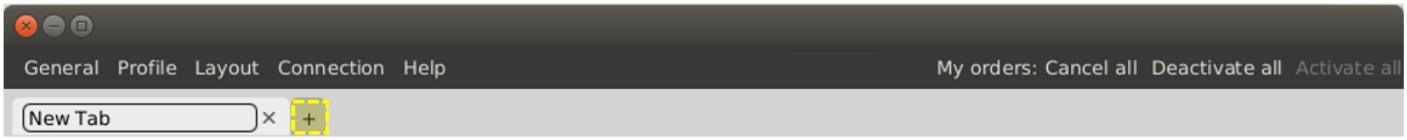


The name of the trading board can be defined in the board label in the upper left corner of the window:

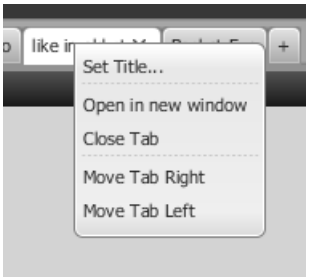


A new board can be added by clicking on the little plus symbol on the right hand side of the trading board label:



3.5.3 Modifying a Trading Board

Existing boards can be modified by right clicking on the board title in the panel selection:



Item	Description
Set Title	Allows the renaming of the trading board title.
Open in new window	Opens the current trading board in a new trading window.
Close Tab	Closes the trading board.
Move Tab Right	Moves the trading board tab to the right.
Move Tab Left	Moves the trading board tab to the left.

A trading board tab can also be dragged & dropped outside of the panel selection area in order to create a new window which only contains the moved tab.

A trading board can also be moved from one existing trading board to another by dragging the trading board tab and dropping it inside another existing trading window.

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3.6 Trading Panels

3.6.1 General Description

Trading panels contain data and features to participate in trading activities. They can be resized by dragging and dropping the panel borders. One trading board (see *Trading Boards*) can contain multiple trading panels.

3.6.2 Adding Panels to Boards

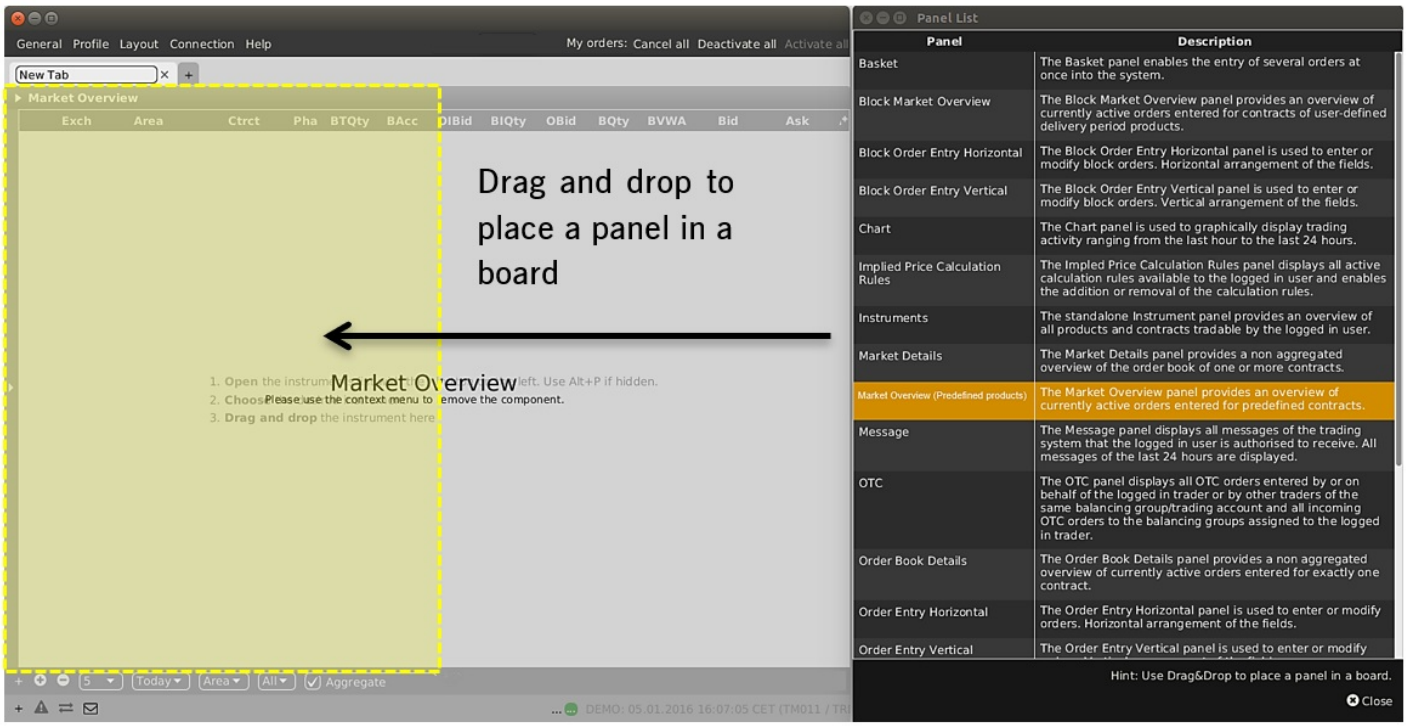
ComTrader can be switched into the *design mode*, by either pressing ALT+C whilst inside a trading board, or by selecting the option "Design Mode" from the "Layout" menu of a trading window.

In this mode, a panel list is displayed which contains all available trading panels with appropriate descriptions:

The list of available panels depends on the exchange that ComTrader is currently connected to. As there might be specialised panels which are only available for some exchanges, the available panels per exchange are arranged in different tabs.

The panel list can be closed by clicking on the “Close” button, which will also terminate the design mode.

Panel titles in the list can be dragged and dropped from the panel list into an existing board where a placement location is highlighted until the mouse button is released:



When adding a new panel in an empty board, it will always be set to the maximum size inside the current board.

If a panel is added to a board which already contains one or more panels, the placement location of the new panel depends on its relative location inside the existing panel:

- If the new panel is positioned in the approximate centre of an existing panel, the new panel will replace the existing panel.
- If the new panel is positioned in the upper, lower, left or right area of an existing panel, the new panel will be added to the

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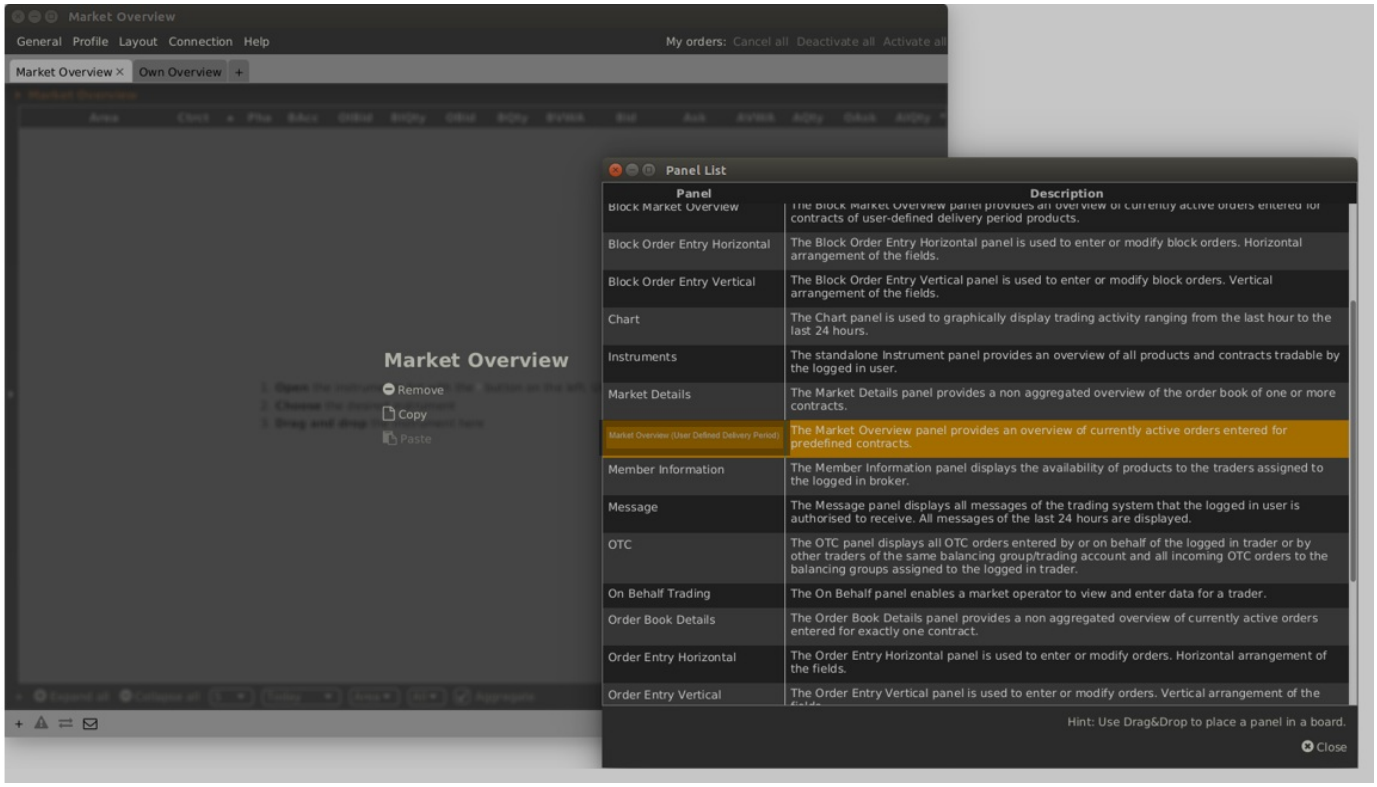
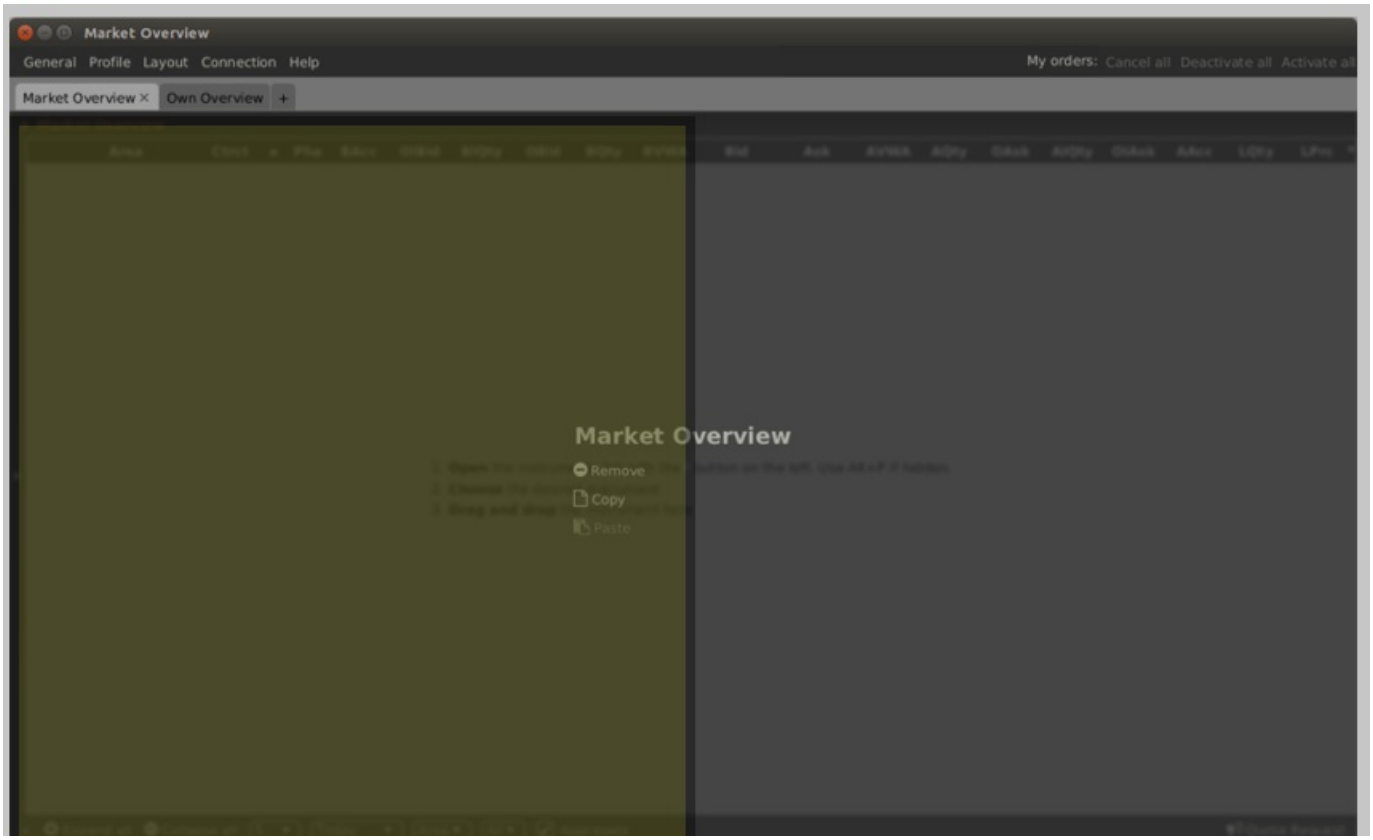
trading board in the corresponding location.

Example

An Own Orders panel is dragged from the panel list and dropped on the left side of an existing Market Overview (Predefined products) panel:





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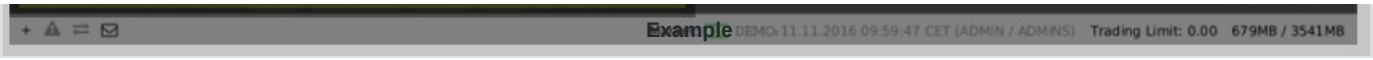
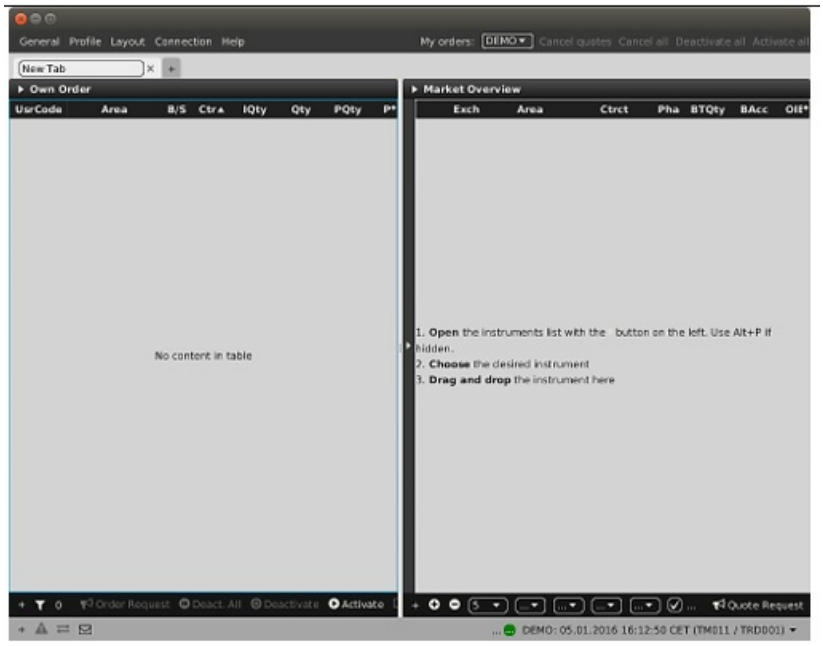


After the mouse button is released, the Own Orders panel is positioned on the left side of the existing Market Overview (Predefined products) panel:



3.6.3 Modifying the Panel Layout

Whilst in the design mode, the arrangement of all panels can be modified by dragging and dropping the already existing panels inside the trading board.

3.6.4 Removing and copying Panels from a Board

A panel can be removed by entering the design mode (ALT+C) and selecting the option “Remove”. A panel can be copied and pasted using the “Copy” and “Paste” options.

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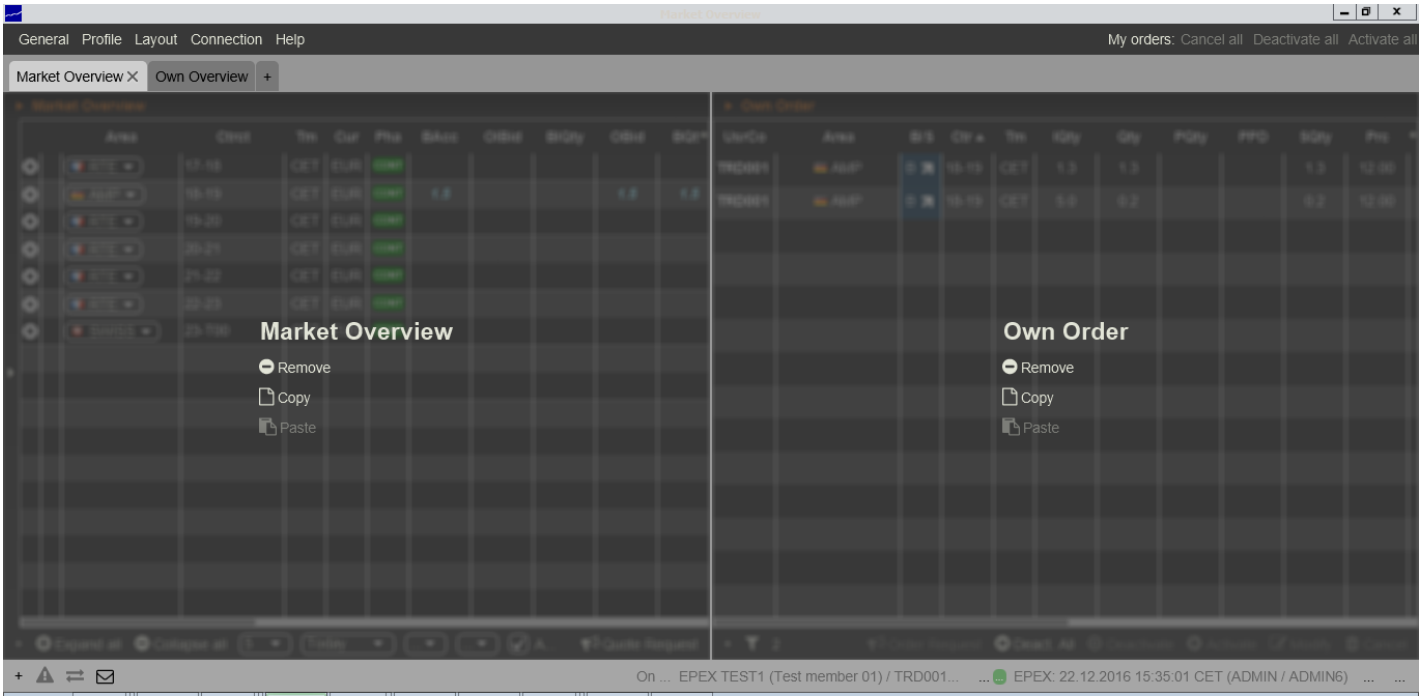

3.7 Server Stored Profiles

The custom configuration of each ComTrader session is stored in a profile which depends on the user that is currently logged in. The profile is stored on the server. This means that the previously saved configuration is available to the user when they log in with the same User ID from a different computer.

The values stored in the GUI profile include:

- open trading windows, including their size and position,
- trading boards per trading window,
- trading panels on all boards, including their size, position, sorting, product configuration, custom colours and filter configuration,
- selected products (not contracts) in the built-in instrument navigator,
- all settings from the settings menu (see Settings).

3.8 Time-based One Time Password (TOTP)

ComTrader implements an industry standard form of 2FA. For logging in, the User is configured with a static password complemented by a Time-based one-time password (TOTP) generated by an Authenticator with each login based on a known algorithm. The User is allowed to log in to the ComTrader only if both passwords provided on login - the static password and the TOTP in the “Verification code” field - are correct (see Login Window).

Change TOTP key can be done via TOTP Password

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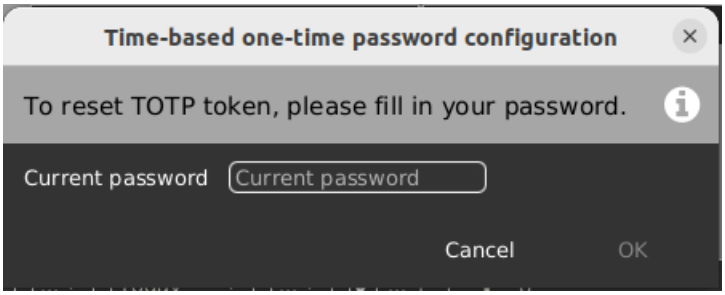
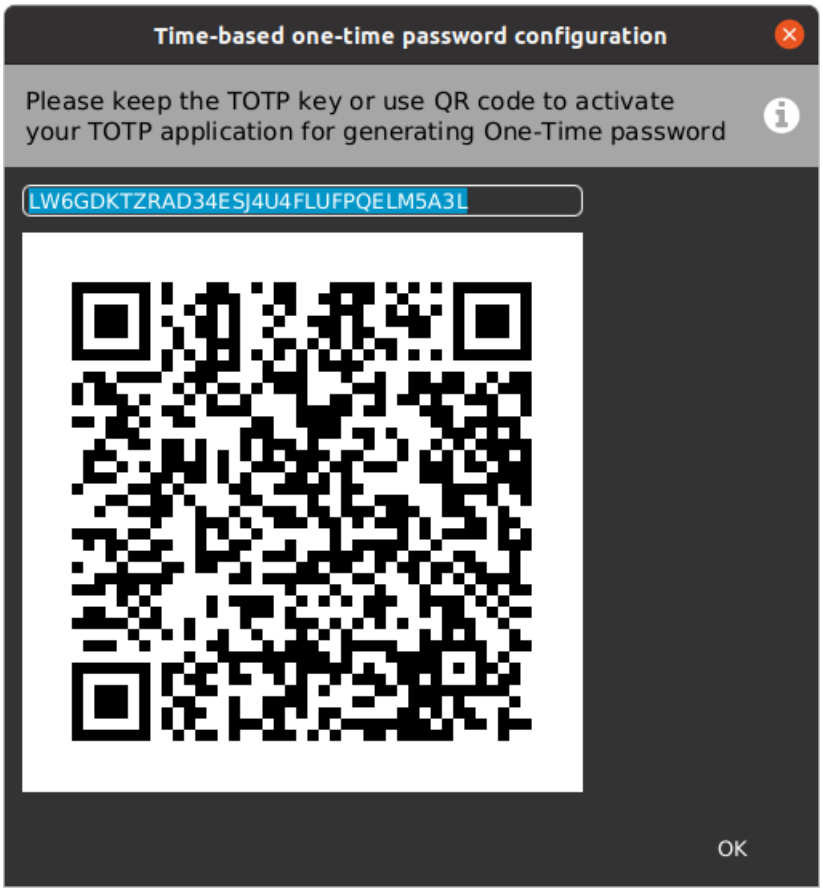


The user submits the current password into the “Current password” and the application displays the TOTP key and its respective QR code which will be used for the generation of one time passwords:



The one time passwords can be generated with an Authenticator. For this purpose, the displayed QR code needs to be scanned by the User’s Authenticator, or a new token needs to be created there manually, using the generated TOTP key.

The token will be used for all future logins to M7 Trading.

For additional information about two factor authentication in M7 Trading, refer to **MFG130 - Admin Manual for Market Operations WebGUI**.

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4 Common Panel Features

4.1 General

The features described in this chapter are implemented for more than one panel and are therefore described as *common* features, even though not all functionalities are available in each panel type.

Whenever a feature is implemented for a specific panel type, it is described in the corresponding sub-chapter in *Trading Panel Descriptions* of this document with a reference to the appropriate sub-section below.

4.2 Ownership based Order Display

In some panels, the font of the order data displayed in the main table is dependent on the order owner. The following three types of orders can be formatted differently:

- orders submitted by the logged-in user (my orders)
- orders submitted by other users but the same balancing group as the logged-in user (colleague orders)
- orders submitted by other users and members than the logged-in user (orders by others)

Example

Area	Ctrct	Pha	BTQty	BAcc	OIBid	OBid	BQty	BVWA	Bid
Demo	22-23	CONT							
Demo	20-21	CONT	***1.2***	***1.2***		***1.2***	***1.2***	***0.30***	***0.30***
Demo	21-22	CONT	0.6	0.6			0.6	0.06	0.06
Demo	18-19	CONT	***1.4***	***1.4***		***1.4***	***1.4***	***0.14***	***0.14***
Demo	19-20	CONT							

In the image above, the order for the contract "20-21" (bold, italic and light blue) was entered by the logged in ComTrader user, whilst the order entered for "18-19" (bold, italic and yellow) was entered by another user of the same balancing group and the order for contract "21-22" (white) was entered by a user belonging to a different member.

The colours are depending on the selected theme which can be configured in the "Settings" menu (see *Settings*).

4.3 Panel Export

In some panels, the panel content can be exported into a .csv file or the system clipboard. The order of the columns are exported as displayed in the panel.

The following rules apply during the translation to the csv format:

- String is embedded in quotes ("), to mark the start and end of the string.
- Every quote sign (") contained in the string is duplicated in the exported .csv file, not to disrupt the csv translating logic.
- Numeric values (positive or negative) are not embedded.
- A new line or a tabulator character is replaced with a space character.

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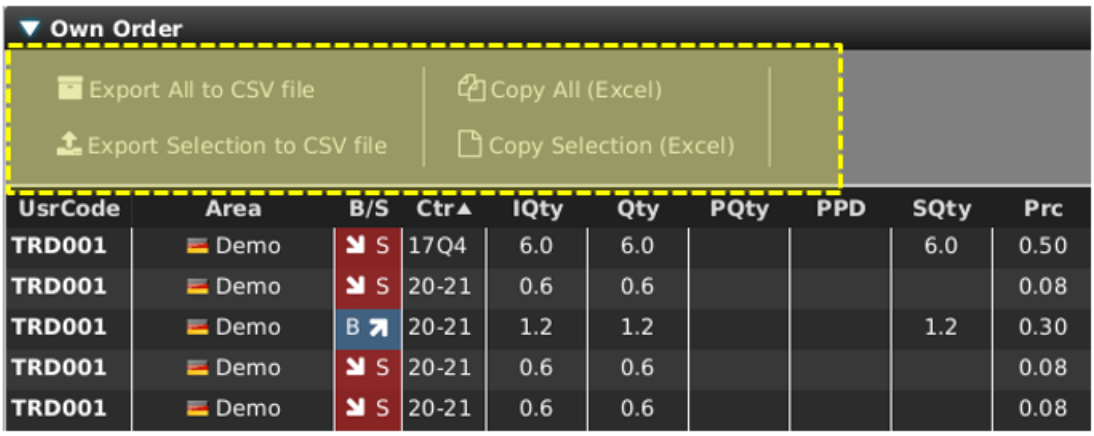
Please see examples in the table below.

The text field contains.	The csv file will contain.
abc	“abc”
“ab”"c	"""“ab”"""“c”
15.1	15.1
-15.1	-15.1
-15.1a	“-15.1a”
@15.1	“@15.1”

By clicking the title bar of the panel, the slide-in menu can be opened which contains the export features of the panel:



The following options are available:

Feature	Description	Keyboard Shortcut
Export All to CSV File	Exports the entire panel content into a .csv file.	
Export Selection to CSV File	Exports only selected rows into a .csv file. No rows are selected by default.	Ctrl + E
Copy All (Excel)	Copies the entire panel content into the system clipboard. The copied data can be pasted into other applications (like MS Excel).	Ctrl + Alt + C
Copy Selection (Excel)	Copies only selected rows into the system clipboard. The copied data can be pasted into other applications (like MS Excel).	Ctrl + C

The following picture describes the format of the exported CSV file.

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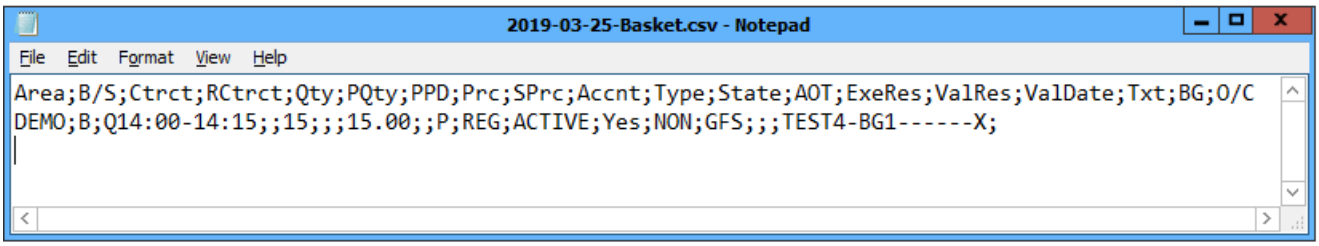
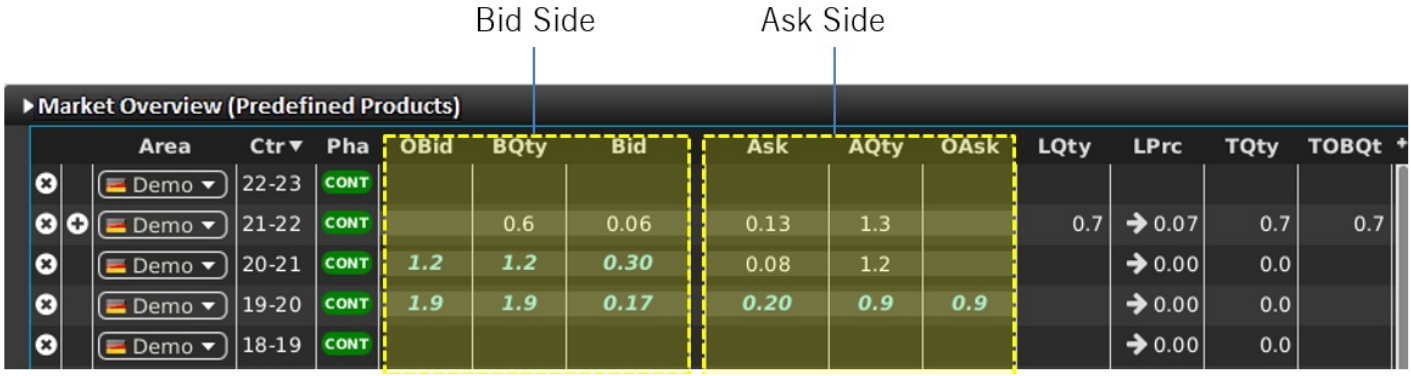


4.4 Display of Order Book Data

Whenever market data is displayed, the order data is displayed separately for the bid and ask side. The bid side contains information about the buy orders and the ask side about the sell orders.



Multiple orders for the same contract are ordered by their execution priority (price/time criteria), where the best price is defined as the best price for the opposite market side: the best buy order would be the one with the highest price, whilst the best sell order is the one with the lowest price.

Therefore, whenever multiple orders with different prices for the same side are displayed, buy orders are displayed by descending (decreasing) price, and sell orders by ascending (increasing) price.

If two orders were entered with the same price limit, the one that was entered earlier will have a higher priority.

4.5 Built-in Instrument Navigator

In some panels, contracts can be added and removed by using the built-in instrument navigator. This can be opened and closed by clicking on the vertical bar containing an arrow symbol on the left-hand side of the panel:

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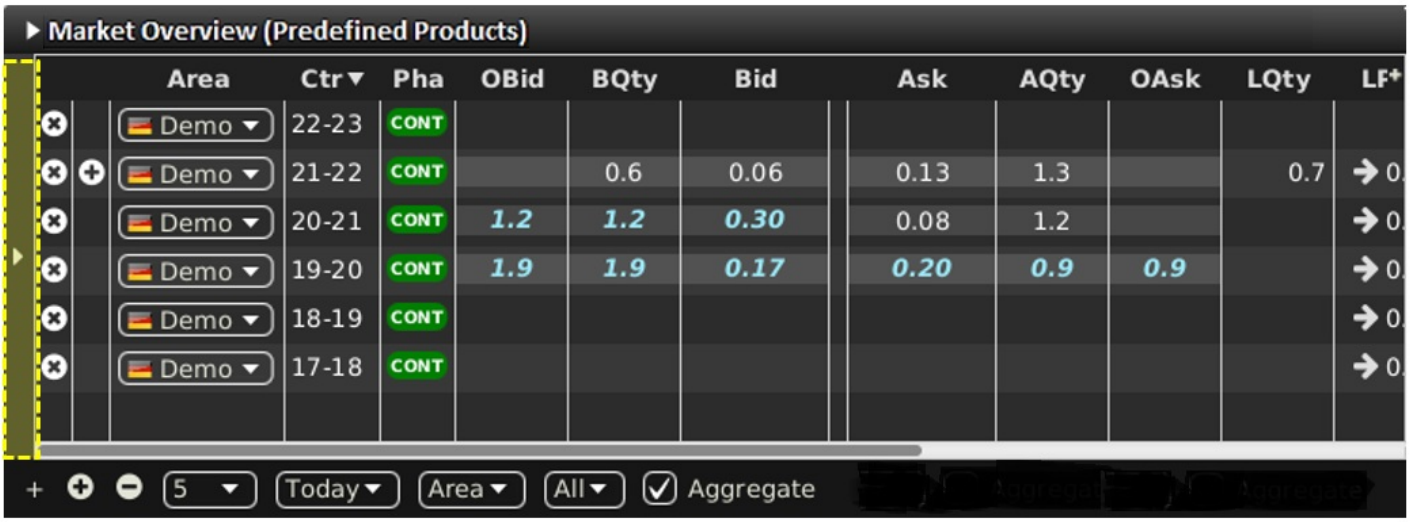
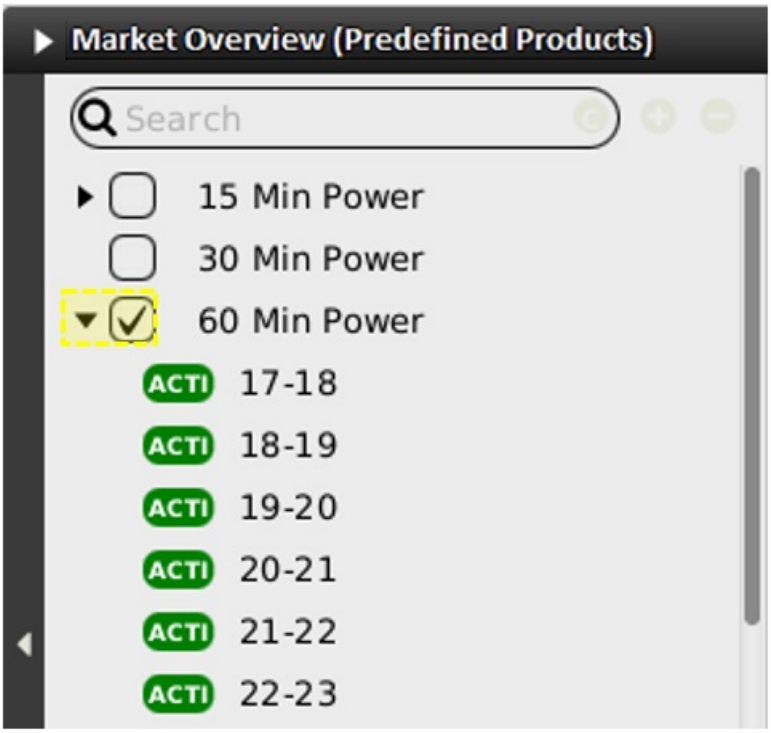


The built-in instrument navigator provides the same functionality as the standalone Instrument panel described *Instruments* with the addition of a feature that displays all contracts for a product which can be toggled on and off in the current panel by clicking on the checkbox next to the product name, or by pressing the keyboard shortcut **Alt + P**.



The built-in instrument navigator only features products that can be used in the context of each panel's functionality. It only displays contracts that are tradable in at least one area that is assigned to the user, as well as considering the user's rights.

4.6 Column Order

In some panels, the order of columns can be changed by left clicking on the column title and (whilst keeping the mouse button pressed) moving the column to a new position. Releasing the mouse button will lock the column in the new position.

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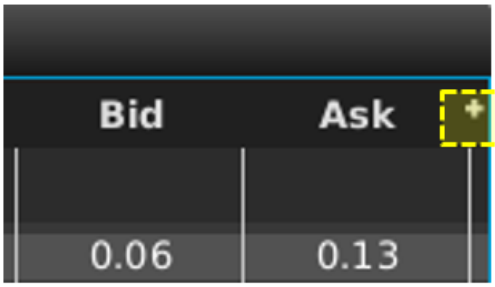
The order of the columns can be also changed via Drag&Drop in the column customisation window (see *Column Order via Drag&Drop*).

4.7 Column Customisation Window

In some panels, the appearance, the background colour and the order of columns can be customised by clicking the "+" button in the upper right corner of the panel, which opens the column customisation window.



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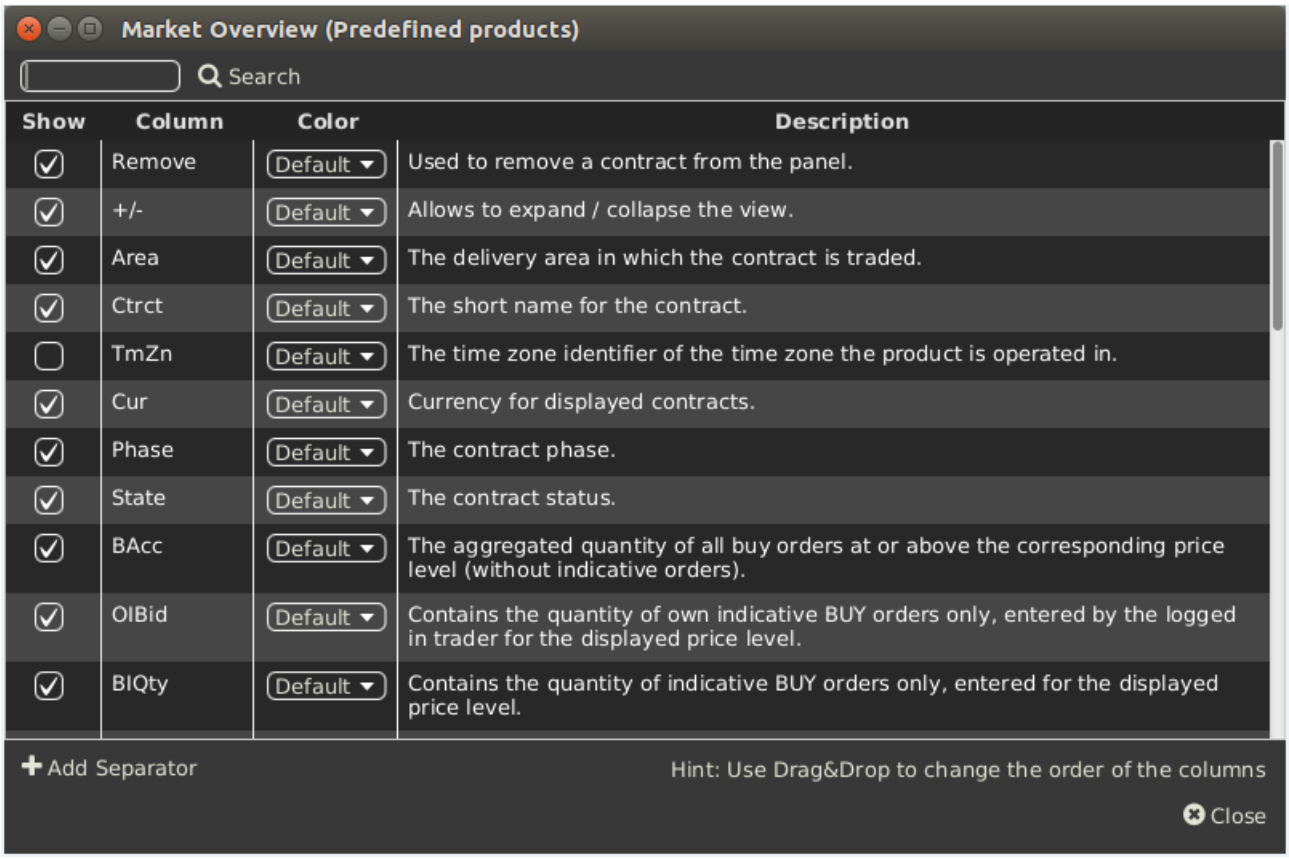

4.7.1 Display / Hide Columns

The single columns of the panel can be displayed or hidden using the “Show” checkboxes.

4.7.2 Search Column

To make the selection of columns easier, a Search field can be used which is located at the top.

In order to filter the columns, a user enters the desired string into the Search field and clicks on the loop icon. As a result, only the columns containing the string entered in the Description of the column will be listed. The search functionality is case-sensitive.

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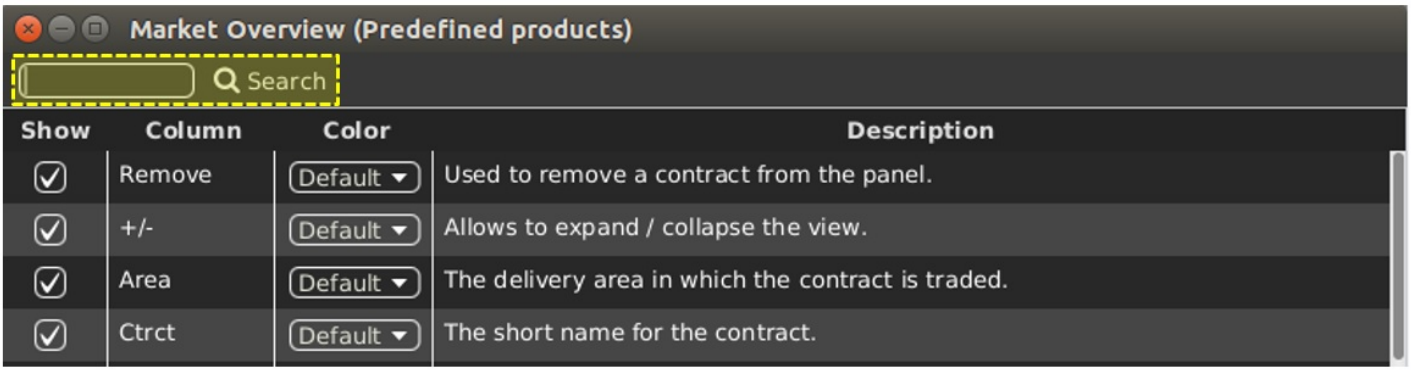
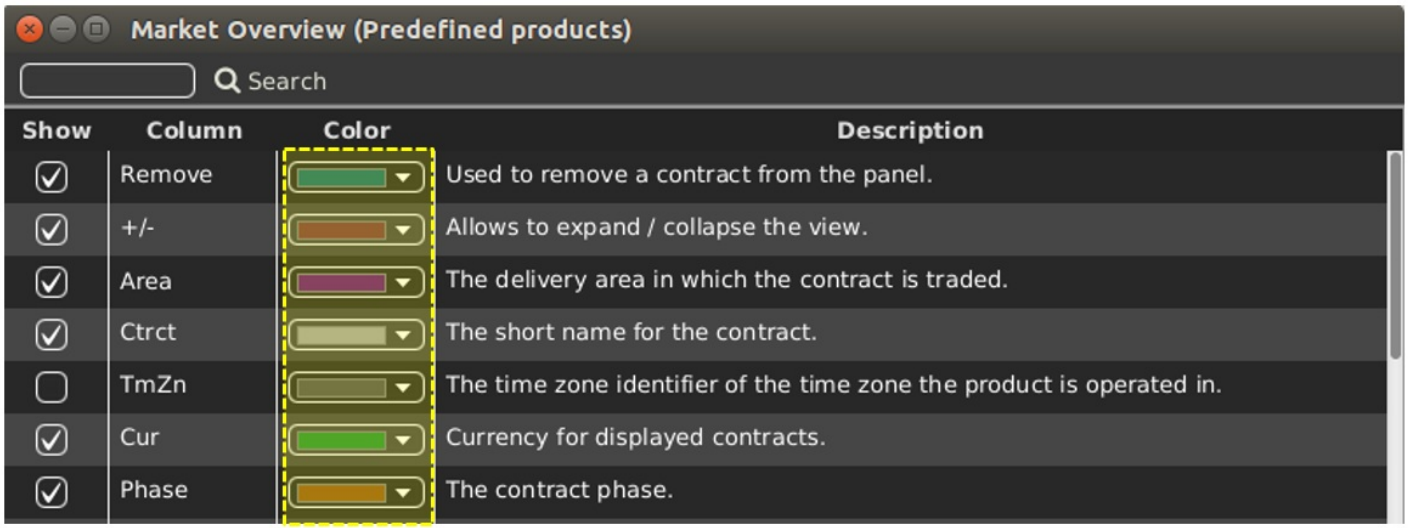


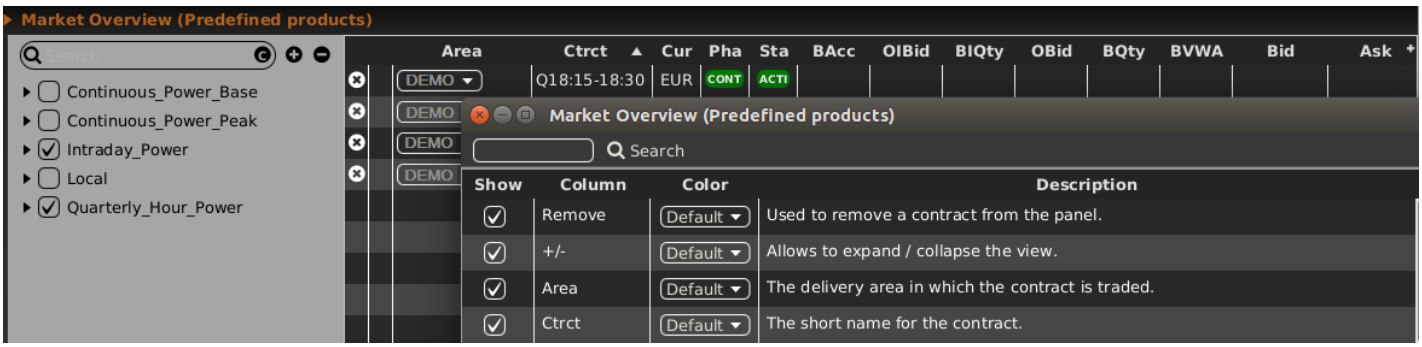
4.7.3 Background Colour

The background colour of a column can be changed by the selection a colour from the list of available predefined colours.



4.7.4 Column Order via Drag&Drop

The column order can be changed by the Drag&Drop of the columns within the Column Customisation Window. The sorting order (top down order) of columns in the Column Customisation Window determines the order of the appearance of the columns within the panel (left to right).



4.7.5 “Add Separator” Button

For the visual separation of the separate column groups, it is possible to add separators. The separator column is an empty

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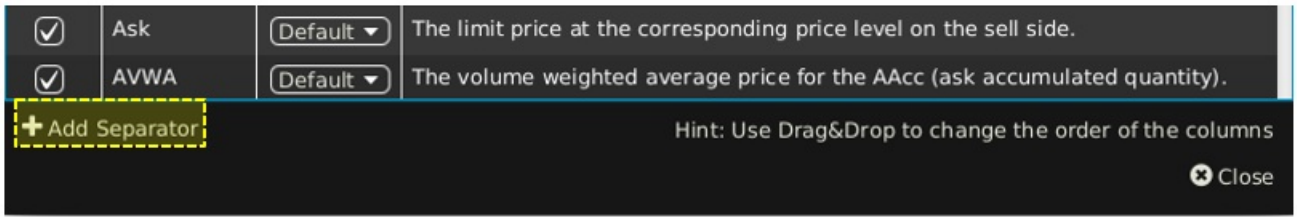
column which is placed and coloured according to the user's preferences.

The separator column can be added by clicking on the "Add Separator" button.



As soon as the separators are set to be hidden, the system removes them from the list of available columns.

4.8 Row Sorting

In some panels, rows are sorted by the order of their initial addition to the panel by default. Clicking on a column title will allow the user to sort the records of the main panel in an order determined by the values of the selected column. A table can be sorted by one or multiple columns.

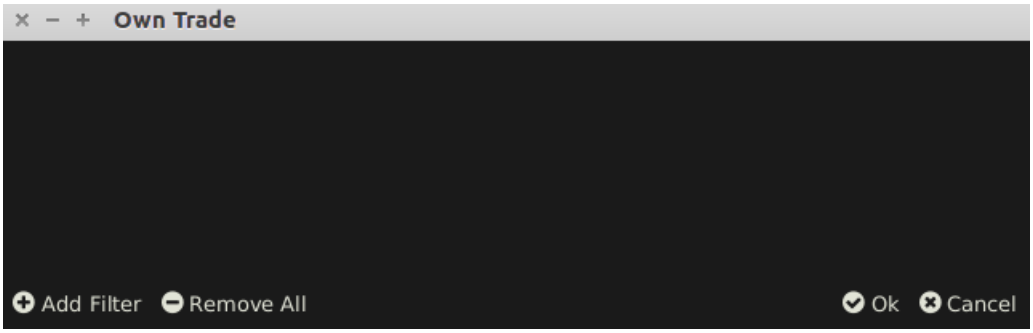
Each left click on a column title will cycle to one of the three sorting modes:

- **Ascending (increasing)**
  The column content is sorted in an ascending order (lowest value first) which is indicated by an upward pointing arrow symbol (▲) next to the column title.
- **Descending (decreasing)**
  The column content is sorted in a descending order (highest value first) which is indicated by a downward pointing arrow symbol (▼) next to the column title.
- **None**
  The column is not used for sorting. No arrow symbol is displayed.

When the sorting of a column is activated, it is possible to select up to nine additional columns upon which the multi-level sorting will be performed. Each shift + left click on a column title will add an additional sorting level and will cycle between one of the three sorting modes described above (Ascending, Descending or None). Note that multiple column sorting is not available for all panels.

4.9 Dynamic Filters

In some panels, a dynamic filter can be created by clicking on the funnel symbol ( ) that is located in the bottom bar of the panel. This will open the dynamic filter window in which the user-defined filter criteria can be applied to the current panel:



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By clicking the “Add Filter” button, a new filter rule can be defined by choosing:

- a field
- an operator
- a value.

All fields of a panel can be used to create a dynamic filter. The type of a field determines the availability of its operators.

The following field types exist:

Feature	Description	Example	Available Operators
Numerical Fields	Fields containing numbers only.	**Qty** in the **Own Orders** panel	= , != , < , <= , > , => , is empty, is not empty
Date/Time Fields	Fields containing date and/or time values.	**LUpdt** in the **Own Orders** panel	= , != , < , <= , > , => , is empty, in range, is not empty
Text Fields	Fields which can contain all types of characters.	**Ctrct** in the **Own Orders** panel	= , != , contains , !contains , is empty, is not empty
Pre-Defined Fields	Fields which can only contain a limited amount of valid values which are pre-defined in the system.	**ExeRes** in the **Own Orders** panel	= , !=

The following operators exist:

Operator	Description
=	The value of the field must be equal to the value in the filter or the row will not be displayed.
!=	The value of the field must be different than the value in the filter or the row will not be displayed.
<	The value of the field must be lower (or earlier) than the value in the filter or the row will not be displayed.
<=	The value of the field must be lower (or earlier) than or equal to the value in the filter or the row will not be displayed.
>	The value of the field must be higher (or later) than the value in the filter or the row will not be displayed.
=>	The value of the field must be higher (or later) than or equal to the value in the filter or the row will not be displayed.
is empty	The field in the panel must be empty or the row will not be displayed.
is not empty	The field in the panel is not empty.
contains	A subset of characters in the field must match the value in the filter or the row will not be displayed.
!contains	If a subset of the characters in the field matches the value entered in the filter, the row will not be displayed.

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Operator	Description
in range	Using this operator will limit the values that can be entered in the filter value field to the following pre-defined values: **Today** - The field value must have the same date as the current system date for this exchange or the row will not be displayed. **Tomorrow** - The field value must have same date as tomorrow's system date for this exchange or the row will not be displayed. **T-X** - The field value must have either today's date or any past system date until X days ago, or the row will not be displayed; where X stands for number of days. The maximum number of days that can be used as X in the dynamic filters can be parameterized using the system parameter *contractStoreTimeInDays*. Example: T-3 refers to either today's date or any past system date until three days ago.

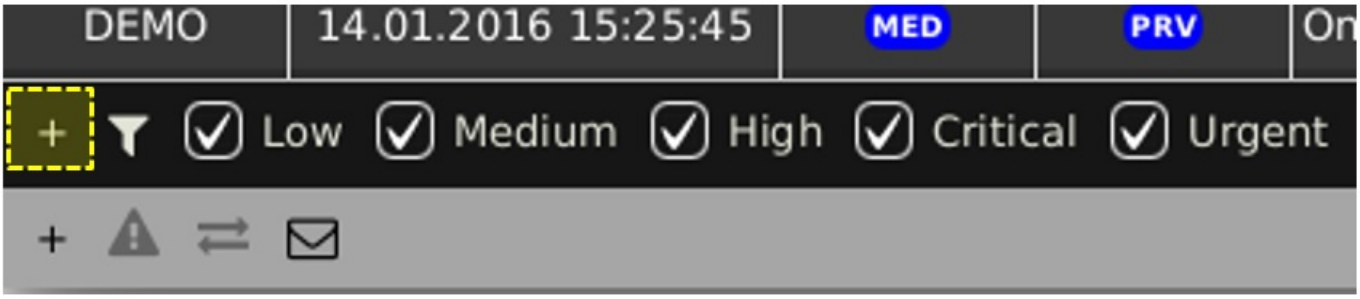
All filters are connected by a logical "AND", meaning that a row in the panel must match all dynamic filters or it will not be displayed in the panel when the filter is active.

Whenever a dynamic filter is active, the filtered column is marked by a yellow funnel symbol in the column title:

A filter can be removed by clicking on the "Remove" button at the end of each filter row, or by clicking the "Remove All" button (which will remove all filters) in the bottom bar of the dynamic filter screen:

4.10 Customise Bottom Bar

In many panels, clicking on the (+) symbol on the far-left side of the bottom bar (see below),



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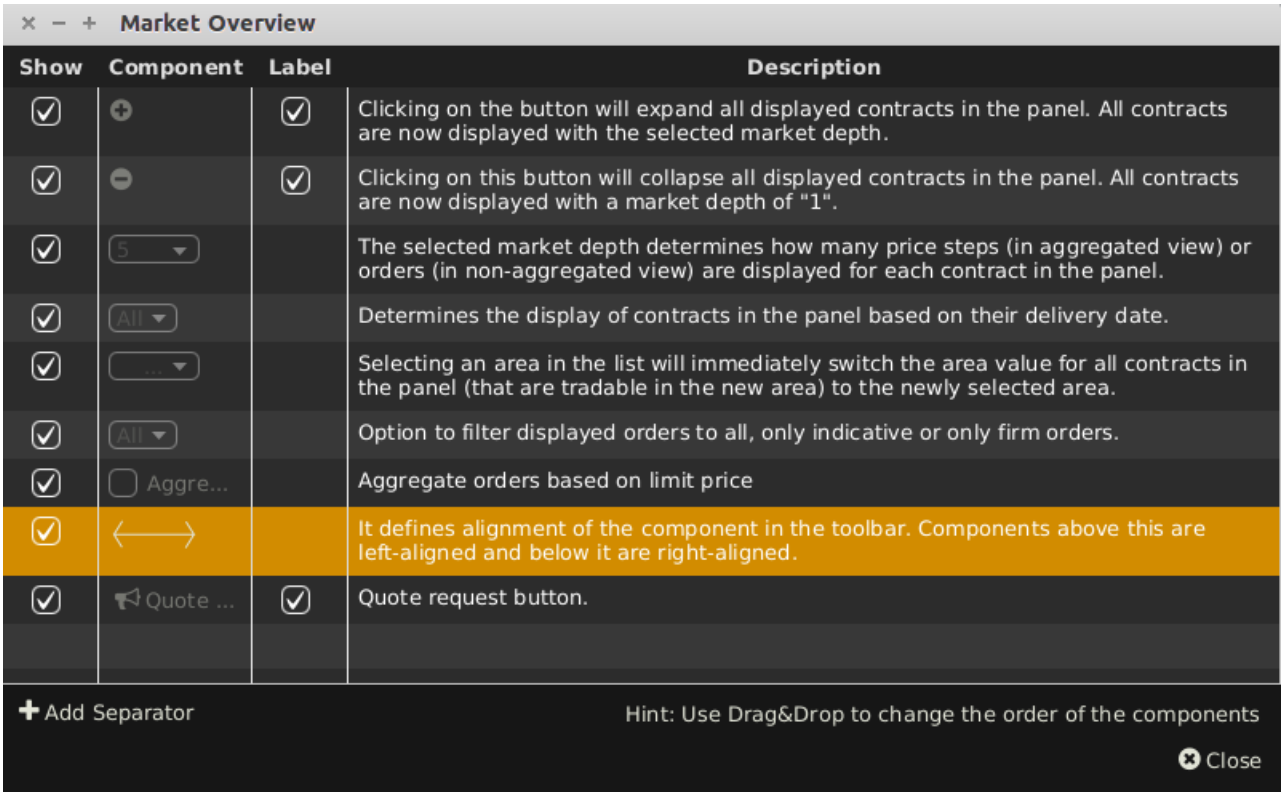
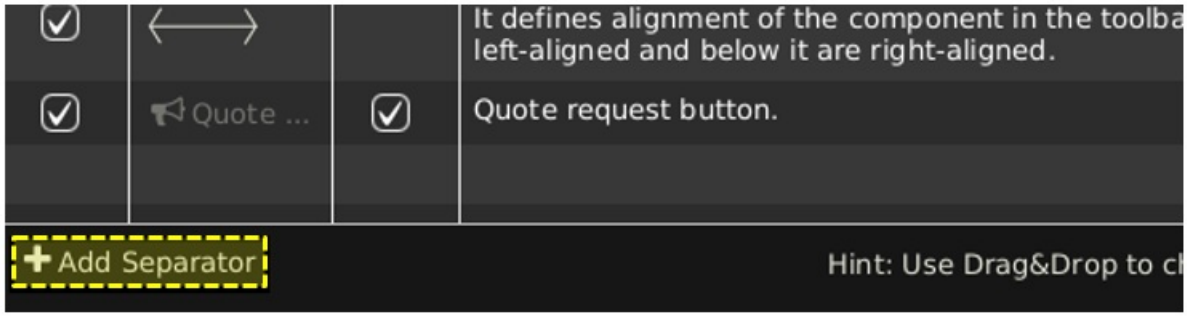
will open a dialogue to customise the available functions in the bottom bar:



In the “Component” column it is possible to see how each item will appear in the bottom bar: as a toggle button with a text placeholder, a box with its label or an icon. The label can be hidden by unchecking the box in the “Label” column. The last column contains the description of the item.

The items which are unchecked in the "Show" column will no longer be displayed. The order of items can be changed by dragging items from one row to another as indicated by a hint in the right bottom of the window:

A visual separator for logical groups of components ( ) can be added by clicking the “Add Separator” button on the far-left side of the bottom bar (see below).



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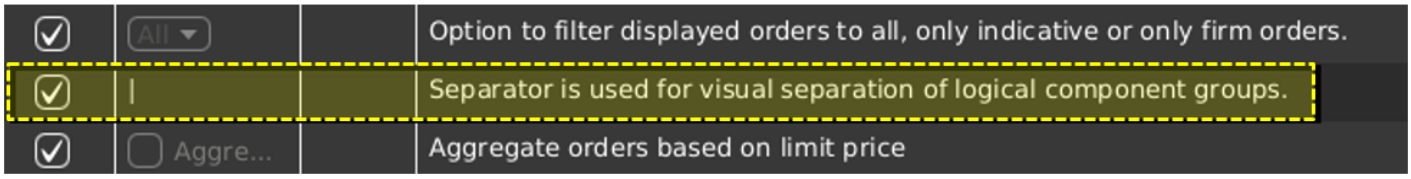
The separator with the checked box in the “Shown” column is added to the list of items right after the row which was selected prior to the “Add Separator” button was clicked, or to the end of the list if no selection was done:



The bottom toolbar of the respective panel is adjusted as shown below:

The separator can be removed at any time in the same way as any other item in the list.

Alignment of the items in the toolbar is adjustable by moving the row containing ( ) in the “Component” column up or down the list. All items above this row are left-aligned and below it are right-aligned.

4.11 Keyboard Shortcuts

In some panels, it is possible to use keyboard shortcuts for certain actions, please see the below table for details.

For the shortcuts to work, the user’s focus must be in ComTrader. In case the user’s OS has the same keyboard shortcut configured for some other action, the OS action will overrule the action in ComTrader.

The shortcuts will also not work if there is a modal panel that requires the interaction of the user.

Action	Keyboard Shortcut	Description	Panels
Row(s) selection	Click + Ctrl + Click	Selects one or more rows by holding the Ctrl key and left-clicking on the desired row(s).	Panels with a list of orders/trades etc. For example, Own Orders, Basket and Messages.
Row range selection	Click + Shift + Click	Selects a range of rows by left-clicking on the first row of the range selection, pressing SHIFT key and then left-clicking on the last row of the range selection.	Panels with a list of orders/trades etc. For example, Own Orders, Basket and Messages.
All rows selection	Ctrl + A	Selects all rows in the panel.	Panels with a list of orders/trades etc. For example, Own Orders, Basket and Messages.
Deactivate / Hibernate All (Orders)	Alt + D	Deactivates / hibernates all active orders of the logged-in trader.	Any panel except for the Login Window.
Cancel / Delete All (Orders)	Alt + Delete	Cancels / deletes all orders of the logged-in trader.	Any panel except for the Login Window.

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5 Trading Panel Descriptions

5.1 General

This section contains a detailed description of all trading panels.

5.2 Market Overview (Predefined products)

5.2.1 General Description

For each displayed contract, the attributes of active orders are displayed in the columns of the panel's main table.

5.2.2 Adding and Removing Contracts

Contracts can be added by using the built-in instrument navigator (see *Built-in Instrument Navigator*) or by dragging contracts from a standalone Instrument panel (see *Instruments* and dropping them in the main table of the Market Overview (Predefined products) panel. Contract can be removed by clicking on the cross-icon (⊗) in each contract row or by deactivating the checkbox next to the contract's product in the built-in instrument navigator.

5.2.3 Order Book Sorting

The sorting of orders for each contract is based on the Bid/Ask limit of orders as described in *Display of Order Book Data*.

5.2.4 Aggregated Order Quantities

In the Market Overview (Predefined products) panel, the user can define whether the quantities of the entered multiple orders which are at the same price level will or will not be aggregated to a combined quantity. It is possible to have two Market Overview (Predefined products) panels with different aggregation setup.

Aggregation of orders by price level can be turned on, resp. off by activating, resp. deactivating the checkbox "Aggregate" in the bottom toolbar.

When the aggregation is turned on, all orders submitted for one contract and with the same price level are aggregated into a

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combined quantity. Ownership based order display of aggregated view depends on orders that are aggregated (in one row).

When the aggregation is turned off, all orders belonging to one contract are displayed separately even if there are multiple orders with the same limit price.

Example
Checkbox “Aggregate” ticked
If two buy orders are entered with quantities of 10.0 and 5.0, both at the same price of €7.00, the column BQty will display the value “15.0” in the same row as the one with the value “7.00” in the column “Bid”. In addition, the corresponding expansion button in the +/- column is hidden. If at least one order was entered by the logged in ComTrader the user aggregated view (row) is bold, italic and light blue. If at least one order was entered by another user of the same balancing group aggregated the view (row) is bold, italic and yellow. Otherwise the aggregated view is white.
Checkbox “Aggregate” unticked
If two buy orders are entered with quantities of 10.0 and 5.0, both for the same price of €7.00, there will be two rows with the value “7.00” in the column “Bid”, one row with the value “10.0” and another row with the value “5.0” in the column BQty. The corresponding expansion button in the +/- column is shown.

5.2.5 Ownership based Order Display

The font of the order data displayed in the main table is dependent on the order owner, as described in *Ownership based Order Display*.

5.2.6 Market Depth

By default, only the best bid and ask orders (see *Display of Order Book Data* for a definition of best order) are displayed per contract. A user can increase the number of displayed price steps by clicking on the expand-icon (⊕) in each contract row. This will increase the number of displayed orders to the currently configured market depth (see *Customisation and Filters*). Clicking on the collapse-icon (⊖) will reduce the number of displayed price steps to the best bid and best ask order again.

5.2.7 Contract closure alert

If contract closure alert is configured for a product, impacted contracts (contracts close to closure) are highlighted as configured. For details, see *Contract closure* chapter.

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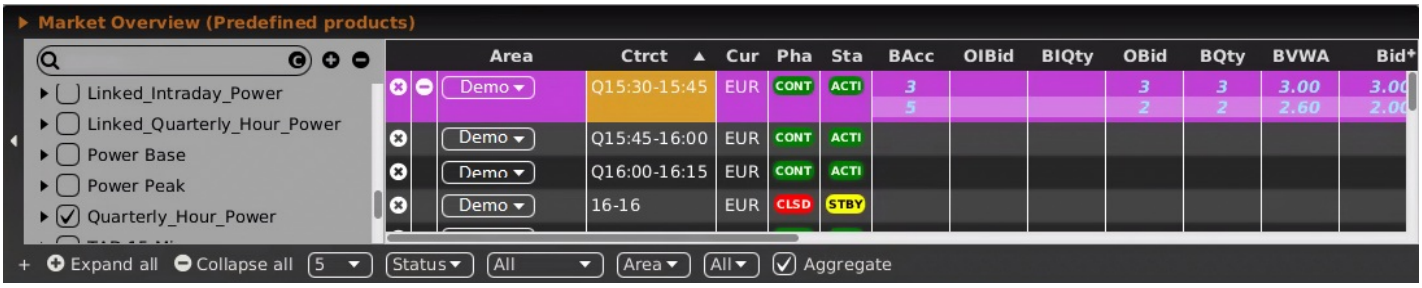

5.2.8 Column Description

Depending on the configuration of the connected exchange only a subset of the following columns could be available:

Column Title	Name	Description
Remove	Remove	Clicking on the cross-symbol ( ) will remove the current contract from the panel.
+/-	Expand / Collapse	If at least two active orders for the same contract but different order limits exist, the expand ( ) and collapse ( ) buttons are displayed in the column "+/-". The column title is not displayed in the Market Overview (Predefined products) panel, except in the column selector menu (see *Column Customisation Window*). The *expand* symbol is displayed if the contract is collapsed (only displayed with a market depth of 1), whilst a *collapse* symbol is displayed if the contract is expanded with the market depth specified in the market depth selector (see *Customisation and Filters*). Clicking on the *expand* button ( ), will expand the current contract to the selected market depth. Clicking on the *collapse* button, will collapse the current contract to a market depth of 1.
Area	Area	The delivery area in which the contract is traded.
Ctrct	Contract	A short name for the contract.
Cur	Currency	The currency for displayed contracts.
Time Zone	TimeZone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)

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Column Title	Name	Description
Phase	Phase	The contract phase. **Valid values:** CONT - Continuous Trading BALA - Balancing Phase AUCT - Auction CLSD - Closed SDAT - Same Delivery Area Trading (matching of orders is possible only within the same delivery area)
State	State	The current state of the contract. **Valid values:** **HIBE -** the contract is manually deactivated by market operations. **IACT -** the contract is inactive and not available for trading. **ACTI - the c**ontract is active and available for trading. **STBY - the c**ontract is waiting on an external event to become available for trading.
BAcc	Bid Accumulated Quantity	The aggregated quantity of all buy orders at or above the corresponding price level.
OBid	Own Bid Quantity	The aggregated quantity of all buy orders at the current price level and owned by the logged in user.
BQty	Bid Quantity	The aggregated quantity of buy orders at the corresponding price level.
BVWA	Bid Volume Weighted Average	The volume weighted average price at the bid accumulated quantity (see column *BAcc*).
Bid	Bid	The limit price at the corresponding price level on the buy side.
Ask	Ask	The limit price at the corresponding price level on the sell side.
AVWA	Ask Volume Weighted Average	The volume weighted average price for the AAcc (ask accumulated quantity).
AQty	Ask Quantity	The aggregated quantity of orders for the corresponding price level.
OAsk	Own Ask Quantity	The aggregated quantity of all sell orders at the current price level and owned by the logged in user.
AAcc	Ask Accumulated (Quantity)	The aggregated quantity of all sell orders at or below the corresponding price level.
LPrc	Last Price	The price of the last trade in the corresponding contract.
LQty	Last Quantity	The quantity of the last trade in the corresponding contract.

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Column Title	Name	Description
TQty	Total Traded Quantity	Total quantity of individual orders that were matched in a trade on selected contract and delivery area. If the trade is created from 2 orders on the same delivery area, then TQty includes quantity of both orders. For remote trades TQty is provided by XBID.
Details	Details	The column contains a magnifying glass button for each contract. Clicking on the button will either: - Display details about the contract in an Order Book Details *(see Order Book Details)* and Chart panel (see *Chart*) of the same trading board. - Open a floating Order Book Details panel (see *Floating Order Book Details Panel)*. - with information about the current contract, if neither an Order Book Details panel or Chart panel is part of the same trading board as the Market Overview (Predefined products) panel.
separator	Separator	Customisable separator columns which can be moved, resized or coloured.
ATQty	Ask Tradable Quantity	The total quantity for (firm) ask orders.
BTQty	Bid Tradable Quantity	The total quantity for (firm) bid orders.
TOBQty	Total Own Buy Quantity	The total purchasing volume for the current member on a given contract delivery period.
TOSQty	Total Own Sell Quantity	The total selling volume for the current member on a given contract delivery period.
AOBPrc	Average Own Buy Price	The volume weighted buy price of the last 5 days for the current member.
AOSPrc	Average Own Sell Price	The volume weighted sell price of the last 5 days for the current member.
AucPrc	Auction Price	The price determined during the auction phase of the contract
Surplus	Surplus	Surplus of an auction. Bid surplus is displayed as a positive number and ask surplus as negative number.
Oprc	Opening price	Opening price for selected contract in selected delivery area.
CPrc	Closing Price	The last closing price of the selected contract.

5.2.9 Customisation and Filters

In addition to the selection of products and contracts, a user can customise various other aspects of the Market Overview (Predefined products) panel. All of the parameters described below (except "*Set one Contract Area"*) are saved when clicking

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the "Save Profile" button (see *Menus*).

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted by the values in the columns *Area* or *Ctrct* as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.
Search Column	To make the selection of the columns easier a Search field can be used that is located at the top. In order to filter the columns, a user can enter the desired string into the Search field and can click the magnifying glass icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive.
Set one Contract Area	 The "Area" for each displayed contract can be changed by clicking on the selection list in the column "Area". **Note:** Area selection for each contract is **not** stored in the profile.
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).

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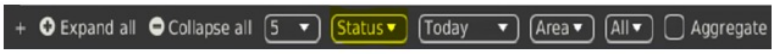
Feature	Description
Expanding all Contracts	 Clicking on the button will expand all displayed contracts in the panel. All contracts are now displayed with the selected market depth.
Collapsing all Contracts	 Clicking on this button will collapse all displayed contracts in the panel. All contracts are now displayed with a market depth of "1".
Market Depth	 The selected market depth determines how many price steps are displayed for each contract in the panel.
Status	 Only contracts with the selected status are displayed.
Delivery Day	 Determines the display of contracts in the panel based on their delivery date. **Valid values:** **Today** - Only contracts that are starting delivery today are displayed. **Tomorrow** - Only contracts that are starting delivery tomorrow are displayed. **All** - Contracts are displayed independent of delivery date.
Set all Contract Areas	 Selecting an area in the list will immediately switch the area value for all contracts in the panel (that are tradable in the new area) to the newly selected area.
Order Aggregation Based on Limit Price	 Turns the aggregation of orders based on limit price on or off with the effects described in *Aggregated Order Quantities*.

5.2.10 Order Entry Support

Instead of entering the entire data for entering a new order manually in the Order Entry panel, a user can pre-fill an Order Entry panel with values by clicking on specific locations in the market as described in *Order Entry Support*.

5.2.11 Export

The panel content can be exported in a .csv file or copied to the system clipboard as described in *Panel Export*, whilst the items *Export All to CSV File* and *Copy All (Excel)* are not available for this panel.

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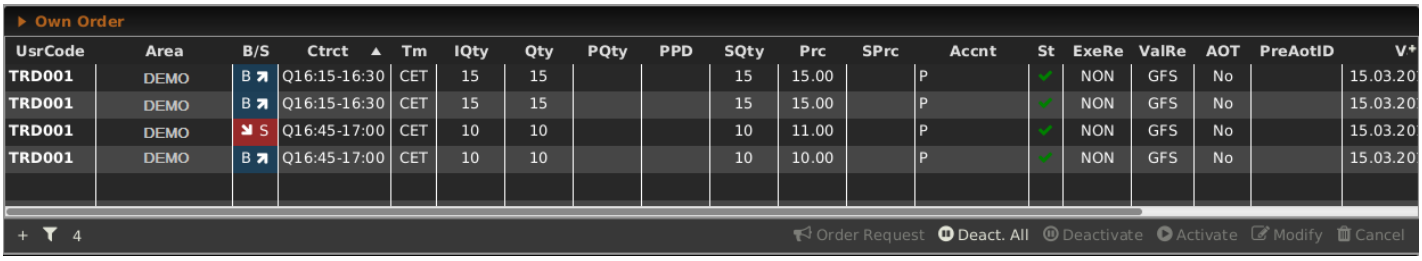
5.3 Own Order

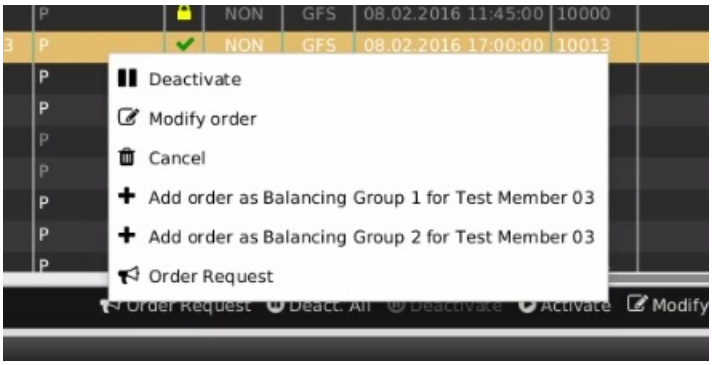
5.3.1 General Description

The *Own Order* panel displays all orders that are entered by the logged in trader or other traders of the same balancing group/trading account.

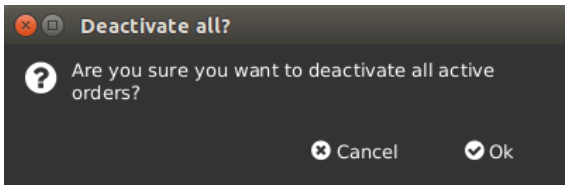


5.3.2 Order Actions

A user can perform an order action for existing orders by selecting (one or more) orders and clicking an order action button, or by right clicking on an order and choosing an action from the context menu:



The following order actions are available:

Action Name	Description
Deact. All (*Deactivate All*)	Deactivates all active orders in the Own Order panel. The following confirmation dialogue is displayed: 
Deactivate	Deactivates the selected order(s). One or more orders can be selected.
Activate	Activates the selected order(s). One or more orders can be selected.

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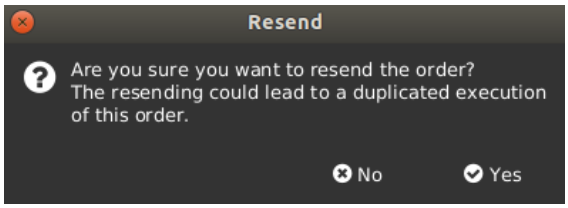
Action Name	Description
Modify (order)	The order can be modified in the floating Order Modification panel (see *Order Entry Advanced Horizontal*). Only one order can be selected, or the button will be greyed out. An order can also be modified by double clicking on it in the Own Order panel.
Cancel	Deletes the selected order(s). One or more orders can be selected.
Add Order (only via context menu)	Opens a floating Order Entry panel which is pre-filled with the exact same values of the order. If more than one Balancing Group/Trading Account is available for the user, the Trading Account field is pre-filled by the Trading Account selected in the context menu.
Resend	Resending attempts will trigger the following popup: 
Prefill	Opens a floating Order Entry panel which is pre-filled with the exact same values of the order in ERR state.
Remove	Removes the selected order in ERR state from the Own Order panel
Remove All	Removes all orders in ERR state from the Own Order panel

5.3.3 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns could be available:

Column Title	Name	Description
UsrCode	User Code	User code of the user performing the last successful action on an order. The bold text in the column User is used whenever a displayed user is the same as the logged in user. Note that when trading on behalf, the bold text is applied to the on-behalf user (i.e. if user1 acts on behalf of user2, then the bold text is applied for the user2).
Area	Area	Area for which the order has been entered

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Column Title	Name	Description
B/S	Order Side	The order side. Background colour of the Order Side column is the same as the background colour of the Order Entry panel as described in *Order Entry Advanced Horizontal*, i.e. red for the sell side and blue for the buy side. In addition, the sell side has a red arrow pointing downwards towards the right is positioned to the left of the "S". In the case of the buy side, there is a green arrow pointing upwards towards the right is positioned on the right hand side of the displayed "B" **Valid values:** B - buy S - sell
Ctrct	Contract	Traded contract.
TmZn	Time Zone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
IQty	Initial Quantity	Initial quantity of an iceberg order.
Qty	Quantity	Order quantity.
PQty	Peak Quantity	Peak quantity of an iceberg order
PPD	Peak Price Delata	Peak price delta of an iceberg order.
SQty	Shown Quantity	Shown quantity of an iceberg order.
SPrc	Stop Price	Stop price limit of the stop order
Prc	Price (Limit)	Limit price of the order.
Cur	Currency	Order currency. **Valid values:** EUR - Euro
Accnt	Account	Account type of the order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).
Type	Type	Order type. **Valid values:** REG - Regular ICB - Iceberg OTC - Over the counter STP - Stop order
O/C	Open or Close	Open or closed order.

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Column Title	Name	Description
State	State	Status of the order. **Valid values:** ACTI - The contract is active and available for trading (green tick is shown). HIBE - The contract is temporarily deactivated (yellow padlock is shown). SENT - The order is in the process of being sent to the server (yellow transmission icon is shown). ERR - The order was refused by server (red cross-symbol is shown). MODI - The order modification is in the process of being sent to the server (yellow padlock is shown). UKNW - The order status in XBID is unknown (yellow padlock is shown). Only for remote orders. More information is also displayed in the order's tooltip.
AOT	Automated Order Transfer	The indicator determines whether the order shall be automatically transferred to the corresponding linked contract after trading in the specific delivery area ends in XBID. For more information on the automatic order transfer see DFS160a. Valid values: • Y – The remote order shall be automatically transferred to the linked contract. • N – The remote order shall not be automatically transferred to the linked contract.
PreAotID	Pre AOT ID	The order ID of the previous remote order. If a local order is entered automatically as a result of an Automated Order Transfer (AOT), its PreAotID is a local ID of the remote order that this order originated from.
ExeRes	Execution Restriction	Execution restriction of the order. **Valid values** NON - None IOC - Immediate or cancel FOK - Fill or kill
ValRes	Validity Restriction	Validity restriction of the order. **Valid values:** GFS - good for session GTD - good till date
ValDate	Validity Date	Validity date of the order.

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Column Title	Name	Description
OrdrID	Order ID	Order id of the order.
IOrdrID	Initial Order ID	Initial order id of the order. If the order is modified it will sometimes get a new order id but the initial order id will always remain identical.
CIOrdrID	Client Initial Order ID	Client order id generated by ComTrader
Product	Product	Product for which the order was entered.
Txt	Text	Optional order text field.
Timestamp	Timestamp	The order entry time of the order. **Note:** Some modifications, like changes of the order limit will delete an order and enter a new one instead.
BG	Balancing Group	Trading Account reflecting the Balancing Group where the trade is booked for the concerned user after the entered order has been matched and executed in the trade.
LastUpdTm	Last Update Time	The last time this order was modified.
UsrName	User Name	User name of the order owner.
Loc	Location	Information about the Location of the order. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.
MarBas	Market based	Type of the congestion order to indicate whether it is a market based order or a non-market based order. Mandatory for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
ConRef	Contract reference	Reference to a contract between supplier and network operator. Optional for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
FacTyp	Facility type	Type of the network connected facility that converts primary energy into electrical energy. Optional for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
UsFr	Usage fraction	Indicates the min/max usage of the orders. Optional for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.

5.3.4 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.

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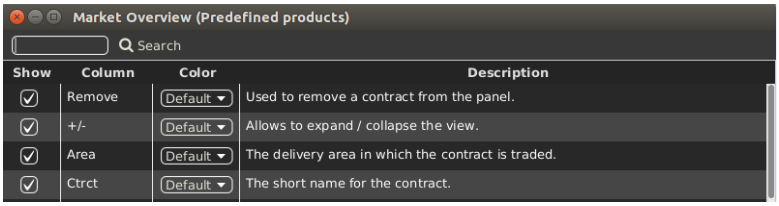
Feature	Description
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.
Search Column	To make the selection of columns easier, a Search field can be used which is located at the top. In order to filter the columns, a users enters the desired string into the Search field and clicks the magnifying glass icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).
Dynamic Filters	Clicking on the funnel symbol ( ) in the lower left corner of the panel will allow the user to create a custom filter to the panel as described in *Dynamic Filters*.
Entry Count	 Turns on or off the total number of entries in the table on the display.
Deactivate All	 Deactivates all active orders in the Own Order panel.
Deactivate	 Deactivates the selected order(s).
Activate	 Activates the selected order(s).
Modify	 Opens a floating Order Modification panel for the selected order.
Cancel	 Deletes the selected order(s).

5.3.5 Export

The panel content can be exported into a .csv file or copied to the system clipboard as described in *Panel Export*.

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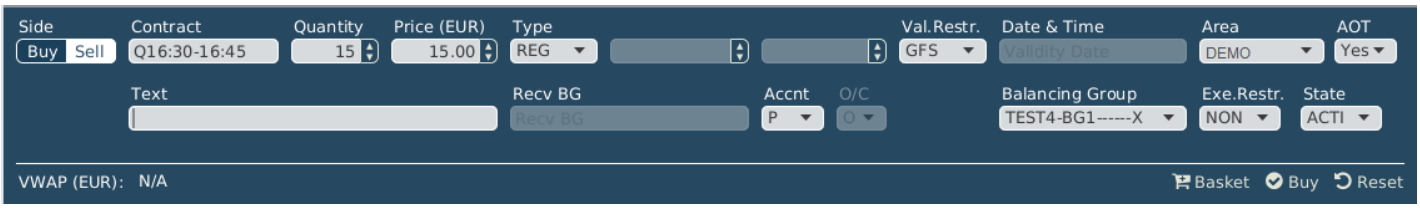
5.4 Order Entry Advanced Horizontal

5.4.1 General Description



The *Order Entry Advanced Horizontal* panel is used to enter or modify orders using all possible attributes. Based on the rights of the logged in user, all data can be entered manually or by using the order entry support functionality of the Market Overview (Predefined products) panel (see *Order Entry Support*). The panel can be switched between "Buy" and "Sell" mode, by clicking the corresponding button in the "Side" selection field.

If “Location-Price-Time” or “Location-AON” matcher is selected for the product, the *Order Entry Advanced Horizontal* panel contains a mandatory field “Location”.

In addition to “Location” information, the panel provides four additional fields related to Location functionality: “Market based”, “Contract reference”, “Facility type” and “Usage fraction (%)”.

5.4.2 Order Actions

Order actions are available on the bottom right side of the panel:

Available order actions are depending on the current action a user is performing.

5.4.2.1 Order Entry

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When entering a new order, the available order actions are:

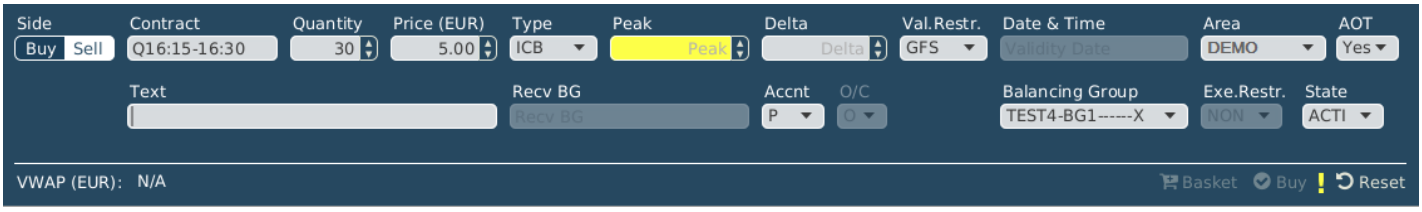
Action Name	Description	Keyboard Shortcut
Basket	The order is added to the order basket (several orders in one step, see *Basket*) and is not submitted to the market.	Shift + Enter
Buy / Sell	If the panel is set to the buy side the "Buy" button is displayed, when the sell side is selected, the "Sell" button is displayed. Clicking this button will submit the order to the system.	Enter
! (Error symbol)	The exclamation symbol is displayed whenever an order cannot be submitted because of missing or invalid data in one or more fields. Clicking on the symbol will open a list of the current errors.	
Reset	Resets all fields to their default value (*only available if the panel is part of a trading board*).	
Close	Closes the floating Order Entry panel and cancels the order entry process (*only available in a floating panel which is not part of a trading board*).	

Orders can be entered by entering the order data into the fields of the Order Entry panel and by clicking either the buy/sell button or the basket button (*Basket*).

To ease and accelerate this process, a trader can use the order entry support feature which pre-fills some order fields by clicking on the existing data in another panel (e.g. Based on the product, related contract or selection in the Market Overview (Predefined products) panel). Order entry support is integrated in the market overview, block market overview, market details and Order Book Details panel (see *Order Entry Support*). If an order cannot be entered, an error message will be displayed.

If the wait for order confirmation option (please refer to *Trading Preferences*) is checked, the Order Entry panel is re-enabled only after the server confirms the sent orders. Depending on the selected order type of an order, different fields can be displayed.

Example: Only if the order type "ICB" is selected, the fields "Peak" and "Delta" are displayed.



5.4.2.2 Order Modification

Orders are always modified in a floating Order Entry panel.

When modifying an existing order, the available order actions are:

Action Name	Description	Keyboard Shortcut
Basket	The order is modified in the basket (*only available if an order inside a basket is modified*).	Shift + Enter
Modify	The order is modified in the basket (*only available if an order inside a basket is modified*).	Enter
Reset	Resets all fields to their default value and cancels the modification process.	
Close	Closes the floating order entry panel and cancels the order entry process (*only available in a floating panel which is not part of a trading board*).	

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When submitting a modification request, the order attributes are validated first. If an order cannot be modified an error message will be displayed. The order state (field) of a modified order remains inactive.

Changing the "Price" or increasing the "Quantity" will result in the deletion of the original order and the submission of a new one into the system. This will be entered with a new timestamp and execution priority.

Any modification of an OTC order except changing the text field will cause the deletion of the original order and generation of a new one.

Changing the order type from Regular (REG) to Iceberg (ICB)

When changing the value of the field "Type" from "REG" to "ICB", the field "Peak" is immediately enabled, and all other order attributes of the original regular order are carried over to the new iceberg order, whilst the fields "Quantity", "Peak", “Delta” "Price", "Account" and "Text" can still be modified.

Note: The field "Peak" is a mandatory field for iceberg orders and must be filled before the changes are submitted. When all of the changes are made and the "Modify" button is clicked, the regular order will be deleted and a new iceberg order with the entered values will be created. This iceberg order will have a new timestamp and order id, and hence a new execution priority.

Changing the Order Type from Iceberg (ICB) to Regular (REG):

When changing the value of the field "Type" from ‘ICB’ to ‘REG’, the fields "Peak" and “Delta” are immediately disabled. All of the other order attributes of the original iceberg order are carried over to the new regular order, whilst the fields "Quantity", "Price", "Account", "Exe.Restr." and "Text" can still be modified. When all of the changes are made and the "Modify" button is clicked, the iceberg order will be deleted and a new regular order with the entered values will be created. This new regular order will have a new timestamp and order id, and hence a new execution priority.

5.4.3 Order Entry Field Description

Field Name	Description
Side	Clicking either the buy or sell button will toggle between the buy and sell mode of the panel. If the panel is set to the buy mode, a buy order will be submitted, if it is set to the sell mode, a sell order will be submitted.
Contract	An identifier for the traded contract.
Quantity	The order quantity.
Price	The price limit of the order. When the contract is selected, its corresponding currency is shown in the parenthesis next to the price limit of the order.
Type	The order type. **Valid values:** REG - Regular order ICB - Iceberg order OTC - Over the counter order / OTC order STP - Stop Order
Peak or Stop Price	The peak quantity of an iceberg order. If the STP order type is selected, the Peak field is changed to Stop Price field.

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Field Name	Description
Delta	The optional price parameter of an iceberg order which changes the price of each next slice when entered: decreasing buy and increasing sell prices of the iceberg slices **Valid values:** For buy orders: Delta <= 0; For sell orders: Delta >=0;
Val.Restr.	The *validity restriction* of an order. **Valid values:** GTD - Good till date GFS - Good for session
Date & Time	The valid date and time of an order.
Area	The order area.
AOT	Indicates whether the order shall be automatically transferred to the corresponding linked contract after the trading in the specific delivery area ends in XBID. For more information regarding the automatic order transfer see *DFS160a*. **Valid values:** Y - The remote order shall be automatically transferred to the linked contract. N - The remote order shall not be automatically transferred to the linked contract. The default value is true. It is only displayed in case the automatic order transfer for the linked product is enabled and if the execution restriction is different from AON, IOC or FOK.
Text	An optional text field for the order. In case the Order Templates functionality is activated and any Order Templates were configured in the Order Templates panel (see *Order Templates*), these will be offered for selection from a drop-down in the Text field. If in addition the box *Use the first template as default Order Text* in the Order Templates panel was ticked, the Text field will be automatically pre-filled with the very first order template. Both manually selected or pre-filled text can be freely modified further if desired. For additional information about text length please refer to DFS180 - M7 - Public Message Interface, chapter *OrdrEntry*.
Recv. TA.	The receiving balancing group (account) of an OTC order.
O/C	The Open/Close indicator of the order.
Account	The account of an order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).
Balancing Group	The balancing group for which the order is submitted.

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Field Name	Description
Exe. Restr.	The execution restriction of the order. **Valid values:** NON - none (no restriction) IOC - immediate or cancel FOK - fill or kill
State	The state of the order. **Valid values:** ACTI - active order HIBE - deactivated order
Location	Location of the order. **Valid values:** Letters A-Z, numbers and special characters “-“, “_”, “.“, “/”, “\“, “&”, “(“, “)” and “#”. Maximum length is 64 characters. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher. In case the Location Templates functionality is activated and location templates were configured in the Location Templates panel (see *Location Templates*), these will be offered for selection from a drop-down in the Location field. If the box *Use the first template as default Location* in the Location Templates panel was ticked, the Location field will be automatically pre-filled with the very first location template. Both manually selected or pre-filled location can be freely modified further if desired.
Market based	Type of the congestion order to indicate whether it is a market based order or a non-market (upon an explicit request of the grid operator) based order. **Valid values**: Yes/No Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.
Contract reference	Reference to a contract between supplier and network operator. **Valid values**: String, max 64 characters. Allowed characters are letters (a-z, A-Z), numbers (0-9) and special characters “-”,"_“,”.“,”/“,”\“,“(”,“)” and “#”. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.

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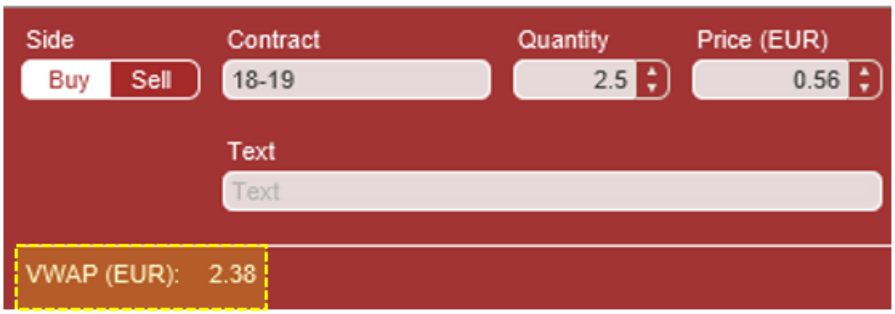
Field Name	Description
Facility type	Type of the network connected facility that converts primary energy into electrical energy. **Valid values**: String value, max 16 characters. Allowed characters are letters (a-z, A-Z) and numbers (0-9). Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.
Usage fraction (%)	Indicates the min/max usage of the order (percentage). **Valid values**: Percentage value (number without decimals) between 0 and 100. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.

5.4.4 VWAP

The VWAP (volume weighted average price) is displayed whenever the Order Entry panel contains enough data to predict the average buy or sell price of the transactions that would result if the order would be submitted.



The value is calculated based on the current market situation and is updated whenever market data is changing.

Note: The VWAP value in the Order Entry panel can only be interpreted as an indicative tool and does not guarantee the execution, execution -price, -quantity or other attributes of a transaction.

The VWAP is calculated based on existing orders in the market:

If there are one or more orders in the market that could match against an order with the characteristics currently in the Order Entry panel, the system calculates the VWAP by the following formula:

$$VWAP = \frac{\sum_x^n (Q_x * P_x)}{\sum_x^n Q_x}$$

where:

n : the number of all possible trades (that would be executed immediately after submission) as the direct result of order submission

Q_x : quantity of trade x

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P_x : execution price of trade x

Example

The following three orders currently exist in the market:

Order A: SELL, quantity: 10, price: 10
Order B: SELL, quantity: 10, price: 11
Order C: SELL, quantity: 10, price: 12

If the Order Entry panel is in the buy mode and the values **quantity: 15**, **price: 11**, are entered, then this buy order would (if submitted) fully match against order A and partially match against order B.

The following two trades would be created:

Trade 1: quantity: 10, price: 10
Trade 2: quantity: 5, price: 11

This would result in the following VWAP:

$$VWAP = \frac{10 * 10 + 5 * 11}{10 + 5} = 10{,}33$$

5.5 Order Entry Vertical

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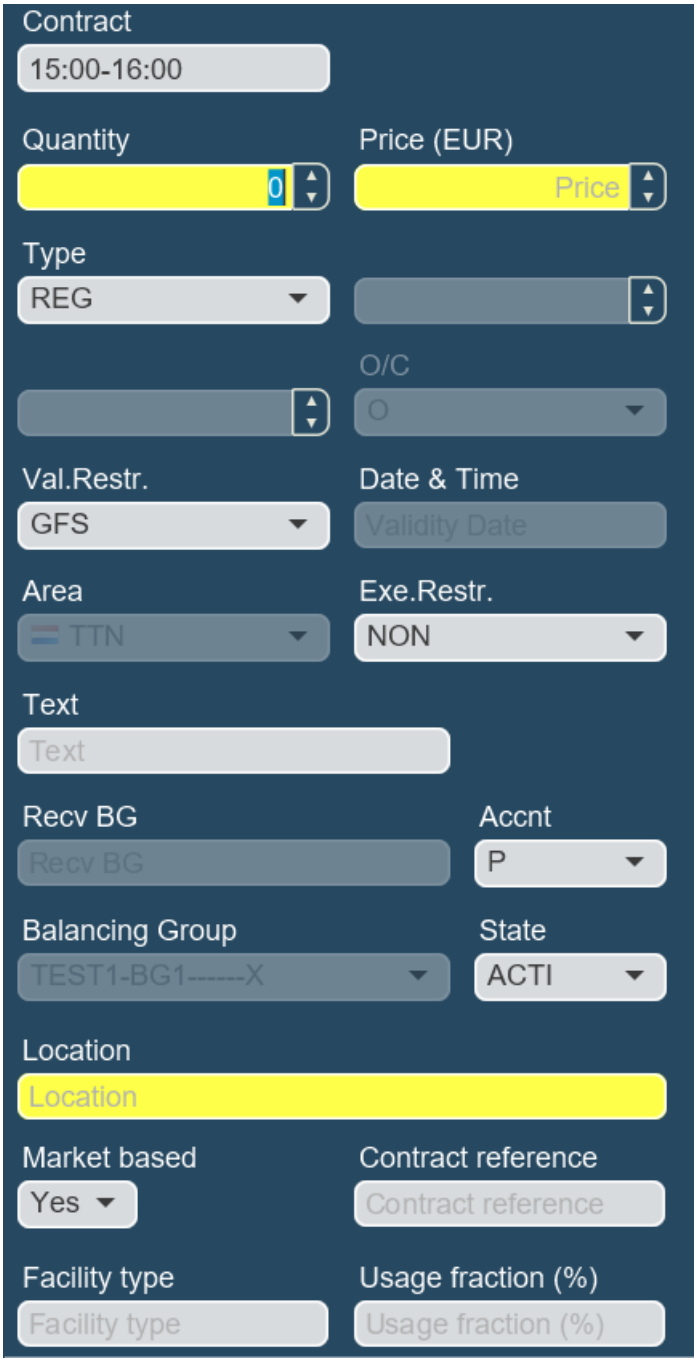
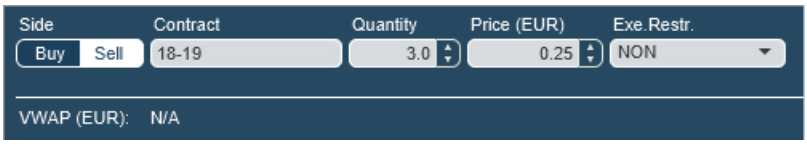


Except for the vertical arrangement of fields, the *Order Entry Vertical* panel is functionally identical to the Order Entry Horizontal panel described in *Order Entry Advanced Horizontal*.

5.6 Order Entry Simple



The *Order Entry Simple* panel is used for quick order entry. It contains only the mandatory fields of the *Order Entry Advanced Horizontal* panel (product, contract, quantity and the price limit of the order). All other fields are filled by default values (for more

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details please refer to *Order Preferences* of the ComTrader Settings).

5.7 Order Entry with On Behalf Horizontal

5.7.1 General Description

The *Order Entry with On Behalf Horizontal* panel allows brokers and admin users to enter orders on behalf of another user without using the *On-Behalf Trading* panel. The orders entered using this panel are displayed in the Own Order panel of the on-behalf trader.

Except for several fields, this panel is identical to the Order Entry Horizontal panel which is described in *Order Entry Advanced Horizontal*. Therefore, the only differences to panel Order Entry Horizontal are described in current chapter.

When a user selects an on-behalf member and trader, the basket button is disabled. It is still possible to use the *Basket* panel when the on-behalf trader is selected using *On Behalf Trading* panel. In addition, when trading on behalf using the *On-Behalf Trading* panel the Member and Trader fields of the *Order Entry with On Behalf Horizontal* panel are disabled.

5.7.2 Order Entry with On Behalf Horizontal Field Description

Please be aware that following table contains only fields which are not mentioned in *Order Entry Field Description*.

Field Name	Description
Member	The member on behalf for which the order is created. The selected member restricts the number of available traders in the trader selection box. If no member is selected, the *Order Entry with On Behalf Horizontal* panel behaves exactly the same as the *Order Entry Advanced Horizontal* panel.
Trader	The trader on behalf whom the order is created. If no trader is selected, the *Order Entry with On Behalf Horizontal* panel behaves exactly the same as the *Order Entry Advanced Horizontal* panel.

5.8 Block Order Entry Horizontal

5.8.1 General Description

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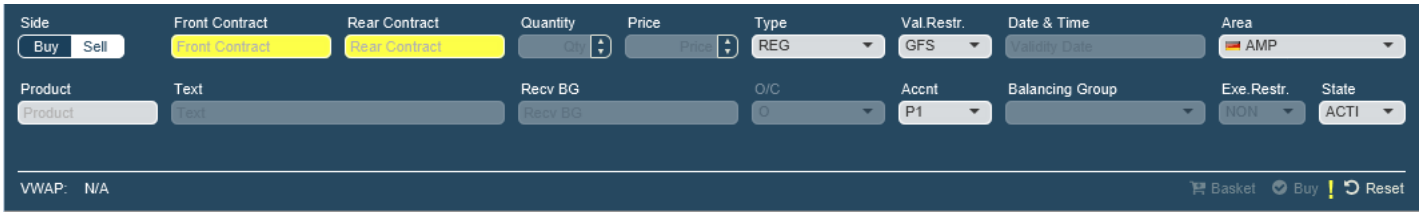

The *Block Order Entry Horizontal* panel is used to enter or modify block orders. The block orders entered using this panel are displayed in the Market Overview (User Defined Delivery Period) panel.

Except for several fields, this panel is identical to the Order Entry Horizontal panel, which is described in *Order Entry Advanced Horizontal*. Therefore, only the differences to panel Order Entry Horizontal are described in the current chapter.

The system behaviour and validations applied to the panel are identical to those, which are applied to the Order Entry Horizontal / Vertical panel.

5.8.2 Block Order Entry Field Description

Please be aware that following table contains only the fields, which are not mentioned in *Order Entry Advanced Horizontal*.

Field Name	Description
Product	The product referenced by block contracts. Block contracts are created / determined based on the selection of front and rear contracts. The selected product restricts the number of available contracts for the front and rear contract.
Front Contract	The delivery start of the front contract represents the delivery start of the block contracts. The selected front contract restricts the number of available contracts for the rear contract. It also restricts the number of available products in the Product field.
Rear Contract	The delivery end of the rear contract represents the delivery end of the block contracts.

In comparison to the *Order Entry Horizontal* Panel, the following fields are not available in the *Block Order Entry Horizontal* Panel:

Field Name	Description
Contract	An identifier for the traded contract.
Peak	The peak quantity of an iceberg order.
Delta	The optional price parameter of an iceberg order which changes the price of each next slice when entered: decreasing buy and increasing sell prices of the iceberg slices

5.9 Block Order Entry Vertical

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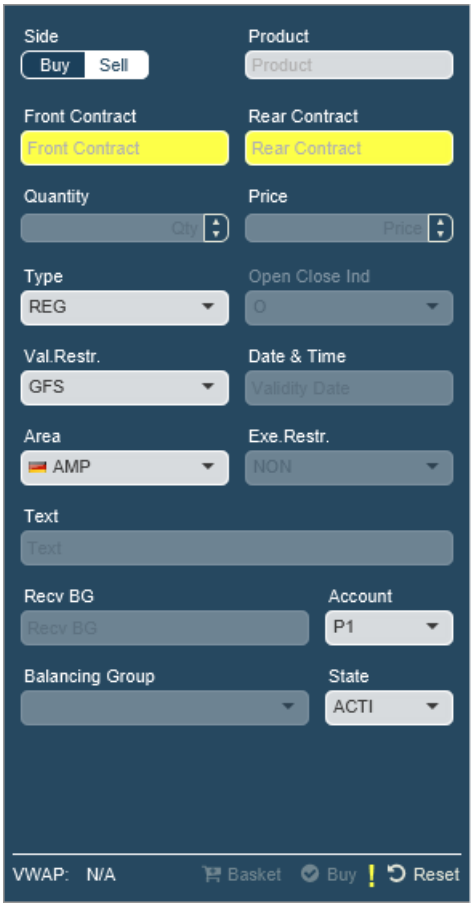
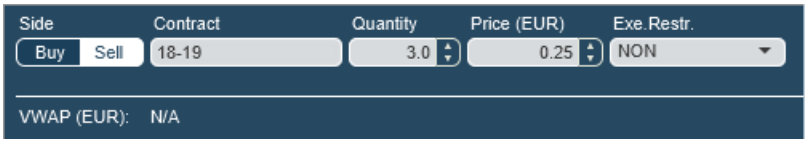


Except for the vertical arrangement of fields, the *Block Order Entry Vertical* panel is functionally identical to the *Block Order Entry Horizontal* panel described in *Order Entry Simple*.



The Order Entry Simple panel is used for quick order entry. It contains only the mandatory fields of the Order Entry Advanced Horizontal panel (product, contract, quantity and the price limit of the order). All of the other fields are filled by default values (for more details please refer to *Order Preferences* of the ComTrader Settings).

5.10 Own Trade

5.10.1 General Description

The *Own Trade* panel displays all trades created by the logged in trader, as well as other traders of the same balancing group.

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UsrCode	UsrName	Area	B/S	Ctrct	Qty	Prc	State	P/		Phas	TradeID	OrdrID	E:
TRD003	TM003-BG1	Demo	S	11Q3	1.0	0.01	ACTI	P	O	CONT	1010	2033	15.01.2
TRD003	TM003-BG1	Demo	S	11Q4	1.0	0.01	ACTI	P	O	CONT	1009	2032	15.01.2
TRD003	TM003-BG1	Demo	B	16Q1	19.0	1.20	ACTI	P	O	CONT	1008	2031	15.01.2
TRD003	TM003-BG1	Demo	S	15Q4	13.0	0.00	ACTI	P	O	CONT	1007	2030	15.01.2
TRD003	TM003-BG1	Demo	B	15Q2	19.0	1.80	ACTI	P	O	CONT	1006	2029	15.01.2
TRD003	TM003-BG1	Demo	S	14Q3	8.0	0.70	ACTI	P	O	CONT	1005	2028	15.01.2

5.10.2 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns might be available:

Column Title	Name	Description
UsrCode	User Code	User code of the user performing the last successful action on the order which was matched in the trade. The bold text in the column User is used whenever a displayed user is the same as the logged in user. Note that when trading on behalf, the bold text is applied to the on-behalf user (i.e. if user1 acts on behalf of user2, then the bold text is applied for the user2).
Area	Area	Area of the order which was matched in the trade.
B/S	Side	Side of the order which was matched in the trade. The background colour of the Order Side column is the same as the background colour of the Order Entry panel as described in *Order Entry Advanced Horizontal*, i.e. red for sell and blue for buy side. In addition, the sell side has a red arrow pointing downwards towards the right is positioned to the left of the "S". In the case of the buy side, there is a green arrow pointing upwards towards the right is positioned on the right hand side of the displayed "B"
Ctrct	Contract	Traded contract.
TmZn	Time Zone	Time zone identifier of the time zone that the product is operated in. **Valid values:** CET - Central European Time (Central European Summer Time) Europe/London - Greenwich Mean Time (British Summer Time)
Cur	Currency	Trade currency.
Qty	Quantity	Traded quantity.
Prc	Price	Trade price.
State	Status	Status of the trade. **Valid values:** ACTIVE - Trade has not been recalled (reversed). RECALL_REQUESTED - A recall has been requested for the trade. RECALL_REJECTED - A recall has been rejected for the trade.
Accnt	Account	Account type of the order that was matched in the trade. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).

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Column Title	Name	Description
P/O	Trade Type	Trade type. **Valid values:** P – Pre-arranged trade (OTC) O – Open Trade
Phase	Phase	Parameter reflecting the trading phase in which the trade has been executed. **Valid values:** CONT - execution in continuous trading BALA - execution in balancing phase AUCT - execution in auction SDAT - execution in same delivery area trading (matching of orders is possible only within the same delivery area)
TradeID	Trade ID	Unique identifier for each trade. In XBID-connected environments, remote trades and LTS trades share the trade ID sequence. Therefore, a gap in LTS trade IDs may occur.
OrdrID	Order ID	Order id of the order that was matched in the trade.
ParentTradeID	Parent Trade ID	The trade ID of the Master Trade (the undecomposed trade invoked by the child product order) which is only displayed for Decomposed Trades (related to the base product). The field is empty for Master Trades. For more details please refer to examples below.
Exe Time	Execution Time	Trade execution time.
AggrInd	Aggressor Indicator	Indicates whether the executed order acted as a trade originator or trade aggressor, or the value is unknown. **Valid values:** Y - The trade is an aggressor (caused by the order which was matched immediately). N - The trade is an originator (caused by the order which was added in the orderbook and matched with another entered order). U - The trade Aggressor indicator is unknown (i.e. for remote products which are not created and maintained in the M7 instance).
Text	Text	Text field of the order that was matched in the trade.
Product	Product	Product of the traded contract.
MbrID	Member ID	Member id of the order owner that was matched in the trade.
TA	Trading Account	Trading Account for which the trade was executed.
COrdr ID	Client Order ID	Client order id of the order that was matched in the trade.
UsrName	User Name	The name of the user.
LCtrct	Long Contract Name	Long name of the contract.
MbrName	Member Name	The Member name.
CA	Clearing Account	The clearing account of the trade.

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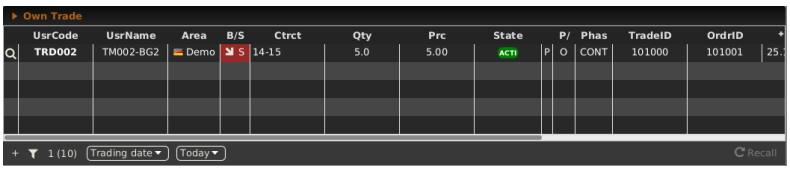
Column Title	Name	Description
StlmntState	Settlement State.	The settlement state of a trade. Configurable – for some markets the state is not displayed to the traders. In case for an exchange only a subset of the market (i.e. one or more delivery areas) are configured to be cleared by the clearing house, only trades with at least one side belonging to such delivery area(s) will be changing the state till ACKN/INFO. Trades executed outside the configured market subset will remain in the state INIT. **Valid values:** INIT - The initial status of a trade before being processed. SNDG – Trade has been received and stored by MTT. SENT - Trade was submitted for post-trade management. ACKN - Trade information was received by the settlement system. INFO - Additional information was received by the settlement system.
StlmntInfo	Settlement Info	Settlement Information for the trade, which has been received from settlement system – usually when some error or issue happens.
	Trade Decomposed	If Cross Product Matching was performed or a trade was decomposed (for more details please refer to examples below), then the corresponding row of the trade contains a magnifier icon.  When clicking on the magnifier, the popup window with information about base contracts is opened. The same columns as selected in the All Trades panel are shown together with two additional items: BO/C – Buy Open/Close indicator SO/C – Sell Open/Close indicator
Self	Self-Trade	Provides Information on whether a trade is a self-trade - Trade belongs to one balancing group, or - Trade belongs to two different balancing groups within one member
Recall Req	Recall requestor	Member id of the recall requestor. Visible for admin (always) and for user only if user belongs to same balancing group as user who requested recall.

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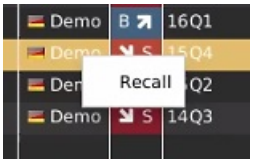
Column Title	Name	Description
Loc	Location	Information about the Location of the trade. The value displayed in this field is taken from the BUY side of the trade. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.

Example: Cross Product Matching
Assuming that Cross Product Matching is enabled on the backend side for 60 minute products with a base 15 minutes product. Trader 1 creates the following four buy orders: **Order 1:** BUY, quantity: 5, price: 5, contract 15Q1 **Order 2:** BUY, quantity: 5, price: 5, contract 15Q2 **Order 3:** BUY, quantity: 5, price: 5, contract 15Q3 **Order 4:** BUY, quantity: 5, price: 5, contract 15Q4 Trader 2 creates a sell order for contract 15-16 with a quantity of 5 and a price of 5. The Own Trade panel contains one 15-16 contract trade with a magnifier button in the Decomposed Trades column for the second trader. The popup window triggered by the magnifier button click contains four trades which have been matched with 15 minute and 60 minute contracts. The Own Trade panel of the first trader contains four trades (i.e. 15Q1, 15Q2, 15Q3 and 15Q4). If the base product (e.g. 15 minutes) orders are not created with the same price, the child product (i.e. 60 minutes) order is matched with the average price.

Example: Trade Decomposition
Assuming that Trade decomposition is enabled on the backend side for 60 minute products with a base 15 minute product. Trader 1 creates a buy order for contract 15-16 with a quantity of 5 and a price of 5. Trader 2 creates a sell order for contract 15-16 with a quantity of 5 and a price of 5. The Own Trades panel contains one 15-16 contract trade for each trader with a magnifier button in the Decomposed Trades column. The popup window triggered by the magnifier button click contains four trades corresponding to the base 15 minutes contracts, i.e. 15Q1, 15Q2, 15Q3 and 15Q4.

5.10.3 Recall

When right clicking on a trade in the main table, a context menu with the recall option is opened:



When clicking on the recall option, the following pop-up window is shown.

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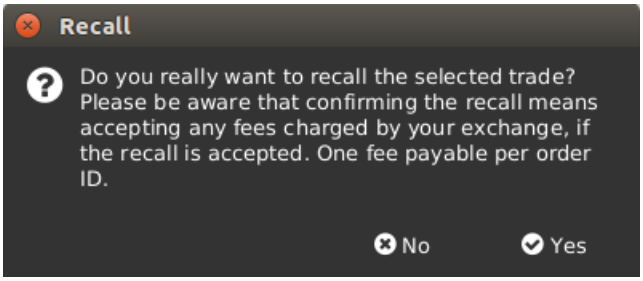
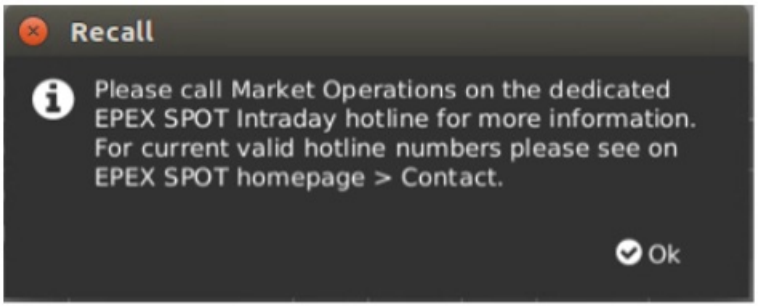
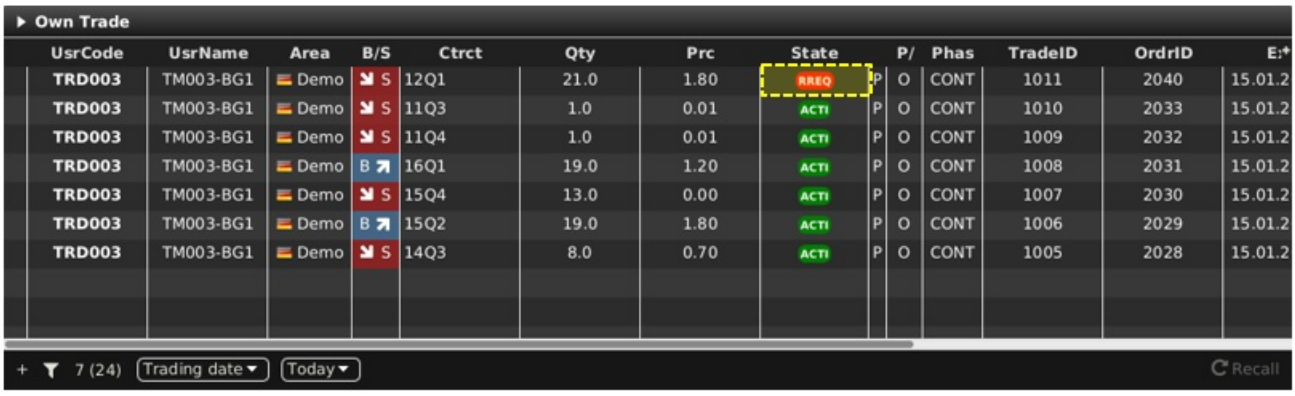


The request recall is not forwarded to market operations if the “No” button is clicked. If the “Yes” button is clicked, the recall request is forwarded to market operations and a pop-up message is shown to the trader. The text may differ depending on the exchange that ComTrader is currently connected to.

If multiple rows are selected before the right click, the recall request will be sent for all the selected trades. In such case, pop-up windows will also be displayed for all the selected trades.



Whilst the recall request is pending, a message “Recall request sent for trade id: *TradeId*”, private message type “Recall request trade: *contract – quantity* for *price*” and a public “Recall request trade: *contract"* are shown in the message panel. The trade status”RECALL_REQUESTED" is displayed in the Own Trade panel:



If a recall request has been rejected, the trade status is changed to “RECALL_REJECTED”:

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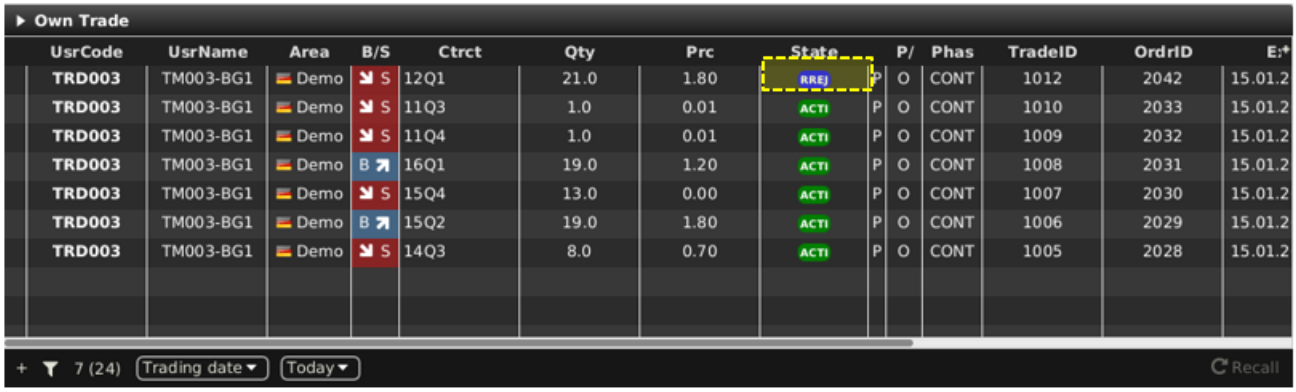
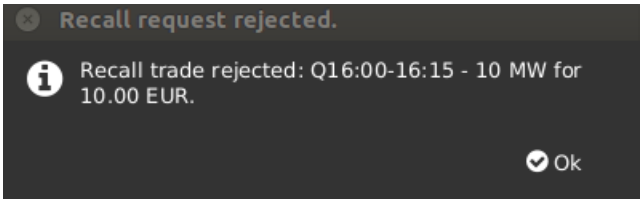
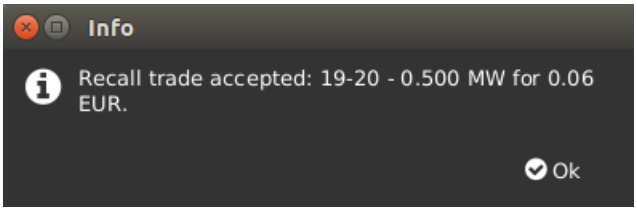


In addition, a private message “Recall trade rejected: *contract* – *quantity* for *price*.” and the public message “Recall trade rejected: *contract* – *quantity*” are displayed in the Message panel. The following pop-up window is also shown to the initiator of the trade recall as well as to the trade counterparty.



A trade for which a recall request has been granted will be removed from the Own Trade panel. The following pop-up window is shown to the initiator of the trade recall as well as to the trade counterparty.



If the trade recall request was accepted, the private message “Recall trade accepted: *contract* – *quantity* for *price*.”and the public message “Recall trade accepted: *contract* – *quantity*” are displayed in the Message panel.

When requesting the recall, M7 Trading checks if the recall request has not been sent later than a configurable time limit after trade execution (by default set to 5 minutes), or if the recall request has not been sent later than in a configurable time period to the contract closure (by default set to 15 minutes). If one of these two checks failed, an Error Response is sent to the user’s broadcast queue and the message will be displayed in the Message panel.

If the additional pop-up information is enabled in the application properties, ComTrader will also display one of the three possible information dialogues.

When trade delivery/contract closure is too close for one or more trades:

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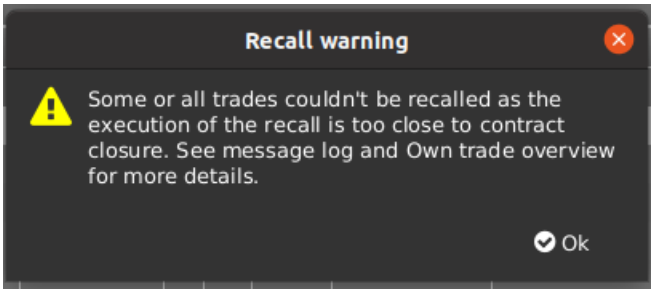
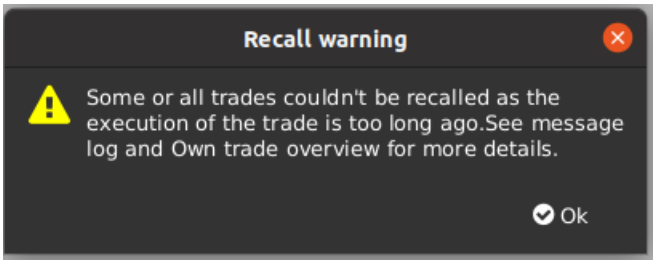
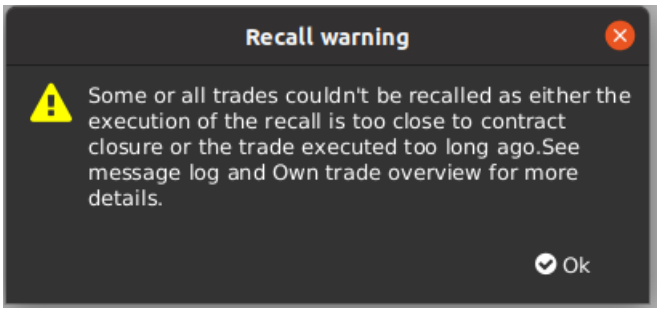


When the recall request for one or more trades was sent later than the allowed limit after the execution of the trade:



When both conditions were violated by different recall requests:



5.10.4 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.

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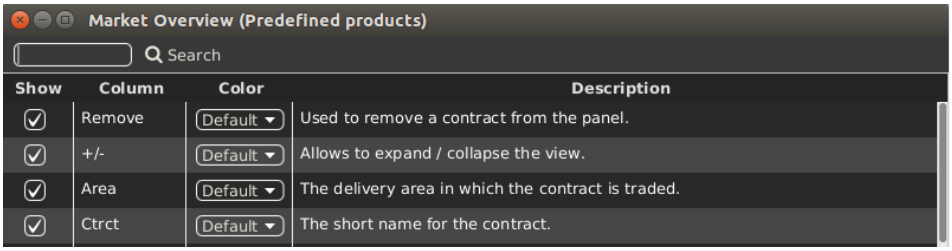
Feature	Description
Search Column	To make the selection of columns easier, a Search field can be used which is located at the top. In order to filter the columns, a users enters the desired string into the Search field and clicks the magnifying glass icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).
Dynamic Filters	Clicking on the funnel symbol ( ) in the lower left corner of the panel will allow the user to create a custom filter to the panel as described in *Dynamic Filters*.
Entry Count	 Turns on or off the display of the number of entries in the table. If not all of entries are displayed, the total number is shown in brackets “()”.
Trading- / Delivery – Day Filter	 The filter type selection allows the user to set the type of the applied filter. **Valid Values are:** Trading Date – Only trades that were executed on the selected day(s) are displayed. Delivery Date – Only trades which contracts are delivered on the selected day(s) are displayed.

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Feature	Description
Day(s) selection	 The day-filter selection allows to set the day(s) for which trades should be displayed. The selection depends on the “Trading- / Delivery-Day” filter described above. **Valid Values are:** **Today** – The current system date. **Tomorrow** – The next day after the current system date. **T-1 to T-X** – The past X days before the current system date. Selecting one of these values will include all days between the selected values and the end of the current system date (so will include today). The maximum number of days that can be used as X in the dynamic filters can be parameterized using the system parameter *contractStoreTimeInDays*. Example: T-3 refers to the period between today and three days ago (today included).
Decomposed Trades	 If the Decomposed Trades checkbox is checked, all Decomposed Trades are displayed in the Own Trades panel, otherwise Decomposed Trades are only displayed when clicking the magnifier button in the Decomposed Trades column.
Recall	 Requests a recall for the selected trade. The action must be confirmed in a popup window.

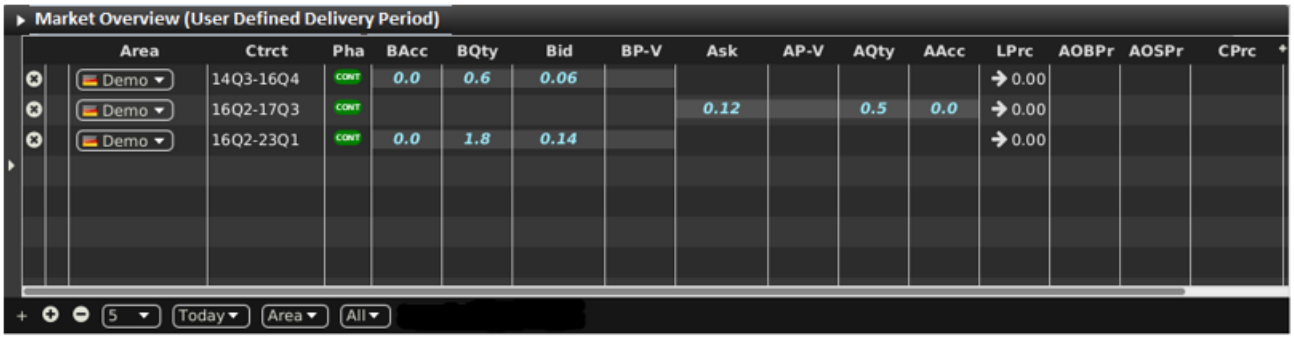
5.10.5 Export

The content of the panel can be exported as described in *Panel Export*.

5.11 Market Overview (User Defined Delivery Period)

5.11.1 General Description

The *Market Overview (User Defined Delivery Period)* panel provides an overview of the currently active orders entered for user-defined contracts.



For each displayed contract, the attributes of the active orders are displayed in the columns of the panel's main table.

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5.11.2 Adding and Removing Contracts

Contracts can be added by using the built-in instrument navigator (see *Built-in Instrument Navigator*) or by dragging contracts from a standalone instrument panel (see *Instruments*

and dropping them into the main table of the Market Overview (Predefined products) panel.

Contracts can be removed by clicking on the cross-icon ( ) in each contract row or by deactivating the checkbox next to the contract's product in the built-in instrument navigator.

Only products that are enabled for block trading can be added to the Market Overview (User Defined Delivery Period) panel.

5.11.3 Order Book Sorting

The sorting of orders for each contract is based on the Bid/Ask limit of the orders as described in *Display of Order Book Data*.

5.11.4 Non-Aggregated Order Quantities

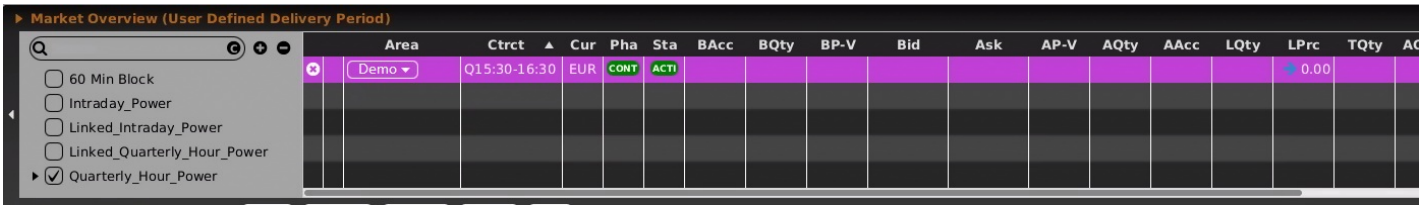
In contrast to the Market Overview (Predefined products) panel, all orders in this panel are listed in a separate price row, determined by the Bid/Ask price of the order.

5.11.5 Ownership based Order Display

The font of the order data displayed in the main table is dependent on the order owner as described in *Ownership based Order Display*, i.e. individual user, user group or other member.

5.11.6 Contract closure alert

If contract closure alert is configured for a product, impacted contracts (contracts close to closure) are highlighted as configured. For details, see *Contract closure* chapter.



5.11.7 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns could be available:

Column Title	Name	Description
Remove	Remove	Clicking on the cross-symbol ( ) will remove the current contract from the panel.

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Column Title	Name	Description
+/-	Expand / Collapse	If at least two active orders for the same contract but different order limits exist, the expand ( ) and collapse ( ) buttons are displayed in the column "+/-". The column title is not displayed in the Market Overview (Predefined products) panel, except in the column selector menu (see *Customisation Column Window*). The *expand* symbol is displayed if the contract is collapsed (only displayed with a market depth of 1), whilst a *collapse* symbol is displayed if the contract is expanded with the market depth specified in the market depth selector (see *Customisation and Filters*). Clicking on the *expand* button ( ), will expand the current contract to the selected market depth. Clicking on the *collapse* button, will collapse the current contract to a market depth of 1.
Area	Area	The delivery area in which the contract is traded
Ctrct	Contract	A short name for the contract
Cur	Currency	The currency for displayed contracts.
Time Zone	TimeZone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
Phase	Trade Phase	The contract trading phase. **Valid values:** CONT - Continuous Trading BALA - Balancing Phase AUCT - Auction CLSD - Closed SDAT - Same Delivery Area Trading (matching of orders is possible only within the same delivery area)
State	State	The contract status. Valid values: **HIBE** - the contract is deactivated by market operations. **IACT** - the contract is inactive and not available for trading. **ACTI** - the contract is active and available for trading. **STBY** - the contract is waiting for an external event to become available for trading.
BAcc	Bid Accumulated Quantity	The aggregated quantity of all buy orders at or above the corresponding price level
BQty	Bid Quantity	The quantity of the buy order.
Bid	Bid	The limit price at the corresponding price level on the buy side
H-BVWA	Bid Volume Weighted Average	The *volume weighted average* price for the order quantity (BQty) in the predefined market as displayed in the Market Overview (Predefined products) panel.
Ask	Ask	The limit price at the corresponding price level on the sell side
H-AVWA	Ask Volume Weighted Average	The *volume weighted average* price for the order quantity (AQty) in the predefined market as displayed in the Market Overview (Predefined products) panel.
AQty	Ask Quantity	The quantity of the sell order.
AAcc	Ask Accumulated Quantity	The aggregated quantity of all sell orders at or below the corresponding price level

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Column Title	Name	Description
LPrc	Last Price	The price of the last trade in the corresponding contract
LQty	Last Quantity	The quantity of the last trade in the corresponding contract
TQty	Total Traded Quantity	Total quantity of individual orders that were matched in a trade on selected contract and delivery area. If the trade is created from 2 orders on the same delivery area, then TQty includes quantity of both orders. For remote trades TQty is provided by XBID.
AOBPrc	Average Own Purchase Price	The volume weighted buy price of the last 5 days for the current member.
AOSPrc	Average Own Sell Price	The volume weighted sell price of the last 5 days for the current member.
CPrc	Closing Price	The last closing price of the selected contract.
AucPrc	Auction Price	The price determined during the auction phase of the contract.
Surplus	Surplus	Surplus of an auction.
Details	Details	The column contains a magnifying glass ( ) button for each contract. Clicking on the button will either: - Display details about the contract in an Order Book Details (*Order Book Details*) and *Chart* panel (see *Chart*) of the same trading board. - Open a floating Order Book Details panel (see *Floating Order Book Details Panel*) with information about the current contract, if neither an Order Book Details panel or Chart *panel* is part of the same trading board as the Market Overview (Predefined products) panel.
separator 1	Separator	Customizable separator columns which can be moved, resized or coloured

5.11.8 Customisation and Filters

In addition to the selection of products and contracts, a user can customise various other aspects of the Market Overview (User Defined Delivery Period) panel. All parameters described below are saved when clicking the "Save Profile" button (see *Menus*).

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted by the values in the columns *Area* or *Ctrct* as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour.*
Set one Contract Area	The "Area" for each displayed contract can be changed by clicking on the selection list in the column "Area".
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).

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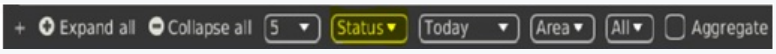
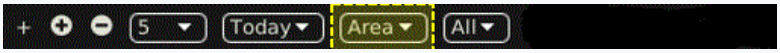
Feature	Description
Expanding all Contracts	 Clicking on the button will expand all displayed contracts in the panel. All contracts are now displayed with the selected market depth.
Collapsing all Contracts	 Clicking on this button will collapse all displayed contracts in the panel. All contracts are now displayed with a market depth of "1".
Market Depth	 The selected market depth determines how many price steps are displayed for each contract in the panel.
Status	 Only contracts with the selected status are displayed.
Delivery-Day	 Determines the display of contracts in the panel based on their delivery date. **Valid values:** **Today** - Only contracts that are starting delivery today are displayed. **Tomorrow** - Only contracts that are starting delivery tomorrow are displayed. **All** - Contracts are displayed independent of the delivery date.
Set all Contract Areas	 Selecting an area in the list will immediately switch the area value for all contracts in the panel (that are tradable in the new area) to the newly selected area.

5.11.9 Order Entry Support

Instead of entering the entire data when entering a new order manually in the Order Entry panel, a user can pre-fill an Order Entry panel with values by clicking on specific locations in the market as described in *Order Entry Support*.

5.11.10 Export

The panel content can be exported in a .csv file or copied to the system clipboard as described in *Panel Export*.

5.12 Order Book Details

5.12.1 General Description

The *Order Book Details* panel provides an explicit (meaning non aggregated, see *Non-Aggregated Order Quantities*) overview of

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currently active orders entered for **exactly one contract**, whilst the Market Details panel offers the same view for **more than one contract**.

The attributes of active orders are displayed in the columns of the panel's main table as described in *Display of Order Book Data*.

Contract information is only displayed when clicking the magnifying glass symbol ( ) in either the Market Overview (Predefined products) panel, see *Market Overview (Predefined products)* or *Market Overview (User Defined Delivery Period)* .

The title row of the panel contains some additional information:

Information	Description
Area	An area selector for the current contract. Changing the area will display order book information for the newly selected area.
Contract (Time Zone)	The selected contract. Time zone identifier of the time zone the contract is operated in is displayed in parenthesis. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
Hi/Low Price	The highest and lowest price of all trades executed for this contract.
Last Trade	The quantity and price of the last trade with the syntax: [quantity] @ [price] The arrow symbol indicates if the price of the last trade was either: higher, lower or equal to the previous trade. **Valid values:** The last trade had a higher price than the previous trade. The last trade had the same price as the previous trade. The last trade had a lower price than the previous trade.
Closing Price	The last closing price.

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Information	Description
Surplus	Surplus of an auction. The Bid surplus is displayed as a positive number and the ask surplus as negative number.
Contract Phase	The contract trading phase. **Valid values:** CONT - Continuous Trading BALA - Balancing Phase AUCT - Auction CLSD - Closed SDAT - Same Delivery Area Trading (matching of orders is possible only within the same delivery area)

5.12.2 Order Book Sorting

The sorting of the orders for each contract is based on the Bid/Ask limit of the orders as described in *Display of Order Book Data*.

5.12.3 Non-Aggregated Order Quantities

Each order in this panel is listed in a separate row, determined by the Bid/Ask price of the order.

5.12.4 Ownership based Order Display

The font of the order data displayed in the main table is dependent on the order owner, as described in *Ownership based Order Display*.

5.12.5 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns could be available:

Column Title	Name	Description
VWAP (left)	Bid-Volume Weighted Average Price	The volume weighted average price at the bid accumulated quantity (see column*Acc (left)*).
Acc (left)	Bid Accumulated Quantity	The aggregated quantity of all buy orders with an equal or higher price.
Qty (left)	Bid Quantity	The quantity of the buy order.
Bid	Bid Price	The price of the buy order.
Ask	Ask Price	The price of the sell order.
Qty (right)	Ask Quantity	The quantity of the sell order.
Acc (right)	Ask Accumulated Quantity	The aggregated quantity of all sell orders with an equal or lower price.
VWAP (right)	Ask-Volume Weighted Average Price	The volume weighted average price at the ask accumulated quantity (see column*Acc (right)*).

5.12.6 Customisation and Filters

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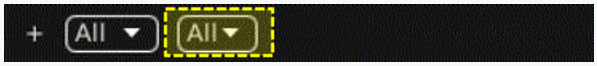
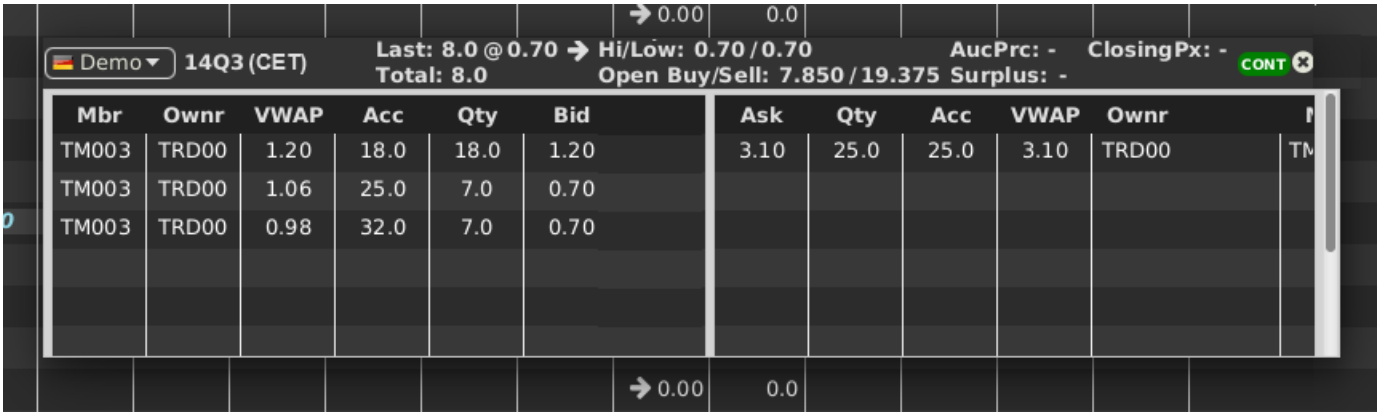
In addition to the selection of products and contracts, a user can customise various other aspects of the panel. All parameters described below are saved when clicking the "Save Profile" button (see *Menus*). The appearance of some items might depend on the configuration of the connected exchange.

Feature	Description
Set one Contract Area	 The "Area" for each displayed contract can be changed by clicking on the selection list in the column "Area" column.
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and the availability of functions on the bottom bar (see *Customize Bottom Bar*).
Market Depth	 The selected market depth determines the maximum amount of orders displayed for each contract in the panel.
Order Type	 Determines the type of orders which are displayed. **Valid values:** **All** - All orders are displayed.

5.12.7 Order Entry Support

Instead of entering the entire data when entering a new order manually in the Order Entry panel, a user can pre-fill an Order Entry panel with values by clicking on specific locations in the market as described in *Order Entry Support*.

5.12.8 Floating Order Book Details Panel



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If no order book detail panel is part of the same trading board when the magnifying glass symbol ( ) is clicked, a floating version of the Order Book Details panel is opened.

The floating panel displays the same information as the panel that can be added to a trading board. It can be moved by left clicking on the title and dragging the panel to a new position and closed by clicking on the cross symbol in the upper right corner:

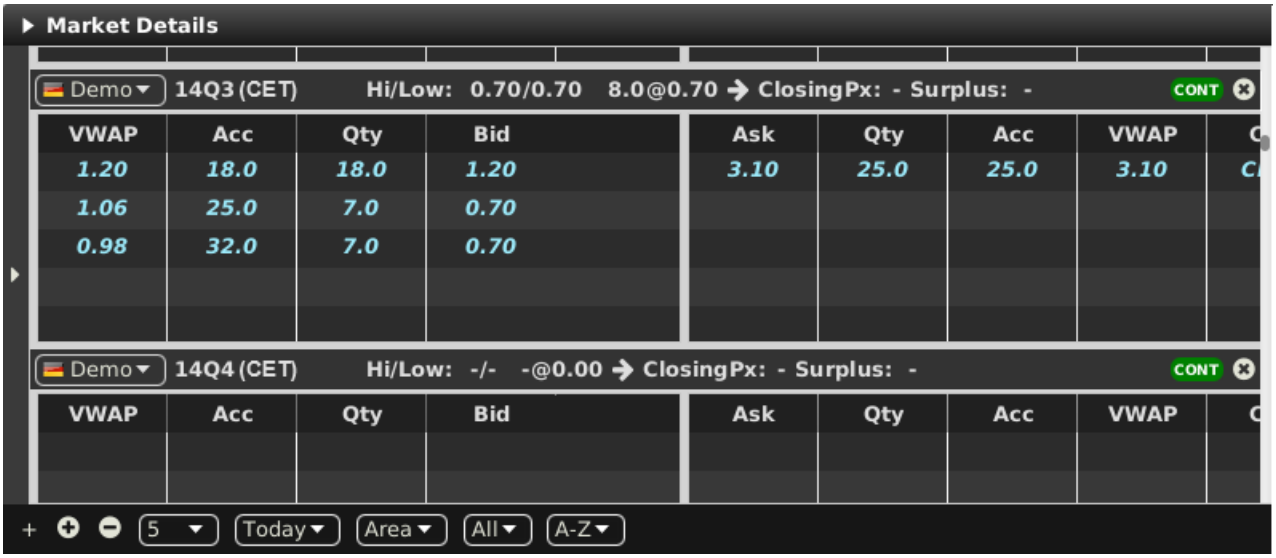
5.12.9 Export

The panel content can be exported in a .csv file or copied to the system clipboard as described in *Panel Export*, whilst the items *Export All to CSV File* and *Copy All (Excel)* are not available for this panel.

5.13 Market Details

5.13.1 General Description

The *Market Details* panel provides an explicit (non-aggregated, see *Non-Aggregated Order Quantities*) overview of the order book of one or more contracts.



For each displayed contract, the attributes of active orders are displayed in the columns of the panel's main table as described in *Display of Order Book Data*.

Each displayed contract features a title row where additional information is displayed:

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Information	Description
Area	An area selector for the current contract. Changing the area will display order book information for the newly selected area.
Contract (Time Zone)	The selected contract. Time zone identifier of the time zone the contract is operated in is displayed in parenthesis. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
Hi/Low Price	The highest and lowest price of all trades executed for this contract.
Last Trade	The quantity and price of the last trade with the syntax: [quantity] @ [price] The arrow symbol indicates if the price of the last trade was either: higher, lower or equal to the previous trade. **Valid values:** - The last trade had a higher price than the previous trade. - The last trade had the same price as the previous trade. - The last trade had a lower price than the previous trade.
ClosingPx:	The official closing price of the selected contract, which can be: - a price calculated by and received from an external entity (e.g. Reuters) - an average price calculated out of several closing prices from external trading venues (i.e. an instrument is traded on n different market places; the closing price is calculated based on the closing prices of those market places). - a price entered via the Web admin GUI by an Admin user. The closing price updates are also reported together with the relevant date in the Message panel (see *Message*).
Surplus	Surplus of an auction. The bid surplus is displayed as a positive number and the ask surplus as negative number.
Phase	The contract trading phase. **Valid values:** CONT - Continuous Trading BALA - Balancing Phase AUCT - Auction CLSD - Closed SDAT - Same Delivery Area Trading (the matching of orders is possible only within the same delivery area)

5.13.2 Adding and Removing Contracts

Contracts can be added and removed by using the instrument navigator, as described in *Built-in Instrument Navigator*.

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Contract can also be removed by clicking on the cross-icon ( ) in each contract row.

5.13.3 Order Book Sorting

The sorting of orders for each contract is based on the Bid/Ask limit of orders as described in *Display of Order Book Data*.

5.13.4 Non-Aggregated Order Quantities

Each order in this panel is listed in a separate row determined by the Bid/Ask price of the order.

5.13.5 Ownership based Order Display

The font of the order data displayed in the main table is dependent on the order owner as described in *Ownership based Order Display*.

5.13.6 Column Description

Column Title	Name	Description
VWAP (left)	Bid-Volume Weighted Average Price	The volume weighted average price at the bid accumulated quantity (see column *Acc (left)*).
Acc (left)	Bid Accumulated Quantity	The aggregated quantity of all buy orders with an equal or higher price.
Qty (left)	Bid Quantity	The quantity of the buy order.
Bid	Bid Price	The price of the buy order.
Ask	Ask Price	The price of the sell order.
Qty (right)	Ask Quantity	The quantity of the sell order.
Acc (right)	Ask Accumulated Quantity	The aggregated quantity of all sell orders with an equal or lower price.
VWAP (right)	Ask-Volume Weighted Average Price	The volume weighted average price at the bid accumulated quantity (see column *Acc (right)*).

5.13.7 Customisation and Filters

In addition to the selection of products and contracts, a user can customise various other aspects of the panel. All parameters described below are saved when clicking the "Save Profile" button (see *2.4.4 Menus*). The appearance of some items might

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depend on the configuration of the connected exchange.

Feature	Description
Set one Contract Area	The "Area" for each displayed contract can be changed by clicking on the selection list in the column "Area" column.
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (*Customize Bottom Bar*).
Expanding all Contracts	 Clicking on the button will expand all of the displayed contracts in the panel. All contracts are now displayed with the selected market depth.
Collapsing all Contracts	 Clicking on this button will collapse all of the displayed contracts in the panel. Only the title row will be displayed for collapsed contracts in the Market Details panel.
Market Depth	 The selected market depth determines the maximum amount of orders displayed for each contract in the panel.
Delivery-Day	 Determines the display of the contracts in the panel based on their delivery date. **Valid values:** **Today** - Only contracts that are starting delivery today are displayed. **Tomorrow** - Only contracts that are starting delivery tomorrow are displayed. **All** - Contracts are displayed independent of delivery date.
Set all Contract Areas	 Selecting an area in the list will immediately switch the area value for all contracts in the panel (that are tradable in the new area) to the newly selected area.

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Feature	Description
Order Type	 Determines the type of orders which are displayed. **Valid values:** **All** - All orders are displayed.
Sorting of Displayed Contracts	 Defines the sorting of the displayed contracts. **Valid values:** **A-Z** - The contracts are sorted alphabetically, starting with A. **D** - The contracts are sorted by their delivery start, earlier first. **D** - The contracts are sorted by their delivery end, earlier first.

5.13.8 Order Entry Support

Instead of entering the entire data when entering a new order manually in the Order Entry panel, a user can pre-fill an Order Entry panel with values by clicking on specific locations in the market as described in *Order Entry Support*.

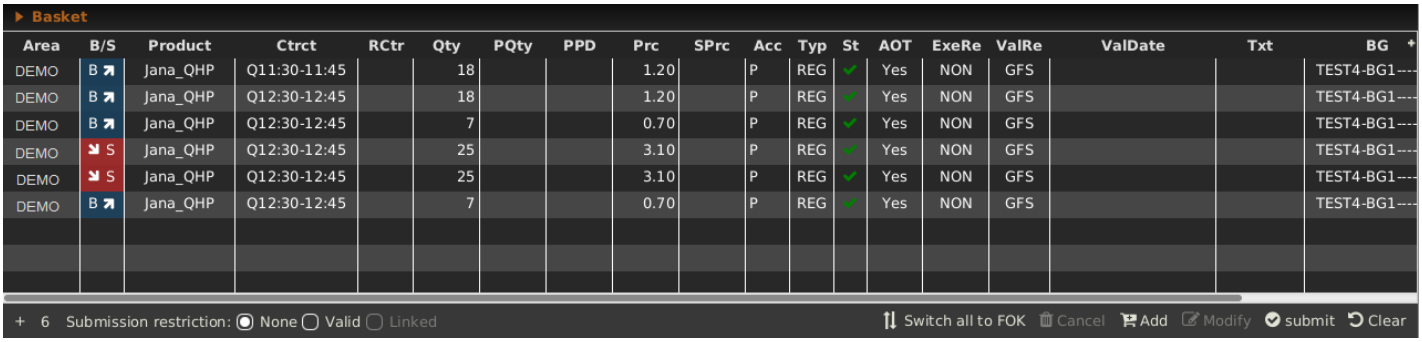
5.13.9 Export

The panel content can be exported in a .csv file or copied to the system clipboard as described in *Panel Export*, whilst the items *Export All to CSV File* and *Copy All (Excel)* are not available for this panel.

5.14 Basket

5.14.1 General Description

The *Basket* panel enables the entry of several orders at once into the system. The sum of the orders which are currently displayed in the Basket panel is referred to as *basket*. A basket can be submitted with a joined *submission restriction* which is valid for all orders inside the basket.



5.14.2 Submission Restrictions

The submission restriction can be selected in the lower left of the Basket panel:

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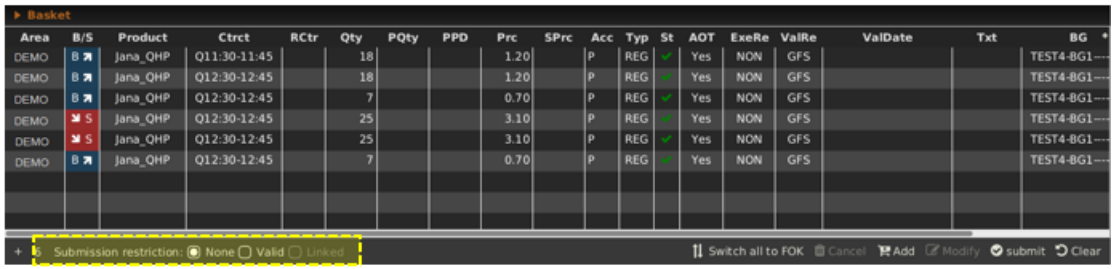


All orders in the panel are submitted with one of the following joined submission restrictions:

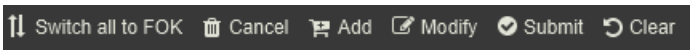
None	Orders in the basket are treated as independent orders. An invalid order (e.g. an order submitted on an expired contract) will ***not*** lead to the rejection of the complete basket.
Valid	All orders in the basket will be validated before they are submitted to the system. The orders must be entered either for local products, or all for remote products (a combination of remote and local orders is not allowed). If one order is invalid (e.g. an order submitted on an expired contract), no order of the basket will be submitted. The VALID restriction is selectable only if all orders contained in the basket are submitted to only one exchange otherwise the checkbox will be deselected and disabled.
Linked	Either all orders can be executed, or no order will be executed. A basket can only be submitted with this submission restriction if it contains only orders with the execution restriction FOK and if all orders were entered for the same exchange.

5.14.3 Adding Orders to the Basket

Orders can be added to the basket in the following ways:

- Drag & drop orders from the Own Orders panel to the Basket panel. As basket orders do not have a status, orders that were deactivated in the Own Orders panel will be submitted as active orders when the basket is submitted.
- Using the Order Entry panel by pressing the *Basket* button or the keyboard shortcut **Shift + Enter** (see *Order Entry Advanced Horizontal*).
- Drag & drop orders from the Market Details panel to the Basket panel. In this case an order with the opposite side but the same contract, area (as set in Market Details panel), quantity and price would be added to the basket.
- Drag & drop orders from the Order Book Details panel to the Basket panel. Like for the Market Details panel, a matching order would be added to the basket.
- Import orders using the file import functionality (see *File Import*).
- Copy & paste one or more orders from Microsoft Excel (see *Paste*).
- Using the Floating Order Entry panel by pressing the Add button in *Basket* panel (see *Basket Actions*).

5.14.4 Basket Actions



A user can perform an order action for existing orders by selecting one or more orders (depending on the action) and clicking an order action button. More than one order can be selected by holding the ctrl key and left clicking on multiple orders. Some actions are also available in a context menu when right clicking on an order in the panel:

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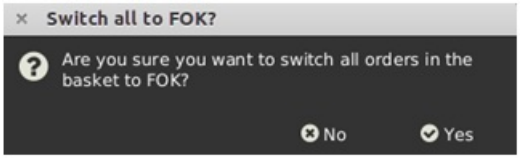
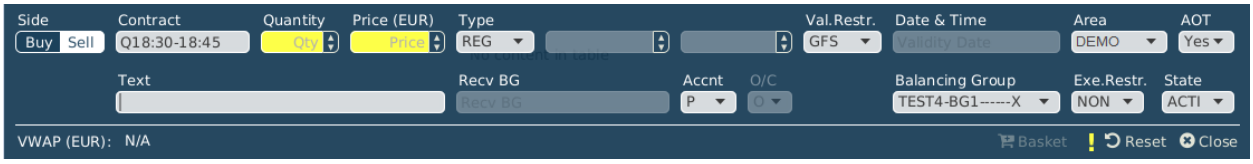
Action Name	Description
Switch all to FOK	All orders in the basket will be switched to the execution restriction “FOK”. The action must be confirmed in the following confirmation dialogue:  When switching to the execution restriction “FOK”, the AOT flag will be automatically set to “No” for all orders.
Cancel (also in context menu)	Deletes all selected orders.
Add	Opens a floating Order Entry panel to add a new order to the basket:  The Order Entry panel does not have an ordinary submit button, but only the “basket” button to submit orders into the basket. The AOT flag is displayed only if the order is being added for a remote product for which AOT is enabled.
Modify (also in context menu)	Opens a floating order modification panel: The AOT flag is displayed only if the order is being modified for a remote product for which AOT is enabled.
Submit	Submits all orders of the basket (not only the selected ones) to the system. Keyboard shortcuts: AltGr + Enter or Ctrl + Alt + Enter
Clear	Removes all orders from the basket.

5.14.5 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns could be available:

Column Title	Name	Description
Area	Area	The area for which the order has been entered,

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Column Title	Name	Description
B/S	Order Side	The order side. Background colour of the Order Side column is the same as the background colour of the Order Entry panel as described in *Order Entry Advanced Horizontal* i.e. red for sell and blue for buy side. In addition, the sell side has a red arrow pointing downwards towards the right positioned to the left of the "S". In the case of the buy side, there is a green arrow pointing upwards towards the right positioned on the right hand side of the displayed "B". **Valid values:** B - Buy S - Sell
Ctrct	Contract	The traded contract.
RCtrct	Rear contract	The traded rear contract (for more details please refer to *Block Order Entry Field Description*).
Qty	Quantity	The order quantity.
PQty	Peak Quantity	The peak quantity of an iceberg order
Prc	Price (Limit)	The limit price of the order.
SPrc	Stop price	The Stop price of the Stop limit order
Accnt	Account	The account type of the order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).
Type	Type	The order type. **Valid values:** REG - Regular order ICB - Iceberg order OTC - Over the counter order / OTC order STP - Stop Order
State	Status	The status of the order. **Valid values:** ACTI - the order is active HIBE - the order is deactivated
AOT	Automatic Order Transfer	The automatic order transfer. A flag indicating whether the automatic order transfer to the linked contract shall be performed after the trading ends in XBID. See *DFS160a*. **Valid values:** Yes - the order shall be transferred to the linked contract No - the order shall not be transferred to the linked contract
ExeRes	Execution Restriction	The execution restriction of the order. **Valid values:** NON - None IOC - Immediate or cancel FOK - Fill or kill
ValRes	Validity Restriction	The validity restriction of the order. **Valid values:** GFS - good for session GTD - good till date

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Column Title	Name	Description
ValDate	Validity Date	The validity date of the order.
Product	Product	The product for which the order was entered.
Txt	Text	The optional order text field.
TA/BG	Trading Account/Balancing Group	The trading account/balancing group for which the order was entered.
O/C	Open or Close	Open closed indicator **Valid values:** “O”: Open position indicator “C”: Close position indicator
PPD	Peak Price Delta	The peak price delta of the current iceberg order.
Loc	Location	Location of the order. Mandatory for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
MarBas	Market based	Type of the congestion order to indicate whether it is a market based order or a non-market based order. Mandatory for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
ConRef	Contract reference	Reference to a contract between supplier and network operator. Optional for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
FacTyp	Facility type	Type of the network connected facility that converts primary energy into electrical energy. Optional for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.
UsFr	Usage fraction	Indicates the min/max usage of the orders. Optional for products with “Location-Price-Time” or “Location-AON” matcher. For other products must not be provided.

5.14.6 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted by the values in the columns *Area* or *Ctrct* as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.

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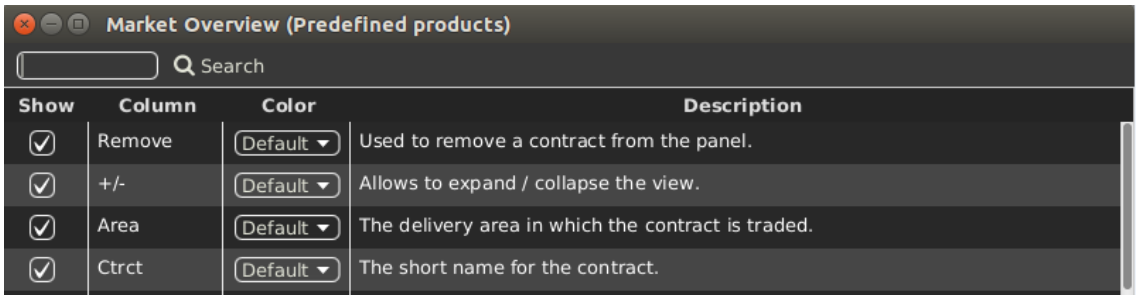
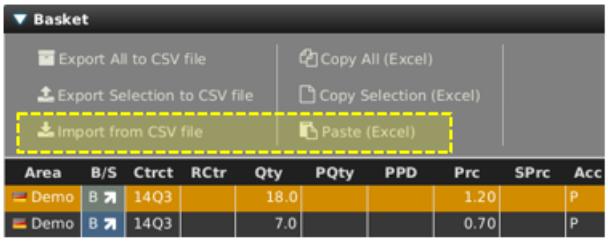
Feature	Description
Search Column	To make the selection of the columns easier, a Search field is provided which is located on the top of the panel. In order to filter the columns, a users enters the desired string into the Search field and clicks the magnifier icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 
Submission Restrictions	Defines the submission restriction for all orders of the basket as described in *Submission Restrictions*.
Switch all to FOK Add Modify Submit Clear Cancel	Each basket action can be individually turned on or off. The available basket actions are described in *Basket Actions*.

5.14.7 Import

5.14.7.1 General

Order importing to a basket can either be done by importing a prepared .csv file, or by copying data from MS Excel and then pasting it into ComTrader by using the operation system clipboard. Both options are available in the slide-in menu of ComTrader which can be opened or closed by clicking on the panel title:



Independently of how orders are imported, the system will warn users with a confirmation dialogue if any duplicate orders are imported into the Basket panel (can be enabled/disabled via Settings >Trading Preferences >Validate Basket Import, see *Trading Preferences*).

5.14.7.2 File Import

When clicking “Import from CSV file”, a file selection menu will open where the user can select a prepared .csv file to upload. All orders in the file will then be added to the basket.

The import format is identical to the export file format (*Panel Export*), which can be used as a template to prepare the import file. Rules analogical to those described in *Panel Export* apply during the file import.

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Some columns are always mandatory whilst others are dependent on a specific condition:

Column Name (to be used in the import file)	Full Name	Mandatory or Optional
Area	Area	**Mandatory**
Ctrct	Contract	**Mandatory**
RCtrct	Rear Contract	*Optional*
Prc	Price	**Mandatory**
Qty	Quantity	**Mandatory**
SPrc	Stop Price	**Mandatory** if the order type is "STP", else *optional*
PQty	Peak Quantity	**Mandatory** if the Validity Restriction is "ICB", else *optional*
PPD	Peak Price Delta	**Mandatory** if the Validity Restriction is "ICB", else *optional*
Type	Order Type	**Mandatory**
AOT	Automatic Order Transfer	*Optional.* **Valid values:** Yes – the order shall be transferred to the linked contract No – the order shall not be transferred to the linked contract The AOT flag for a remote order will be set: - To the value contained in the AOT column for this order in the imported file. - According to the user's default settings (see *Trading Preferences*)) in case the user has not submitted any value in the AOT column.
Accnt	Account	**Mandatory**
TA	Offer Trading Account	**Mandatory**
ExeRes	Execution Restriction	**Mandatory**
ValRes	Validity Restriction	**Mandatory**
ValDate	Validity Date	**Mandatory** if the Validity Restriction is "GTD", else *optional*
B/S	Order Side	**Mandatory**
Product	Product	*Optional*
Txt	Text	*Optional*

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Column Name (to be used in the import file)	Full Name	Mandatory or Optional
Loc	Location	**Mandatory** if the product matcher is set to “Location-Price-Time” or “Location-AON”, else the column must be empty
MarBas	Market based	**Mandatory** if the product matcher is set to “Location-Price-Time” or “Location-AON” matcher, else the column must be empty.
ConRef	Contract reference	**Optional** if the product matcher is set to “Location-Price-Time” or “Location-AON” matcher, else the column must be empty.
FacTyp	Facility type	**Optional** if the product matcher is set to “Location-Price-Time” or “Location-AON” matcher, else the column must be empty.
UsFr	Usage fraction	**Optional** if the product matcher is set to “Location-Price-Time” or “Location-AON” matcher, else the column must be empty.

5.14.7.3 Paste

One or more orders can be selected and copied into MS Excel and then imported into ComTrader by clicking the “Paste (Excel)” button. All orders from the selection will then be added to the basket.

The first row of the selection must contain the column titles and the selection cannot contain empty rows. The order import format is identical to the export format when clicking on the “Copy All (Excel)” or "Copy Selection (Excel) buttons (see *Panel Export*), except that the export format contains an empty row which must be removed before importing the data back to ComTrader.

5.14.8 Export

The panel content can be exported into a .csv file or copied to the system clipboard as described in *Panel Export*.

5.15 Own Market

5.15.1 General

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The *Own Market panel* gives an overview and allows the direct modification of the best own orders on both sides of the order book.

Orders are displayed according to the following rules:

- Orders are entered for a balancing group that is assigned to the logged in user.
- For each side of the order book, only the order with the highest execution priority is displayed.
- The best orders are selected on delivery area level. So only orders that have been entered for the selected delivery area are displayed.

5.15.2 Adding and Removing Contracts

Contracts can be added and removed by using the instrument navigator, as described in *Built-in Instrument Navigator*.

Contracts can also be removed by right clicking on a contract and choosing the context menu action “Remove” (see *Actions in the Context Menu*).

5.15.3 Order Modification

5.15.3.1 General Description

The main purpose of the Own Market panel is to provide a quick and simple view that allows the possibility of modifying the price level of a trader’s best orders for a contract. All price modifying actions are depending on a user-defined “Step-Size”, which defines the magnitude of the change and modification of the value in the particular row. With the “Step-Size” field functionality the user can define the “Tick-Size” of the price for each product in the built-in instrument navigator (for more details please refer to 3.5 *Built-in Instrument Navigator*). The “Step-Size” field contains Step Up, Step Down, Narrow and Widen action buttons.

5.15.3.2 Actions in the Contract Row

On each side of the order book, three columns contain actions which are only executed for the best order on this order book side.

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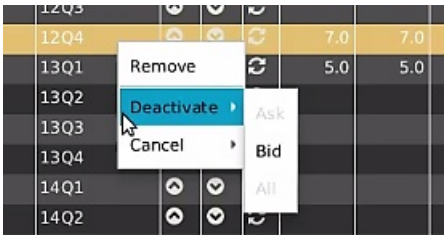
Available actions are:

Title	Name	Symbol	Description
BU	Bid Up		Raises the order price of the best bid order by the value entered into the “Step Size” field related to the underlying product.
BD	Bid Down		Lowers the order price of the best bid order by the value entered into the “Step Size” field related to the underlying product.
BRI	Bid Refill		Resets the quantity of the best bid order to the initial quantity at order entry.
AU	Ask Up		Raises the order price of the best ask order by the value entered into the “Step Size” field related to the underlying product.
AD	Ask Down		Lowers the order price of the best ask order by the value entered into the “Step Size” field related to the underlying product.
AR	Ask Refill		Resets the quantity of the best ask order to the initial quantity at order entry.

5.15.3.3 Actions in the Context Menu

The context menu can be accessed by right clicking in any column of a contract row.



Available actions are:

Action	Description
Remove	Removes the current contract row.
Deactivate	Offers the choice to deactivate the best bid order, ask order or both orders in this contract.

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Action	Description
Cancel	Offers the choice to delete the best bid order, ask order or both orders in this contract.

5.15.3.4 Actions in the bottom menu bar

Whilst the actions in the contract row will only affect one side of the order book, the order actions in the bottom menu bar will always affect orders on both sides of the order book for a selected contract. In order to execute these actions, a contract row must be selected by left clicking on it in the panel's main table.

Available actions are:

Action	Symbol	Description
Step Up		Raises the limit price of the best bid **and** ask order for the selected contract by the value entered into the "Step Size" field related to the underlying product.
Step Down		Lowers the limit price of the best bid **and** ask order for the selected contract by the value entered into the "Step Size" field related to the underlying product.
Narrow		Raises the limit price of the best bid order **and** lowers the limit price of the best ask order for the selected contract by the value entered into the "Step Size" field related to the underlying product.
Widen		Raises the limit price of the best ask order **and** lowers the limit price of the best bid order for the selected contract by the value entered into the "Step Size" field related to the underlying product.
Refill		Resets the quantities of the best bid and ask orders for the selected contract to the initial quantities at order entry.

5.15.4 Column Description

Depending on the configuration of the connected exchange only a subset of the following columns could be available:

Column Title	Name	Description
Remove	Remove	Clicking on the cross-symbol ( ) will remove the current contract from the panel.
Area	Area	The delivery area in which the contract is traded
Ctrct	Contract	A short name for the contract.
TmZn	Time Zone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)

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Column Title	Name	Description
Pha	Phase	The contract phase. **Valid values:** CONT - Continuous Trading BALA - Balancing Phase AUCT - Auction CLSD - Closed SDAT - Same Delivery Area Trading (matching of orders is possible only within the same delivery area)
Sta	Contract Status	The contract status. Valid values: IACT – the contract is not available for trading ACTI – the contract is active and available for trading HIBE – the contract is deactivated by market operators
Cur	Currency	Currency for displayed contracts.
BU	Bid Up	Contains the “Up” order action for the best buy order (see *Order Modification*).
BD	Bid Down	Contains the “Down” order action for the best buy order (see *Order Modification*).
BR	Bid Refill	Contains the “Refill” order action for the best buy order (see *Order Modification*).
IBQty	Initial Bid Quantity	Initial quantity of the best buy order.
OBQty	Own Bid Quantity	Own quantity of the best buy order.
SBQty	Shown Bid Quantity	Shown quantity of the best buy order.
OBPrc	Own Bid Price	Limit price of the best buy order.
Spread	Spread	The limit price difference between the best buy and sell order.
OAPrc	Own Ask Price	Own quantity of the best sell order.
SAQty	Shown Ask Quantity	Shown quantity of the best sell order.
OAQty	Own Ask Quantity	Own quantity of the best sell order.
IAQty	Initial Ask Quantity	Initial quantity of the best sell order.
AU	Ask Up	Contains the “Up” order action for the best sell order (see *Order Modification*).
AD	Ask Down	Contains the “Down” order action for the best sell order (see *Order Modification*).
AR	Ask Refill	Contains the “Refill” order action for the best sell order (see *Order Modification*).

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Column Title	Name	Description
Bid	Bid	Current price of the best buy order in the local view of the selected contract (not necessarily an own order).
Ask	Ask	Current price of the best sell order in the local view of the selected contract (not necessarily an own order).
LQty	Last Trade Quantity	The quantity of the last trade in the local view for this contract.
LPrc	Last Trade Price	The price of the last trade in the local view for this contract.
separator 1	Separator	Customisable separator for columns which can be moved, resized or coloured.
Loc	Location	Information about the Location of the order. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.
Market based	Market based	Type of the congestion order to indicate whether it is a market based order or a non-market (upon an explicit request of the grid operator) based order. **Valid values**: Yes/No Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.
Contract reference	Contract reference	Reference to a contract between supplier and network operator. **Valid values**: String, max 64 characters. Allowed characters are letters (a-z, A-Z), numbers (0-9) and special characters “-”,”_“,”.“,”/“,”“,“(”,“)” and “#”. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.
Facility type	Facility type	Type of the network connected facility that converts primary energy into electrical energy. **Valid values**: String value, max 16 characters. Allowed characters are letters (a-z, A-Z) and numbers (0-9). Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.

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Column Title	Name	Description
Usage fraction (%)	Usage fraction	Indicates the min/max usage of the order (percentage). **Valid values**: Percentage value (number without decimals) between 0 and 100. Conditions: Relevant only for products with “Location-Price-Time” or “Location-AON” matcher.

5.15.5 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted by the values in the columns *Area* or *Ctrct* as described in *Row Sorting*.
Order of Columns	The order of the columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.
Search Column	To make the selection of the columns easier, a Search field is provided which is located on the top of the panel. In order to filter the columns, a users enters the desired string into the Search field and clicks the magnifier icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive.
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and the availability of functions on the bottom bar (see *Customize Bottom Bar*).

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Feature	Description
Set one Delivery Area	 The delivery area for each displayed contract can be changed by clicking on the selection list in the column "Area".
Set all Delivery Areas	 Selecting a delivery area in the list will immediately switch the delivery area value for all contracts in the panel (that are tradable in the new area) to the newly selected area. Selecting the value "All" has no effect.
Delivery-Day	 Determines the display of contracts in the panel based on their delivery date. **Valid values:** **Today** - Only contracts that are starting delivery today are displayed. **Tomorrow** - Only contracts that are starting delivery tomorrow are displayed. **All** - Contracts are displayed independent of delivery date.
Order Type	 Determines the type of orders which are displayed. **Valid values:** **All** - All orders are displayed.
Step Up	 Raises the limit price of the best bid and ask order for the selected contract by the value entered into the “Step Size” field.
Step Down	 Lowers the limit price of the best bid and ask order for the selected contract by the value entered into the “Step Size” field.

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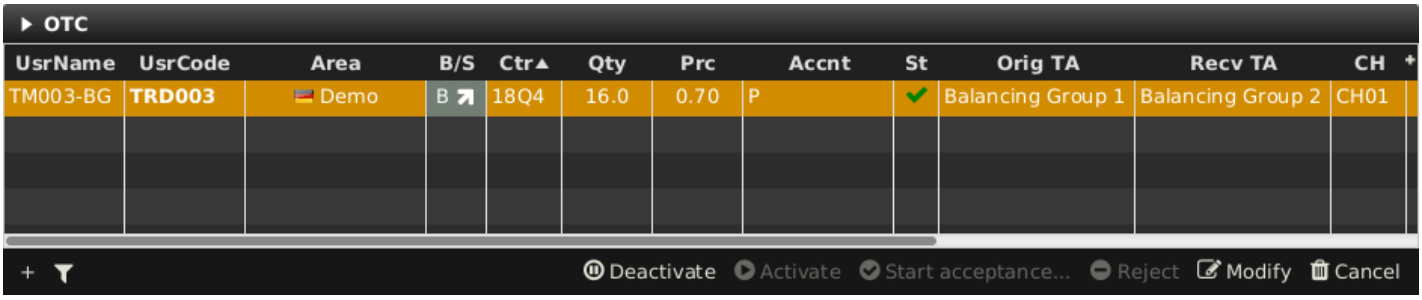
Feature	Description
Narrow	 Raises the limit price of the best bid order and lowers the limit price of the best ask order for the selected contract by the value entered into the “Step Size” field.
Widen	 Raises the limit price of the best ask order and lowers the limit price of the best bid order for the selected contract by the value entered into the “Step Size” field.
Refill	 Resets the quantities of the best bid and ask orders for the selected contract to the initial quantities at order entry.

5.16 OTC

5.16.1 General Description

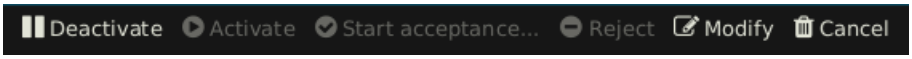


The *OTC* panel displays:

- all OTC orders entered by the logged in trader or other traders of the same balancing group and
- all incoming OTC orders to the balancing groups assigned to the logged in trader.

The panel also contains the actions to accept, modify or reject an outgoing or incoming OTC trade offer.

5.16.2 OTC Order Actions



A user can perform order action for existing orders by selecting (one or more) orders and clicking an order action button or by right clicking on an order and choosing an action from the context menu:

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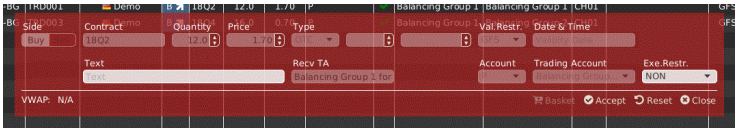
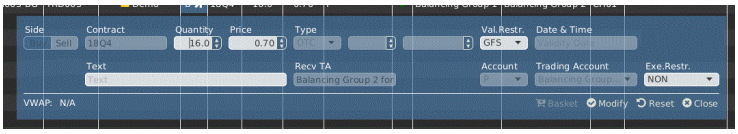
Availability of an action depends on whether the selected order is an outgoing or incoming OTC order.

The following order actions are available:

Action Name	Description
Deactivate *(outgoing orders only)*	Deactivates the selected order(s). One or more orders can be selected.
Activate *(outgoing orders only)*	Activates the selected order(s). One or more orders can be selected.
Start Acceptance *(incoming orders only)*	Opens a pre-filled Order Entry panel where only the values in the fields "Area" (mandatory) and "Text" can be modified. Clicking on the Buy/Sell button accepts the OTC trade offer. 
Reject *(incoming orders only)*	Rejects all selected incoming OTC orders. One or more orders can be selected.
Modify *(outgoing orders only)*	Opens an order modification panel to modify the selected order. Only order can be selected. 
Cancel *(outgoing orders only)*	Deletes the selected order(s). One or more orders can be selected.
Resend	Resends the selected order. This is only possible for orders in ERR state.
Prefill	Opens a floating Order Entry panel which is pre-filled with the exact same values of the order in ERR state.
Remove	Removes the selected order in an ERR state from the Own Order panel
Remove All	Removes all orders in an ERR state from the Own Order panel

5.16.3 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns could be available:

Column Title	Name	Description
UsrName	User Name	User name of the order owner.

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Column Title	Name	Description
UsrCode	User Code	User code of the user performing the last successful action on the order. The bold text in the column User is used whenever a displayed user is the same as the logged in user. Note that when trading on behalf, the bold text is applied to the on-behalf user (i.e. if user1 acts on behalf of user2, then the bold text is applied for the user2).
Area	Area	Area for which the order has been entered,
B/S	Order Side	Order side. Background colour of the Order Side column is the same as the background colour of the Order Entry panel as described in *Order Entry Advanced Horizontal*, i.e. red for sell and blue for buy side. In addition, the sell side has a red arrow pointing downwards towards the right is positioned to the left of the "S". In the case of the buy side, there is a green arrow pointing upwards towards the right is positioned on the right hand side of the displayed "B" **Valid values:** B - Buy S - Sell
Ctrct	Contract	Traded contract.
Time Zone	TimeZone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
Qty	Quantity	Order quantity.
Prc	Price (Limit)	Limit price of the order.
Cur	Currency	Order currency. **Valid values:** EUR - Euro
Accnt	Account	Account type of the order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).

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Column Title	Name	Description
State	State	Status of the order. **Valid values:** ACTI - The contract is active and available for trading (green tick is shown). HIBE - The contract is temporarily deactivated (yellow padlock is shown). SENT - The order is in the process of being sent to the server (yellow transmission icon is shown). ERR - The order was refused by server (red cross-symbol is shown). MODI - The order modification is in process of sending to server (yellow padlock is shown). More information can be also displayed in order's tooltip.
Orig BG / Orig TA	Originator Balancing Group / Trading Account	Balancing group of the user who entered the OTC order.
Recv BG / Recv TA	Receiving Balancing Group / Trading Account	Receiving balancing group of the OTC order.
Txt	Text	Optional order text field.
ValRes	Validity Restriction	Validity restriction of the order. **Valid values:** GFS - Good for session GTD - Good till date
ValDate	Validity Date	Validity date of the order.
OrdrID	Order ID	Order id of the order.
IOrdrID	Initial Order ID	Initial order id of the order. If the order is modified it can sometimes get a new order id but the initial order id will always remain identical.
Product	Product	Product for which the order was entered.
Timestamp	Timestamp	The entry time of an order.
LastUpdTm	Last Update Time	The last time this order was modified.

5.16.4 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted by the values in the columns *Area* or *Ctrct* as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.

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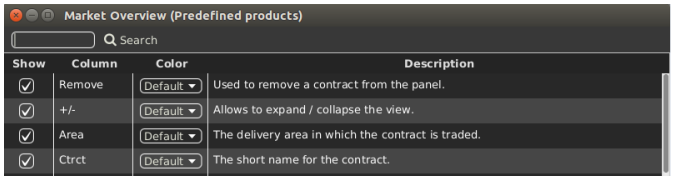
Feature	Description
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.
Search Column	To make the selection of the columns easier a Search field can be used that is located at the top. In order to filter the columns, a user can enter the desired string into the Search field and can click the magnifying glass icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 
Dynamic Filters	Clicking on the funnel symbol ( ) in the lower left corner of the panel will allow the user to create a custom filter to the panel as described in *Dynamic Filters*.
Deactivate Activate Start acceptance Reject Modify Cancel	Each OTC order action can be individually turned on or off. The available OTC order actions are described in *OTC Order Actions*.

5.16.5 Export

The panel content can be exported in a .csv file or copied to the system clipboard as described in *Panel Export*.

5.17 Chart

5.17.1 General Description

The *Chart* panel is used to graphically display trading activity ranging from the last hour to the last 24 hours.

The panel displays two different charts:

- **Price Chart**
  Displays the course of trade prices over time for a specific contract in a line chart.
- **Volume Chart**
  Displays the course of trade quantities over time for a specific contract in a bar chart.

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Both charts are only displayed if the information of at least two trades is available for the selected contract. Trade information is only taken into account if at least one of the two orders that lead to the trade was entered for the selected area.

The effects of a trade recall or trade cancellation are reflected by removing the trade information from the chart.

The chart is updated whenever a trade in the selected contract and area is created.

In the price chart, the time and price information of each trade is represented by a single data point (a Self trade is represented by a red point, a non-self trade is represented by a green point). Opening prices of the selected contract in the delivery area are represented by points if available. An opening price is also visible even if the Chart area is empty (If less than two trades are available). All data points are connected linearly to form one continuous line.

In the volume chart, the time and volume information of each trade is represented by a single red bar (the higher the bar, the higher the volume).

5.17.2 Panel Mode

The panel can be operated in two different modes which can be selected on the left side of the bottom bar:

- **Linked Mode** (default)
  The charts are only displayed when clicking the magnifying glass symbol ( ) in either the Market Overview (Predefined products) panel, *Market Overview (Predefined products)* or Market Overview (User Defined Delivery Period) panel, see

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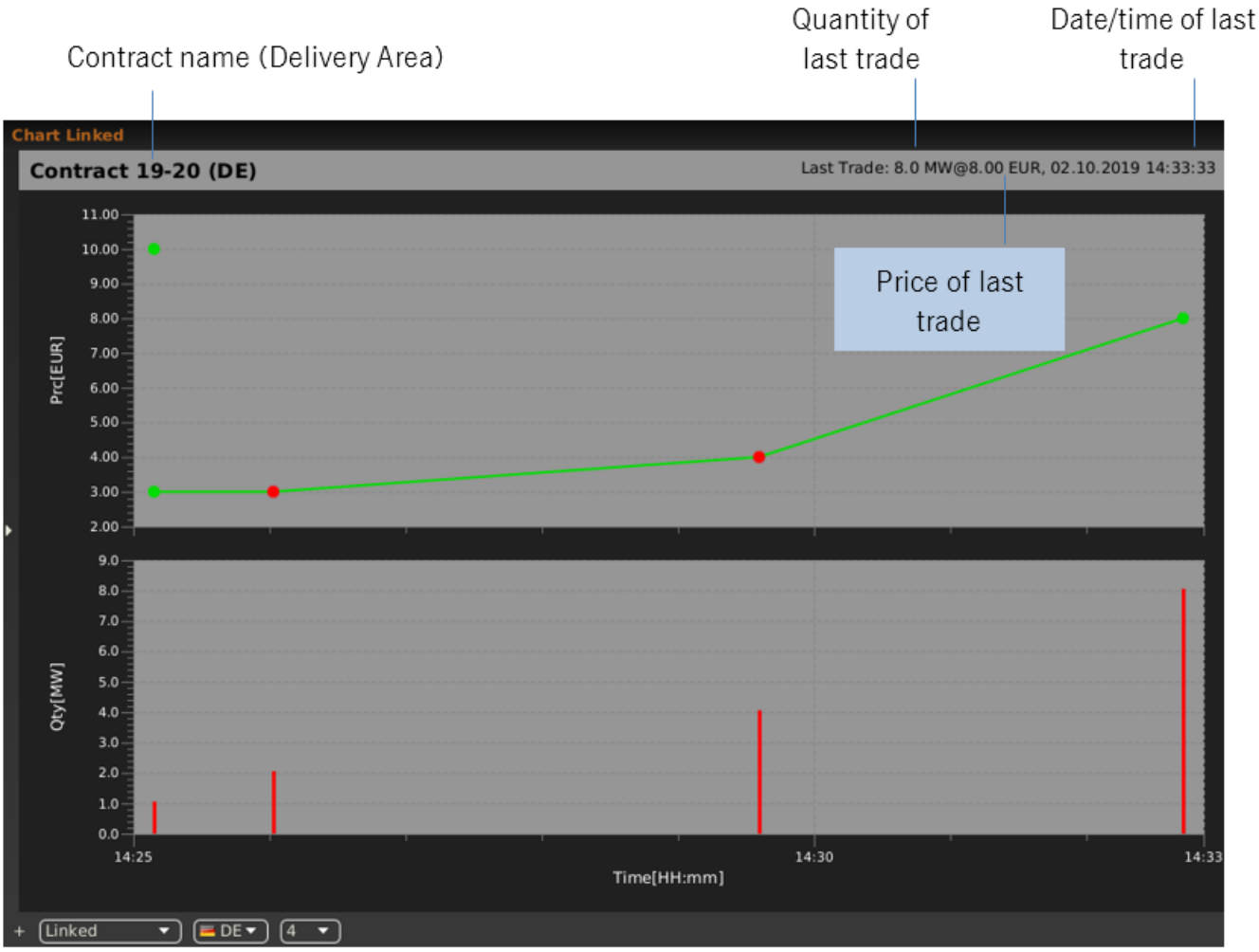
Market Overview (User Defined Delivery Period) .

- **Standalone Mode**
  The contract for which the charts should be displayed is selected manually by dragging & dropping it from either the built-in instrument navigator or a standalone instrument panel, see *Instruments*. In this mode, there are no dependencies between the chart component and other components, so several chart components for different contracts can be displayed in different panels.

The top row of the panel contains additional information for the selected contract:



5.17.3 Customisation and Filters

Feature	Description
Bottom Bar Functions	Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).

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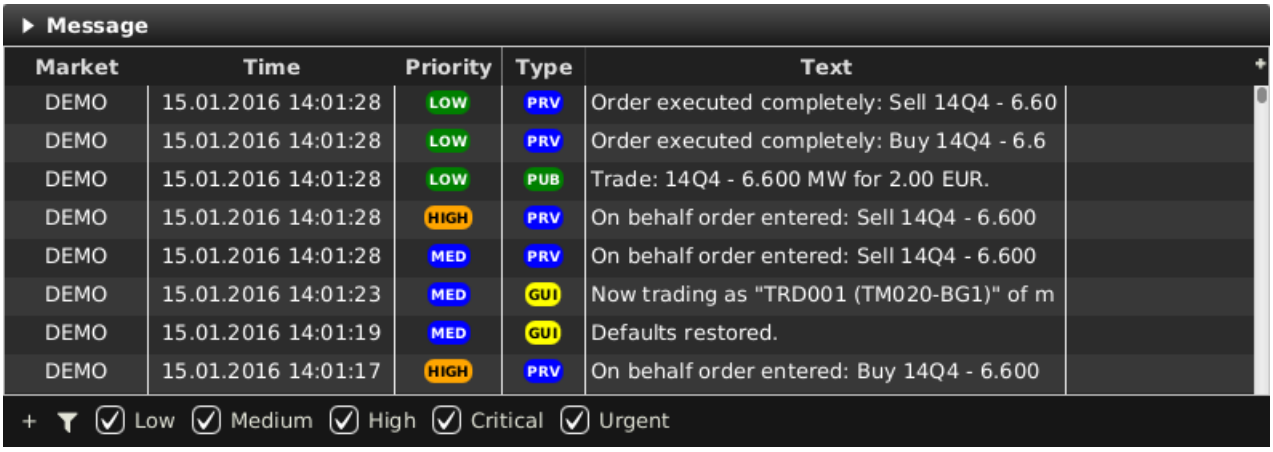
Feature	Description
Panel Mode	Determines the current operation mode of the panel.
Select Area	Allows the selection of an area for the displayed contract.
Hour Range	Determines the observed time period. Both charts will always incorporate the most recent trade information as well as information of the past as defined by the value (in hours) of the hour range selection. Valid values are: 1, 4 (default), 8 and 24.

5.18 Message

5.18.1 General Description



The *Message* panel displays messages of the trading system that the logged in user is authorised to receive. The limit of displayed messages is 1000. During ComTrader start, 2 hour message history is retrieved.

5.18.2 Column Description

Depending on the configuration of the connected exchange, only a subset of the following columns could be available:

Column Title	Name	Description
Market	Market	The exchange or client identification for which the message is valid.
Time	Time	The system time of the message.
Id	Message ID	A unique identifier for each message.

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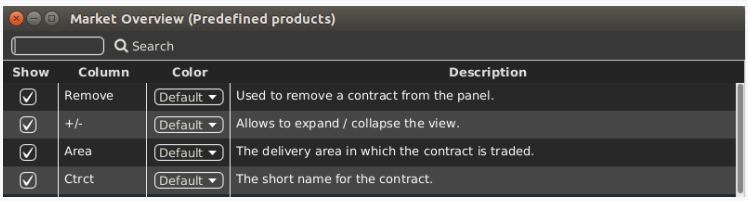
Column Title	Name	Description
Priority	Priority	The message priority, can be low, medium, high, critical or urgent.
Type	Type	The message type which can be *private* (PRV), *public* (PUB) or *generated by the ComTrader* (GUI).
Text	Message Text	The message text.

5.18.3 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.
Search Column	To make the selection of the columns easier a Search field can be used that is located at the top. In order to filter the columns, a user can enter the desired string into the Search field and can click the magnifying glass icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 
Dynamic Filters	Clicking on the funnel symbol (in the lower left corner of the panel will allow the user to create a custom filter to the panel as described in *Dynamic Filters*).
Bottom Bar Functions	 Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).
Priority Filters	 The priority checkboxes in the bottom of the panel can be used to toggle the display of messages with a specific priority on and off.

5.19 Trading Limit

5.19.1 General Description

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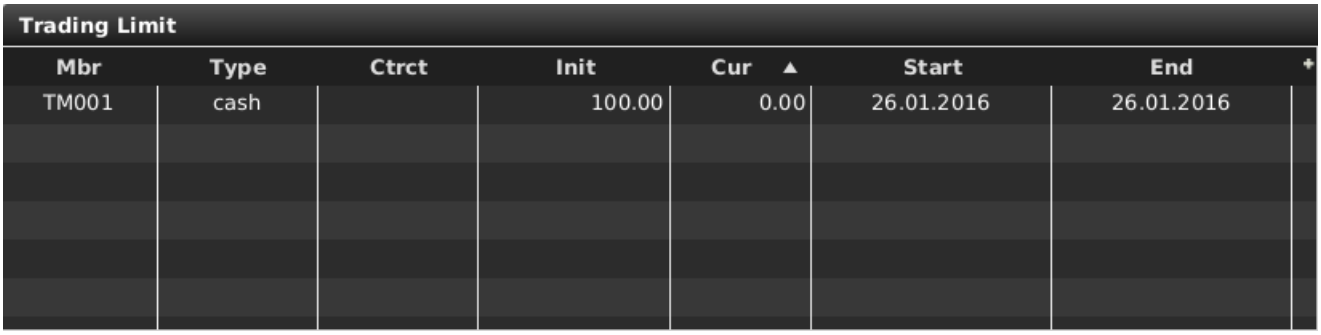

The *Trading Limit* panel displays the currently available cash and commodity limit on member level.

5.19.2 Column Description

Depending on the configuration of the connected exchange only a subset of the following columns could be available:

Column Title	Name	Description
Mmbr	Member	The member ID to which the trading limit is available.
Type	Type	The type of the trading limit. **Valid values:** cash - Cash limit commodity - Commodity limit
Ctrct	Contract	The contract for which the trading limit is valid.
Currency	Currency	Currency of the trading limit.
Init	Initial limit	The initial value of the trading limit.
Cur	Current limit	The current value of the trading limit.
Start	Start	The first date when the trading limit is applicable to the member ID.
End	End	The last date when the trading limit is applicable to the member ID.

5.19.3 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window*.
Row Sorting	The rows of the panel can be sorted by the values in the columns *Area, Ctrct, Val, Start* or *End* as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.

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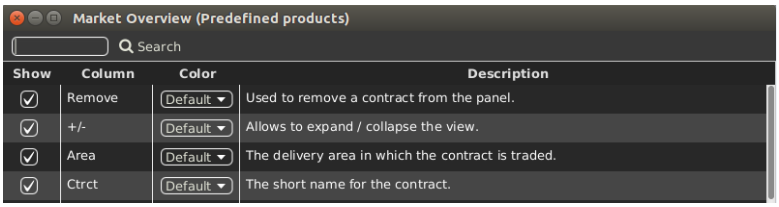
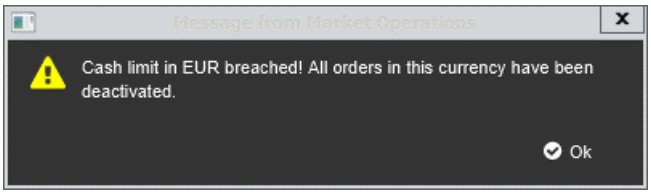
Feature	Description
Search Column	To make the selection of the columns easier a Search field can be used that is located at the top. In order to filter the columns, a user can enter the desired string into the Search field and can click the magnifying glass icon. As a result, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 

5.19.4 Cash Limit Breach

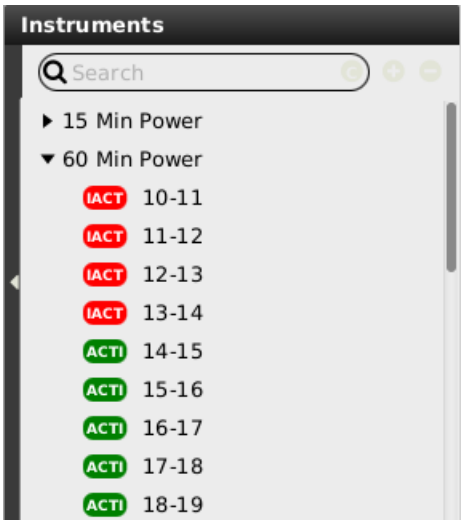
In case of a limit breach (the current trading limit is negative), all members orders are automatically hibernated. Whenever the trading limit of one or more members is breached the following popup window is sent to all affected members.



5.20 Instruments

5.20.1 General Description

The standalone *Instrument* panel (see also *Built-in Instrument Navigator*) provides an overview of all products and contracts tradable by the logged in user.



The standalone instrument panel will display the following contracts:

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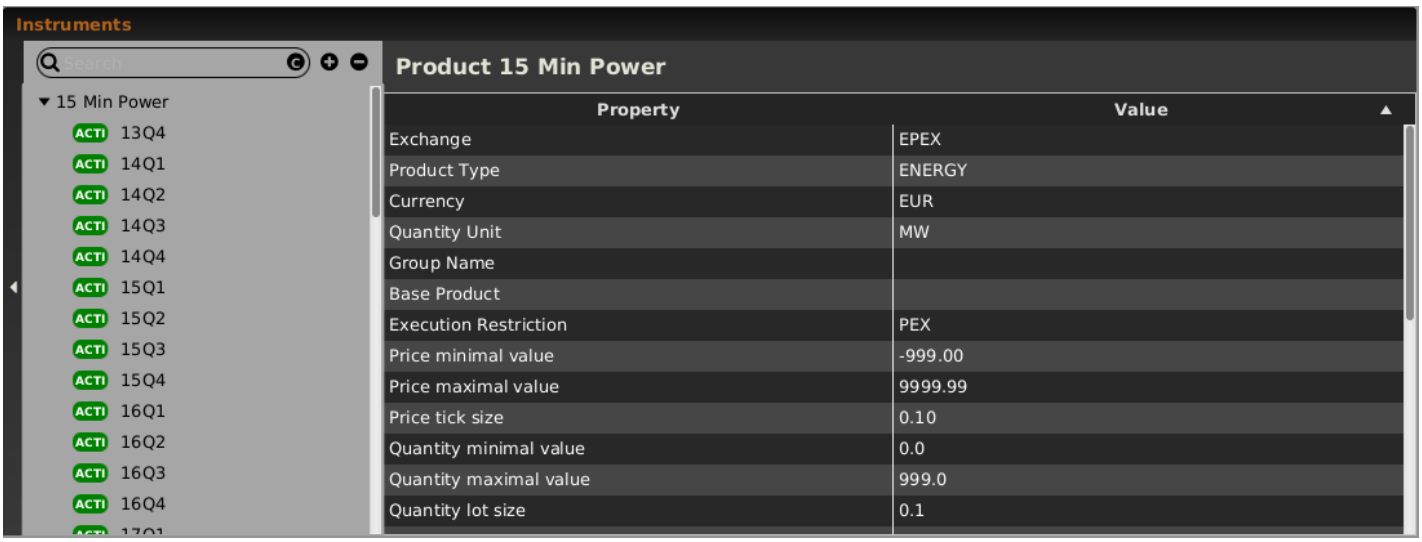
- contracts that are currently tradeable
- contracts that are in the pre-delivery phase (after trading end, before delivery)
- contracts that are currently in delivery.

If there are one or more active contracts for a product, a small black arrow is displayed to the left of the product. Clicking on this button will expand the list of contracts for this product.

5.20.2 Product information



The standalone instrument panel can be used to provide detailed overview of a particular product.

This can be done by:

1. Dragging and dropping the product to the standalone Instruments panel (see *Adding contracts to other panels*).
2. Double clicking on the product.

Depending on the configuration of the connected exchange only a subset of the following rows could be available (for more details please refer to *MFG130 - Admin Manual WebGUI*):

Property	Description
Exchange	The exchange for which the product is valid.
Product Type	The type of the product.
Currency	The currency of the product.
Quantity Unit	The units in which the product is traded.
Group Name	A unique name which is common to all products referencing the same (base) product.
Base Product	The product that is reference by the selected product
Master Product	The master product in XBID.
Linked Product	The local product linked to the master product.
Execution Restriction	Defines whether the orders belonging to the contracts of the product can be matched partially or only with the full quantity.

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Property	Description
Price minimal value	Determines the minimum price limit at which an order can be placed for this product.
Price maximal value	Determines the maximum price limit at which an order can be placed for this product.
Price tick size	Determines the minimum increment in the limit price of an order for the product.
Quantity minimal value	Determines the smallest quantity of an order for this product.
Quantity maximal value	Determines the largest quantity of an order on a member level. If this information is not available, the largest quantity for the product is displayed.
Quantity lot size	Determines the minimum increment in the quantity of an order or trade for the product.
Amount maximum value	Determines the largest amount (quantity * limit price) of an order on a member level. If this information is not available, the largest amount for the product is displayed.
Delivery Units	The delivery units of the product in relation to the basic period. This value is used to calculate the traded amount, the trading limit of a member etc.
Supports Iceberg Orders	Indicates whether Iceberg orders for this product are supported or not.
Iceberg Minimum Peak Size	Determines the minimum quantity which a peak size of an iceberg order for this product can have.
Iceberg Delta Range	Determines the range of the possible price changes when a new slice of an iceberg order is entered.
Linked Order Product	Determines whether linked orders are supported for the product for basket trading.
Supports OTC Trades	Determines whether this product can be traded OTC.
OTC only	Determines whether this product can exclusively be traded OTC and cannot be traded in a continuous market.
Supports Stop Orders	Determines whether stop limit orders are supported for the product.
Time zone	Time zone identifier of the time zone the product is operated in.
Cash Limits Enabled	Indicates whether the cash limit is configured for the product or not.
Default Product Risk Set	The Risk Set parameters with their values assigned to the product. **Valid values:** "Cash Limit Positive Price Buy Order Parameter" "Cash Limit Positive Price Sell Order Parameter" "Cash Limit Positive Price Buy Trade Parameter" "Cash Limit Positive Price Sell Trade Parameter" "Cash Limit Negative Price Buy Order Parameter" "Cash Limit Negative Price Sell Order Parameter" "Cash Limit Negative Price Buy Trade Parameter" "Cash Limit Negative Price Sell Trade Parameter" "Cash Limit Buy Order Parameter" "Cash Limit Sell Order Parameter" "Cash Limit Buy Trade Parameter" "Cash Limit Sell Trade Parameter"

5.20.3 Contract information

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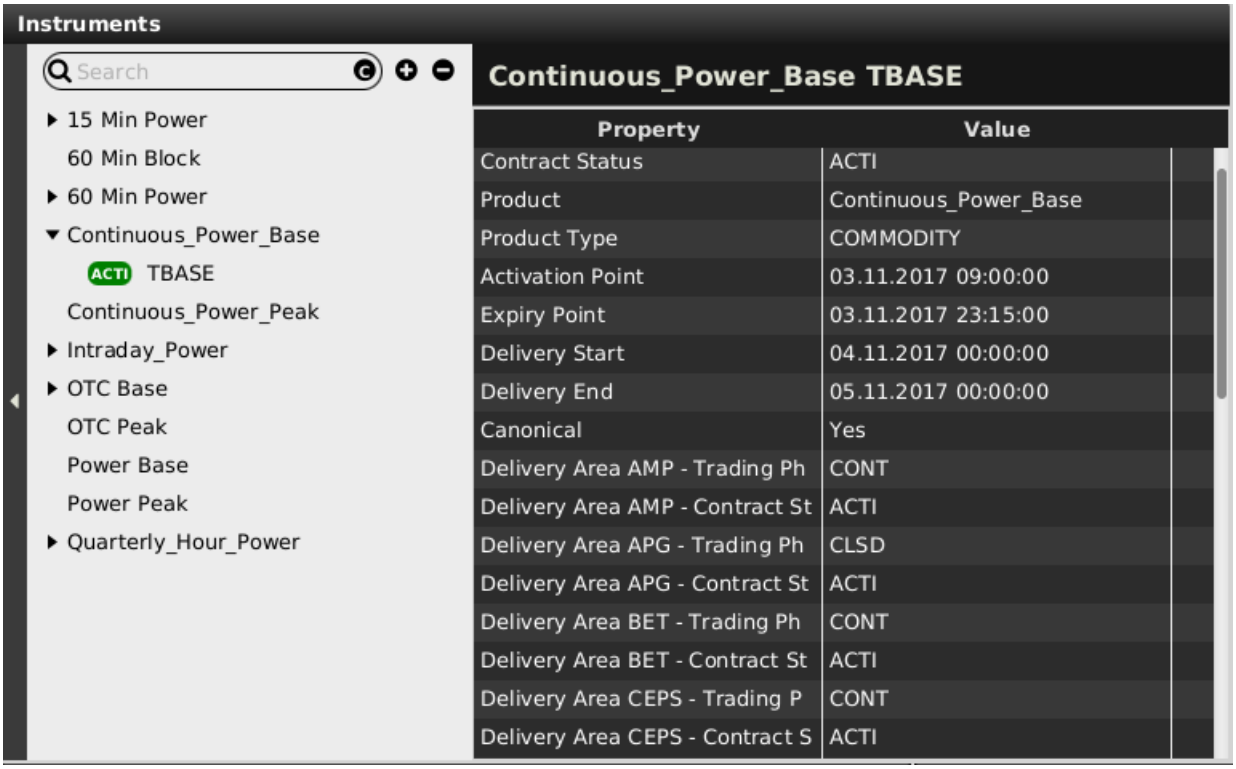

The standalone instrument panel can be used to provide a detailed overview of a particular contract.

This can be done by:

1. Dragging and dropping the contract to the standalone Instruments panel (see *Adding contracts to other panels*).
2. Double clicking on the contract.

Depending on the configuration of the connected exchange, only a subset of the following rows could be available (for more details please refer to *MFG130 - Admin Manual WebGUI*):

Property	Description
Exchange	The exchange for which the contract is valid.
Contract Status	The contract state **Valid values:** IACT - the contract is not available for trading HIBE - the contract is temporarily deactivated by market operators ACTI - the contract is available for trading STBY - the linked contract is in standby mode until remote contract is no longer traded
Product	The product of the selected contract.
Product Type	The product type of the selected contract.
Activation Point	The contract is active and tradable when the Activation Point is reached.
Expiry Point	The contract is active and tradable until the Expiry Point is reached.
Delivery Start	The contract delivery start.

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Property	Description
Delivery End	The contract delivery end.
Canonical	Indicates whether the contract can be used as the underlying contract for a bespoke contract (for more details please refer to *Creating a bespoke contract*)
Delivery Area(s)	The delivery areas in which the contract is tradable are listed together with their state and trading phase.

5.20.4 Adding contracts to other panels

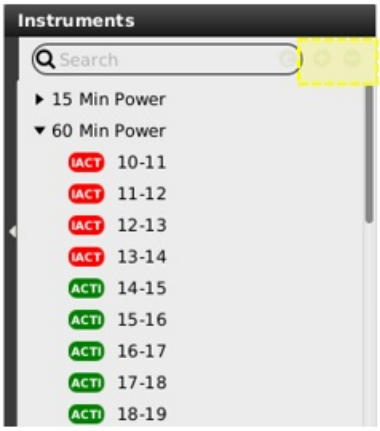
The standalone instrument panel can be used to add contracts rows to other panels (refer to the individual panel description).

This can be done by:

1. Left clicking on a contract in the instrument panel (keep button pressed).
2. Dragging the contract over to the other panel's main table.
3. Releasing the mouse button.

5.20.5 Collapsing / Expanding the Contract list

The list of contracts can also be expanded for all of the products at once by clicking the "+" button next to the search field, or collapsed, by clicking the "-" button:



5.20.6 Contract Search

The list of displayed contracts can also be filtered by entering a string into the search field at the top of the instrument navigator:

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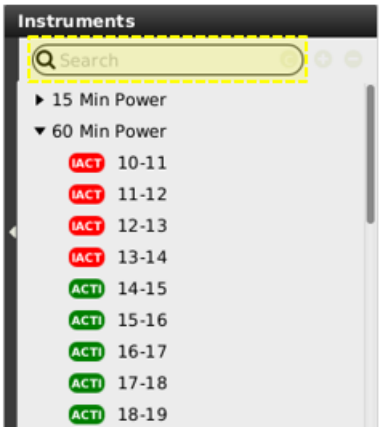
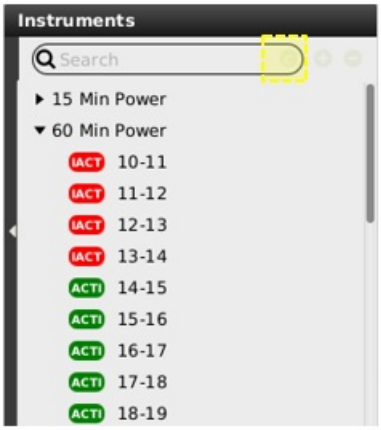


Clicking on the C/P switch button in the search field will switch between searching the entered string in the list of products (if "P" is visible) or the list of contracts (if "C" is selected).



5.21 On Behalf

5.21.1 General Description

In the *On-Behalf* panel for traders and brokers, a market participant can define another trader for which the logged in user can then view data or perform actions.

Traders can only have access to trader data of the same member, whilst brokers can have access to all assigned user/members. Admins have access to all users/members.

After selecting the member, the *On Behalf trader* dropdown list is pre-filtered to show available users. Only users with status *active* and user role Trader, Balance user with own trading permitted and Broker users with own trading permitted are avaliable for selection.

When trading on behalf, assignments of the selected user are taken into account.

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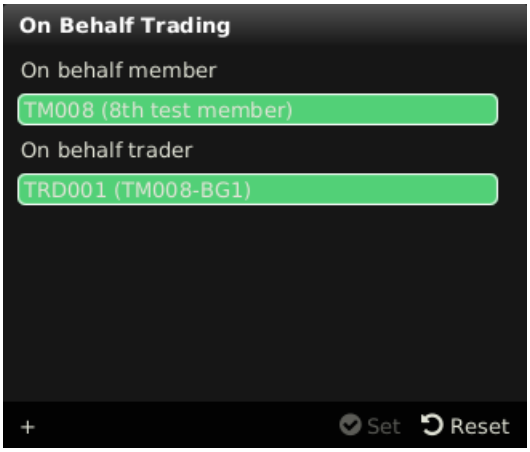

5.21.2 On Behalf Mode

In order to view data and perform actions for another user, the following values have to be selected:

Field	Description
On behalf member	The *Member ID* and *Member Name* of the logged in user and target user.
On behalf trader	The *User Code* and *User Name* of the target user.

After clicking the "Set" button, ComTrader is operated in the "on behalf" mode for the selected user (the selected user is not saved in the profile). The following panels will be affected whilst ComTrader is operated in the on-behalf mode:

Panel	Functionality in *on behalf* mode
Market Overview (Predefined products) Market Details Order Book Details Market Overview (User Defined Delivery Period)	The display style of orders in the market will be based on the selected-on behalf user. For example: orders entered for the selected-on behalf user will be displayed in the style of own orders. The list of available delivery areas is still based on the admin user.
Trading Limit	The panel content will be displayed as for the selected-on behalf user.
Own Order Own Trades OTC Basket	The panel content will be displayed as for the selected-on behalf user. All actions available in the panel will be executed on behalf of the selected user.
Order Entry Horizontal Order Entry Vertical Block Order Entry Horizontal Block Order Entry Vertical	Orders entry or modification via this panel will be performed on behalf of the selected user.

Clicking the "Reset" button will end the "on behalf" mode. The behaviour of all panels is switched back again to display data

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based on the logged in user.

5.21.3 Example

Trader 1 and trader 2 are assigned to the same member (member MEMBX).

Trader 1 is enabled by market operations to trade on behalf of trader 2.

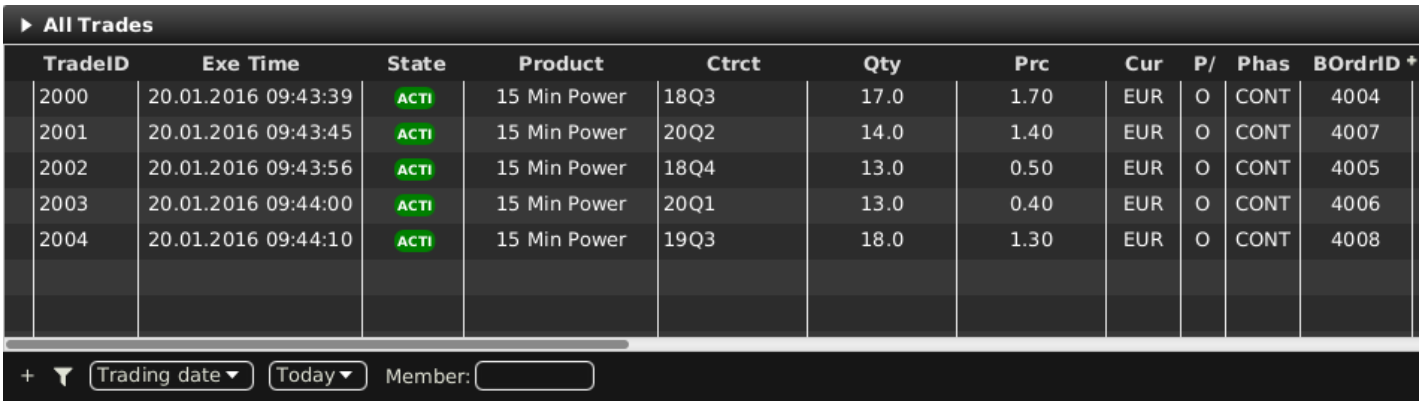
To enter an order for trader 2, trader 1 must perform the following actions:

1. Open an On-Behalf panel.
2. Select the Member ID (MEMBX).
3. Select trader 2.
4. Enter the on-behalf mode by clicking the "set" button
5. Enter the order via the Order Entry panel
6. Exit the on-behalf mode by clicking the "Reset" button.

5.22 All Trades

5.22.1 General Description

The all trades panel (only for broker users) lists all trades that have been executed by traders assigned to the logged in broker.



TradeID	Exe Time	State	Product	Ctrct	Qty	Prc	Cur	P/	Phas	BOrdrID
2000	20.01.2016 09:43:39	ACTI	15 Min Power	18Q3	17.0	1.70	EUR	O	CONT	4004
2001	20.01.2016 09:43:45	ACTI	15 Min Power	20Q2	14.0	1.40	EUR	O	CONT	4007
2002	20.01.2016 09:43:56	ACTI	15 Min Power	18Q4	13.0	0.50	EUR	O	CONT	4005
2003	20.01.2016 09:44:00	ACTI	15 Min Power	20Q1	13.0	0.40	EUR	O	CONT	4006
2004	20.01.2016 09:44:10	ACTI	15 Min Power	19Q3	18.0	1.30	EUR	O	CONT	4008

5.22.2 Column Description

Column Title	Name	Description
	Decomposed Trades	Decomposed Trades (for more details please refer to *MFG120 – Admin Manual ComTrader*)
TradeID	Trade ID	Unique identifier for each trade. In XBID-connected environments remote trades and LTS trades share the trade ID sequence. Therefore, a gap in LTS trade IDs may occur.

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Column Title	Name	Description
RemoteTradeID	Remote Trade ID	Trade Id as returned by the remote backend system (ie. XBID SOB)
ParentID	Parent Trade ID	The TradeId of the Master Trade which is only displayed for Decomposed Trades. The field is empty for Master Trades.
Exe Time	Execution Time	Trade execution time.
State	Status	Status of the trade.
Product	Product	Product of the traded contract.
Ctrct	Contract	Traded contract.
TmZn	Time Zone	Time zone identifier of the time zone the product is operated in. **Valid values:** CET – Central European Time (Central European Summer Time) Europe/London – Greenwich Mean Time (British Summer Time)
Qty	Quantity	Traded quantity.
Prc	Price	Trade price.
Cur	Currency	Trade currency.
P/O	Trade Type	Trade type. **Valid values:** P – Pre-arranged trade (OTC) O – Open Trade
Phase	Phase	The phase in which the trade was performed. **Valid values:** “CONT” – execution in continuous trading “BALA” – execution in balancing phase “AUCT” – execution in auction “SDAT”- Same Delivery Area Trading
BOrdrID	Buy Order ID	The Order ID of the buy order
BMbr Id	Buy Member ID	Member ID of the owner of the buy order.
BMbr Name	Buy Member Name	Member name of the owner of the buy order.
BTrdr Id	Buy Trader ID	User Code of the user performing the last successful action on the buy order.
BTrdr Name	Buy Trader Name	User name of the of the owner of the buy order.

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Column Title	Name	Description
BAggrInd	Buy Aggressor Indicator	Indicates whether the executed buy order acted as a trade originator or a trade aggressor, or the value is unknown. **Valid values:** Y - The trade is an aggressor (caused by the order which was matched immediately). N - The trade is an originator (caused by the order which was added in the orderbook and matched with another entered order). U - The trade Aggressor indicator is unknown (i.e. for remote products which are not created and maintained in the M7 instance).
Buy Area	Buy Bidding Area	Delivery Area of the buy order.
BO/C	Buy Open/Close Indicator	Open or closed buy order.
BAccnt	Buy Account	The account type of the buy order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).
SOrdrID	Sell Order ID	The Order ID of the sell order
SMbr Id	Sell Member ID	Member ID of the owner of the sell order.
SMbr Name	Sell Member Name	Member name of the owner of the sell order.
STrdr Id	Sell Trader ID	User Code of the user performing the last successful action on the sell order.
STrdr Name	Sell Trader Name	User name of the of the owner of the sell order.
SAggrInd	Sell Aggressor Indicator	Indicates whether the executed sell order acted as a trade originator or a trade aggressor, or the value is unknown. **Valid values:** Y - The trade is an aggressor (caused by the order which was matched immediately). N - The trade is an originator (caused by the order which was added in the orderbook and matched with another entered order). U - The trade Aggressor indicator is unknown (i.e. for remote products which are not created and maintained in the M7 instance).
Sell Area	Sell Bidding Area	Delivery Area of the sell order.
SO/C	Sell Open/Close Indicator	Open or closed sell order.
SAccnt	Sell Account	The account type of the sell order. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).

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Column Title	Name	Description
StlmntState	Settlement State	The settlement state of a trade. In case for an exchange only a subset of the market (i.e. one or more delivery areas) are configured to be cleared by the clearing house, only trades with at least one side belonging to such delivery area(s) will be changing the state till ACKN/INFO. Trades executed outside the configured market subset will remain in the state INIT. **Valid values:** INIT - The initial status of a trade before being processed. SNDG – Trade has been received and stored by MTT. SENT - Trade was submitted for post-trade management. ACKN - Trade information was received by the settlement system. INFO - Additional information was received by the settlement system.
StlmntInfo	Settlement Info	Settlement Information for the trade.
RecRestr	Recall Restriction	The latest time until a recall request can be accepted.
BCA	Buy Clearing Account	The clearing account of the buy side.
SCA	Sell Clearing Account	The clearing account of the sell side.
Self	Self Trade	Provides Information on whether a trade is a self-trade • Trade belongs to one balancing group or • Trade belongs to two different balancing groups within one member

5.22.3 Customisation and Filters

Feature	Description
Column Selection	The selection of displayed columns can be customised as described in *Column Customization Window}*.
Row Sorting	The rows of the panel can be sorted as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.

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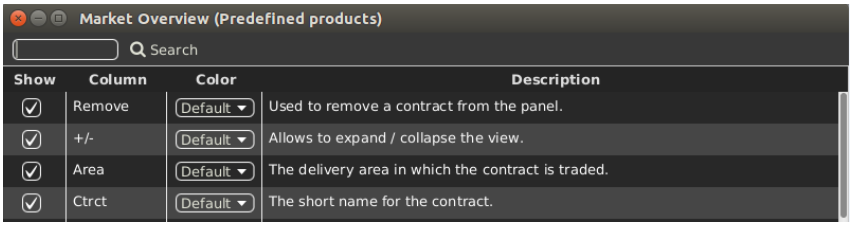
Feature	Description
Search Column	To make the selection of the columns easier a Search field can be used that is located at the top. In order to filter the columns, a user can enter the desired string into the Search field and can click the magnifying glass icon. As a reslt, only the columns containing the string in the Description of the column will be listed. The search is case sensitive. 
Bottom Bar Functions	Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).
Dynamic Filters	Clicking on the funnel symbol ( ) in the lower left corner of the panel will allow the user to create a custom filter to the panel as described in *Dynamic Filters*.
Trading- / Delivery – Day Filter	 The filter type selection allows to set the type of the applied filter. **Valid Values are:** Trading Date – Only trades that were executed on the selected day(s) are displayed. Delivery Date – Only trades which contracts are delivered on the selected day(s) are displayed.
Day(s) selection	 The day-filter selection allows to set the day(s) for which trades should be displayed. The selection depends on the “Trading- / Delivery-Day” filter described above. **Valid Values are:** **Today** The current system date. **Tomorrow** The next day after the current system date. **T-1 to T-X** The past X days before the current system date. Selecting one of these values will include all days between the selected values and the end of the current system date (so will include today). The maximum number of days that can be used as X in the dynamic filters can be parameterized using the system parameter *contractStoreTimeInDays*.

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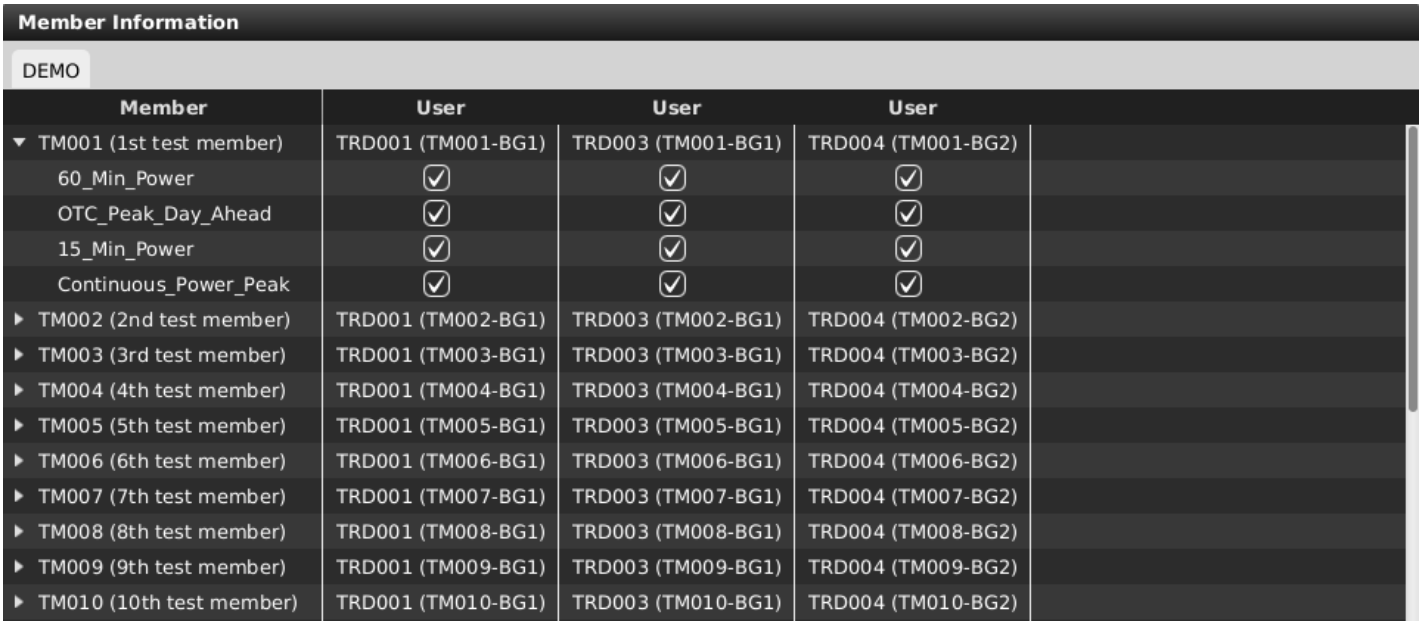
Feature	Description
Member Filter	 Entering a Member ID and filter the displayed trades by this Member ID. All Trades where either the order of the buy or sell side were entered by a user of this member are displayed. The filter is applied by clicking outside of the filter area. Incomplete values are accepted, so only the starting characters of a member can be entered and the displayed rows will be filtered accordingly.
Decomposed Trades	 If the Decomposed Trades checkbox is checked, all Decomposed Trades are displayed in the All Trades panel, otherwise Decomposed Trades are only displayed when clicking the magnifier button in the Decomposed Trades column.

5.22.4 Export

The content of the panel can be exported as described in *Panel Export*.

5.23 Member Information

5.23.1 General Description



Member	User	User	User
TM001 (1st test member)	TRD001 (TM001-BG1)	TRD003 (TM001-BG1)	TRD004 (TM001-BG2)
60_Min_Power	✓	✓	✓
OTC_Peak_Day_Ahead	✓	✓	✓
15_Min_Power	✓	✓	✓
Continuous_Power_Peak	✓	✓	✓
TM002 (2nd test member)	TRD001 (TM002-BG1)	TRD003 (TM002-BG1)	TRD004 (TM002-BG2)
TM003 (3rd test member)	TRD001 (TM003-BG1)	TRD003 (TM003-BG1)	TRD004 (TM003-BG2)
TM004 (4th test member)	TRD001 (TM004-BG1)	TRD003 (TM004-BG1)	TRD004 (TM004-BG2)
TM005 (5th test member)	TRD001 (TM005-BG1)	TRD003 (TM005-BG1)	TRD004 (TM005-BG2)
TM006 (6th test member)	TRD001 (TM006-BG1)	TRD003 (TM006-BG1)	TRD004 (TM006-BG2)
TM007 (7th test member)	TRD001 (TM007-BG1)	TRD003 (TM007-BG1)	TRD004 (TM007-BG2)
TM008 (8th test member)	TRD001 (TM008-BG1)	TRD003 (TM008-BG1)	TRD004 (TM008-BG2)
TM009 (9th test member)	TRD001 (TM009-BG1)	TRD003 (TM009-BG1)	TRD004 (TM009-BG2)
TM010 (10th test member)	TRD001 (TM010-BG1)	TRD003 (TM010-BG1)	TRD004 (TM010-BG2)

The Member Information panel (broker user only) displays the availability of products to the traders assigned to the logged in broker.

Data is arranged by member whilst information for each member can be expanded/collapsed by clicking on the arrow symbol in front of each Member Name.

The availability of each product assigned to at least one trader of the selected member is displayed by a checked box in the column of the trader to which it is assigned, Empty intersections symbolise the unavailability of the product to the particular

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trader.

5.24 Capacity Display (Hub to Hub)

5.24.1 General Description

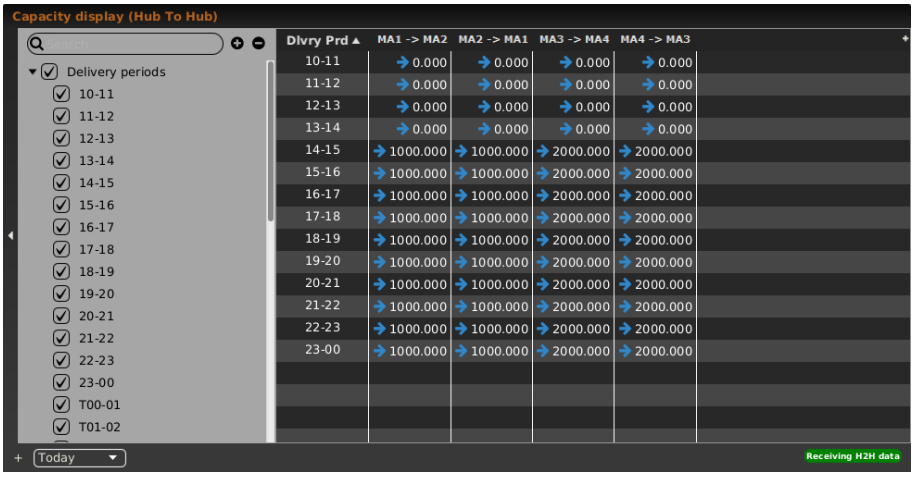
The Capacity Display (Hub To Hub) panel provides users with an overview of the current cross-border Available Transfer Capacity (ATC). This enables traders to anticipate possible border congestion and adjust their trading behaviour in time.

M7 receives the changes in ATC values from the XBID instance and refreshes the data in the Capacity Display (Hub To Hub) panel approximately every 30 seconds.

The panel is available to all users who have been given the “Capacity Info” right. With this right the user is granted the access to the ATC values for all paths between areas that have been published by XBID, independently of the actual account assignments of the user.

5.24.2 Adding and Removing Delivery Periods

The panel features a built-in navigator containing the list of Delivery Periods for today and tomorrow in hourly resolution intervals. The navigator can be toggled on and off by clicking on the vertical bar with an arrow symbol on the left side of the panel:



A Delivery Period can be added to or removed from the main table of the panel (also called capacity matrix) by ticking or unticking the respective box in the navigator. After being ticked a new row with the Delivery Period will be added to the capacity matrix with the latest ATC values for the selected paths (see *Adding and Removing Paths between Areas)*

It is possible to select and deselect all Delivery Periods by ticking or unticking the box “Delivery Period”.

5.24.3 Adding and Removing Paths between Areas

By default, the capacity matrix contains ATC values for all paths between areas that are available on XBID.

In order to adjust the selection of the paths visible in the capacity matrix, the user clicks on the “+” sign in the top right corner of the panel. A new floating window will be opened where all the possible paths between areas will be listed in an alphabetical order by the area short name of the first area in the path. Paths between two areas with opposite directions are kept together.

Example:

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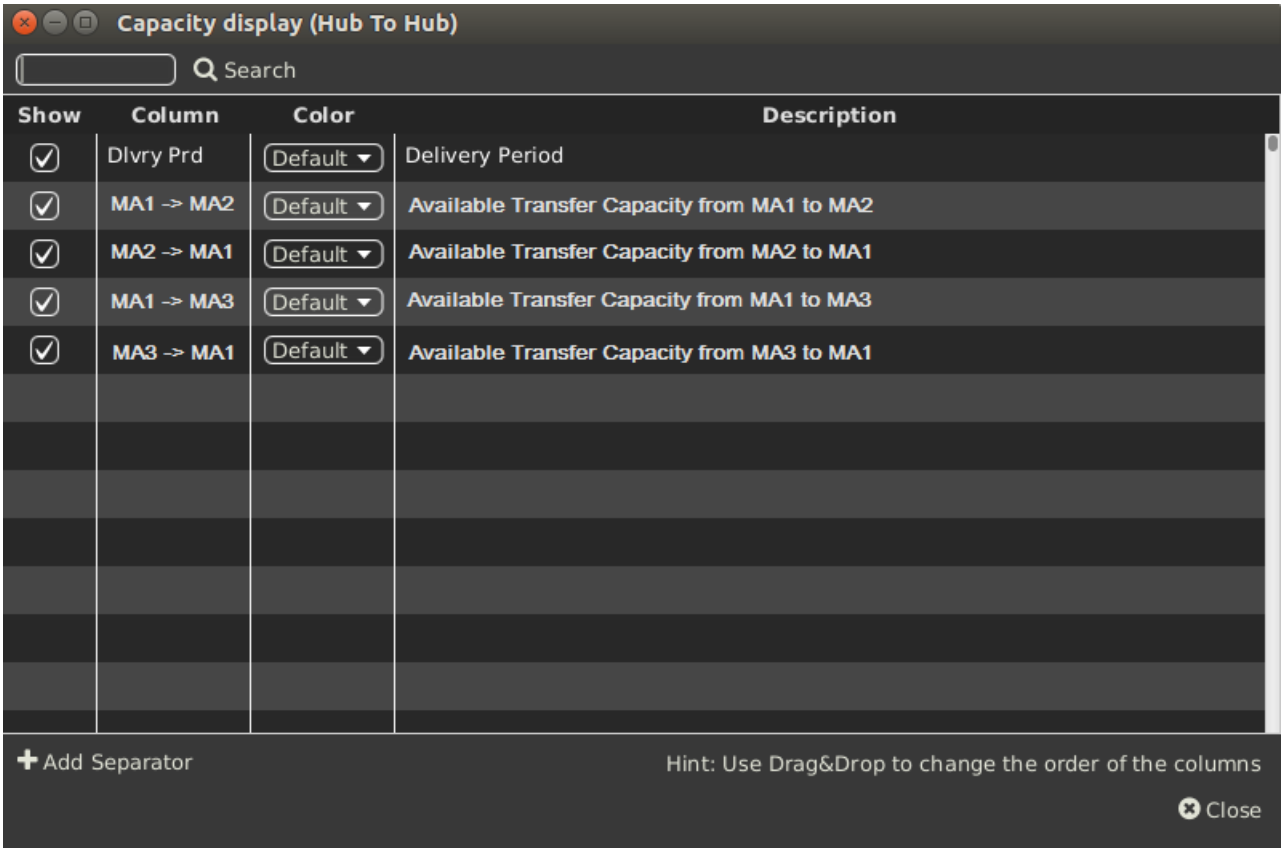
- Area A Area B
- Area B Area A
- Area A Area C
- Area C Area A
- etc.

A user can perform the selection of the desired paths by ticking or unticking the respective boxes in the first column. When the box for a path is ticked, a column for this path is added to the main table of Capacity Display (Hub To Hub) panel that will contain the ATC values related to this path. Only settings of shown paths (color, order) are stored on profile server.



5.24.4 Threshold for Highlighted Capacity Values

ComTrader allows an ATC threshold to be set. Any time one or more ATC values belonging to the paths displayed in the capacity matrix fall below the configured threshold value, such ATC value(s) will be highlighted in red. This will indicate to the users that the ATC on some paths is decreasing and an increase in prices can be expected.

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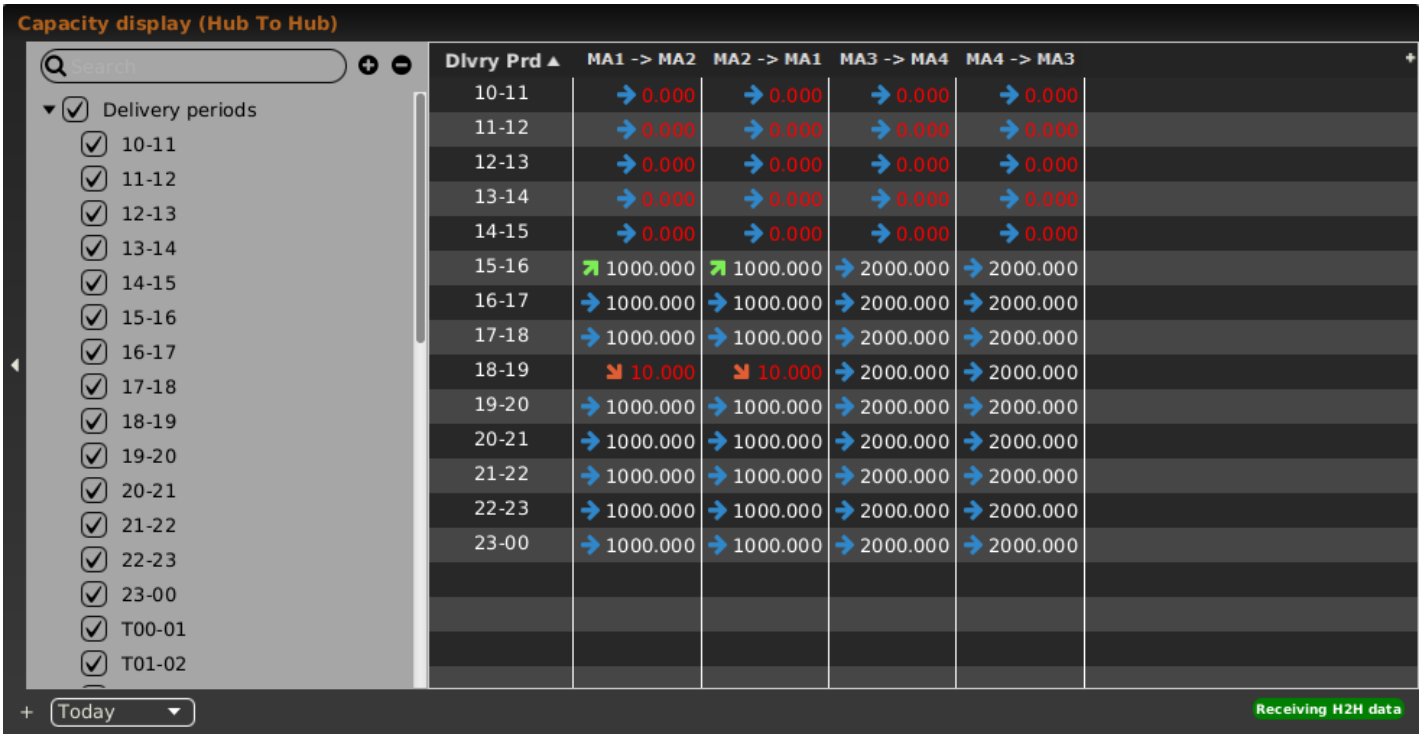

The configured threshold value is applied to the entire capacity matrix, i.e. to all paths in the capacity matrix. For the threshold configuration see *General*.

5.24.5 Display of Trend

The trend in the ATC values is visualised with the little arrows situated next to the actual ATC values in the capacity matrix. The matrix is regularly updated. For regular update see *General Description*.

Trend Indicator	Description
	$ATC_t > ATC_{t-1}$ on the path *Area 1* to *Area 2.* The value of ATC on the path *Area 1* to *Area 2* has increased since its last update.
	$ATC_t < ATC_{t-1}$ on the path *Area 1* to *Area 2.* The value of ATC on the path *Area 1* to *Area 2* has decreased since its last update.
	$ATC_t = ATC_{t-1}$ on the path *Area 1* to *Area 2.* The value of ATC on the path *Area 1* to *Area 2* has not changed since its last update.

5.24.6 Capacity Matrix Monitoring

The H2H service is responsible for updating the ATC values in the capacity matrix.

M7 monitors the connection to XBID and displays the status in the status bar situated in the bottom right corner of the panel. In the event that M7 is not able to publish the updated ATC values (M7 is disconnected, XBID data has not been received etc.), users will be informed that the ATC values are outdated.

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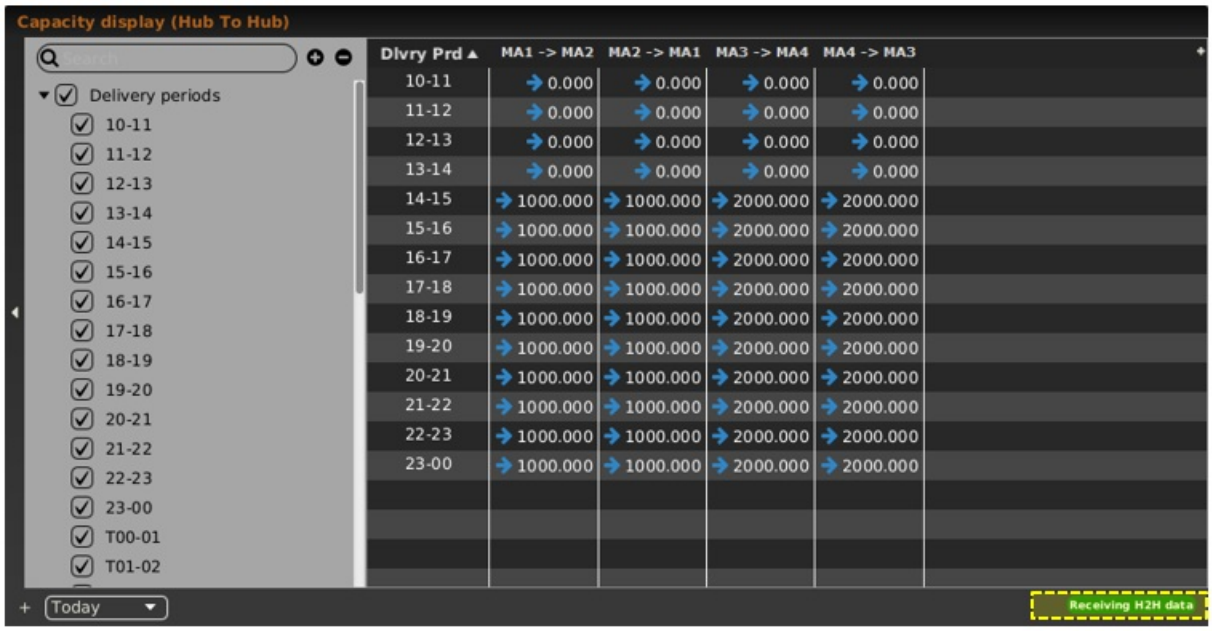

The following states of the capacity matrix can be displayed:

Message in ComTrade	Status Message	Description
Connecting to H2H	Connected to H2H	The connection to the H2H service is being initialized.
Receiving H2H data	Receiving H2H data	The H2H service is connected to XBID and broadcasting data.
Not receiving H2H data	Not receiving H2H data	The H2H service is not connected to XBID. The component issues heartbeats.
Not connected to H2H	Not connected to H2H	The connection to the H2H service has been lost. The component does not issue heartbeats.

5.24.7 Column Description

The Capacity Display (Hub To Hub) panel features the below listed columns.

Column Title	Name	Description
DlvryPrd	Delivery Period	Delivery Period in hourly resolution intervals as provided by the XBID instance. **Valid values:** Delivery Periods for today and tomorrow.
MA1 MA2	ATC from <Area 1> to <Area 2>	ATC in the path Area 1 to Area 2
MA2 MA1	ATC from <Area 2> to <Area 1>	ATC in the path Area 2 to Area 1

Note: The number of columns in the capacity matrix will depend on how many paths the user selected to be displayed (see *4.28.3 Adding and Removing Paths between Areas*).

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5.24.8 Customisation and Filters

Feature	Description
Dlvry Prd	The Delivery Periods selected in the main table of the panel can be sorted as described in *Row Sorting*.
Order of Columns	The order of columns can be customised as described in *Column Order*.
Column Colour	The background colour of the columns can be customised as described in *Background Colour*.
Bottom Bar Functions	Clicking on the (+) symbol in the bottom bar will open a dialogue to customise the order and availability of functions on the bottom bar (see *Customize Bottom Bar*).
Dlvry Prd	Determines the display of Delivery Periods in the panel based on the delivery date. **Valid values:** **Today** – Only Delivery Periods for today are displayed. **Tomorrow** – Only Delivery Periods for tomorrow are displayed. **All** – All available Delivery Periods are displayed.

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6 Order Entry Support

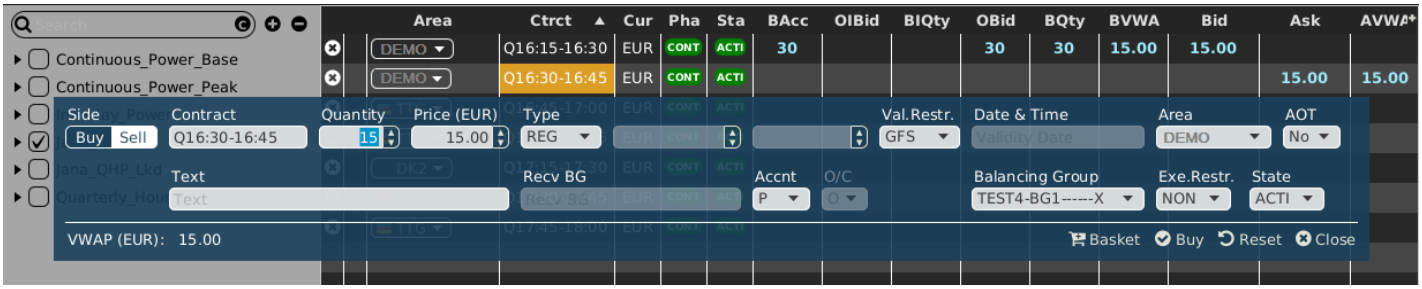
6.1 General

Instead of entering all the data for submitting a new order manually in the Order Entry panel, a user can pre-fill an Order Entry panel with values by clicking left or right (as configured in the settings menu, see *Trading Preferences*) in the main table of the panels:

- Market Overview (Predefined products)
- Market Overview (User Defined Delivery Period)
- Market Details
- Order Book Details.

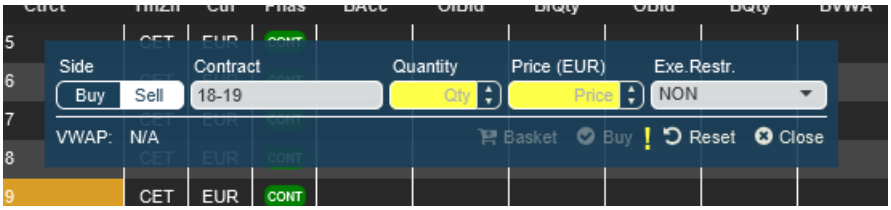
6.2 Floating Order Entry Panel

If no Order Entry panel is part of the same trading board and the user applies a mouse action defined in the *Trading Preferences* on a cell or value, a pre-filled *floating Order Entry panel* (see *Order Entry Advanced Horizontal*) is opened.



6.3 Floating Simple Order Entry Panel

If no Simple Order Entry panel is part of the same trading board and the user applies a mouse action defined in the *Trading Preferences* on a cell or value, a pre-filled *floating Simple Order Entry panel* (see *Order Entry Simple*).



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7 Settings

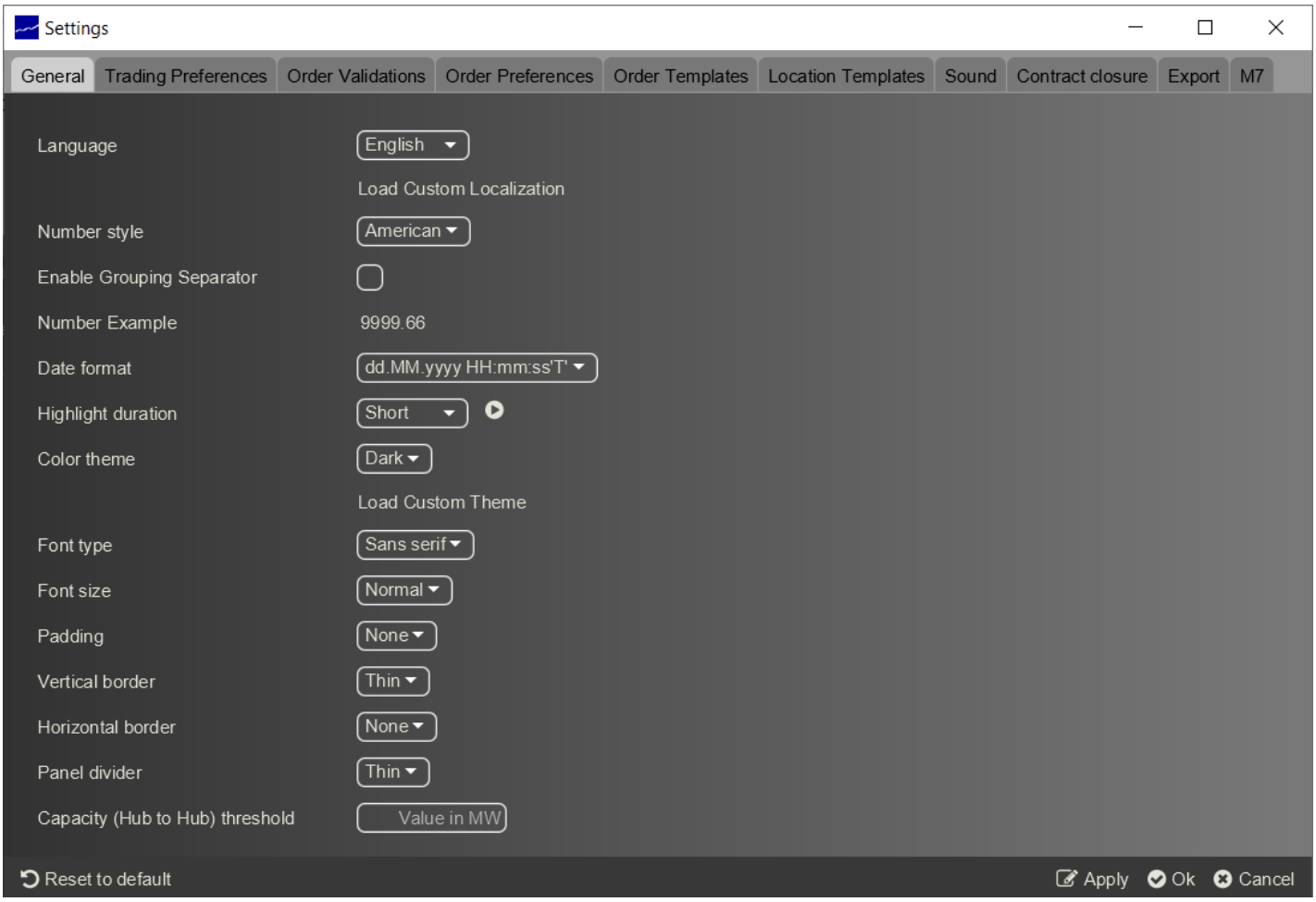
7.1 General Description

The settings menu can be opened by selecting the option “Settings” from the “General” menu of a trading window or the login window. All settings are stored on a server profile.

The settings menu contains several categories separated in tabs which are described in the following sections.

The availability of tabs depends on the exchange that ComTrader is currently connected to. This is because there may be specialised tabs which are only available for some exchanges.

7.2 General



Field	Description
Language	The language used in the GUI.
Load Custom Localization	Allows the upload of a properties file with a user-translated ComTrader interface. Note that the presence of the Load Custom Localisation button is limited to testing/development purposes and also depends on the specific environment.

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Field	Description
Number Style	The number style which defines the decimal separator and thousand separator. In the European format the decimal sign is a comma, whilst the thousand separator is a dot. In the American format the decimal sign is a dot, whilst the thousand separator is a comma.
Enable Grouping Separator	Enables/Disables the thousand separator. The type of separator depends on the selection in the field "Number Style".
Number Example	An example for the current number settings.
Date Format	The format in which date/time information is displayed.
Highlight Duration	The highlight duration for new information in a panel. The selected setting can be previewed by clicking the arrow button.
Colour Theme	Enables the selection of a colour theme.
Load Custom Theme	Allows the upload of a .css file with user-customised colours and formatting. Note that the presence of the Load Custom Theme button is limited to testing/development purposes and also depends on specific environment.
Font type	Enables the selection of a font type.
Font size	Enables the selection of the font size.
Padding	Defines the size of the gap between the column border and its text.
Vertical border	Defines the width of the column borders.
Horizontal border	Defines the width of the row borders.
Panel divider	Defines the size of the gap between panels.
Capacity (Hub to Hub) value threshold	Defines the threshold value for ATC. If configured, all ATC values displayed in the capacity matrix will be checked against this value and highlighted in red in case they are lower.

7.3 Trading Preferences

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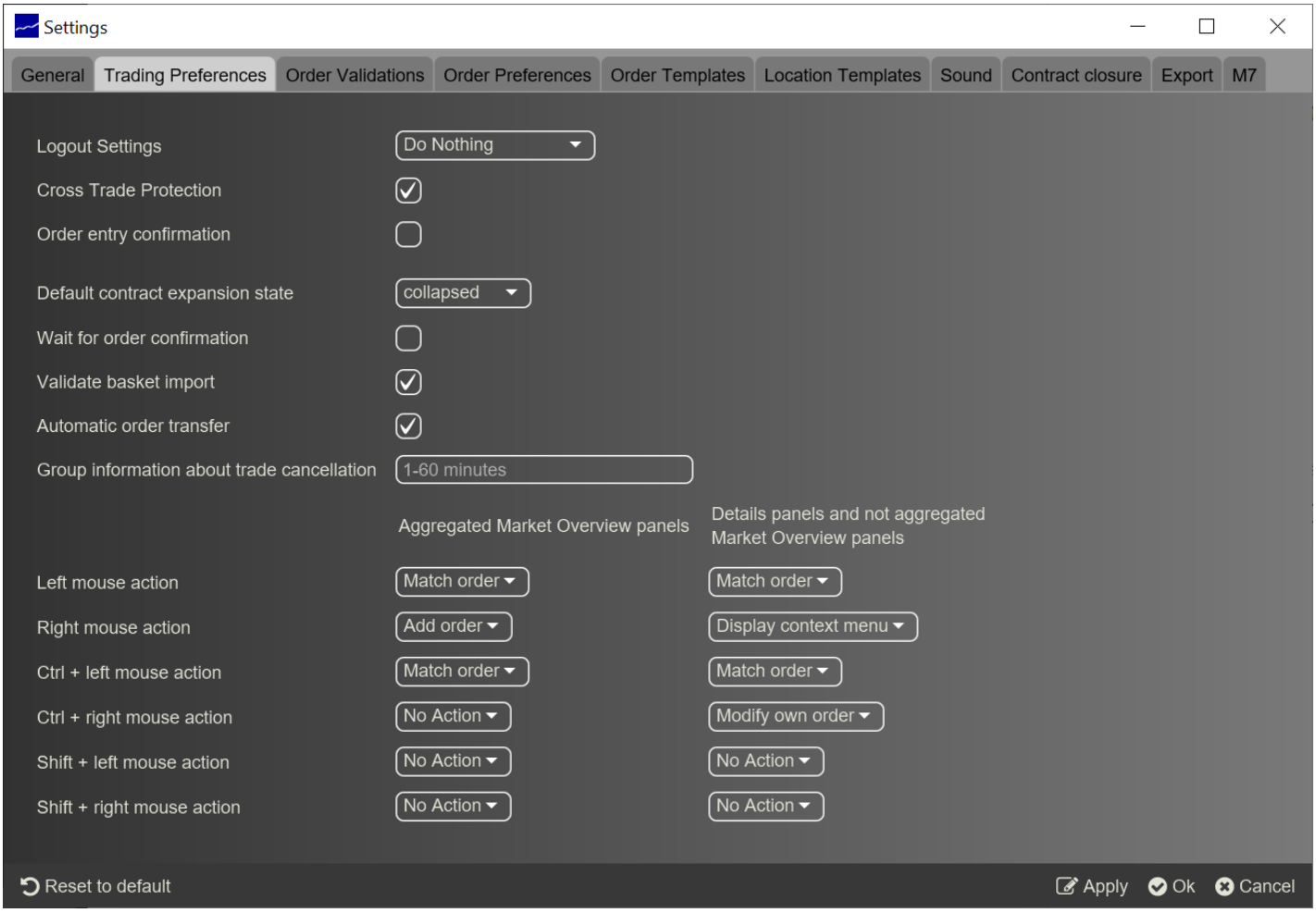

This tab contains basic settings related to order entry and order entry support (see *Order Entry Support*).

Field	Description
Logout Settings	Defines the order behaviour upon system logout: - Do Nothing - Deactivate Orders - Delete Orders

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Field	Description
Cross Trade Protection	If the option is checked, a warning message is displayed whenever the user is about to submit an order that could match an existing own order. That is, the order to be matched has been submitted for one of the balancing groups assigned to the trader who has submitted the aggressor's order. **Example 1**: There exist BG1 and BG2 assigned to member A. Trader 1 has assigned BG1, Trader 2 has assigned both BG1 and BG2. When Trader 1 enters a Buy order on BG1 and Trader 2 enters a Sell order on BG2, the cross-trade warning is triggered. **Example 2**: BG1 and BG2 exist and are assigned to member A. Trader 1 has BG1 assigned, Trader 2 has BG2 assigned. When Trader 1 enters a Buy order on BG1, and Trader 2 enters a Sell order on BG2, the cross-trade warning is NOT triggered. **Example 3:** BG1 and BG2 exist and are assigned to member A. Trader 1 has BG1 and BG2 assigned. Trader 2 has only BG2 assigned. When Trader 1 enters a Buy order on BG1 and Trader 2 enters a Sell order on BG2, the cross-trade warning is NOT triggered.
Order Entry Confirmation	If the option is checked, a confirmation dialogue will be displayed whenever a new order is entered.
Default contract expansion state	The user can define the contracts display on the Market Overview (User Defined Delivery Period) or Market Overview (Predefined products) panel: - expanded – contracts are initially displayed in the configured market depth - collapsed - contracts are initially displayed in the market depth of 1 The selected action is performed whenever contracts are: - newly dragged and dropped - selected using Instrument Navigator (see *Built-in Instrument Navigator*) - new contracts are generated - user logs in
Wait for order confirmation	If the option is checked, the Order Entry panel is reenabled only after the server confirms the sent orders.
Validate Basket Import	If the option is checked, ComTrader will warn the user if duplicate orders are imported into a basket.
Automatic Order Transfer	If the option is checked, **orders shall be automatically transferred to the corresponding linked contract after the trading in the specific delivery area ends in XBID.**

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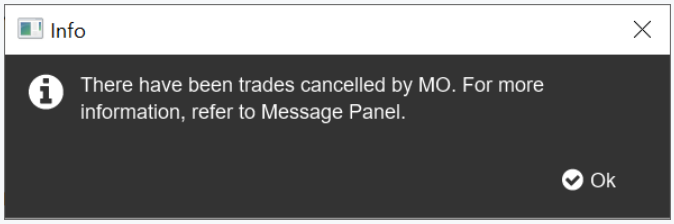
Field	Description
Group information about trade cancellation	The setting is available exclusively for EPEX. If the field contains value (1-60 minutes), then the grouping is enabled. In case of trade cancellation, ComTrader checks if there has been previous trade cancellation made in the set time interval. If yes, ComTrader displays one general information pop-up about it, instead of the individual pop-ups for each half of the trade.  If not, or if the value is not filled in at all, ComTrader displays the individual pop-up informing about the cancellation for each half of the cancelled trade.
Mouse button configuration	Defines the default behaviour for mouse button actions like left- or right-clicking in the “Aggregated Market Overview Panels” (Market Overview) and "Details Panels" (Market Details, Admin Market Details, Order Book Details, Admin Order Book Details) and not aggregated Market Overview panels, i.e. Market Overview (Predefined products), Market Overview (User Defined Delivery Period). **Add order** - The Order Entry panel will be pre-filled with data to add an order with the same characteristics as the one that has been clicked on. **Match order** - The Order Entry panel will be pre-filled with data that would match the order that has been clicked on. **Simple match order** - The Simple Order Entry panel will be pre-filled with data that would match the order that has been clicked on. **Simple add order** - The Simple Order Entry panel will be pre-filled with data to add an order with the same characteristics as the one that has been clicked on. **Modify own order** - The Order Entry Modification panel is opened pre-filled with the data from the selected order **No action** - No action is performed upon clicking

7.4 Order Validations

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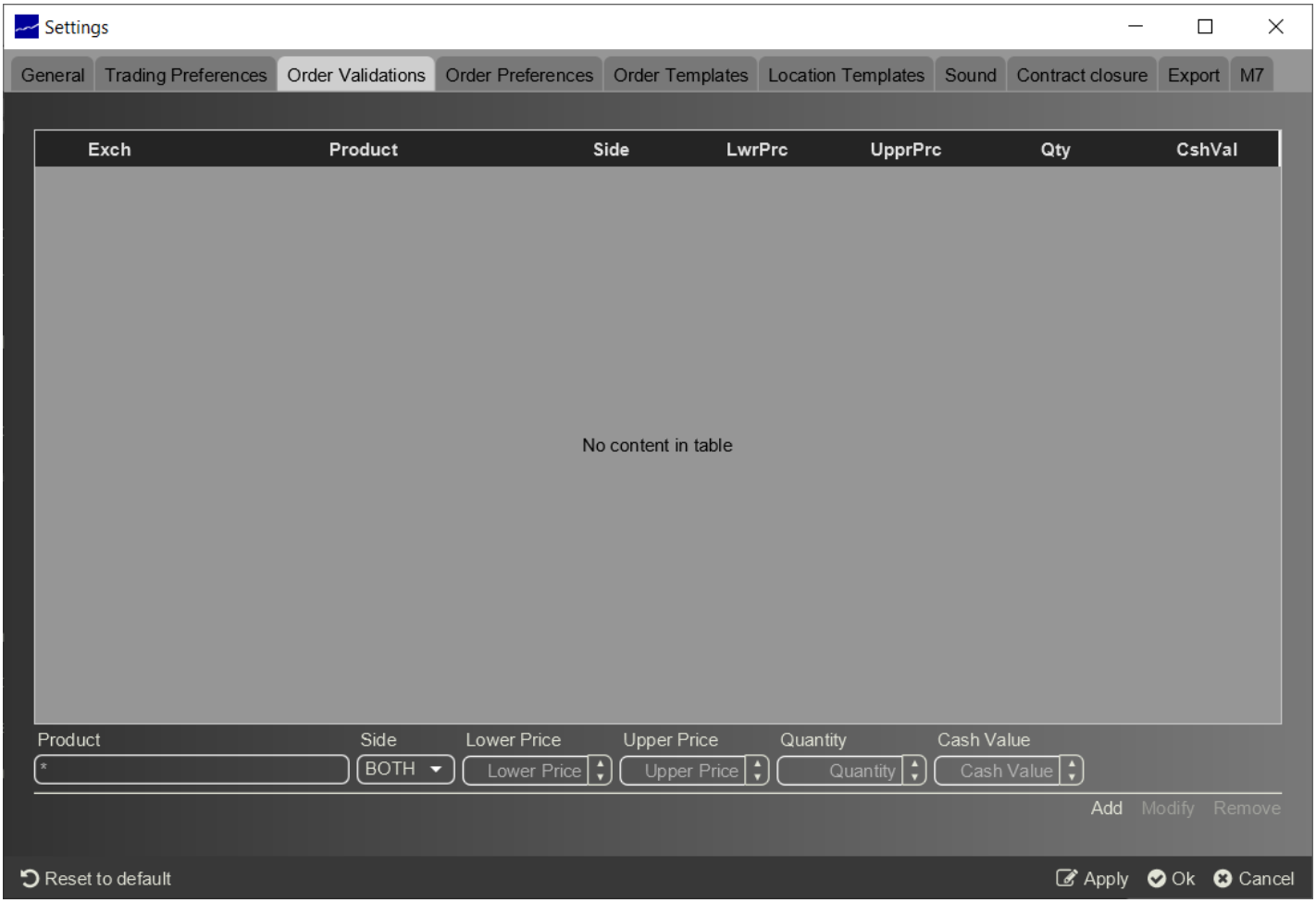

In the Order Validations panel, a user can define custom order validation rules.

Whenever a new order is entered (or an existing one is modified), it will first be validated against the rules defined in this panel. If one or more validation criteria are met, a confirmation dialogue is displayed in which a user can either proceed with the action or cancel it.

A rule can be added by clicking the “Add” button, modified by clicking the “Modify” button, or deleted by clicking the “Remove” button.

For each rule, the following fields can be defined (depending on the configuration of the connected exchange only a subset of the following columns could be available):

Field	Description
Exch (Exchange)	The exchange at which the selected product is traded.
Product	Product to which the validation rule is applied.
Side	The order side (buy, sell or both) to which the validation rule is applied.
LwrPrc (Lower Price)	The warning is displayed if the order price is lower than the price limit defined here.
UpprPrc (Upper Price)	The warning is displayed if the order price is higher than the price limit defined here.
Qty (Quantity)	The warning is displayed if the quantity entered in an Order Entry panel exceeds the quantity defined here.

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Field	Description
CshVal (Cash Value)	If the cash value of an order exceeds the value defined here, the warning is displayed.

Examples:

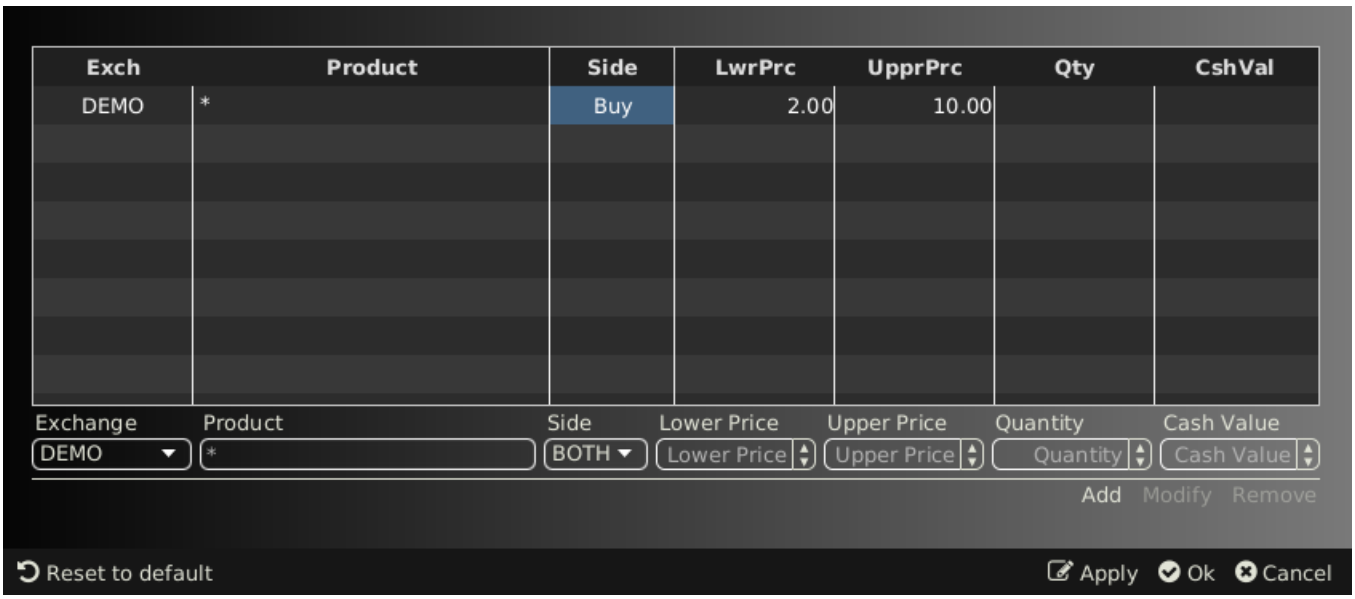
a) Price range valid only for buy side

A user trading on the DEMO exchange would like to be warned whenever he/she is about to enter a buy order with a price below 2€ or greater than 10€.

The following validation rule will have to be added:

Exchange: DEMO
Product : *
Side: BUY
Lower Price: 2
Upper Price: 10
Quantity: *empty*
Cash Value: *empty*

By clicking the "Add" button, the rule is then entered into the list of determined rules.



Clicking the "Ok" or "Apply" button will activate the rule.

If the user then tries to enter the following order:

Buy, 17-18 (a contract of the "60 Min Power" product), 10 MW @ 0.10 €

the following validation dialogue will be displayed:

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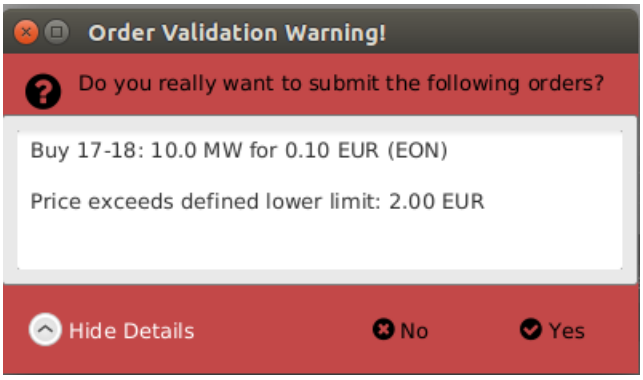


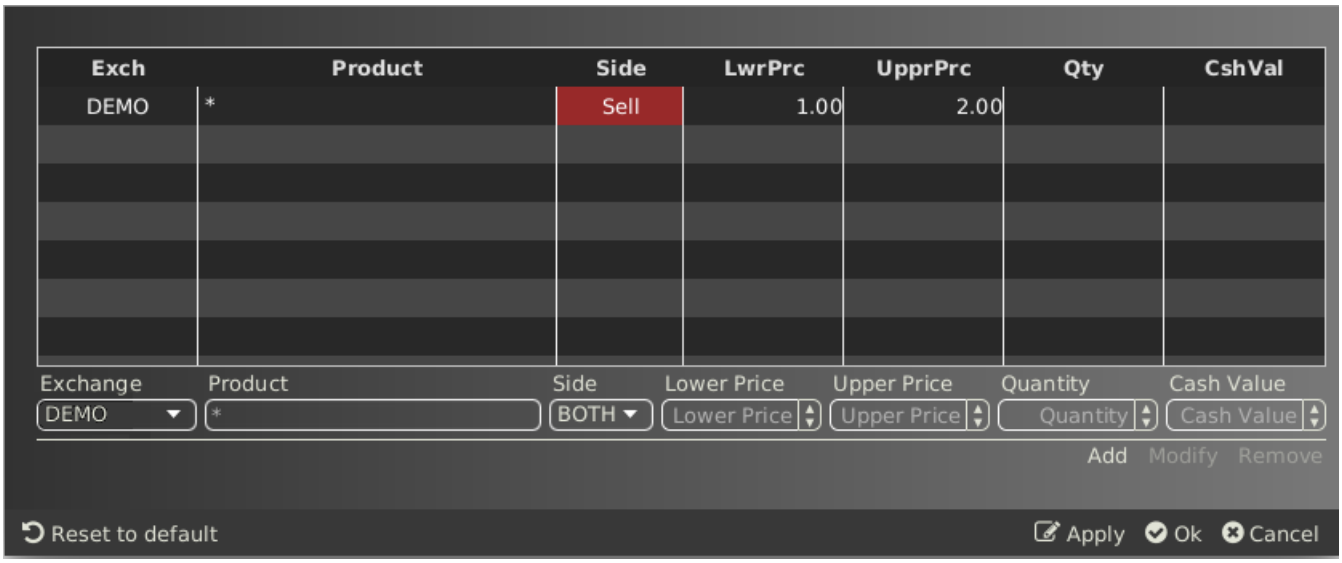
because the order's price is below the price limit in the defined validation rule.

b) Price range valid only for sell side A user trading on the DEMO exchange would like to be warned whenever he/she is about to enter a sell order with a price below 1€ or greater than 2€.

The following validation rule will have to be added:

Exchange: DEMO
Product: *
Side: Sell
Lower: 1
Upper: 2
Quantity: *empty*
Amount: *empty*

By clicking the "Add" button, the rule is then entered into the list of determined rules.



Clicking the "Ok" or "Apply" button will activate the rule.

If the user then tries to enter the following order:

Sell, 20Q3, 10 MW @ 15.5 €

the following validation dialogue will be displayed:

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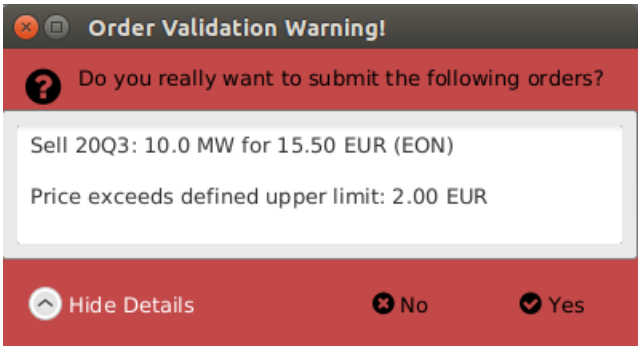

Because the order's price exceeds the price limit in the defined validation rule.

c) Price range valid for both sides

A user trading on DEMO exchange would like to be warned whenever he/she is about to enter an order with a price below 15€, or greater than 66€.

The following validation rule will have to be added:

Exchange: DEMO
Product: *
Side: Both
Lower: 15
Upper: 66
Quantity: *empty*
Amount: *empty*

By clicking the "Add" button, the rule is then entered into the list of determined rules.

Clicking the "Ok" or "Apply" button will activate the rule.

If the user then tries to enter the following order:

Buy, 19-20, 10 MW @ 100 €

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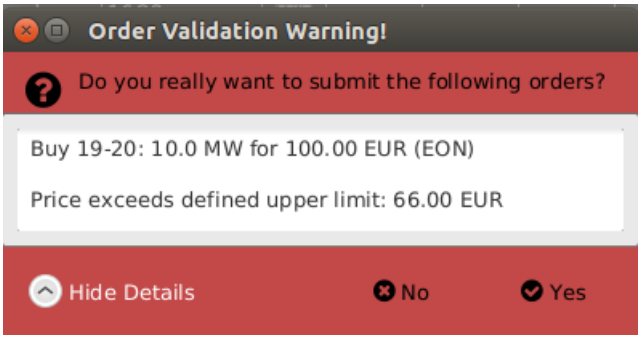
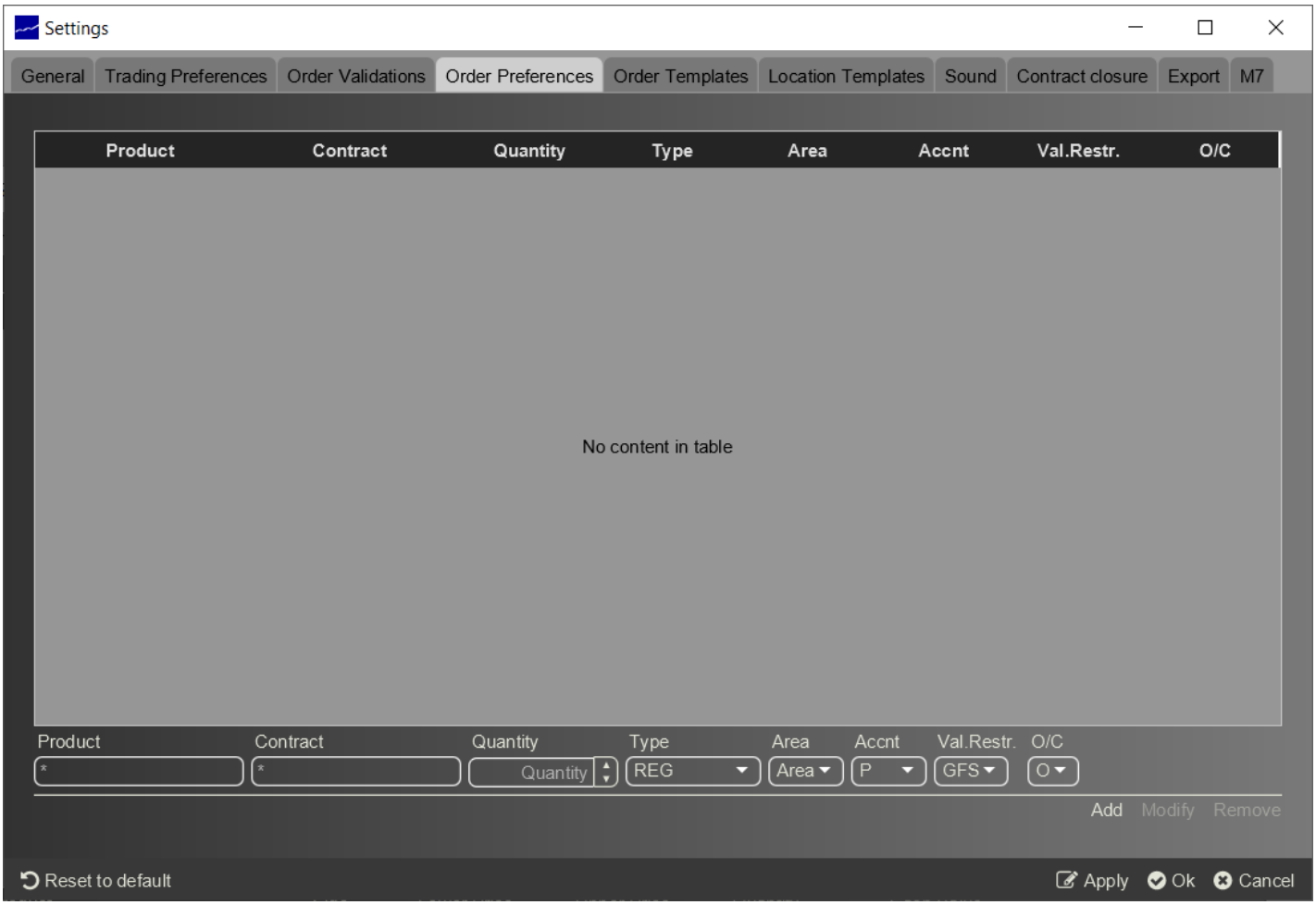
the following validation dialogue will be displayed:



Because the order's price exceeds the price limit in the defined validation rule.

7.5 Order Preferences



In the Order Preferences panel, user specific order preferences can be defined.

Whenever the user attempts to submit an order for the product and contract for which a preference has been defined in this panel, the quantity and the order type in the Order Entry panel are prefilled with the values set according to this preference.

A preference can be added by clicking the “Add” button, modified by clicking the “Modify” button, or deleted by clicking the “Remove” button.

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For each preference, the following fields can be defined (depending on the configuration of the connected exchange only a subset of the following columns could be available):

Field	Description
Product	Product to which the preference is applied. Reduces the contracts available for selection in the “Contract” field.
Contract	Contract to which the preference is applied.
Quantity	Default order quantity that should be prefilled in the Order Entry panel for the contract stated by the preference.
Type	Default order type that should be selected in the Order Entry panel for the contract stated by the preference.
Area	Default delivery area that should be selected in the Order Entry panel for the contract stated by the preference.
Accnt	Default account order type that should be selected in the Order Entry panel for the contract stated by the preference. Account type values of the order are exchange specific (please refer to DFS180 Public Message Interface).
Validity Restriction	Default validity restriction that should be selected in the Order Entry panel for the contract stated by the preference. **Valid values:** GFS - Good for session GTD - Good till date
O/C	Default Open/Close indicator that should be selected in the Order Entry panel for the contract stated by the preference.

7.6 Order Templates

The below described functionality is available only if the Order Templates panel is activated.

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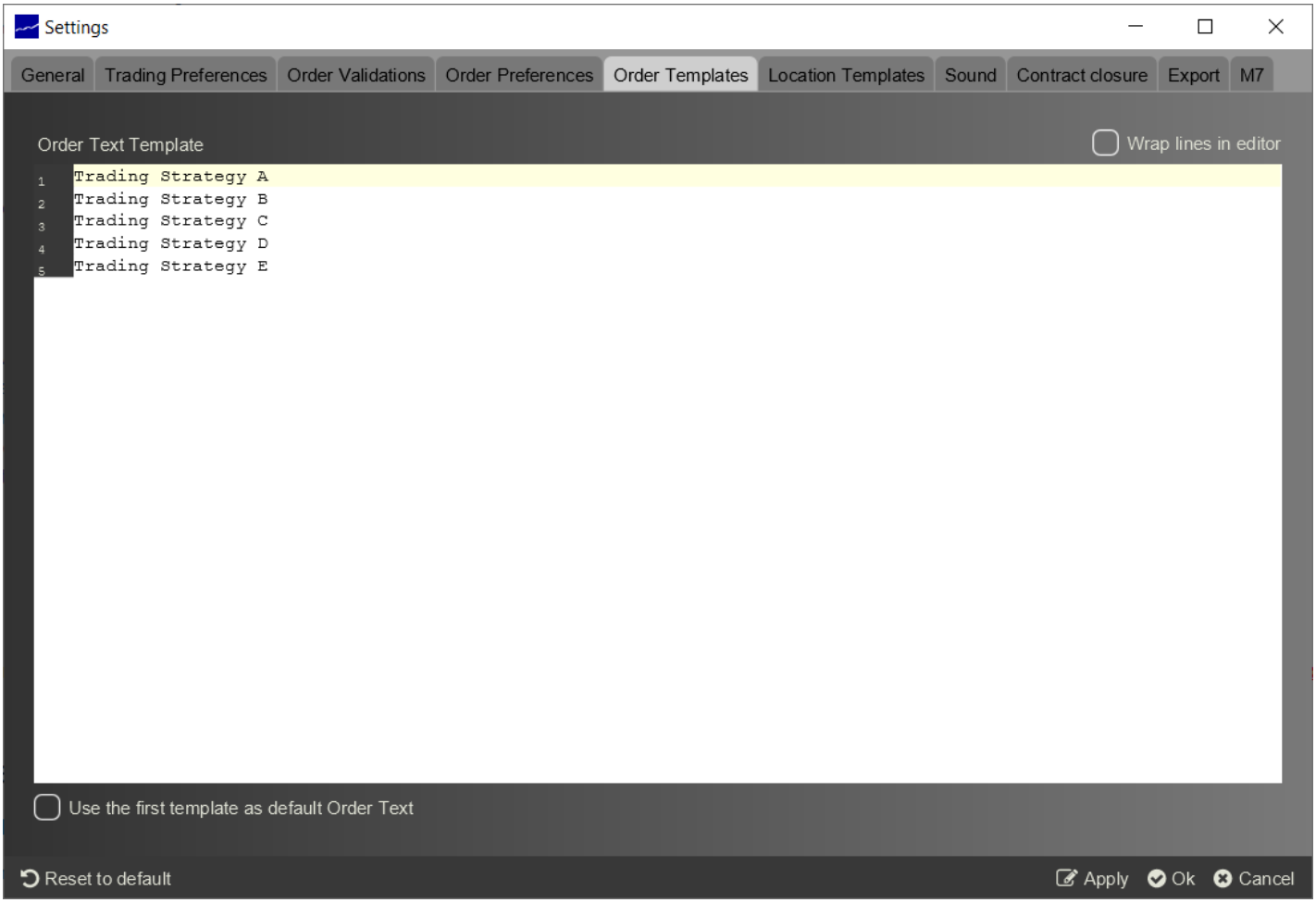
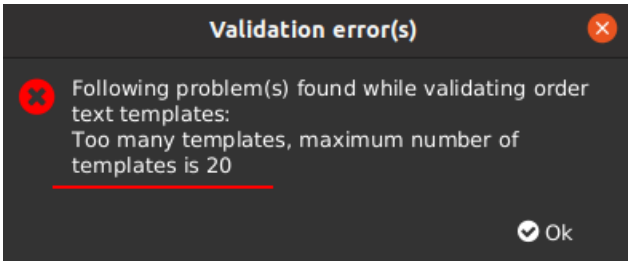


In the Order Templates panel, it is possible to define up to 20 order text templates. These templates can be later selected in the Text field during the order entry or modification process.

The templates can be either added manually directly in the panel as one-line entries or prepared outside of ComTrader and then copy-pasted into the panel. A number on the left of the entry indicates the priority (lower number indicates higher priority in the suggestions drop-down).

The maximal length of each text template is 250 characters. Due to the limited screen area, very long templates may not be shown in full. In case the text template exceeds the length displayed, a scrollbar appears allowing the full inspection of the entry. Alternatively, the tickbox *Wrap lines in editor* can be toggled on or off to display the long template text in multiple consecutive lines. The wrapping is by default turned off.

In order to validate and store the entered order templates, the user shall click on Apply or OK buttons. During the validations, empty lines and rows containing solely empty characters are removed. If the maximal number of the templates or the maximal length per template is exceeded, the entries are rejected with a popup message containing the identified issues:



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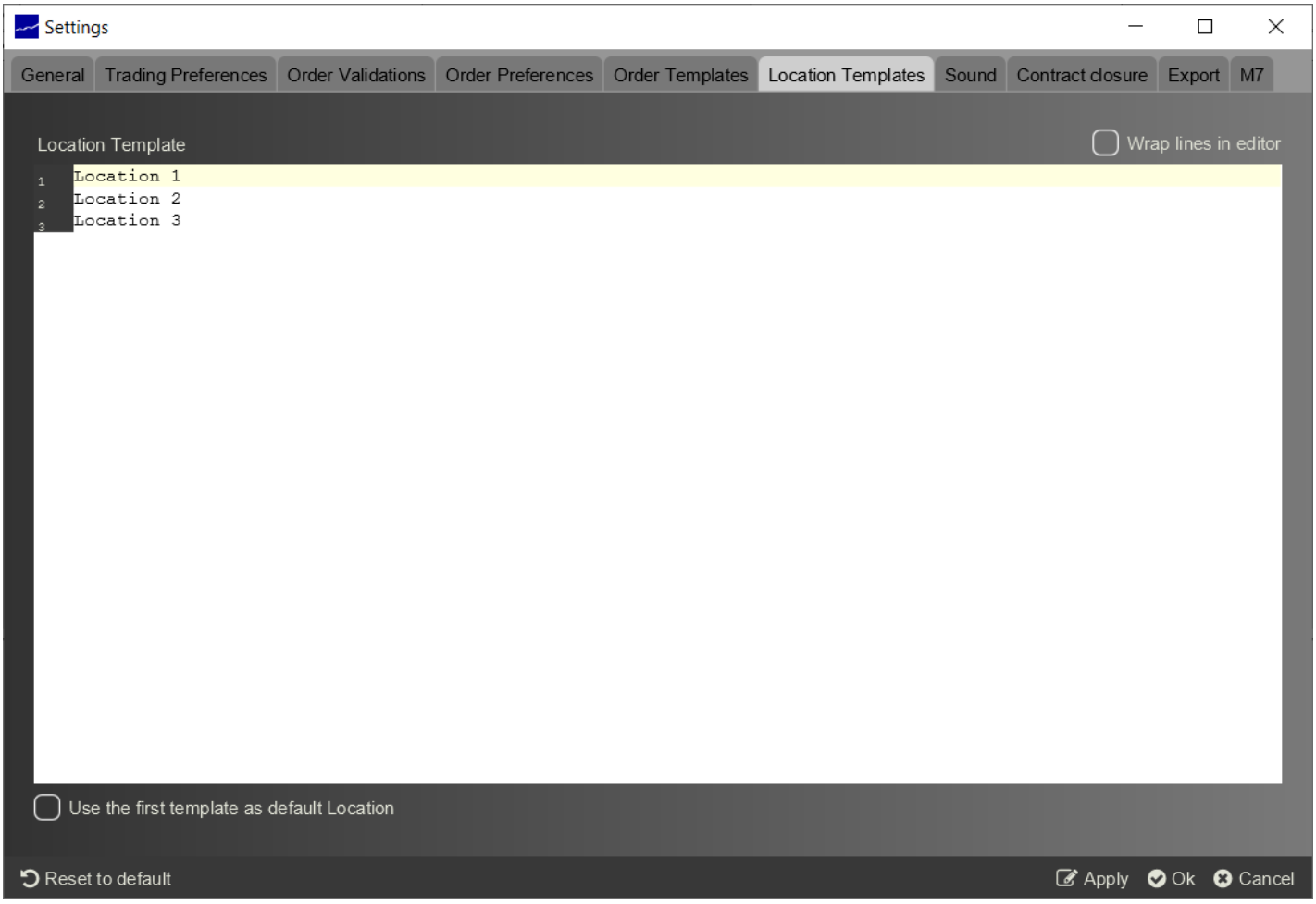
At any time, the *Cancel* button can be pressed to abort Order Template configuration. Previous Order Template configuration will be retained.

When the box *Use the first template as default Order Text* , situated in the bottom left corner, is ticked, the text defined in the first line of the panel will appear in the Text field during the order entry or modification.

7.7 Location Templates

The below described functionality is available only if the Location Templates panel is activated.



In the Location Templates panel, it is possible to define up to 50 location templates. These templates can be later selected in the Location field during the order entry or modification process.

The templates can be either added manually directly in the panel as one-line entries or prepared outside of ComTrader and then copy-pasted into the panel. A number on the left of the entry indicates the priority - lower number indicates higher priority in the suggestions drop-down.

The maximal length of each location template is 64 characters. Due to the limited screen area, very long templates may not be shown in full. In case the location template exceeds the length displayed, a scrollbar appears allowing the full inspection of the entry. Alternatively, the tickbox *Wrap lines in editor* can be toggled on or off to display the long template text in multiple consecutive lines. The wrapping is turned off by default.

To validate and store the entered location templates, the user shall click on Apply or OK buttons. During the validation, empty lines and rows containing solely empty characters are removed. If the maximal number of the templates or the maximal length

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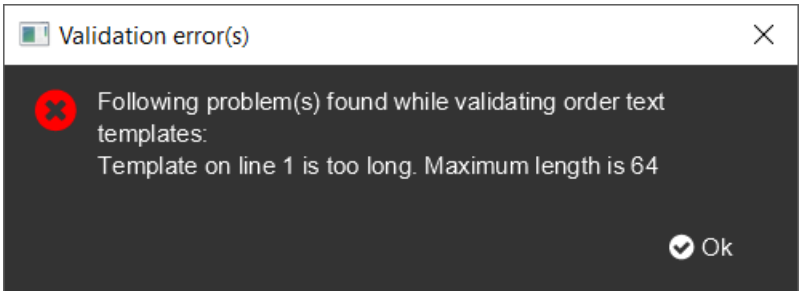
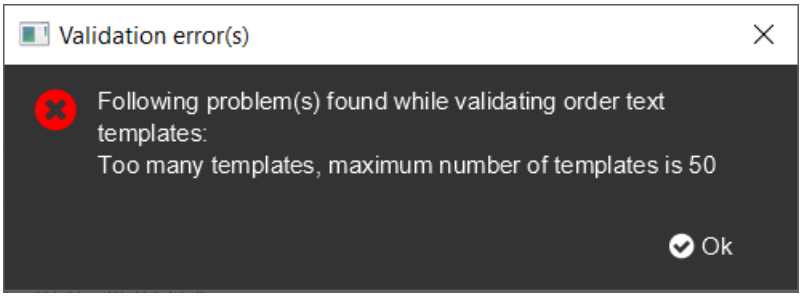
per template is exceeded, the entries are rejected with a popup message containing the identified issues:





At any time, the *Cancel* button can be pressed to abort Location Template configuration. Previous Location Template configuration will be retained.

When the box *Use the first template as default Location* , situated in the bottom left corner, is ticked, the location defined in the first line of the panel will appear in the Location field during the order entry or modification.

7.8 Facility Type Templates

The functionality described below is available only if the Facility Type Templates panel is activated, i.e. when Location are enabled on the environment.

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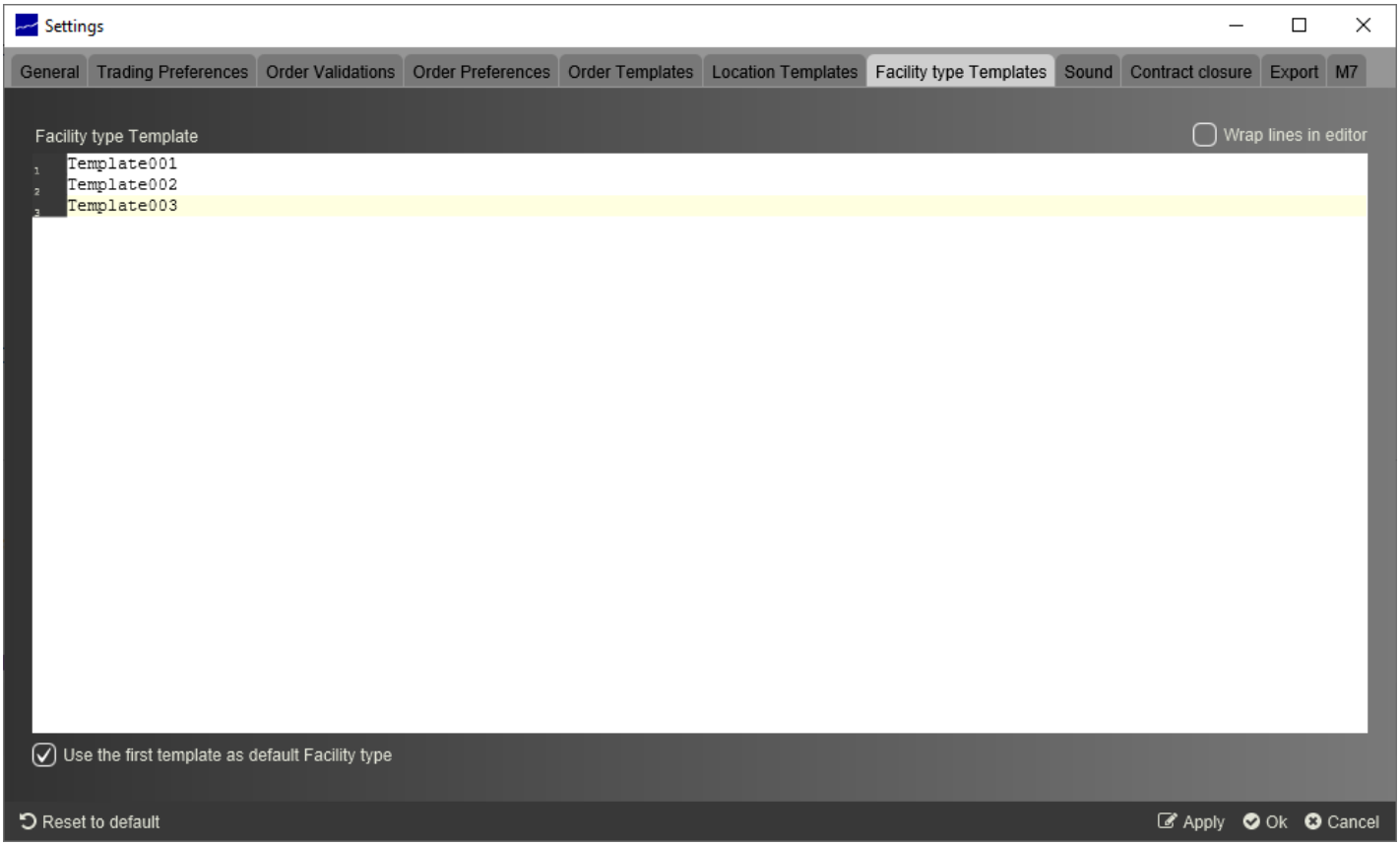
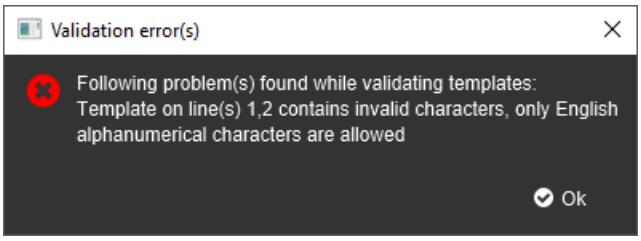


In the Facility Type Templates panel, it is possible to define up to 50 Facility type templates. These templates can be later selected in the Facility Type field during the order entry or modification process.

The templates can be either added manually directly in the panel as one-line entries or prepared outside of ComTrader and then copy-pasted into the panel. A number on the left of the entry indicates the priority - lower number indicates higher priority in the suggestions drop-down.

The maximal length of each Facility type template is 16 characters. Due to the limited screen area, very long templates may not be shown in full. In case a template exceeds the length displayed, a scrollbar appears allowing the full inspection of the entry. Alternatively, the tickbox *Wrap lines in editor* can be toggled on or off to display the long template text in multiple consecutive lines. The wrapping is turned off by default.

To validate and store the entered templates, the user shall click on Apply or OK buttons. During the validation, empty lines and rows containing solely empty characters are removed. Only letters (a-z, A-Z) and numbers (0-9) are allowed. If the maximal number of the templates or the maximal length per template is exceeded, the entries are rejected with a popup message containing the identified issues:



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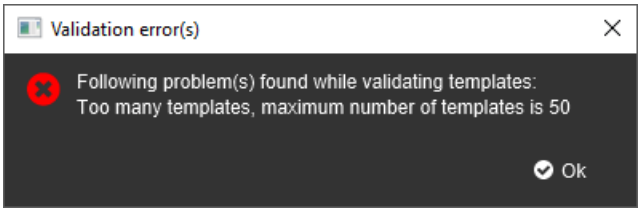
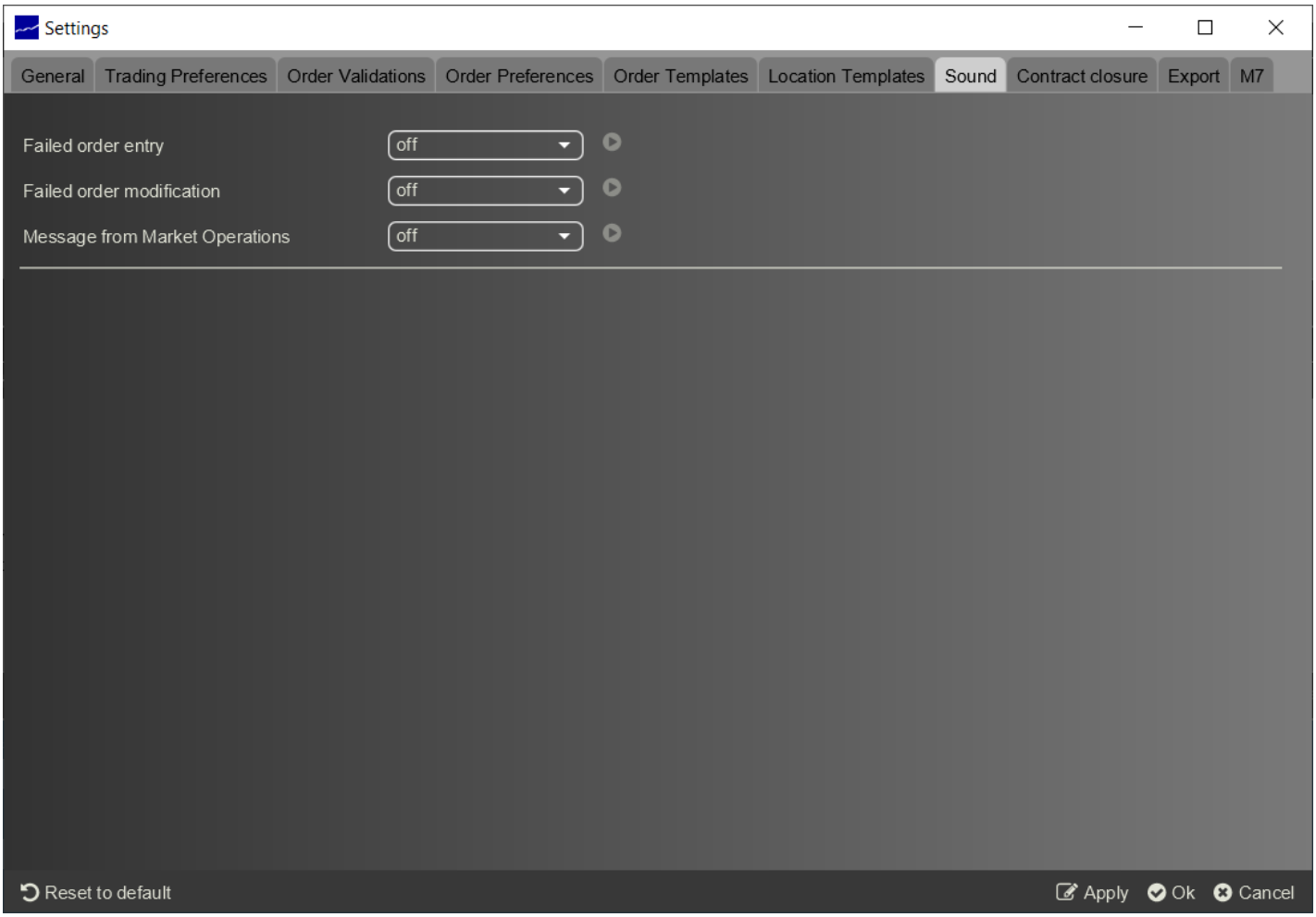


At any time, the *Cancel* button can be pressed to abort Facility Type Template configuration. Previous template configuration will be retained.

When the box *Use the first template as default Facility type* , situated in the bottom left corner, is ticked, the value defined in the first line of the panel will appear in the Facility Type field during the order entry or modification.

7.9 Sound



A specific sound can be assigned to the:

- execution of orders of a certain product,
- failure of order entry or modification,
- messages received from Market Operations,
- trade recall request (only available for admin users).

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The sound will be played whenever an order is executed in one of the contracts of the corresponding products, or when the entry or modification of an order fails. In addition, the specific sound can be played when Market Operations send a message to the market. The specific sound in case of a trade recall request can only be selected by admin users. By pressing the button on the right side of every selection box, a preview of the selected sound is played.

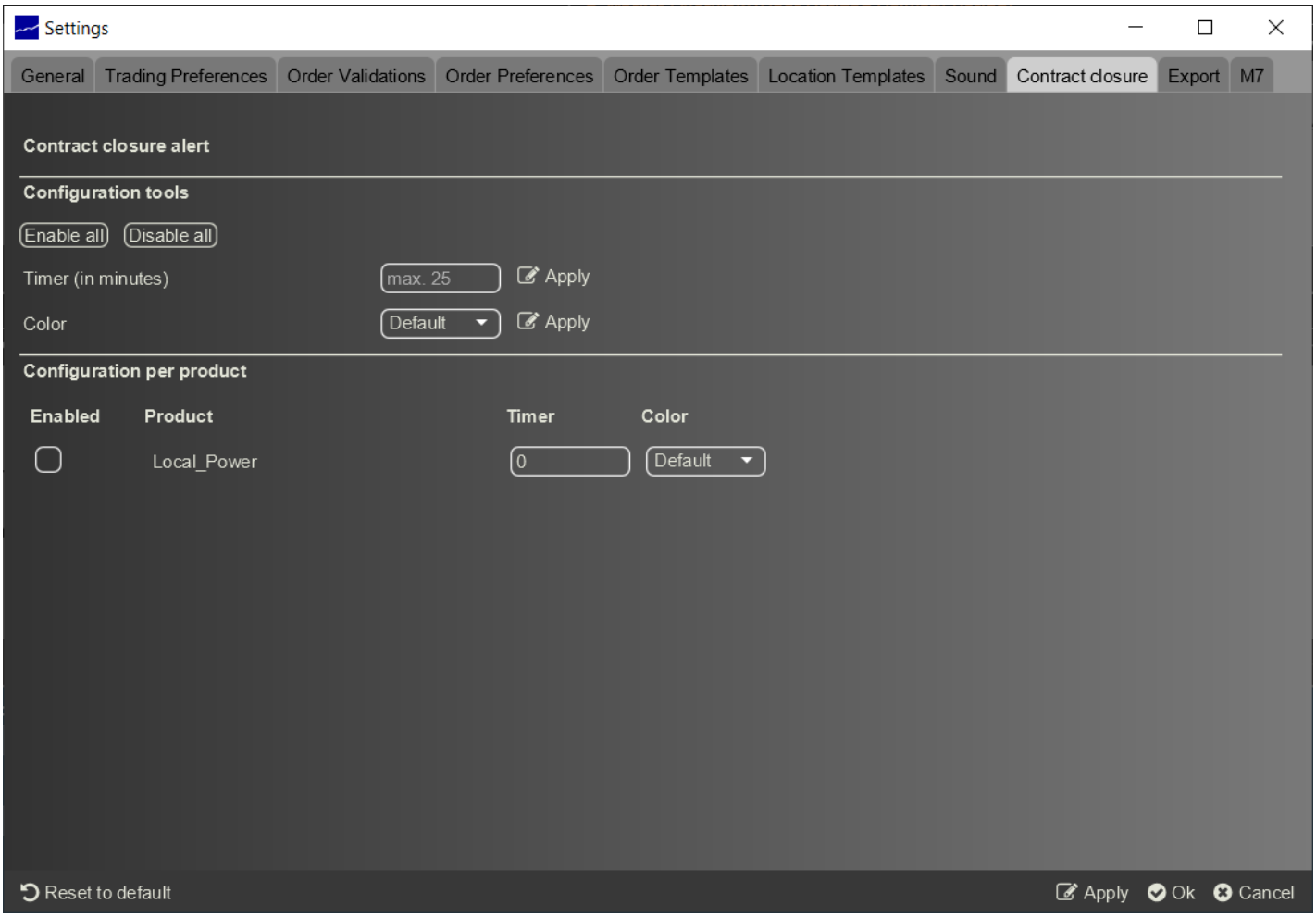
7.10 Contract Closure

A specific alert can be assigned to the product as an indication of contract closure. The alert can be set for each product separately or it can be set for all assigned products at once in the Configuration tool section and confirmed by clicking on Apply button.

The alerts configuration has two parts:

- Timer (minutes, maximum of 25 minutes before contract closure)
- Color (Red, Orange, Green or Purple color can be set to highlight the alerted contract row)

To enable this setting for all Products click the Enable all button or click individual checkboxes in column Enable per Product and confirm by clicking Apply.



7.11 Export

The Export tab can be used for enabling the Continuous Export functionality.

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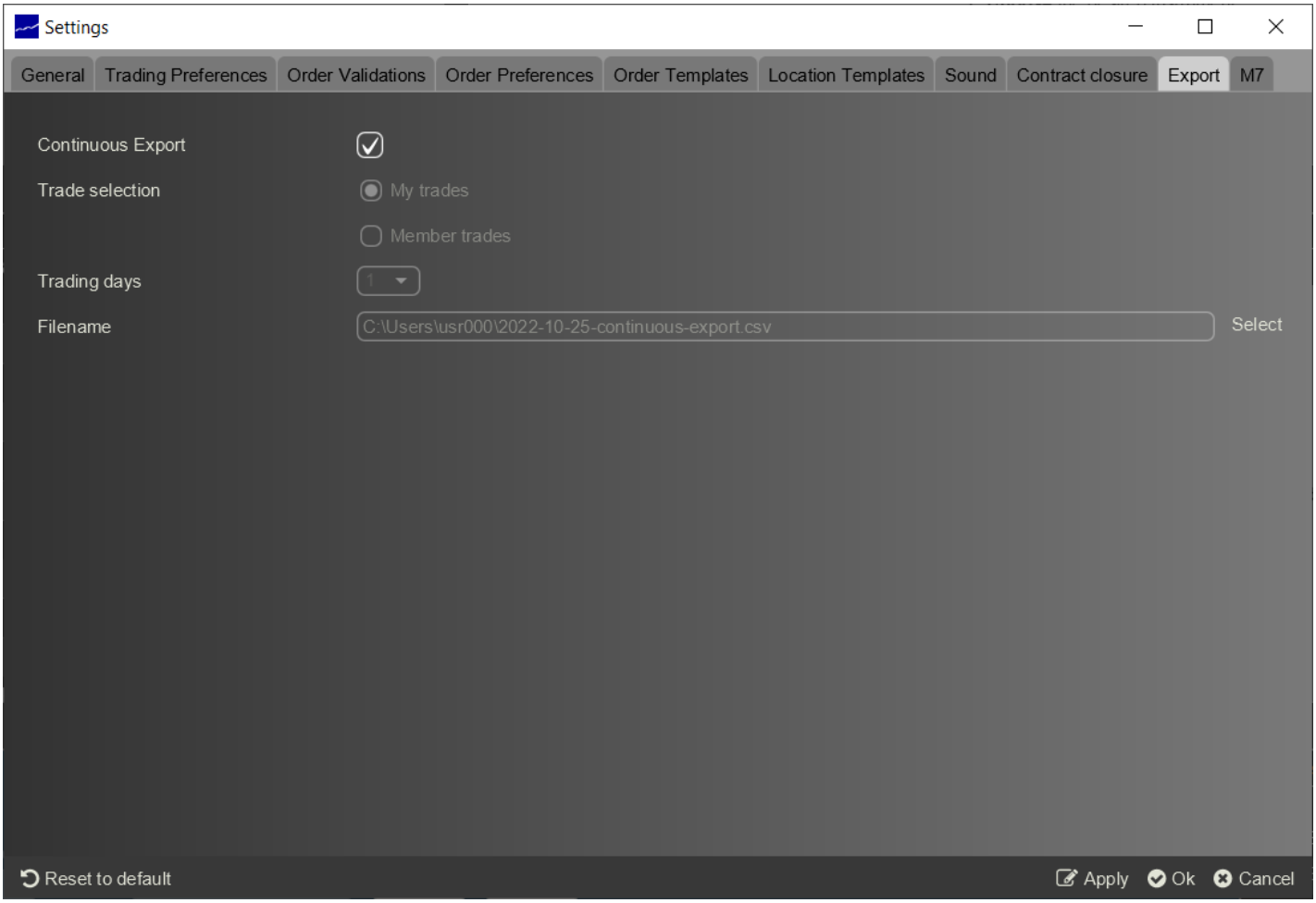

The page contains the following items:

Field	Description
Continuous Export	Turns the functionality on and off.
Trade Selection	**My trades** - Only trades executed based on orders owned by the logged in user are written to the export file. **Member trades** - All trades executed by the logged in user and all trades executed by traders belonging to the same Balancing Group are written to the export file.
Trading days	The amount of trading days to be uploaded to the continuous export file.
Filename	Name and location of the continuous export file (editable).

If the checkbox labelled "Continuous Export" is checked, the *Continuous Export* functionality is turned on and all trades are written to a file which is stored at the location specified in the "Filename" text field.

At the moment the checkbox is activated (or ComTrader is started with "Continuous Export" activated), the target file is deleted (if it exists already) and all trades of the selected "Trading days" are exported to it.

New trades are appended to the file as they occur and existing trade records in the file are never modified or deleted. This results in the file content and size continuing to increase for as long as the ComTrader session is running and new trades are written to it.

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If an existing trade, which was already written to the file is modified in the trading system, a new trade record with the changed attributes is appended at the end of the file.

Example: If a trade is recalled, the file will contain 3 entries for the same trade: the first with status " " (active), the next with status "RecReq" (recall requested) and one with the status "ReGra" (recall granted).

7.11.1 Accessing the Continuous Export File

Non-blocking read access to the export files is possible during continuous export.

It must be ensured that any user, tool or operating system that accessess or scans the exported file, e.g. for new trade entries, opens it with a Read-only access.

For troubleshooting of the continuous export, please refer to the chapter *Export File Lock* and to the chapter *Problems with Continuous Export* in *MFG150*.

7.11.2 Filename

For the continuous export to work, the user needs to specify a file path including the filename in the “Filename” text field in the Settings panel. In case the specified file does not yet exist when the “Continuous Export” checkbox is activated, ComTrader will create it.

Alternatively, an existing file may be selected using the “Select” button situated to the right of the “Filename” text field.

7.11.3 File Format

The continuous export file will always be in the same format, independent of any panel configurations. The format of the values in the columns "Qty" and "Prc" depends on the format selected in the settings section (see *General*).

The file will contain a header row with the following information:

OT {YYYY-MM-DD}, Example: "OT 2016-12-20"

where

Item	Description
OT	constant string
{YYYY-MM-DD}	date of the file export

The trade records inside the file will be arranged in semicolon separated columns with one trade per row.

Column Name	Description	Example / Valid Values
Trader ID	The User ID of the user whose order was matched in the trade	**Example:** "TRD001"
TSO	The area of the order which was matched in the trade	**Valid values:** "DA "
EIC	The EIC code of the area which was matched in the trade	**Valid values:** "10YDA-DEMO------N"
B/S	The order side of the order which was matched in the trade	**Valid values:** "B" - for buy orders "S" - for sell orders

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Column Name	Description	Example / Valid Values
Product	Product of the contract which was matched in the trade	**Valid values:** "15_Min_Power "
Contract	Long name of the contract which was matched in the trade, which is comprised of: {delivery start date/time}-{delivery end date/time}	**Example:** "20151125 19:00-20151125 20:00"
Qty	Matched quantity (depending on the selected date format, see *General*)	**Example:** "1,0"
Prc	Match price (depending on the selected date format, see *General*)	**Example:** "11,00"
Curr	Currency	**Valid values:** EUR
Act	Account	Account type values are exchange specific (please refer to DFS180 Public Message Interface).
Text	The text of the order which was matched in the trade	
State	The status of the trade	**Valid values:** "ACTIVE" - trade is neither cancelled nor recalled "RecReq" - Recall requested "RecGra" - Recall granted "Cancel" - Trade cancelled
Order No	The order number of the order which was matched in the trade	**Example:** "123456"
Trade No	The trade number, a unique identifier for each trade	**Example:** "123456"
P/O	The type of the trade	**Valid values:** "P" - OTC trade "O" - Open trade
Date/Time	Date and time of trade execution	**Example:** "25.11.2015 15:19:55"
BG	Balancing Group for which the order was entered which was matched in the trade	**Example:** "Balancing Group 1 for Test Member 01"
AggrInd	The Aggressor Indicator indicates whether the executed order acted as a trade originator or as a trade aggressor, or the value is unknown.	**Valid values:** "Y" – Trade Aggressor "N" – Trade Originator "U" – Unknown
Self	Provides Information on whether a trade is a self-trade • Trade belongs to one balancing group or • Trade belongs to two different balancing groups within one member	**Valid values:** "Yes" "No"
Loc	Information about the Location of the trade	**Example:** LOC1 **Valid values:** Letters A-Z, numbers, and special characters “-“, “_”, “.“, “/”, “\“, “&”, “(“, “)” and “#”.

7.11.4 Rules for export to CSV file

When exporting the data to continuous export CSV file, the following rules are applied:

- String is embedded in quotes ("), to mark the start and end of the string.

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- Every quote sign (") contained in the string is duplicated in the exported .csv file, not to disrupt the csv translating logic.
- Numeric values (positive or negative) are not embedded.
- A new line or a tabulator character is replaced with a space character.

Please see examples in the table below.

The text field contains.	The csv file will contain.
abc	“abc”
“ab”"c	"""“ab”"""“c”
15.1	15.1
-15.1	-15.1
-15.1a	“-15.1a”
@15.1	“@15.1”

7.11.5 Example

The following screenshot provides an example of a trade export file, including trades which have been recalled and cancelled.

```
OT 2016-12-20 Trader Id;TSO;EIC;B/S;Product;Contract;Qty;Prc;Curr;Act;Text;State;Order No;Trade No;P/O;Date/Time;BG;AggrInd

TRD004; AMP;10YDE-DEMO;B;15_Min_Power;20161219 13:00-20161219 13:15;0.1;0.03;EUR;P1;;ACTIVE;172;17;O;19.12.2016
11:54:48;TEST2-BG2------X;N

TRD004; AMP;10YDE-DEMO;S;15_Min_Power;20161219 13:00-20161219 13:15;0.1;0.03;EUR;P1;;ACTIVE;173;17;O;19.12.2016
11:54:48;TEST2-BG2------X;Y

TRD004; AMP;10YDE-DEMO;B;15_Min_Power;20161219 13:00-20161219 13:15;0.1;0.03;EUR;P1;;ACTIVE;172;18;O;19.12.2016
12:03:47;TEST2-BG2------X;U

TRD002; AMP;10YDE-DEMO;S;15_Min_Power;20161219 13:00-20161219 13:15;0.1;0.03;EUR;P1;;ACTIVE;174;18;O;19.12.2016
12:03:47;TEST4-BG2------X;N

TRD001; TTG;10YDE-DEMO;B;60_Min_Power;20161219 17:00-20161219 18:00;50.0;50.00;EUR;P1;;ACTIVE;177;19;O;19.12.2016
14:33:52;TEST3-BG1------X;N

TRD001; TTG;10YDE-DEMO;S;60_Min_Power;20161219 17:00-20161219 18:00;50.0;50.00;EUR;P1;;ACTIVE;178;19;O;19.12.2016
14:33:52;TEST3-BG1------X;Y
```

7.11.6 Export File Lock

Concurrent writing into a particular export file is not allowed in ComTrader as the continuous export file is locked for security reasons when the Continuous Export functionality is enabled.

In case an export file is selected which is already used by another ComTrader session, the following dialogue will be displayed:

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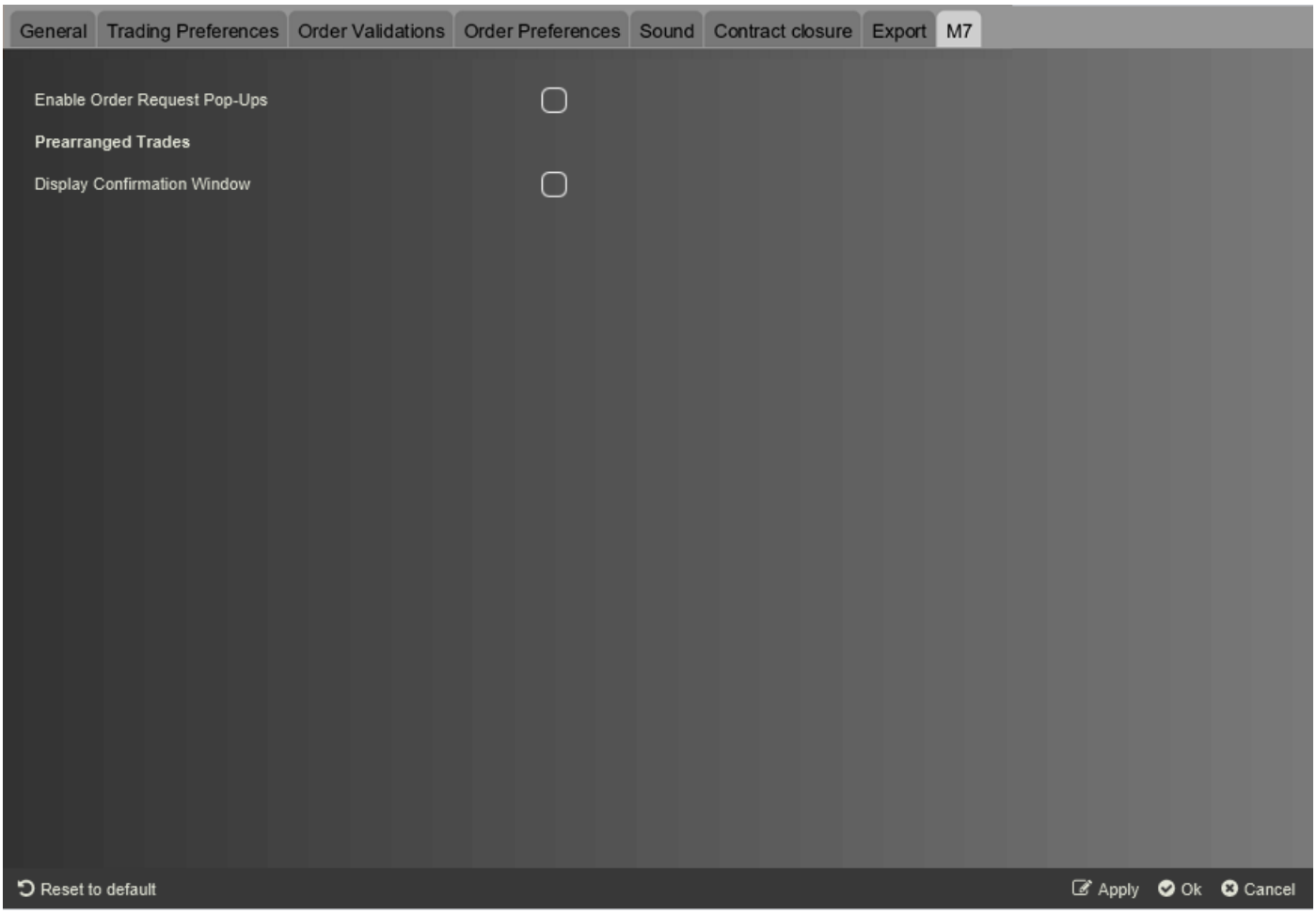
However, in case that ComTrader is not terminated correctly, it is necessary to re-establish the continuous export session in the following way:

1. Login to ComTrader as a trader
2. Uncheck the Continuous Export checkbox or manually delete *.lck file that is included in the same folder as the export file.
3. Save the Profile (Ctrl + S)
4. Terminate ComTrader in the correct way (i.e. Logout from the Exchange)
5. Re-login again
6. Go to the Export tab and check the Continuous Export checkbox

7.12 M7



This area contains exchange specific settings for markets operated on the M7-trading system.

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Field	Description
Enable Order request Pop-Ups	Enable pop-ups for the Order Request feature (see M7 documentation).
Display Confirmation Window	Defines whether the confirmation window is displayed when a pre-arranged trade is created.

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8 Appendix

8.1 Alternative Startup Method to Launch ComTrader

In some environments, ComTrader may fail to start when launched via the standard executable file (ComTrader.exe). This can occur if the environment variables JAVA_TOOL_OPTIONS or JDK_TOOL_OPTIONS are set and interfere with the Java runtime initialization.

As a workaround, ComTrader can be started using the alternative launcher/script provided with the installation. This startup method bypasses the issue caused by the configured Java tool options and should only be used when the standard executable launch fails.

For alternative startup method, launch the ComTrader using the provided .cmd file, e.g. *ComTrader-4G.cmd*

Note This is a fallback startup option and does not replace the default method of launching ComTrader via ComTrader.exe.

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1. If orders remain in this panel for longer period, the connection between ComTrader and backend may be corrupted. Please contact your support if such situation occurs.↩
2. By default, the parameter is set to 90 days.↩
3. By default, the parameter is set to 10 days.↩

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