

Deutsche Börse Group's T7 - Cash Markets

T7 Trader, Admin and Clearer GUI Manual

Release 8.1

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1 Introduction

1.1 Introduction

The present document provides a detailed description of the Cash Markets GUI applications which are provided to participants for access to trading functions, risk and security functions.

The applications provided and specified herein are: *Cash Trader*, the application provided to traders, *Cash Admin* which is tailored to the service administrator and *Cash Clearer* providing risk control functions for the backoffice and risk staff.

Note: Data contained in the screenshots and samples in this publication are for illustrative purposes only and should not be relied upon as a true representation of the current market.

Any information which is presented in this document, including screenshots, are subject to change.

This document is also available via the online help of these applications. The online help is based on this document and will always carry the most up to date information.

1.2 Overview

The functions of the GUI applications have been organized based on the different roles of the users, which are explained in the next paragraphs.

Roles and Applications

The GUI applications *Cash Trader*, *Cash Admin* and *Cash Clearer* are provided to users of the following roles (a selection of the most important roles):

Trader

Access to the market: Display of market data, order entry, order maintenance, order display, trade display, time & sales, statistics, risk functions.

Market Maker

Access to the market: Display of market data, trade display, time & sales, statistics, risk functions.

Trading View

View only access to the market: Display of market data, order display, trade display, time & sales, statistics.

TES Broker

Access to the TES Trade Entry facility (broker mode), display of TES trades in the *Trades* and *TES View*.

TES Trader

Access to the TES Trade Entry facility (simple mode), display of TES trades in the *Trades* and *TES View*.

TES View

View only access to the TES View, time & sales, statistics.

User Data View

View only access to see all users and their entitlements.

Service Administrator

User Maintenance: setup and maintenance of users, configuration of trading limits and user entitlements, risk controls, trade enrichment rules.

• Emergency Trading Stop, Clearing Member Stop

Emergency risk control functions to stop trading for a user or an entire business unit.

CM Backoffice View

View only access to the Backoffice Trades view for display of the trades of the NCM.

Clearing Member Stop

Ability of a clearing member to stop an NCM via the Stop Trading view.

Depending on the role the user has been assigned, the user only needs to operate a single application for the daily business with Cash :

GUI Application	Role	Functionality	
Cash Trader GUI	Used by participant users: traders, market makers and trading view users.	Market and market depth view, Orders, Trades, Time & Sales, Order Entry, T7 Entry Services, Statistics, Risk Controls	
Cash Admin GUI	Used by the service administrators and user data view users.	User Maintenance and Entitlements, Trade Enrichment Rules, Risk Controls	
Cash Clearer GUI	Used by the backoffice and risk staff of a clearing member.	User Maintenance (setup and maintain users assigned to a clearing BU), Risk Controls (Emergency Stop NCM) and Backoffice Trades	

An introduction and general description on how to operate these applications can be found in chapter 2.

Please refer to the following chapters for an overview of the functions provided by the applications *Cash Trader* (chapter 3), *Cash Admin* (chapter 4) and *Cash Clearer* (chapter 5).

1.3 List of terms and Abbreviations

Please find a list of the terms and abbreviations used in the document.

Business Unit A participant structure that offers a Business Unit (BU) concept for separating lines of business.

CA-S	<i>Continuous Auction with Specialist</i> trading model, i.e. trading model of T7 Börse Frankfurt.			
Context menu	The context menu appears right next to the mouse pointer when clicking the defined mouse button. Allowing a fast selection out of a distinct set of choices (e.g. quantity, limit).			
Entitlement Role	Sets of resources (e.g. authorizations for mass quote, delete all quotes) are combined into logical user roles (e.g. market maker). A set of pre-defined user roles is available to participants for user administration purposes.			
ССР	Central Counterparty			
ETP	Exchange Traded Products (e.g. ETFs)			
Filter	The filter allows the user to display information in an overview view according to pre-defined criteria.			
GMC	GUI Middleware Cluster			
GUI	Graphical user interface. Also called application.			
Head trader	A head trader is part of a user group and may see and maintain standard orders of all traders in the same user group in <i>Cash Trader</i> - granted, that the required entitlements are assigned.			
ID	Identification			
ID Inside Market	Identification Identical to Top of Book.			
Inside Market	Identical to Top of Book.			
Inside Market instrument	Identical to Top of Book. Refers to the object which is traded at Cash Markets .			
Inside Market instrument ISIN	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. 			
Inside Market instrument ISIN Lean order	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. Lean orders are always non-persistent. 			
Inside Market instrument ISIN Lean order Limit Order	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. Lean orders are always non-persistent. Bid/ask orders which are to be executed at their specified limit or better. 			
Inside Market instrument ISIN Lean order Limit Order LIS	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. Lean orders are always non-persistent. Bid/ask orders which are to be executed at their specified limit or better. <i>Large In Scale</i>, a CASH TES trade type Market information which is provided in the Market view, display of the 			
Inside Market instrument ISIN Lean order Limit Order LIS Market Depth	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. Lean orders are always non-persistent. Bid/ask orders which are to be executed at their specified limit or better. <i>Large In Scale</i>, a CASH TES trade type Market information which is provided in the Market view, display of the best bid/ask limits with accumulated volumes per instrument. 			
Inside Market instrument ISIN Lean order Lis Market Depth Market Order	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. Lean orders are always non-persistent. Bid/ask orders which are to be executed at their specified limit or better. <i>Large In S</i>cale, a CASH TES trade type Market information which is provided in the Market view, display of the best bid/ask limits with accumulated volumes per instrument. Unlimited bid/ask orders An event where all non-persistent orders and all quotes of a partition are 			
Inside Market instrument ISIN Lean order Limit Order LIS Market Depth Market Order Market Reset	 Identical to Top of Book. Refers to the object which is traded at Cash Markets . 12 digits international security identification number Lean orders are supported on high and low frequency sessions but not on <i>Cash Trader</i> GUI. Lean orders are only visible to the current session. Lean orders are always non-persistent. Bid/ask orders which are to be executed at their specified limit or better. <i>Large In S</i>cale, a CASH TES trade type Market information which is provided in the Market view, display of the best bid/ask limits with accumulated volumes per instrument. Unlimited bid/ask orders An event where all non-persistent orders and all quotes of a partition are deleted by the T7 system during the online day. 			

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Persistent/Non- Persistent Orders	In various situations as e.g. a trade interruption (e.g. during technical order book processing, session disconnect, volatility interrupt) all quotes and all orders marked as non-persistent will be deleted.
PSM	Product State Monitor, a tool that shows an overview of the number of products and instruments for each product and instrument state, and per "control segment".
RDS	Reference Data System
Standard order	Standard orders provide access to their complete history.
Supervisor	The supervisor user level may see and maintain orders of all users of the same business unit - granted, that the required entitlements are assigned.
ТоВ	Trading on-Behalf (by market supervision)
Top of Book	Overview in which the best bid and best ask limits with accumulated volumes of the order book are displayed.
TES	T7 Entry Services. A trade which was arranged off-book under the rules of the regulated market. TES trades can be entered in <i>Cash Trader</i> for clearing and settlement purposes.
Trade	Defines the result of an order or quote match.
Trader	A trader is an individual admitted for trading at the exchange. Unlike a head trader and supervisor, a regular trader cannot see the orders or trades of other traders from the same user group. If displayed in views, Trader refers to the <i>User Name</i> of the <i>Exchange Account</i> for the respective system.
Trading capacity	The trading capacity is a property of orders and trades, and is used to inform clearing about the order capacity: <u>Agent</u> , <u>Proprietary or Market</u> Maker. This field is not visible in <i>Cash Trader</i> , but the <i>Order Entry</i> uses the value of the Account field to fill the trading capacity.
User group	The concept of a group of traders, comparable to the trader subgroup of the Xetra classic trading system. The user group however is not identified as a part of their user ID - the user group can individually be assigned as part of the user settings.
User Level	Every user is designated to have one (and only one) user level: trader, head trader or supervisor. Users enter their own orders, and their user level defines which orders they are authorized to act upon.
View	A view is always only a part of a window. It may be the only content of a window. But in case of the desktop tab of the main window, multiple views can be part of a single window.
Window	A window is a part of the operating system and because of that it is visible in the taskbar. A window may contain a single or multiple views.

2 General GUI Concepts and Functions

The Cash Exchange's T7 GUI applications, namely *Cash Trader, Cash Admin* and *Cash Clearer* share common elements. All of them will open a *Login* window when started and will show a *Main* window once the login is successful. The *Main* window features a menu, a toolbar above the central desktop and a status bar below. The central desktop provides access to the most important views, which are opened inside of the central desktop.

Also the views share common elements: the view has a window title bar with icons in it, it has a central pane containing a form or a table and eventually an additional button bar below or next to it. This chapter provides a general description of *Cash Trader*, *Cash Admin* and *Cash Clearer*, it describes the basic GUI elements that will appear in the various views of these applications.

Note: Data contained in the screenshots and samples in this publication are for illustrative purposes only and should not be relied upon as a true representation of the current market.

Note: Descriptions of GUI functions are subject to change.

2.1 General Description of the T7 GUIs

The first window which is shown to the user of the T7 GUI is the *Master Login* view (explained in more detail in chapter 2.7). If the login is successful, the user is presented with the application window showing the *Welcome View*.

Regarding windows and views: While the application window is visible as a single window in the operating system, this single application window can display multiple views in one instance. These smaller windows inside the main window, for example the *Market* view and *Orders* view are called *views*. In order to achieve this, the application features a desktop on its own - similar to the trading board of the Cash legacy trading system Trading GUI. This desktop will be described later in this section.

The application window consists of the following elements:

XE Xetra Trader - ABCXETRDOG Application View Configu Image: Second S	-	2	1		XETR 5	Profile/	Produkt Grp	XETRA
	larket		Trading		Own		Info & Support	
	Market	Ctrl M	Order Entry	F2	Orders	F8	Product Statistics	
	Market <u>B</u> ook		Quote Activation		Order History	F9	Instrument Statistics	
	Time & Sales	Ctrl O	T7 Entry Service	Shift F11	Trades	F10	News Board	
	Quote Request		Xetra EnLight Respo	nder	Trade Summary		Risk Controls	
	Cross Request		Xetra EnLight Reque	ester	TES View			
	Ext. Ticker Line		Xetra EnLight <u>D</u> eals					
	Ext. Ticker Boar	ď						
9							A	$\boldsymbol{\lambda}$
Welcome View							142 / 910 📋	OnEx

Fig. 1: Screenshot of the Cash Trader Main window showing the Welcome view.

Item	Description			
1	Application window title, displays the name of the application and the environment level (SIMU for simulation).			
2	 Menu bar. The menu bar contains the actions provided both by: 1) the application. 2) and by the currently selected view. While the actions provided by the application are fixed, the actions provided by the currently selected view will change automatically, if a different view is selected. The menu bar is explained in more detail below. 			
3	Toolbar. The toolbar provides quick access to the most important functions. The toolbar is automatically updated once a different view is selected.			
4	This is the desktop tab area. Multiple desktops can be created by a click on the plus-sign on the left hand side of this space and are presented by their name here. Desktops can be switched by a single click on the respective tab in this area. In the example above only one tab is available which is called <i>Main</i> . In this example the <i>Main</i> desktop tab contains only the Welcome view. The <i>Main</i> tab is initially presented to the user if the user logs in for the first time. Tabs can be renamed by a double click on the tab.			

5	The desktop filter. This area provides filter fields which will be in effect for all of the views of the currently selected desktop. If the desktop is switched, this filter will also switch, because it is part of the currently selected desktop. Two basic filters are provided here:
	 Profile/Product: Enter a product or profile here to use it on all views of the currently selected desktop tab.
	• <i>Trader</i> : This filter allows a head trader and supervisor to filter the display of orders and trades on all windows of the current desktop for a specific user name.
	This filter is only provided to head traders and supervisors.
	• <i>Group</i> : Group filter to filter for data in the context of the selected user group.
6	The ' <i>Go</i> '-button. Clicking on this button applies the filter. This button will also be present in most views, and anytime this icon is displayed it can be used to apply a filter next to it. The filter can also be applied by pressing the <i>enter</i> or <i>return</i> key.
7	This is the view title of the Welcome view. In this particular example it is the only view which is displayed on the desktop and it occupies the whole space of the desktop. The desktop is explained in more detail below in this section.
8	These buttons affect the currently selected view and provide quick access (from left to right) to: externalize the current view, to split the current view and to close the current view.
9	Status bar. The status bar always displays the last message of the currently selected view. If the view changes, the status bar automatically changes as well. Double clicking the status bar opens the Log Messages view which displays the history of status messages.
А	The system connection status display. In this area the current connection status to the trading systems are displayed, for which the user is logged in.

2.1.1 Menu Items and Actions

The menu bar displays the following menus:

- Application
- View
- Action
- Configuration
- Help

If the currently selected view does not provide any actions, the *Action* menu is not shown. The various menu items that display in the menus, depending on the selected view, are described in the

following. For the *Action* menu only the most common actions are described - the description of the specific actions is part of the description of the respective view.

Menu	Menu Item	Description
Application	New Window	Opens a new instance of the application.
	Close Window	Closes the currently open instance of the application.
	Save Settings	Saves the current configuration of the application.
	Preferences	Opens the Application Preferences view.
	Toggle Full Table Mode	Turns the full table mode on or off. Can be used in table view to save some space.
	Login / Logout	Opens the Login/Logout dialog.
	Save Desktop Template	Saves the currently selected desktop tab into a named desktop template. Templates can be shared within the own user group or business unit (depending on the user level):
		Save As Desktop Template Save current Desktop as Template Template Name: Trading Board Share with: Group Business Unit
	Desktop Templates	Selects a predefined desktop configuration. This menu also allows to delete own desktop templates.
	Exit	Closes all windows of the currently running application.
View	New View	Splits the currently active view to open a new empty view.
	Find	Opens the find dialog to start a search in the table of the currently selected view.
	Print	Opens the print dialog to print the currently selected view.
	Export	Opens the export table dialog to export the table of the currently selected view.
	Show Log	Opens the Log Messages view for the current view
	Properties	Opens the view Properties.
Action	Add	Starts the creation of a new element.
	Modify	Starts a modification of the selected element.

	Delete	Deletes the selected elements.
Configuration Exchange Accounts		Opens the Exchange Accounts view.
	Alerts	Opens the Alert Configuration view.
	Profiles	Opens the Profiles view.
	Text Field	Opens the Text Field Configuration view.
Help Browse Help Starts a web browser to display the		Starts a web browser to display the online help.
	About	Displays the version number of the application.
	On this View	Starts a web browser to display the online help for the currently active view.
	What's New	Opens the What's New view.

2.1.2 Buttons and Icons

The following table shows the generic buttons and icons of the application. The actions which are triggered by these buttons behave in the same way throughout the application:

General Bu	uttons / Ic	ons
lcon	Image	Description
Apply		Submits the data shown in the view without performing a reset afterwards. Only enabled if all mandatory fields of the corresponding view are filled.
Su <u>b</u> mit		Submits the data shown in the view and performs a reset after successful operation to indicate that the task is done. Only enabled if all mandatory fields of the corresponding view are filled.
ОК	~	Applies changes and closes the window
Cancel	×	Closes the window without any further action
Refresh	3	Loads or reloads the display
Reset	ţ	Resets fields to predefined values
Expand	÷	Clicking the <i>Expand</i> icon expands the table to display a specific market depth
Collapse	-	Clicking the Collapse icon collapses the table, restoring the initial view
Lock		Access to this function has not been granted
News	\square	Opens the News Board view

2.1.3 Status Bar and Message Log

During the entry of data into a form window, the window logic validates the input from the user and decides whether or not to display additional information in the *Status Bar.* As a result of actions that are triggered on a window, the system will respond with a message indicating the status of the transaction, whether it was successful or not.

All these messages are displayed in the *Status Bar* of the window. If the content of the message does not fit into the status bar, the full text is available by double clicking the *Status Bar* which opens the *Messages Log* window.

The *Message Log* can also be opened via the menu option *View -> Show Log*.

Add Order	- Log Message	s				9	х
Date D	StopTime	Source	Severity		MessageText		
09.05.2016	09.05.2016 19:18:5	5 Modify Order	🕕 Info	BOOK:110	ORDER NO:1462370691020001000		
09.05.2016	09.05.2016 19:18:4	7 Modify Order	🕕 Info	BOOK:100	ORDER NO:1462370691020001000		

Fig. 2: Screenshot of the Messages Log window.

2.2 Trading Desktop

The *Trading Desktop*, or simply the '*desktop*', allows you to open a variety of views (*Market* view, *Orders* view, *Order Entry*, etc.) within a single display. Within the *Trading Desktop*, views can be resized, they can be moved, be closed or even taken out of the *Trading Desktop* to have them as external windows.

Multiple *Trading Desktops* within the same main window are also supported - they can be created and switched from the desktop tab area. The capabilities of the Desktop are explained next.

Adding a new view to the Desktop

An empty *Trading Desktop* which is opened for the first time will display the *Welcome* view as described before. This *Welcome* view displays the complete menu available. A view can be opened by a click on the respective menu item. Once an item has been chosen, the *Welcome* view will be replaced by the requested view.

A new view can be added to the current desktop by clicking the Split icon from the view title bar:

Orders				¢	Ъ		х
ALV (DE0008404005)	🖍 Edit	3	▼		Quick	. Find	# }

Fig. 3: Screenshot of the Split icon.

Alternatively, new views can also be added by a click on the outmost (left, right, top or bottom) border of the *Trading Desktop*:

Welc	ome View					
N	Market		Trading		Own	
	Market	Ctrl M	Order Entry	F2	Orders	F8
I	Time & Sales	Ctrl O	Quote Activation		Order History	F9
	Cross Request				Trades	F10

Fig. 4: Screenshot of the *Trading Desktop* illustrating how to add a new view

If a new empty panel cannot be created this way, this would mean the Trading Desktop is full and other windows inside of it must be closed to make space for a new one.

If a view is closed using the Close-icon (see illustration below) the view will not close - instead it will be replaced by the *Welcome* view to allow for a quick change to a different view. If the *Welcome* view is then closed, the space that has been used by that view will be provided to the remaining views of the current desktop.



Fig. 5: Screenshot of the *Trading Desktop* illustrating how to close a view

Resizing

Views can simply be resized by clicking and dragging the slider between the views:

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Marl	ket										Ø -	3 18 ×	10	rders											- 0	5	5 8	X
				C Edit	C									Pro	file / Ins	str	Ed	lit 🕻	•							Qui	ck Find	#
FM	1 Phase	Curr	BQty	Bid	Ask	AQty	Lst	High	Low	PotAuct	NetChg	SetIPrcNetCh	8/3	Limi	t To	tQty T	otExeQty	RemQt	y 0/C F	tes StopPrice	Triggered	Act	PInd	Validity	Date Ina	tive:		
÷	Cont	EUR	10	101.0			5,400.0					-50.0		99.0		100		100	0			A1	TRUE	GFD				
÷	Cont	EUR											В	101.0	EUR	10		10	0			A1	TRUE	GFD				
E	Cont	EUR																										
E	Cont	EUR																										
±	Cont Cont	EUR					1.0							N														
												4)														
											_		E	<u>A</u> dd	S) <u>M</u> odify		ete 📗	Suspen	d 🕨 <u>R</u> esun	e ▶ ₽а	rtial R	esume	- C F	Rel. <u>T</u> rades	Ę	Rel. <u>H</u> is	tory

Fig. 6: Screenshot of the Trading Desktop showing how to resize views

Moving a view

Views can be moved inside of the desktop by clicking and dragging the view title:

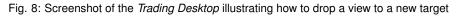
Orders		¢ 6∎×
ALV (DE0008404005)	🖌 Edit 💋 💌	Quick Find 🦓

Fig. 7: Screenshot of the Trading Desktop illustrating how to move a view to a new target

While dragging the title, the view will be extracted from the current desktop and a tiny preview of the view is shown at the location of the mouse. A blue bar appears which indicates the new location of the view. The new location can be changed by moving the mouse pointer across the desktop. If the new target location is to the liking of the user, a click on the mouse button will insert the view into the new location.

If the mouse button was pressed outside the borders of the current desktop, the view will be opened as an external window. The next section describes a different way to externalize a view.

Order Entry
Instrument
Ç₹
Delete Own Orders QR CR



Externalizing a view

As described in the previous section about moving a view, a view can be externalized if the view title has been dragged outside the boundaries of the current desktop, and the mouse button pressed.

It may be more convenient to externalize a view just by a click on the Externalize-Icon in the view title:

Orders	4	日	3	x
ALV (DE0008404005)	🔓 Edit 🔁 🔽	Quick	Find	#

Fig. 9: Screenshot illustrating how to externalize a view

Creating a new Desktop

A new desktop can be created using the Plus-Icon from the desktop tab bar:

Application View Configuration	<u>H</u> elp
🖭 🗶 i	
+ Main Stocks Market ×	
Welcome View	

Fig. 10: Screenshot of the Trading Desktop showing the desktop tab bar

Desktops can be switched by simple clicks on the respective tab of the desktop tab bar. A user defined name can be given to the current desktop tab by double clicking the desktop tab label, and by typing the new name of the tab.

Desktop tab placement

Desktop tabs can be reordered simply by dragging the respective tab to a new location.

Application View Action Configuration	<u>H</u> elp
🗉 🖪 🖨 🏦 🔀 i	
+ Main Stocks × Market	
Market	
Edit 🕄	

2.3 Forms and Fields

2.3.1 Text Input

Fields that only require the input of text can be filled in by typing the corresponding value. However, many of the entry fields support the selection of a value from a context list, which is provided by right clicking the mouse button:

	Instr	LongName	MarketGroup	
	ALV	ALLIANZ AG HOLDIN	ST EUN	
Order Entry	BAS	BASE AG -ST-	ST EUN	-
· · ·	BAY	BAYER AG -ST-	ST EUN	
	^{II} BMW	BMW AG -ST-	ST EUN	Limit
BUY	BNP	BNP PARIBAS	ST EUN	
	BPE	BPE	ST GBN	
	BTE	BTE	ST GBN	
	CIBN	CIBA SPEZIALITAETENCHEMIE AG	ST CHN	
		4		

Fig. 11: Text Field Chooser

These fields that support the selection of a value from a list, also provide some help via the keyboard: By typing the first characters of the value to be entered, a context menu will automatically pop-up to provide a list of matching values:

Order Entry											
	Instrum	ent		Act	Tot	TotQty					
BUY	В				V						
	Instr	LongName	MarketGroup								
	BAS	BASE AG -ST-	ST EUN								
	BAY	BAYER AG -ST-	ST EUN								
	BMW	BMW AG -ST-	ST EUN								
	BNP	BNP PARIBAS	ST EUN								
	BPE	BPE	ST GBN								

Fig. 12: Text Field Chooser providing a list of values matching the typed string.

By using the cursor up and down keys, the value can be chosen. The tab or enter key closes the pop-up and copies the selected value into the field. The pop-up can be closed using the escape key without selecting a value.

Order E	Order Entry - OPT ON BMW AG -ST-											
	Instrum	ent		Act	Tot	TotQty						
BUY	BMW											
	Instr	LongName	MarketGroup									
	BAS	BASF AG -ST-	ST EUN									
	BAY	BAYER AG -ST-	ST EUN									
	BMW	BMW AG -ST-	ST EUN									
	BNP	BNP PARIBAS	ST EUN									
	BPE	BPE	ST GBN									

Fig. 13: Text Field Chooser providing a list of matching values, the current value is selected.

Text fields that provide completion also allow the list of available values to be scrolled through using

the cursor up/down keys. The cursor up key selects the previous value and the cursor down key selects the next value from the list.

2.3.2 Number Input

If the field the user wants to specify requires numeric input, the number can be typed using the keyboard. Alternatively a contextual pop-up provides easy access to change or enter a number.

A click with the left mouse on the number increases the value by the selected number, a right click decreases that value. A click on C clears the entry field.

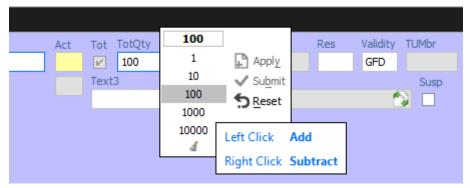


Fig. 14: Number Chooser

2.3.3 Date Chooser

The *Date Chooser* opens by right-clicking the *Date* filter field of the main window, which allows you to select the required date. The currently selected value is indicated with a blue background. A new date can be selected by simple clicking on the respective cell:



Fig. 15: Date Chooser

The *Date Chooser* allows selecting a date in a range of three months around the currently selected date. However, the *Date* field allows entering dates in a wider range than the *Date Chooser*.

2.3.4 Colour Chooser

The *Colour Chooser* allows changes to the colours for the following items: Foreground, Background, Mandatory, Highlight, Selection and Table Background to be changed:

Mandatory	255, 243, 163 🗸 🗸
	None
	More Colors

Fig. 16: Color Chooser

The three numbers 255, 243,163 from the screenshot above identify the selected colour, each value refers to one of the elementary colours: red, green, blue. Values from 0 to 255 per number are allowed. These values do not need to be typed - the desired colour can also be picked from the Colour Chooser.

2.3.5 Font Chooser

The Font Chooser allows selection of a font, style, and size to be chosen for:

- The presentation of data in forms and tables. Fonts for column headers and for table elements (cells) can be set individually.
- The fonts of buttons, titles, and other window elements can be changed via Appearance / Font.

Table		
Highlight	255, 255, 0	1
Cell Font	Tahoma, Plain, 11 🗸 🗸	Ĩ
	ABCDEFabcdef 012345	
	Font: Tahoma 🔻	
	Size: 11	
	Style: Bold Italic	
	OK Cancel	

Fig. 17: Font Chooser

2.4 Tables

In general there are two types of views in the application: tables and forms and occasionally a combination of both of them. The elements of a table are the table cells, which are ordered by rows and columns.

Users can control the data displayed in the table:

• First of all, the user decides which data is to be displayed, by using the filter.

Please Note: It is advised to be as specific as possible when using the filter, in order to save bandwidth and in order to keep the application responsive.

- Decide which columns should be visible. Some windows provide special functions for selecting a certain set of columns (e.g. the *Market* view). But in general the user can select which columns to display (an explanation follows on how to do this).
- Change the sort order of the table (explanation follows).
- Decide which columns to highlight, by changing the background colour for individual columns.
- The general display of tables may be changed by changing the look and feel from the *Preferences* view; change the font, font size or foreground and background colour.

2.4.1 View Filter and Generic Filter

A filter is used to tell the view which data to display. A filter usually consists of one or more entry fields, which are sometimes indicated by a yellow background to indicate that input is required by the user. If all the required (mandatory) fields are filled, the *Go*-button is enabled and clicking the *Go*-button or pressing the Enter/Return key starts the inquiry.

Some filter fields cannot be removed - these fields are called the *View Filter* fields of a view. The user can however also add more fields to the filter line, in order to further narrow down the filtering and to reduce the amount of data displayed which the user is looking for. In this context these filter fields are now called a *Generic Filter*. The user can add these fields by dragging the column header (with ALT-key pressed) into this filter line.

In general a table view has one filter row. The row starts with the view provided *View Filter* fields, followed by the *Generic Filter* (if provided by the user).

Produ	ct Statistics									
Futures	Edit	* LongNa	me	* 0	urr 🞜	▼				
Product	 LongName	2	cur	U/L	U/L Curr	U/L Exch	U/L Prc	CVol	PVol	FutVol
CONF	FUT 8-13 Y. SWISS GOV.BOND	56%	CHF							
EVAR	VARIANCE FUT ON EURO STO	X 50 INDEX1	EUR	EVAR						1
F2PE	FUT ON KYOTO 2		EUR	P1EB	EUR	XETR	0.00			
FBAS	STOCK FUTURE ON BASE		EUR	BAS	EUR	XETR	0.000			
FBTE	FUT ON BTE		GBX	BTE	GBX	XFRA	0.0			
FCIB	STOCK FUTURE ON CIBA		CHF	CIBN						

Fig. 18: View Filter and Generic Filter

2.4.2 Adding and removing a Generic Filter Field

In addition to the predefined filters in each panel, additional *Generic Filters* can be added for all available columns of a panel. By holding the 'Alt' key and dragging any column header on the space labelled 'Alt-Drag Column Header here..', a filter for the values of this column is added:

Alt-D	rag Column Header	here						
÷	ProductGroupRD		-					
+	FBND							
+	FCRD							
+	FCUR							

Fig. 19: Generic Filter - Filter Creation by using Alt-Drag

Example: In the screenshot below, the column 'Text' of the *Orders* table is 'alt-dragged' to create a new Filter.

St	rike:	-	+/-	Text 🥊			Te	ĸt
Limit		TotExeQty	TotQty	RemQty	o/c	Res	Active	Text
.95	EUR		1	1	0			Customer A
.96	EUR		1	1	0			Customer A
.96	EUR		1	1	0			Customer A
.96	EUR		1	1	0			Customer A
.96	EUR		1	1	0			Customer A
.96	EUR		1	1	0			Customer B

Fig. 20: Add a Filter via ALT+Drag

Generic Filters can also be added by clicking on the down arrow button (🔽) and choosing a value from the list of available columns.

Deletion of *Generic Filters* can be done in two different ways:

1. Deletion with Alt-Hover

Press 'Alt' and move the mouse across the filter that you want to delete (in the screenshot: 'Text'). When the mouse cursor reaches the text field, a white cross with a blue background (③) appears in the top right corner. By clicking on the cross, the filter is removed.

Strike:	+/-	* Text	🍖 💌	
Limit TotEx	eQty TotQty	RemQty O	C Res Activ	/e Text
1.95 EUR	1	1 0		Customer A
1.96 EUR	1	1 0		Customer A
1.96 EUR	1	1 0		Customer A
1.96 EUR	1	1 0		Customer A
1.96 EUR	1	1 0		Customer A

Fig. 21: Remove Filter via ALT-Hover

2. Deletion via 'Arrow Down' Button

A generic filter can also be removed by clicking on the down arrow symbol (\square) and selecting the column name from the list of filters.

Strik	e:	+/-	* Text			•						
			I_TEXI				Add	•				_
Limit	TotExeQty	TotQty		· ·	Re		Remove		i+	Text	Activo	1-
1.95 EL		1	_	0						Text		C
1.96 EL 1.96 EL		1	_	0 0		A4 A4		GF GF		Remove A	.11	2
1.96 EL		1	-	ŏ		A4		GFI	-			C
1.96 EL		1	_	ŏ		A4		GFI	-			c
1,96 El		1		õ		A4		GFI				C

Fig. 22: Remove filter via arrow symbol

2.4.3 Using Generic Filters

A new generic filter will now display in the row above the table. The filter settings can be set by manually adding any value or using the context menu (right-clicking in any filter field). Please note that the background colour of the filter turns to yellow as long as the filter is not applied via the enter key or inquiry icon. After it is applied, only records complying with the filter settings are displayed.

Each filter can also be configured, to only display values with a specific restriction, which can be selected by clicking on the (*) symbol on the left of every generic filter field. Available restrictions are:

- Exact: Only records exactly matching the filter value are displayed.
- Substring: Only records partly matching the filter value are displayed.

- Greater than: Only records greater than the filter value are displayed.
- Less than: Only records lower than the filter value are displayed.

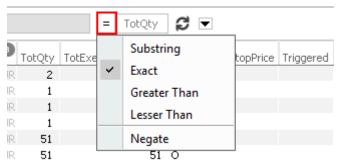


Fig. 23: Filter Restrictions

All Filter Settings can also be inverted by activating the 'Negate' setting from the filter restriction menu.

A combination of the 'Negate' option and a filter restriction will produce an output based on the following logic:

- Not Exact: The Output must differ from the filter value.
- Not Substring: The Output must differ from the filter value or any substring of the filter value.
- Not Greater than: The Output must be smaller or equal to the filter value.
- Not Less than: The Output must be greater or equal to the filter value.

As each column can be added multiple times as a *Generic Filter*, several values and restrictions can be combined for advanced search options.

Example:

Two 'Date' filters can be combined to show all records for one day by using the 'Greater Than' restriction for the first Date-Filter and the 'Lesser Than' option for a second Date-Filter.

TotQty	>	19.06.2016	<	21.06.2016		C -
--------	---	------------	---	------------	--	-----

Fig. 24: Combination of multiple Filters and Restrictions

2.4.4 User group and trader filter

The main window features a user group and trader filter which can be used by users with user level Head Trader (*Trader* field only) and user level Supervisor users. It is located in the top right corner of the trading desktop:

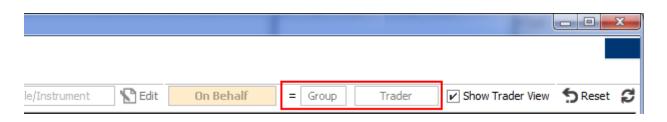


Fig. 25: User group and trader filter of the main view.

2.4.5 Quick Find

The *Quick Find* function provides a quick way of finding data among the currently displayed data in a table. This function is not available in all tables. It is strongly suggested to use the regular filter or user defined filters instead if possible, as this *Quick Find* filter is applied only on the data which is already displayed:

Tı	ra	des																		ф В	E X
A	DS	(D	E0005003404)	😭 Edit	g 🗖															5403	#
	Γ		Contract	TrdTyp	L/M	B/S	OrdQty	ExeQty	Prc	ojc	P/F	Res	StopPrice	Triggered	Grp	Trader	Act	PInd	TrdID	TrdState	TrdItemID
+	A	DS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0 EUR	С	F				GR1	TRD001	A1	γ	2	NEW	400
+	A	DS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0 EUR	С	F				GR1	TRD001	A1	Y	3	NEW	600
+	A	DS	(DE0005003404)	REGULAR	MARKET	в	11	1	5403.0 EUR	0	Ρ				GR1	TRD001	A1	Y	2	NEW	300
+	A	DS	(DE0005003404)	REGULAR	MARKET	в	11	1	5403.0 EUR	0	Р				GR1	TRD001	A1	γ	3	NEW	500
+	A	DS	(DE0005003404)	REGULAR	LIMIT	в	1000	20	5403.0 EUR	С	Р				GR1	TRD001	A1	γ	6	NEW	1101
+	A	DS	(DE0005003404)	REGULAR	LIMIT	S	20	20	5403.0 EUR	С	F				GR1	TRD001	A1	Y	6	NEW	1201
		ŧ	<mark>≣ C</mark> lear Table																		

2.4.6 Tables: Sort

Users may choose either default sorting or enable user defined sorting to create their own sort order. For user defined sorting, users can single-click on the corresponding column header. A first click sorts the table to the chosen column in ascending order. A second click causes the sorting to be done in descending order. The latest chosen column is always the sort criterion which is used first. Previously chosen sort criteria follow-up and are applied as sort criteria 2 or 3. Please note that only three sort criteria are supported.

The picture below shows the visibility of the applied sort criteria within a window.

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Proc	LongName	0 ()	U/L	Exch	Prc	Vol	Exch	Fast Sta	atus
ALV	ALLIANZ AG HOLDIN	EUR	ALV	XETR	0.00	76	XEUR	ACTI\	/E
BAS	BASE AG -ST-	EUR	BAS	XETR	0.00		XEUR	ACTI\	/E
BAY	BAYER AG -ST-	EUR	BAY	XETR	0.00		XEUR	ACTIV	/E
BMW	BMW AG -ST-	EUR	BMW	XETR	0.00		XEUR	ACTI\	/E
BNP	BNP PARIBAS	EUR	BNP	XFRA	0.00		XEUR	ACTIV	/E
BPE	BPE	GBP	BPE	XFRA	0.00		XEUR	ACTI\	/E
BTE	BTE	GBX	BTE	XFRA	0.0		XEUR	ACTI\	/E
CIBN	CIBA SPEZIALITAETENCHEMIE AG	CHF	CIBN				XEUR	ACTI\	/E

Fig. 26: Visibility of Sort Criteria in a Table

2.4.7 Tables: Find

The Find window is used to search for a specific word in a table.



Fig. 27: Find dialogue

The user enters the text to search for in the *Find* entry field. Checking the *Match Case* box specifies a case sensitive search. Checking the *Whole Word* box restricts the search to whole words only. Clicking the *Find Previous* button searches the entered text backwards from the current position through the table. Clicking the *Find Next* button searches the entered text from the current position forward through the table. If a match is found, the cursor is set to the first occurrence of the search text. If no match is found in the direction of the search, it continues at the other end of the table.

2.4.8 Tables: Print

For windows that display a table the *Print Table* window allows the user to print the content of a table.

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🕌 Print	
General Page Setup Appearance	
Print Service	
Name: Fax	 Properties
Status: Accepting jobs	
Type:	
Info:	Print To File
Print Range	Copies Number <u>o</u> f copies: 1
O Pages 1 To 1	Collate
L	Print Cancel

Fig. 28: Print Dialogue

2.4.9 Tables: Import

The table import function can be used to import a comma separated file into the table of the current view, provided that table import is supported on that view. The separator character of the import file can be defined in the GUI's Preferences (->2.6 Preferences).Clicking the Import menu item, a file selection dialog opens which allows browsing the file system and to select the input file.

XE Xetra Orde	r import - Imp	port		X
Look <u>i</u> n:	📜 Test	▼	• 🖽 🏹 🐧	
Recent Items	T7_order	_import.csv		
Desktop	File <u>n</u> ame: Files of <u>t</u> ype:	T7_order_import.csv (*.bxt,*.csv,) - CSV text file	▼	Import Cancel

Fig. 29: Import Dialogue

When the window is opened, the *Files of type* field is pre-filled with a CSV file. Clicking the *Import* button causes the file to be imported.

2.4.10 Tables: Export

The table export function can be used to export the content of the table of the currently selected view into a comma-separated values file The separator character of the import file can be defined in the GUI's Preferences (->2.6 Preferences).The table export function is generally available, even on those views that do not support the import of data.

The *Export Options* dialog opens by clicking the *Export* option from the *View* menu. Using the *Export Row Options* option the user can then decide to export data from all rows or only from the selected rows. The *Export Column Options* controls which columns should be exported: all or only the visible ones.

The *Export Path* supports selecting a file or path using a file browser, which can be opened using the ellipsis (...).

≭ E Export Options	X
Select Export Options	
Export Row Options	
● All ○ Selected	
Export Column Options O All Visible (Please note: All also exports invision)	sible columns,)
Export Path	,
Path	
<u>↑</u> Ex	xport 🗙 Cancel

Fig. 30: Export Options

The following file formats are supported:

- text files (*.txt)
- comma separated files (*.csv)

Clicking the *Export* button, the table data is exported. If the exported file already exists in the system, a confirmation dialog is displayed.

2.4.11 Tables: Hide/Show Columns

The *Column Selection* pop-up allows the user to determine which columns in the table are visible. The pop-up is displayed if the user clicks with the right mouse in a column header and moves the mouse over the *Show/Hide* entry:

TES Viev	v										
FDAX		K Edit	V S	· 🖌 (g 🗖						
⊂ Contraq	1		1	Itus	Appr. Time	Ctpy	B/S	Qty	Prc	Vega	Volatility
	fx	Hide Column Fx Configuration									
		Color	•								
		Show/Hide	•	~	Act						
		Goto	•	~	Appr. Time						
				~	B/S						
				~	Contract						
				~	Ctpy						

Fig. 31: Column Selection Pop-up

After selecting/deselecting the corresponding columns, a click outside the pop-up will close it.

2.5 Profiles

Most views in the application that display data related to products and instruments(*Market* view, *Orders* view, *Trades* view, to name just a few), feature a Profile/Product/Instrument selector field. This field accepts the entry of a single product or instrument, but it also accepts the entry of a profile, which may contain a selection of any number of single and multiple products and even single or multiple instruments.

A set of ready to use profiles is provided by the application, however, users are encouraged to define their own selection of products and instruments for daily use - which is very simple, following the description below. User defined profiles can also be shared among other users of the same user group - or even among the whole business unit (only supervisor user level has the permission for that).

2.5.1 Generated Profiles

Most views in the application that display data related to products and instruments (*Market* view, *Orders* view, *Trades* view, to name just a few), feature a Profile/Product/Instrument selector field. This field accepts the entry of a single product or instrument, but it also accepts the entry of a profile, which may contain a selection of any number of single and multiple products and even single or multiple instruments.

A set of ready to use profiles is provided by the application, however, users are encouraged to define their own selection of products and instruments for daily use - which is very simple, following the description below. User defined profiles can also be shared among other users of the same user group - or even among the whole business unit (only supervisor user level has the permission for that). Please note, for Börse Frankfurt, no ready to use profiles are provided but user defined or user activity profiles (see below) can be utilized.

🖭 🗙 🖪 🖨 🏦		a la	
	Name	Owner/Description	
+ Main	FBND-Products	Generated Future on Bond	
Market	FCRD-Products	Generated Futures on Unfunded Credit Default Swap	
Market	FCUR-Products	Generated Futures on Currency	
Prof/Prod/Cntrct	FINT-Products	Generated Future on Interest	3
· · · · · ·	FINX-Products	Generated Future on Index	
CPbase TrdLloit CPres	FSTK-Products	Generated Future on Stock	ct Curr PORI PPotAuct P
	FVOL-Products	Generated Future on Volatility	CC CON FORT FORMACC F
	OCUR-Products	Generated Option on Currency	
	OFBD-Products	Generated Option on Future on Bond	
			 1

Application View Action Configuration Help

Fig. 32: The generated product profiles popup opens by a right mouse click

2.5.2 Activity Profile

The activity profile is a generated profile which is automatically updated to contain all the products and instruments trader seems to be interested in. To be interested means: all instruments for which the user had orders or quote requests entered on the current day, and for which trades are available.

This profile is useful e.g. on the Market view to have a quick overview on the market data of instrumentsthe user is most interested in:

						_	_								-
ABCERTR	D001_ACTIVITY		Edit Up	to: Exp	iry St	rike	+/-	✓ S 🗌 C	Туре	C					
	1	-		_		_							1	-	-
CPhase	Contract	Curr	CBQty	CBid	CAsk	CAQty	CLst	CPotAuct	CNetChg	SetIPrcNetChg	COpen	CHigh	CLOW	CVol	E
Cont	FDAX Dec13	EUR	100	100.0			2.0			-5,448.0	2.0	2.0	2.0	84	
 Cont 	FEU1 Jan14	EUR			54.00	1								50	1
± Cont	FEU3 Jan14	EUR			54.0000	1	54.0000	-		-42.0100	54.0000	54.0000	54.0000	51	1

Fig. 33: Activity profile

Please Note: Profiles are stored relative.

The main benefit of using profiles is that they are stored relative to the front month expiration (this applies to both user defined profiles as well as profiles provided by the exchange). If, for example, the contract *FDAX Mar13* is part of a user defined profile, it will automatically rollover to *FDAX Jun13* on the trading day after the expiration of *FDAX Mar13*.

The following shows an empty Profile/Product field of the Market view:

Application View Action Configuration Help	
🗉 🗙 🖪 🖨 🗶 🗶 i	
H Main	
Market	
Prof/Prod/Cntrct IP New Up to: Expiry Strike +/- IP S IP C	Туре 💋
CPhase TrdUnit CPrevSetIPrc CVol CBQty CBid CAsk CAQty CLst CPotAuct CQ	RI Contract

Fig. 34: Profile/Product Selector

This field supports the entry of a single product, contract or a profile as can be seen here:

FDAX DEC13	🖌 Edit	Strike	+/-	VS V	С	Туре 💕	;	
Name	01	vner/Descrip	otion]	CPotAuct	CODI	Contract
FDAX DEC13	FUT ON DAX INDEX				<u>-</u>	CPOLAULL	CQRI	Contract
FDAX MAR14	FUT ON DAX INDEX							
FDAX JUN14	FUT ON DAX INDEX							

Fig. 35: Profile/Product Selector accepting the entry of a product, contract or profile

A right click of the mouse on the Product/Profile field will bring up the list of profiles which are currently available. Here, the Option on Index Future profiles has been selected from the list:

Application View	Action Configuration	<u>H</u> elp					
🖭 🗙 🖪 🖨	Name	Owner/Description					
+ Main	FVOL-Products	Generated Future on Volatility					
Market	OCUR-Products	Generated Option on Currency					
Market	OFBD-Products	Generated Option on Future on Bond					
OFIX-Products	OFIT-Products	Generated Option on Future on Interest					
	OFIX-Products	Generated Option on Future on Index					
CPhase TrdUnit	OFVL-Products	Generated Option on Volatility Future					
ernaso maonic	OINX-Products	Generated Option on Index					
	OSTK-Products	Generated Option on Stock					
	POOL-Products	Generated					

Fig. 36: Profile pop-up opened on the Profile/Product Selector

2.5.3 User Defined Profiles

Most users will however want to use a profile which contains only those products and instruments, which are of interest to them. The profile chooser allows creating a new profile on the fly, just by

typing its new name, clicking the Edit button and selecting the products and instruments of interest (the *Edit* button then changes into a *Close*-button):

Market
Futures X Close
5 🖬 🗉 🖃 🖷 🙁 🖻
share with: Group BU
Content Layout Search Products
Products Section 1 - Constraints Section 2 - Constraints
□ 🗹 🗍 FGBL
🗹 🔶 MAR14
✓ ♦ JUN14 ⊕ □ □ □ FGBM
🗉 🔲 🍏 OSTX
⊕
Own Profiles
王 🧐 Shared Profiles

Fig. 37: Profile/Product Selector showing the Profile Editor, editing the user defined profile "My Futures"

For Börse Frankfurt the it will not be possible to directly select products and instruments from the Product Tree but by searching for them.

It is also possible to select products just by pasting from the clipboard. In order to do so, just mark a list of products in a text editor, e.g. "ALV,BMW,LHA", copy these to the clipboard with Ctrl-C, then select the profile selector (or the view containing it) and pressing Ctrl-V.

Products can also be imported from a file. Product will be ordered in the same sequence as they are found in the import file. The products may be separated in the same way as in the clipboard example above, or be separated by new lines:

ALV BMW LHA

Fig. 38: File import file containing a list of products

The main part of the profile editor is the profile/product/contract tree, with the main nodes:

2.5.4 Products (Tree)

2.5.5 Own Profiles (Tree)

2.5.6 Shared Profiles (Tree)

2.5.4 Products Tree

The products node displays all available products, instruments in a hierarchical tree, starting with the product type or a specific market group as the top most level. The hierarchical levels are:

- Market Group
- Product
- Instrument

Clicking the checkbox next to an item of the tree will select/deselect that item and all subsequent parts of it. Please note, for Börse Frankfurt the *Product Tree* feature is not available.

2.5.5 Own Profiles Tree

Own profiles lists all the profiles that have been created by the user. Details of the profile can be reviewed by expanding the respective node.

2.5.6 Shared Profiles Tree

User defined profiles can be shared with the own user group and business unit, depending on the own user level. Please note that only the creator of a profile can modify a shared profile.

These are the profiles that the user shares with the own user group and business unit. Please note that only the creator of a profile can modify a shared profile. Details of the profile can be reviewed by expanding the respective node.

In the seldom case that a name of a shared profile is identical to a name of an own profile, the own profile will be used to inquire. In order to be able to use the shared profile instead, please rename the own profile to resolve the naming conflict.

2.5.7 Layout of profiles

The Layout tab of the Profile Editor provides functions for the advanced user:

- Own profiles can be reordered by dragging the respective item to the desired location.
- Items of own profiles can be given a user defined background colour.
- Separators can be added to the profile.

Please note, for Börse Frankfurt the *Profile Layout* feature is not available.

Layout of profiles

The profile editor features a number of icons, buttons and checkboxes, as described below:

Profile Editor	
Icon/Button	Description
÷	Expands all the products and contracts in the Products tree, which are part of the current profile
	Collapse all expanded products
ţ	Clears the current profile. Marks all products and contracts as not checked.
亩	Deletes the profile.
×	Applies changes and closes the profile editor
5	Merge selected profile into the current profile
×	Delete selected own profile
不	Import into current profile
ß	Paste products from clipboard to profile
	This node (product type, product, expiration or strike) is not checked and is not part of the profile.
	Only parts of this node have been checked. Click on the node to see which details have been checked, or press the icon.
*	This node (product type, product, expiration or strike) is checked and so has everything in it.
Group	If checked, the current profile will be shared with all users of the own user group. This function is provided to head traders and supervisors only.
BU	If checked, the current profile will be shared with all users of the own business unit. This function is provided to supervisors only.

Reordering of Profiles

Profile elements can be reordered on the Layout tab by drag and drop of an item:

T7 Cash Markets

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Market											
abc 🗙 S	ave 🞜	▼									
Ş↓			MC	SecState	SoldOut	Phase	Ind	PotInd	Instrument	Curr	PrevClsF
share with: 🗌 Group 📃 BU		+		Active		Book			ADDB	EUR	
		Ŧ		Active		OpnA			ER07	EUR	
Content Layout	_	+		Active		Book				EUR	
Current Profile: abc (XESUF	'S	+		Active		OpnA				EUR	
ADDB ER07 DZTH1F		+		Active		OpnA				EUR	
ER07 DTH1F		_	1	Active		OpnA			LHA	EUR	

Fig. 39: Reordering of Profiles

Custom background color per product

Select a custom background colour per product using the context menu:

abc	🗙 Save 🧭	▼								
Ş₽			MC SecState	SoldOut	Phase	Ind PotInd	Instrument	Curr	PrevClsPrc	NetCho
share with:	Group BU	+	Active		Book		ADDB	EUR		
Contrast Laws		+	Active		OpnA			EUR		
Content Layo		+	Active		OpnA		ZTH1F	EUR		
	t Profile: abc (XESUPS	+	Active		Book			EUR		
		+	Active Active		OpnA OpnA		DB1	EUR		
	Add separator									
	Set background color				1					
	Remove background color	lol Set	background	d color						

Fig. 40: Custom background color per product

Separators

Add a separators using the context menu:

MC SecState SoldOut Phase Ind PotInd Instrument Curr PrevCl share with: Group BU H Active Book ADDB EUR Content Layout H Active OpnA ER07 EUR Content Layout H Active OpnA ZTH1F EUR Content Layout H Active OpnA ZTH1F EUR Content Layout H Active Book ALV EUR Content Layout H Active OpnA DB1 EUR ADDB H Active OpnA DB1 EUR ER07 H Active OpnA DB1 EUR ER07 Add separator Add separator EUR EUR	
Image: Content Layout Image: Active OpnA ER07 EUR Image: Current Profile: abc (XESUPS Image: Active Book ALV EUR Image: Active Active Book ALV EUR Image: Active Active Book ALV EUR Image: Active Active OpnA DB1 EUR Image: Active Image: Active OpnA LHA EUR Image: Active Image: Active OpnA LHA EUR Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Image: Active Ima	
Current Profile: abc (XESUPS Active Book ALY EUR ADDB Active Book ALY EUR Active OpnA DB1 EUR ER07 Add separator CTH1F Add separator	
ADDB Active OpnA DB1 EUR CODA LHA EUR Add separator TH1F	
Contemporation	
Add separator	
DB1 C LHA Remove background color	

Fig. 41: Separators

2.5.8 Sharing of profiles

User defined profiles can be shared with the own user group and business unit, depending on the own user level. Please note that only the creator of a profile can modify a shared profile.

In the rare case that a name of a shared profile is identical to a name of an own profile, the own profile will be used to inquire.

2.6 Preferences

Generally, there are two levels of preferences in the application:

- Preferences that apply to the whole application (Application Preferences)
- Preferences that are valid for a single view (View Preferences)

The *Application Preferences* can be accessed from the *Application* menu, the *View Preferences* are available from the *View* menu.

The *Preferences* view is basically the same, for both of the types.

The *Application Preferences* view allows the user to define general properties that are valid for the whole GUI:

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Configure application properties		
upported Properties		
Appearance		
Color-Theme		
Overwrite theme background	None	
Mandatory background	255, 254, 163	
Mandatory foreground	0, 0, 0	
Font	Tahoma, Plain, 11	
Show mandatory icon		
Table		
Overwrite table background	None	
Highlight	255, 255, 0	
Highlight foreground	0,0,0	
Cell Font	Tahoma, Plain, 11	
Table row constrast		95 [
Table Grid Color	None	
Thousands separator	v	
Choose CSV Separator value (;,)	;	
Warning on closing multiple tabs	V	
Miscellaneous		
Collect Nicks	V	
Start TES in simple mode	V	
Confirm TES inhouse SIMPLE	v	
Execute TES inhouse SIMPLE		
Confirmation on TAB Close		
Save all settings on log out		
		P A

Fig. 42: Application Preferences view

Where the *View Preferences* follows the currently selected view and provides the settings for that single view instance.

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Version 8.1

View Properties - Or	ders	X 19
Generic View Prope	erties	
Supports the configur relevant for all views Supported Properties	ration of view properties. 'Generic' settings are of the same type.	\$
Appearance		
Font	Tahoma, Plain, 11	1
Table		
Highlight	255, 255, 0	1
Cell Font	Tahoma, Plain, 11	3
Table row constrast		95 👔
Table Grid Color	None	1
Separators		1
		Apply

Fig. 43: View Preferences window

2.7 Master Login

The *Master Login* window is the first window which is presented to the user on the start of the application. The user must specify the name and credentials of the master login account, which is required to gain access to the application.

The *Master login* window does not grant access to any of the possible back ends - these accesses are defined via the Exchange Accounts view, which is available from the Welcome view once the user is logged in.

Master login name can be recognized by the extension "_GUI". If the user forgets to add "_GUI", the extension will automatically be added into the field by the application.

The *Info* box below the *Network Connection Settings* reveals the environment variables that are used by *Cash Trader*, *Cash Admin* and *Cash Clearer*, if set. These variables don't need to be configured, but if they are, the application will use the user defined values instead of the defaults. The file system paths which are currently being used can be reviewed in this area:

GUI Version Check

In order to ensure the integrity and smooth operation of the *Cash Trader*, *Cash Admin* and *Cash Clearer*, a version check guarantees that outdated versions of these GUIs will not connect to our trading environment.

Outdated versions could connect to our system in the past in case the Trading GUI stayed open over night during a software update, and in case a trader was using a locally stored link to our GUI. This will be detected by the version check.

If this happens, a new GUI instance via the Cash -homepage needs to be started.

Window Descript	ion	
Field	Tab	Description
MarketPlace		The MarketPlace the Master User is registered for.
Market		The market the Master User is assigned to. This field is only provided in Cash Trader and Cash Admin.
Master User		Master account login name.
Master Password		Master account login password
Client Key Password		An optional password which can be used to decrypt the client key. The client key is required for internet connections only.
Login		Log in
Login Without Settings		Allows to login without using the settings of the last session. This function provides access to the GUI in the event of problems with the trader profile.
Logout		Log out
Change Master Password		Opens the Change Master Password dialog. Changes the password for the master login in sync with the exchange account password of the Cash Exchange's T7.
Network Connection Settings		A click onto this bar collapses/expands the Network Connection Settings pane
Leased Line	Network	Select Leased Line radio button for a leased line type of connection
Internet	Network	Select Internet radio button for the connection via the internet
Next	Network	Switches to the next tab of the Network Connection Settings wizard
No Proxy	Proxy	Select No Proxy for a direct internet connection
Use Proxy	Proxy	Select Use Proxy for a connection through a web proxy
Proxy	Proxy	HTTP proxy machine name

Proxy Port	Proxy	HTTP proxy port
Automatic Proxy Configuration URL	Proxy	URL for automatic proxy configuration
Detect Proxy	Proxy	Press this button to probe for an automatic detection of the web proxy
Client Key	Security	This is the file location of the client SSL public key file

2.8 Configuration Menu

2.8.1 Exchange Accounts

The Exchange Accounts view supports the definition and review of connections to the various T7 trading system back ends for the logged in user. User names can be entered here and passwords can be changed.

The view is split into two areas: the upper table ("Current Associations") displays the current state of the sessions in the *Status* column. Connection problems are indicated in the *Message* column.

For users of *Cash Trader* only the connection to the market is shown here.

For users of *Cash Admin* and *Cash Clearer* (Xetra only) the connection to the market and to RDS is shown.

The lower table ("New Associations") allows the entry and modification of user names and passwords. Changes can easily be made by double clicking in the respective field of the table. The table supports the direct change of values in the table.

Changes can be applied using the *Apply* button. Outstanding password changes are then performed in the respective system.

Users of Cash Trader and Cash Admin will only be able to configure the username and password for the T7 connection to the market.

2.8.2 Alert Configuration

The *Alert Configuration* provides an audio and visual event service to automatically trigger an audio signal (a .WAV file) or a popup window or both when certain events occur (e.g. matching of an order, order book deletion, risk limit exceeded).

It is possible to specify user defined filter criteria, which works in the same way as the generic filters in table views. Please refer to chapter 2.4.1 for a full description of these generic filters.

It is possible to specify additional fields for display in the alert popup (e.g. columns from the selected view), and it is possible to specify a background colour in order to provide an additional indication about the event.

2.8.3 Profiles

Most views in the T7 GUIs that display data in table format allow filtering on a profile of products or instruments. This can be a generated or user defined profile. This mechanism is described in chapter 2.5 in full detail.

All the views that support filtering on a profile, allow also the maintenance of these profiles. This is described in chapter 2.5 *Profiles*.

In order to provide easy access to this important filtering feature of the T7 GUIs, it is possible to access the *Profiles* editor from the *Configuration* menu.

2.8.4 Text Configuration

The *Text Configuration* provides a text field service to automatically fill certain text fields based on the settings by the user.

The configuration consists of the fields *Text1*, *Text2*, *MIOrdNo*, *Act*, *ClientID*, *InvID* and *InvQual*, where the Text field is the key of the configuration. This means, if a certain Text value was entered in the Text field of the Order Entry, all the rest of the above mentioned values (if configured) will be copied into the respective fields of the Order Entry.

It is possible to give priorities for the *Text Field Configuration* using the *Prio* field: The priority controls the order of suggestions in the drop down lists for the respective fields of the *Order Entry*.

The Text Field Configuration view features a *Product* column. The product value is used as a trigger, which automatically applies the respective configuration once that product is specified in the Order Entry.

The *TotQty* column allows specifying a default order quantity for automatic prefilling, once the specified product has been selected.

3 Cash Trader GUI

The Cash Trader application is provided to participants for the use by traders, market makers and participant trading view users.

3.1 Overview

Overview of the functions provided by *Cash Trader*. The functions are grouped into the categories Market, Trading, Own and Info & Support (please refer to the screenshot below):

		L - DEVELOPMENT - PUBLIC-(090 - Last Login: 23.08	.2019 15:11:47	
Application View Cor	nfiguration Help				XETRA
Main +				OWN Prof/Prod/Instrume	
Welcome View	=				‡ ┗₪■×
	Market	Trading	Own	Info & Support	
	Market Ctrl M	Order Entry F2	Orders F8	Product Statistics	
	Market <u>B</u> ook	Quote Activation	Order History F9	Instrument Statistics	
	Time & Sales Ctrl O	T7 Entry Service Shift F11	Trades F10	News Board	
	Quote Request	Xetra EnLight Responder	Trade Summary	Risk Controls	
	Cross Request	Xetra EnLight Requester	TES View		
	Ext. Ticker Line	Xetra EnLight <u>D</u> eals			
	Ext. Ticker Board				
Welcome View				154	/ 910 💼

Fig. 44: Screenshot of the Cash Trader main window showing the Welcome view.

These functions are further described in chapter 3.2 Market, 3.3 Trading, 3.4 Own and 3.5 Info & Support.

Please don't miss chapter 2 *General GUI Concepts and Functions* which describes the general behaviour of this application. All the features explained there have been designed to improve your productivity.

3.2 View Descriptions: Market

Market comprises all GUI functions that deal with the display of current or statistical market information on a product and instrument level.

3.2.1 Market

The *Market* view displays the top of book (inside market) and market depth for selected instruments. Additional information which might be relevant for trading is also displayed, for instance settlement price information, quote request and cross request indications, daily high and low price, last price and more. Market Orders are displayed.

At least a product, instrument or profile must be specified, before the view displays any information.

When a single instrument is selected the *Market* view will display an additional instrument information header in a separate row above the *Market* view's main table. The intention of this extra information header is to show static information at once with dynamic data for the instrument. As the columns showing static data are removed from the display below, this allows for a compact and slim market view appearance. While default column setting of the static data header displays a readyto-use data set, the view can be customized by using the usual Show/Hide Columns pop-up when right-clicking on a particular column.

db 1		DE00	05810055	5 👚 Edit	C	\checkmark													Mark	et Dept	n 3	•	Column	s Low	•
SecState	SoldO	ut	ISIN	WKI	I In	istrLongN	lame	Marke	tGroup	Pre	vClsPrc	XRI	QRI	LstQty	Lst	:Time	Lst	Date	Pot	AuctQty	Surpl	us l	stAucPrc	LstAucQty	LstAucTim
ctive		DE	00058100	55 58100	IS DB	1									16:	17:07	01.0	7.2019							
MC	Phase	Ind	PotInd I	Instrument	Curr	BidCnt	BQty	Bid	Ask A	AQty	AskCnt	Ŀ	stPrc	PotAu	ctPrc	NetChg	Open	High L	.ow \	/ol					
	OpnA		D	B1	EUR							12	0.000	3											

The Order Entry can be opened or prefilled by clicks in the Market view.

Fig. 45: Screenshot of the Market view (not all columns visible)

Columns Presets

The *Columns* filter controls which set of columns are displayed:

Value	Description
Full profile	Displays all columns.
Medium profile	Displays a small set of columns relevant for trading.
Low profile	Displays only the minimum required columns for trading.
CA profile	Displays a set of columns relevant for Continous Auction with Specialist

Description of Columns

Column Description	
--------------------	--

MC	Market Conditions codes on instrument level. Possible values:
	F - Fast market
	SA - Stressed Auto
	SF - Stressed Auto+Fast
Phase	Instrument trading state
Instrument	Instrument ID
Ind	Interruption indicator specifies whether a volatility interruption ('V'), an extended volatility interruption ('X') takes place.
PotInd	Potential interruption indicator. Indicates that the current auction price would lead to a volatility interruption at the end of the auction. This column is only filled in case of a scheduled auction (opening-, intraday- or closing auction).
PrevClsPrc	Previous day closing price. If no newer price is existing, Previous Closing Price value for an instrument will be kept for more than one business day thus allowing Netchange (NetChg) value always being calculated and displayed in Market view.
NetChg	Netted change of the last trade price (Lst) to the previous day closing price.
Vol	Total volume in the instrument traded in the course of the day.
Low	Daily low price
High	Daily high price
BidAvg	Average bid price of the price level
BidAcc	Accumulated bid quantity of the price level
BQty	Bid quantity
Bid	Bid price
Ask	Ask price
AQty	Ask quantity
AskAcc	Accumulated bid quantity of the price level
AskAvg	Average bid price of the price level
LstPrc	Last price
LstTime	Last trade time
LstQty	Last trade quantity
LstTime	Last trade time

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QRI	Quote request indicator							
XRI	Cross request indicator							
Curr	Currency							
Exch	Exchange ID of the instrument							
CumEx	CumEx indicator							
Surplus	Remaining auction quantity, which can be accepted at the auction pri- and side of the surplus.							
LstAucPrc	Last auction price							
LstAucQty	Last auction quantity							
LstAucTim	Last auction time							
Trades	Total number of trades of the day (excluding Best Trades).							
BidCnt	Number of orders in the accumulated bid order volume.							
AskCnt	Cnt Number of orders in the accumulated ask order volume.							
BESTLstPrc Last price of BEST order.								
BESTLstQty	Last trade quantity of BEST order.							
BESTLstTime	Last trade time of BEST order.							
VDOLstPrc	Last price of VDO Iceberg order.							
VDOLstQty	Last trade quantity of VDO Iceberg order.							
VDOLstTime	Last trade time of VDO Iceberg order.							
MatDate	Maturity Date.							
TrdMdl	Trading model type.							
MinTradeUnit	Minimum trade unit of instrument.							
Quote Provider	Name of Issuer/ Quote provider.							
CpnRate	Coupon rate.							
U/L Isin	ISIN of underlying.							
StrikePrc	Strike price of Warrant.							
SecSubTyp	Cash Security Subtype.							
QuotUnt	Quotation Unit, e.g. POINTS, PERCENT, SHARES.							

Display of the Market Depth

The Market view also features the display of the market depth for the displayed instruments. A click

on the plus-sign (\blacksquare) of the displayed rows, on the left hand side of the table, opens the display of the best bid/ask limits with accumulated volumes per instrument. The market depth display is described in full detail in the next chapter 3.2.2.

Similar to the *Market* view, the *Order Entry* view can be opened or prefilled by clicks in the market depth row of the Market view.

Actions supported by Market view

The *Market* view supports a number of context driven actions, which can be invoked by a left or right mouse click in the cells of the table:

Preselection of Order Entry

The *Order Entry* will be automatically prefilled by the selected instrument, Buy/Sell side and Limit if one of the following columns is clicked in the Market view: BQty, Bid, Ask, AQty. If the *Order Entry* is currently not open, it will automatically be opened. In case more than one *Order Entry* is currently in use, the *Order Entry* will not be prefilled, since it is not clear which one should be the target.

If the clicked is the Bid or Ask column, the Limit will be prefilled.

If the clicked is the BQty or AQty column, the Qty and Limit will be prefilled.

As part of the *View Preferences* the user can define whether the click on a price or qty cell should be treated as a Bid/Ask action or Hit/Take action. Please refer to chapter 2.6 for a description of the *View Preferences*.

Quote Request and Cross Request

A right click on any of the other cells of the *Market* view opens a context menu that provides functions for triggering of quote and cross requests.

Depending on whether the quote or cross request function is selected, a dialogue opens to ask for the quantity (cross requests) or quantity and side (quote request).

3.2.2 Market Depth

The market depth is displayed as part of the *Market* view. In order to see the market depth for a selected instrument, the plus-sign (\boxdot) on the left hand of the table can be clicked to expand the display of the market depth. The market depth, if opened, is then displayed below the top of book (inside market) row. The market depth can also be collapsed with the minus-sign (\boxdot).

In the screenshot below the top of book is displayed above the market depth for ALV (DE0008404005). The instrument name is only displayed in rows showing the top of book.

Phase	BQty	Bid	Ask	AQty	Lst	Instrument
E Cont						ADS (DE0005003404)
📮 Cont	201	17	18	201		ALV (DE0008404005)
	163	16	19	50		
L						
🗄 Cont						BMW (DE0005190003)
🗄 Cont						CBK (DE0008032004)

Fig. 46: Screenshot of the top of book and market depth display

The actions made by left or right click in cells of the market depth (prefilling of the Order Entry) are the same as for the rest of the *Market* view. Please refer to the previous chapter 3.2.1 for a description.

The maximum depth of market depth display can be limited via the *Market Depth* action in the Action menu of the Market view. This is the maximum depth which is accepted by the view - the depth might further be limited by the system limitation of the respective product.

3.2.3 Market Book

The *Market Book* view displays the bid and ask limits with volumes for a single instrument, ordered by and aggregated on price level, just like the expanded Market view. However, the key feature of the view is the display of own orders in correspondence to the current market situation (OwnBidQty, OwnAskQty).

The market depth display of the *Market Book* does not need to be expanded by hand - it is always expanded. This allows to setup a trading desktop with multiple *Market Book* views.

Market orders are also displayed.

Limitation: it is not the full depth which is displayed, the depth displayed is defined by the market depth delivered via MDI. Stop orders are not displayed.

OV	/N BMW		C	▼					
BidCnt	OwnBidQty	BidAccQty	BidAggrQty	Limit		AskAggrQty	AskAccQty	OwnAskQty	AskCnt
				402.0	EUR	60	375	60	1
				401.0		215	315	215	1
				400.0	EUR	100	100	100	1
BidCnt	OwnBidQty	BidAccQty	BidAggrQty	Limit		AskAggrQty	AskAccQty	OwnAskQty	AskCnt
1	77	77	77	399.0	EUR				
1	132	209	132	398.0					
1	24	233	24	397.0	EUR				

Fig. 47: Screenshot of the Market Book view

Market Book

Column	Description
BidCnt	Number of Orders
BidAccQty	Bid accumulated quantity
BidAggrQty	Bid aggregated quantity
Limit	Price
AskAggrQty	Ask aggregated quantity
AskAccQty	Ask accumulated quantity
AskCnt	Number of Orders
OwnBidQty / OwnAskQty	Accumulated quantity of all own standard orders with a limit displayed in the Limit column. For iceberg orders the overall quantity is displayed. Quotes and orders of other traders within the same subgroup are not displayed.

The following fields are only displayed during an auction:

Market Book							
Fields	Description						
AuctPrc	Indicative auction price. Only displayed during an auction phase. In case of yield traded instruments the yield value is displayed.						
AuctQty	Quantity which can be executed at the indicative price - Entries appear only during an auction with an open order book or during an auction with a closed order book with market imbalance indicator set to 'ON'. The order book must be crossed.						
Surplus	Remaining auction quantity, which can be accepted at the auction price and side of the surplus.						

If the order book is not crossed, AuctPrc, AuctQty and Surplus are not displayed, instead the top of book is displayed.

3.2.4 Time & Sales

The *Time & Sales* view displays an overview of all trades executed for a particular instrument within the specified time boundaries for the current business day.

Table Description

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Column	Description		
Instrument	Instrument ID		
TrdTime	Date and time Time of the match		
Prc	Matched trade limit		
Qty	Matched trade quantity		
TrdTyp	Type of a trade. Possible trade types are e.g. BEST, REGULAR, VDO.		
TrdInd	Trade indicator depicting essential trading conditions under which trade happened, e.g. EXCHANGE_LAST, HIGH-/LOW_PRICE, OPENING_PRICE, OFFICIAL_CLOSING_PRICE.		
Curr	Currency		
Agsr	Aggressor indicator (B, S or empty)		
Buy	Number of Buy orders involved in the match		
Sell	Number of Sell orders involved in the match		
MatchStepID	Match Step ID of the trade		
Exch	Exchange ID		

3.2.5 Quote Request

Quote requests are supported via the QR (Quote Request) button of the *Order Entry* and via the context menu in the Market view.

Quote requests are indicated in the CQRI and PQRI columns of the *Market* view and in the *Quote Request* view:

Quote Request	•		х
Profile/Instrument 🔀 Edit 💋 💌	Quid	k Find	<i>8</i>
Instrument QRQty Time			
Quote Request (1) no rows match filter			

Fig. 48: Screenshot of the Quote Request view

3.2.6 Cross Request

The announcement of a cross request, i.e. the request to announce a pre-arranged trade to the regular market, is provided via a right-mouse click in the *Market* view table, and as an action of the *Order Entry*. Please refer to the *Market* view (chapter 3.2.1) and *Order Entry* (chapter 3.3.1) respectively.

Cross requests are displayed in the XRI column of the *Market* view and in a special *Cross Requests* view.

Quote Request	•	s x	2
Profile/Instrument 📉 Edit 💋 💌	Quick F	ind 🖓)
Instrument QRQty Time			_
Quote Request (1) no rows match filter			

Fig. 49: Screenshot of the Cross Request view

Table Description					
Column	Description				
WKN	WKN of the instrument (if available)				
Instrument	Instrument ID				
ISIN	ISIN of the instrument				
LongName	Instrument long name				
Qty	Matched trade quantity				
Time	Time stamp of the cross request				
Exch	Exchange ID				

3.2.7 Ext. Ticker Line

The Ext. Ticker Line displays external index prices of cooperation exchanges using a ticker line.

The *Ext. Ticker Line* displays the following information of the underlyings: UnderlyingID, LastTime and LstPrc. In case the available space for display of the underlying information is not sufficient, the *Ticker* will smoothly scroll the content of the underlying ticker, in order to cycle the display for all products of the selected profile.

Ext. Ticker Line			🔅 🖓 🖬 🖼 🗶
▶ -[] VAVL DE0006300692	LstPrc XIDX NAVM DE0006301013 23:9433 13:51:45.170	LstPrc XIDX NAVN DE000630	11021 LstPrc XI
13;51;45,350		42.2662 13:51:45.180	<mark>69.0678</mark>

Fig. 50: Screenshot of the Ext. Ticker Line

3.2.8 Ext. Ticker Board

The *Ext.Ticker Board* displays external index prices of cooperation exchanges in a tabular view. The display is automatically updated via broadcast.

Ext. Ticker Board 🕴 🗄 🖻 🗎 🗶									
* xbul	(R	3 📼							
ExchIdCo	A 2 Mnemonic	Isin	LstPrc	TrnDat	TrnTim	Curr	DlyHghPrc	DlyLowPrc	Description
XBUL	OKPG	BGBX40001130	130.21	23.04.2018	16:15:00.000	BGN	130.57	129.86	BGBX40
XBUL	OKPH	BGBX40TR1136	147.23	23.04.2018	16:15:00.000	BGN	147.64	146.84	BGBX40TR
XBUL	4QFA	BG9250FI4086	659.1	23.04.2018	16:15:00.000	BGN	662.65	657.65	SOFIX
XBUL	4QFC	BG92TR302087	542.83	23.04.2018	16:15:00.000	BGN	544.7	540.6	BG TR30
XBUL	4QFD	BG92REIT1089	115.75	23.04.2018	16:15:00.000	BGN	115.91	114.99	BG REIT

Fig. 51: Screenshot of the Ext. Ticker Board

Table Description						
Column	Description					
ExchldCod	Exchange ID code					
Mnemonic	Mnemonic of external index					
Isin	ISIN code of external index					
LstPrc	Last Price of external index					
TrnDat	Transaction date					

TrnTim	Transaction time
Curr	Currency
DlyHghPrc	Highest price of the current day
DlyLowPrc	Lowest price of the current day
Description	Description of external index

3.3 View Descriptions: Trading

The Trading area comprises all GUI functions that deal with the entry and maintenance of orders and risk functions for market makers.

3.3.1 Order Entry

The Order Entry view allows to enter an order for a single instrument. Traders may open and close as many Order Entry views as desired. The Order Entry view also supports the maintenance of the last entered order (that was entered using the current instance of the GUI) and it includes the *Hit*, *Bid*, *Take* and *Ask* functions. Also integrated is the display of the inside market. Please note the new field *ClientID* which becomes mandatory when using 'A' account. This numeric *ClientID* serves as a reference to the 35 characters long ESMA Client Identification Code. **Please note:** When trading bonds decimals will be displayed if the minimum tradable unit is less than one. For equities and warrants, quantity decimals will be entered and displayed in the same integer format as before.

Add Orde	r				4 🛛 🗙
BUY	Instrument	Act Tot TotQty	Limit BEST Res	Validity Text1 GFD	
Text2	MIOrdNo	ClientID	OrdNo	Susp	
Delete	Own Orders QR CR 🕘 Co	ompact OTopOfBook		😭 Apply 🗸 🧐	Submit 为 Reset

Fig. 52: Screenshot of the Order Entry view in compact mode and TopOfBook pane hidden

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DUDY	Instrument	Act		Limit	BEST Res Validity Text1
BUY ext2	MIOrdNo	A1	ClientID	OrdNo	GFD
BidQty	Bid	LstPrc	Ask	AskQty	Bịd Hi <u>t</u> Take Ask

Fig. 53: Screenshot of the Order Entry view in compact mode showing the TopOfBook pane

Functions provided:

- Order Entry/Modify/Delete
- Bid/Hit/Take/Ask actions and price information.
- Cross Request Entry
- Delete Own Orders action (Panic button)

If all mandatory fields of the *Order Entry* are filled, the Apply button is enabled to apply the order. The Apply button submits the order, and in case the order entry was successful, the view switches into Order Maintenance mode to either re-apply or modify the last submitted order. Reapplying the order by using button *Apply New* or its shortcut allows a frequent entry of the same order.

The Submit button does the same as the Apply button, additionally the Qty and Limit fields are cleared to indicate the order has been successfully submitted, and the view stays in Order Entry mode, not providing *Apply New* feature. If the Order Entry was opened externally, the view will be closed, if the entry of the order was successful.

If the Apply or Submit button is pressed, the buttons become inactive and will stay inactive as long as the order has been processed (either successful or unsuccessful). Normally it is obvious whether or not a particular order has been successfully submitted or not: the Submit button will clear Qty and Limit if the order was successfully processed, and the Apply button will switch the *Order Entry* into *Order Maintenance* mode in that case.

The Order Entry view can be prefilled by a click in the Market view and Orders view. If more than a single Order Entry has been opened in the current desktop, an external Order Entry window will be opened and prefilled.

After an order has been submitted using the Apply-Button, the view will switch into Order Maintenance mode, and the button group changes to "Delete", "Modify", "Apply New" and "Reset" buttons:

🔁 Delete 🛛 Modify 🔛 Add New 🕤 Reset

- Delete will delete the selected order.
- Modify will update the order which has been entered last on this view.

- Apply New will enter a new order with the current values.
- Reset will clear all fields and will then apply the saved view properties.

Additional fields which are not required in the current context are automatically hidden if the *Order Entry* is in compact mode (which is the default). The underlying fields and top of book fields are displayed on request of the user:

Field Option	Function
Compact	Toggles the display of additional order fields.
TopOfBook	Provides the informational top-of-book display fields for quick trading actions: Hit, Bid, Take, Ask.

The optional forms can be expanded, by default these forms open in the collapsed state. The collapsible state can be saved.

Order Entry - Standard Fields:

Field	Description
Buy/Sell	Buy/Sell code button.
Instr	Instrument short name, or WKN, or ISIN. The context menu offers the following columns of information: Instrument short name, ISIN, WKN and Instrument long name. The entry field allows the entry of any one of these items, as long as the selected value refers to exactly one single instrument.
Act	Account.
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
Tot	Checkbox to indicate that the Qty field will represent the order total quantity, disregarding any partial matches.
Qty/TotQty	Quantity of the order. If the "Tot" field is checked, this is the total quantity of the order.
Limit	Limit and Currency of the Order. Market orders are indicated by a blank limit field.
BEST	Checkbox to indicate order qualifies for BEST execution principle. Checkbox only enabled for regular market and limit orders submitted with the Trading Capacity (account) 'Agency'.

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T7 Cash Markets

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Res	Order restriction: AOO - Auction only. BOC - Book or Cancel. CAO- Closing Auction. ICE - Iceberg Order or VDO Order. IAO - Intraday Auction. OAO - Opening Auction. OCO - One Cancels the Other. SAO - Special Auction. STP - Stop order.
StopPrice	Trigger price for OCO and Stop orders. Only visible for stop order (please refer to the <i>Res</i> field to select a stop order).
TrailStopPct	Traling stop order, trailing distance in percentage of last price.
TrailStopAbs	Trailing stop order, trailing distance price value.
VDOLimit	"Second limit" price up to/down to a bid/ask VDO can be executed at the MidPoint price.
RndLowQty	Iceberg order lowest random quantity value.
RndHighQty	Iceberg order highest random quantity value.
InitQty	Initial iceberg display quantity.
Validity	The validity of the order: FOK - Fill Or Kill GFD - Good For Day GTC - Good Till Cancelled GTD - Good Till Date IOC - Immediate Or Cancel GTX - Good Till Crossing/Auction (only for VDOs)
Date	Date of the validity in case of GTD.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Text field for special purposes. Can be filled up to 16 characters.
OrdNo	Order number generated by Cash Markets application.

Order Entry - Extended Fields:

Field Description

CrossID	The CrossID used for Self-Match Prevention (SMP). Both orders and/or quotes, that origin from the same business unit, must contain the same CrossID value for a SMP action to take place. Orders and quotes actively participating in the order book are verified for SMP during the instrument state "Continuous" only.
LiPrv	Checkbox to indicate whether an order is submitted as part of a market making strategy. Box ticked means true.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.

Order Entry - TopOfBook:

Field	Description
Bid, BidQty	Best bid limit and bid qty.
LstPrc	Last trade price.
Ask, AskQty	Best ask limit and ask qty.

Order Entry - Actions:

Field	Description
Delete Own Orders	Deletes all types of own orders (standard, lean and short order message layout) for the currently selected instrument in all Account types.
CR	Button: Trigger cross request for the selected instrument and Qty of the Order Entry.
Bid	Enter a Buy order at the best bid limit.
Hit	Enter a Sell order at the best bid limit.
Take	Enter a Buy order at the best ask limit.
Ask	Enter a Sell order at the best ask limit.
Compact	Toggle the display of the hidden fields and the extended fields.
TopOfBook	Toggle the display of the TopOfBook field group.
Reset	The <i>Reset</i> action completely clears the <i>Order Entry</i> , and applies default settings, if available.

TotQty, Close on Submit, and Close on Modify preset

The TotQty preset in the *View Properties* of the *Order Entry* controls whether or not the *Tot* checkbox is selected on the modification of an order from the *Orders* view.

Close on Submit controls whether or not the *Order Entry* should close, if an order has been successfully submitted using the *Submit* button.

Close on Modify controls whether or not the *Order Entry* should close, if an order has been successfully modifed using the *Modify* button.

In order to set a default, press *Apply* and *Save as default* in the *View Properties*, and press *Save Settings* on the *Main* view.

View Properties	S X
View Properties Configure view properties	3
View Properties: Order Maintenance Appearance Prefill (applied on reset) Preferences	
Modify: TotQty preset Close on Submit	1
Compact mode 🖌 Show Top of book	
Reset on Market Click	Ĩ
	P Apply

Fig. 54: Screenshot of the View Properties view

Order Modify

Since with Cash Trader the *Order View* could also modify an order, no special *Order Modify* view window is used to change details of an existing order. Please refer to the description of the *Order Entry* window for details of the order modification.

The persistence indicator will not be changed on the modification of an order - this applies especially to orders which have been entered using a third party application.

Suspend/Resume of Orders

Suspend/resume of orders is supported in *Cash Trader*:

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Orders														<u>.</u>		1 2
OWN	Bayx	DE000575	52001	🖍 Edit	C -										Quick Find	P
	ISIN	WKN	B	Limit 3	TotQty	TotExeQty	RemQty	Res	StopPrc	TrailStopAb:	s TrailStopPct	InitQty	RndLowQty	RndHighQty	Triggered	Ac
вачх	DE0005752001	575200	В	81.000 EUR	100		100									A
BAYX	DE0005752001	575200	в	81.010 EUR	100		100									A:
_		_		_	_											
Add	Modify		te 🛛	Suspend	▶ <u>R</u> e	esume 🌗	Partial Re	sume.	(E r	lel. <u>T</u> rades	Rel. Histor	y				

Fig. 55: Screenshot of the Orders view showing the Suspend and Resume actions

Suspending an order technically deletes that order from the market, and resuming of an order is technically the entry of a new order with identical properties.

The suspend flag *Susp* of the *Order Entry* can be selected for new orders, but is display only for the maintenance of an order. Please toggle the suspension state of the order via the *Suspend* and *Resume* buttons of the *Orders* view.

Suspended orders will not be removed immediately from the *Orders* view if the user logs out or closes the GUI. These orders will be removed:

- at the end of the day
- in the event of a technical problem of the GUI/GMC server

Add Orde	er							\$ 5	3 B >
BUY	Instrument	Text2	Act To	ot TotQty Limit	Res Susp	Validity GFD			
Delete	own Orders	CR 🖁 Compact	TopOfBook				P Apply	✓ Su <u>b</u> mit	S Rese

Fig. 56: Screenshot of the Order Entry showing the Susp checkbox

Self-Match Prevention (SMP)

Self-Match Prevention allows members to prevent unintended crossing of their orders and quotes.

For intended crossing, cross request functionality is offered by Cash Markets T7. With the cross request functionality, an exchange participant is allowed to enter relating orders and quotes which could immediately match against each other. The precondition is that the participant enters a cross request prior to entering orders or quotes which could match immediately signalling its intention to the market.

However, the legal situation in the origin country of several exchange participants does not allow crossing at all. With the *Self-Match Prevention* functionality participants are able to avoid the execution of an order/quote against another order or quote from the same business unit in the same instrument.

For this functionality an optional field CrossID is added to all order and quote transactions. Both orders and/or quotes, that origin from the same business unit, must contain the same CrossID value for a SMP action to take place. Orders and quotes actively participating in the order book are verified for SMP during the instrument state "Continuous" only.

In order to allow traders to use the SMP functionality within the Cash Trader GUI, the Order Entry features the CrossID field in the extended layout (press the Compact button of the Order Entry for this field to show up):

Modify Orc	ler Instrument	Act	Tot TotOty	Limit	BEST	Res StopPrc	vəlida	ty Date	text1
BUY	DE0005752001	BAYX A1	Tot TotQty 100	81.0000	EUR	Kes StopPrc	EUR GFD	-	Text1
Text2	MIOrdNo	Clier 11		OrdNo 15670034234	72000000	LiPrv InvID	InvQual	CrossID Susp	
BidQty 100	Bid 81.0100	LstPrc 67.0000	Ask	AskQty	Bįd	Hi <u>t</u> Take	Ask	self-mat	ch prevention Id
💩 Delete	Own Orders QR CR	Compact	🔵 TopOfBook				Delete	Modify	Apply New 5 Rese

Fig. 57: Screenshot of the Order Entry showing the CrossID field

This field is also provided in the Orders and Order History view.

Orders	Orders 🔅 🔂 🖬 🖬 🗶 🗙														
OWN	bayx	DE00057	52001	🖌 Edit	C -									Quick Fi	nd 🦚
Instrume	R ISI	J WKN	B	Limit 3	TotQty T	otExeQty	RemQty	CrossID F	es Stop	Prc TrailStop4	Abs TrailSto	opPct InitQt	RndLowQty	RndHighQt	y Triggei
BAYX	DE000575	2001 575200	в	81.000 EUR	100		100	1234							
BAYX	DE000575	2001 575200	в	81.010 EUR	100		100								
Add	Add Nodify Delete Suspend > Resume > Partial Resume 🕻 Rel. Trades 🎼 Rel. History														
Order I	History												3	ö 76 E	
	Pror	Prod/Instrumer	t	🔊 Edit	S -									Quick Fi	nd 🦚
HistType		Prod/Instrumer MaintTime		Edit		Wk	(N B/S	Limit	TotQty	TotExeQty	RemQty A	t CrossID	Res Validity		
	HistSeq		I		-		(N B/S	Limit 81.0100 EU		TotExeQty	RemQty A		Res Validity GFD		
HistType	HistSeq 2 28	MaintTime	.01 B	instrument	ISIN	2001 5752			र 100	TotExeQty	100 A				
HistType Add	HistSeq 2 28 3 28	MaintTime	II :01 B :36 B	instrument AYX AYX	ISIN DE0005752	2001 5752 2001 5752	:00 B	81.0100 EU	R 100 R 100	TotExeQty	100 A	1 1 1234	GFD		

Fig. 58: Screenshots showing the CrossID column of the Orders and Order History view

These HistoryType values inform about the SMP event:

- Self Match Cancel: This event is set for an incoming order which triggers the SMP.
- Self Match Delete: This event is set for an order already in the book, which is triggered by the SMP.

3.3.2 Quote Activation

The *Quote Activation* view enables market makers for a specified product or profile:

· to review the current quote activation status

• to change the quote activation status

In order to aid market makers in the configuration of the activation status, bulk-edit operations can be performed by filtering on the view.

Quote A	Activation			•	Ъ	3	х
ALV	٩	💽 Edit 🛛 = 🗛	BCFR_SHF_S1				
Product	Session	MinQuoteQty	Туре	QuoteActive			
ALV	ABCFR_SHF_S1	10		1			
ALV	ABCFR_SHF_S1	10	SIMPLE_INSTRUMENT	1			
<u>D</u> elet	e 🞻 Clear 为 L	<u>J</u> ndo				🗸 🗸	oply

Fig. 59: Screenshot of the Quote Activation view

The Quote Activation view understands two different levels of scope for the activation status:

- session \times product.
- session \times product \times instrument type.

It is possible to change the quote activation state on the *Market Maker Protection* view by clicking into the respective *QuoteActive* checkbox of the table.

It is not possible to define the quote activation status for a given session both on "product" and "product \times instrument type" level. You need to decide which one to use.

Important: in the Quote Activation view only the rows in bold are active. The greyed out rows are inactive and should be considered as non-existent.

The Quote Activation scope parameters:

Field	Description
Product	Product.
Session	A session identifier.
MinQuoteQty	Minimum quote quantity

QuoteActive	Displays the current activation state of the quote, if the <i>instrument type</i> is set: Active or Inactive. This view is not updated by broadcast, the display can be refreshed using the refresh button.
BoC Quote	Flag for <i>Book or Cancel</i> restriction for Quotes. Can only be set when QuoteActivation is done, i.e. QuoteActive checkbox is ticked. Afterward BocQuote checkbox is unticked again.

Values can be changed by a double click on the respective cell. The change of multiple lines is supported using the *Modify* button.

Changes are immediately effective.

3.3.3 T7 Entry Services

The *T7 Entry Services* (TES) view supports the entry of bilateral off-book transactions in tradeable instruments. With this service, participants benefit from the customized trading in Cash markets and the advantages of standardized settlement services provided by Deutsche Börse Group.

The *T7 Entry Services* view offers entry of two TES Types, OTC and LIS:

- OTC: bilateral off-book trading functionality of Cash Market without any price and quantity validation and with no reporting obligation is implemented as a new TES type OTC.
- LIS: TES type LIS to support execution of pre-arranged trades (on-exchange off-book trade entry). TES Type LIS must fulfil *large in scale* requirement, specific block size and price validation for cash market.

Market	Trading	Own	Info & Support
Market Ctrl		<u>O</u> rders F8	Product Statistics
Market <u>B</u> ook	Quote Activation	Order History F9	Instrument Statistics
Time & Sales Ctri	T7 Entry Service Shift F11	<u>T</u> rades F10	News Board
Quote Request	Xet <u>r</u> a EnLight Responder	Trade Summary	Risk Controls
Cross Request	Xetra EnLight Requester	TES View	
Ext. Ticker Line	Xetra EnLight <u>D</u> eals		
Ext. Ticker Board			

Fig. 60: Screenshot of the Welcome View highlighting T7 Entry Services views

T7 Entry Services facts in short:

- The person entering a TES trade is called the *Initiator* of the trade. The counterparty is called the Approver.
- The full user ID is required to specify the approving (counterparty) trader of a TES trade.
- Bilateral trades can be started on the Buy and on the Sell side.
- In order to inquire on a TES trade, the traded product must be specified along with the TESTrdID. However, it is advised to simply double click the respective TES trade in the TES View, in order to prefill the TES Entry, which is much more convenient.
- Completed TES Trades, i.e. state EXECUTED, are displayed in the *Trades* view as well. TES Trades in other states only in TES View.
- Two entry modes *Simple* (default) and *Broker*. The former allows quick entry of mandatory TES data while Broker mode allows to view and change more (clearing) data.
- Auto Approval GUI definable Auto Approval rule for Approver.
- Due to regulatory requirements, Regulatory Market Makers are obliged to flag orders and quotes entered under a market making agreement for liquidity provision (liquidity provision activity).

Flagging is done by setting *LiPrv* field accordingly. According to related ESMA guidelines for MiFID II, following scenarios of *liquidity provision activities* are defined:

- Participant performing algorithmic trading to pursue a market making strategy (Trading Capacity set to M or P).
- Participant performing a *liquidity provision activity* (not denoted as a market making strategy), dealing on own account (Trading Capacity set to M or P).
- Participant performing a *liquidity provision activities* executes orders on behalf of clients (Trading Capacity set to A).

TES Trade states

The following trade states of TES trades can be observed which inform about the current state of the TES transaction:

TES State	Description
Pending	The TES trade has been entered and is waiting for approval of the counterparty.
Approved	The TES trade has been ratified by the counterparty, but approval of other counterparties are still outstanding.
Auto_Approved	The TES trade has been auotmatically approved by executing an Auto-Approval rule defined for a particular trader and product.
Executed	The TES trade has been fully ratified.
Deleted	The TES trade has been deleted.

Suspended	The TES trade has been entered in suspended state, for activation at a future point in time.
Reversed	The TES trade has been reversed.

T7 Entry Services - Bilateral, Simple & Broker Mode The T7 Entry Service view supports the entry of regular block trades of type *OTC* and *LIS* of bilateral TES trades in a single view.

The TES Entry view is split into two sections, the first section describing the kind of tradeable which is dealt with (the red box of the following screenshot depicting this area), and the second section describing the counterparties which take part on the trade (the blue box below):

Instrument DB1 Susp Prc 101	dID 🧭 💭 Delete	— TES Type —		CommTime 13:00 CEST	Description	EntryTime CEST	ElapsedTime Exec	TesState LISMinV ON Time Initiator (Bro CEST ABCXETRD0
Initiator (Broker) ABCXETRD001 Approver ABCXETRD001	Qty Act Text1		Text2	Text4 1234567890123456	ClientID LP	rv InvID	InvQual	Status (Initiator) Status (Approver)
🤱 Add Approver	💃 Remove Approver 🛛 🗞 Page					> To Broker Mode	e 🌔 Add Using	SReset P Apply

Fig. 61: Screenshot of TES Entry view in Simple Mode highlighting tradeable section and counterparty section

This bottom area in blue is switchable, in order to allow for addressing multiple counterparties.

The view has two main operating modes. A *Simple Mode* for the entry of a bilateral TES trade (which is the default), and a *Broker Mode* which is used for a more verbose view on the (clearing) data of participants. In *Broker Mode* it is also possible to enter a bilateral trade, and in fact you can switch between these two modes to allow for different representations of the trade you are about to enter. The following screenshot shows the TES Entry view in the more flexible *Broker Mode*:

T7 Entry Se Product	ervice - OTC TESTrdID	De De	lete												GBBX
Instrument DB1	DE0005810055	Set	tlementDa	ite	TES Type TES Type OTC LIS									TesState ON	LISMinValue
Susp Prc	EUR							CommTime Desc 13:00 CEST	cription			EntryTime E CEST	lapsedTime Exec		nitiator (Broker) ABCXETRD001
TesTrdID	Approver	B/S	Qty	Act	Text1	Text2	Text4	ClientID	LiPrv	InvID	InvQual	TesStatus			
	BCXETRD001 (myself) BCXETRD001 (myself)		500 500				1234567890123456 1234567890123456		FALSE FALSE						
👗 Add Appr	rover 🤽 Remove A	pprove	er 🔹 🛚	age							<	To Simple Mode	Add Using	∱ <u>R</u> eset	Apply Apply

Fig. 62: Screenshot of the TES Entry view in Broker Mode

In this mode, each counterparty is displayed as a single row in the table of this window.

The TES Trade Entry provides a view property to allow to set the default mode to Simple or Broker mode. The default mode is Simple.

The table can be edited directly: a double click on a cell puts the table into edit mode and starts the editing of the clicked cell.

Approver column

The Approver column on the T7 Entry Services tabs indicate the Approver of this counterparty row. The approver is identical to the owner of that row.

TES: In-house trades in Simple mode

The TES Trade Entry supports the entry of in-house block trades also in Simple entry mode. But please be aware that the trade is entered and automatically approved and executed immediately at the push of the Apply button. The implication of the Simple entry mode is, that the clearing information provided will also be used for the approver side. This could be desirable. However, the user is warned about this fact via this dialogue, and can choose to accept that and enter the trade (Yes) or stop and switch into the Broker mode instead (No):

Inhous	se trade							
?	You have entered an inhouse trade in SIMPLE mode.							
	 The entered clearing information will be copied into the second leg/approver side The trade will be executed immediately 							
	Do you want to continue?							
	Do not ask again							
	Yes <u>N</u> o							

Fig. 63:

TES Alert: Approval Notification

Once a TES trade has been entered, an approval broadcast is submitted to the target traders. As long as a trader has the T7 Trader GUI open at that time, the corresponding TES trade will be indicated in the Trader GUI of the Approver via a confirmation popup:

	Show TES View	- ×
Event: Time:	Approval Notification 05.09.2018 17:16:19	
Instrument	ADDE	

The Approver can then click the *Show TES View* button to show the trade in the *TES View*. A double click on the trade then opens the TES Entry, ready for approval of the TES trade.

TES: Full UserID Required for Approver field

The full UserID needs to be specified for the counterparty side. Instead of a UserID, a nickname

may be chosen instead, if the nickname has already been registered using the *TES Counterparty* view.

For convenience, the context popup of the Approver field provides a list of traders which are already registered by the TES Counterparty view. It is also possible to type the member ID or the first letters of a nickname while the popup is open to quickly find the respective counterparties from that list. The popup provides the following information: Counterparty, Nickname and Comment.

TES: User Group and User Level

The User Group and User Level concept of the T7 trading system also apply to TES trades. The currently assigned user level and user group of a trader which currently impacted the on-exchange trading activities therefore also effects the TES trading activities of this user.

Overview of the user levels in the light of TES trading:

Trader	A trader is an individual admitted for trading at the exchange. Unlike a head trader and supervisor, a regular trader cannot see the TES trades of other traders from the same user group or any other user group or business unit.				
Head trader	A head trader is part of a user group and may see, maintain or approve TES trades of traders in the same user group in the Trader GUI - granted, that the required entitlements are assigned.				
Supervisor	The supervisor user level may see, maintain or approve TES trades of al users of the same business unit - granted, that the required entitlements are assigned.				

TES: Trade Commencement, Entry, Approval and Execution Time

Introduction of TES Times: Time of Commencement, TES Entry Time, TES Execution Time:

- The Time of Commencement is the time of trade agreement (outside the system) between the counterparties and can be entered manually by the initiator. The Time of commencement cannot be in the previous day and cannot be more than 24 hours older than the TES entry time for TES types *LIS* and *OTC*.
- The TES Entry Time is the time of the technical entry of the TES trade into the T7 system, and will be automatically assigned by the exchange.
- The Side Approval Time is automatically assigned by the exchange at the time of the respective side's approval.
- The TES Execution Time is given to all executed sides once the trade is fully approved.

The Time of Commencement is the only time which can be entered manually. The time zone must be CET/CEST. Since it is foreseeable that some users from other time zones could mistake their local time with the system time, the TES Trade Entry displays the difference of the given time to the current system time:

	CommTime	Description	EntryTime	ElapsedTime	ExecTime	Initiator (Broker)
diff: 44 minutes ago	15:00 CEST		CEST		CEST	ABCXETRD001

Fig. 64: Detail of TES Entry screen highlighting Commencement Time field

A quick look onto that special display ("diff: 44 minutes ago") reduces the possibility of an error.

TES: Bulk Load (Import)

The *TES* facility features a special import function to upload TES trades. This import view is accessible via the view's import function - either by clicking and chosing *Import* or via GUI menu *View->Import*.

Using the *Import*-button on the *Import* view, a csv-file can be selected for import (the separator character being the semicolon, regardless of any regional settings in the operating system used). The *GUI* then reads the file and displays the to be imported TES trades in the table for review. Errors that are found while reading the import file are indicated by a red background color. A click on such a red line will show a detailed message about the problem in the status bar. The data in the table is not directly editable - errors should be fixed in the file to be imported.

After the table has been checked for errors, the imported file can be applied using the Apply button.

Please note: Template files for this bulk load functionality can be downloaded from the landing page.

TES Bulk Load: Auto Approval

TES trades will be automatically approved during the import, if the fields required for approval are filled in the import file for the counterparty side: Act (S) and TraderID (S). For details please refer to 4.2.5 TES Auto Approval Rule.

TES: Page Broker

Once the TES trade is approved by all participants, neither the initiator nor any counterparty can do any change to the TES trade anymore. Since to err is human, we provide a means to let the counterparty inform the broker in the event the trade details are incorrect.

In that event a popup will open in the T7 Trader GUI of the initiator displaying the request of the counterparty to update details of the trade.

In order to indicate that message was received by the counterparty, a green checkbox icon (\checkmark) is displayed next to the delivered message:

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age Brok	er - ADDE - Trade ID 4 er	
	te that these messages are recorded at Deutsche Boerse for an unlimite via a supervisor in the Admin GUI.	ed amount of time, and can be
ounterparty:	ABCXETRD001	
(✓ Hello	
		16:53:28
	 Kindly asking to approve quickly. 	
		16:55:54
	problem, will do.	
16:5	6:22	
Open		Send
g open		i Jeno

Fig. 65: Screenshot of the Page Broker dialogue

Please note that these messages are recorded at Deutsche Boerse and are provided to the member on request.

TES: Description Field

The Initiator of a TES trade can not specify the clearing information fields for the counterparty, e.g. Text1, Text2, MIOrdNo. In order to compensate for that, a new Description field is provided, which allows the initiator to give a hint to the counterparty about the background of the trade:

Trade Entry Service - OTC						Ö.	Geex
Product TESTrdID 😂 💭 Delete							
Instrument SettlementDate DB1 DE0005810055	TES Type TES Type OLIS					TesState ON	LISMinValue
Susp Prc 101 EUR		CommTime 13:00 CEST	Description	EntryTime E	lapsedTime Exe		Initiator (Broker) ABCXETRD001

Fig. 66: Screenshot of the TES Trade Entry view highlighting the Description field

TES: Display of LIS Minimum value

Every TES trade of type LIS must fulfill instrument specific block size validation. For each TES trade side the TES trade price multiplied by the side quantity must be equal or higher than the *LISMinValue*. *LISMinValue* is filled for TES Trade Type LIS only.

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Trade Entry Service - LIS	☆ GB图×
Product TESTrdID Image: Construment TES Type Instrument SettlementDate — TES Type — DE0005003404 ADS 20.12.2013 O OTC @ LLS	TesState LISMinValue ON 633000
Susp Prc 316.0	CommTime Description EntryTime ElapsedTime ExecTime Initiator (Broker) CEST CEST CEST ABCXETRD001

Fig. 67: Screenshot of the TES Trade Entry view highlighting the LISMinValue field

Trade IDs (TES ID, TES Side ID, TesTrdID)

While the TES ID and TES Side ID are valid for an unratified TES Trade, the Deal IDs and Deal Item IDs are assigned once a TES trade has been executed (fully ratified).

Field	Description
TES ID	This ID references the whole TES trade with all counterparties involved for a given product.
TES Side ID	The TES Side ID refers to a specific TES trade approving side of the TES trade.
Deal ID	one unique Deal ID is assigned for the whole TES Trade.
Deal Item ID	a unique Deal Item ID is assigned for each TES trade side.

TES: Entry of suspended Block Trades

GUI supports entry of suspended TES trades. The suspended checkbox must be ticked for that during entry of the TES trade. It is possible (but not mandatory) to specify a Price for a suspended TES trade.

Product TESTrdID & Delete			
Instrument SettlementDate TES Type DE0006048409 ADDE 20.12.2013 Image: OTC LIS			TesState LISMinValue
Susp Prc [100.0 EUR.]	CommTime Description 17:00 CEST	EntryTime ElapsedTime E	CEST ABCXETRD001

Fig. 68: Screenshot of the TES - Trade Entry view showing the entry of a suspended TES OTC trade

This trade is then visible in the TES View in state SUSPENDED, and can later be unsuspended, which then starts the approval process.

Field description of the TES Trade Entry view:

Field	Description
Product	The TES Product in combination with the TESTrdID is used to identify a TES trade. The TESTrdID is assigned by the system after the trade has been entered.
TESTrdID	After the TES Trade has been entered, the trade can be retrieved using these fields.

TesState	The TES activity state:
	 On Enable all TES activities (TES trading, TES deal cancellation)
	Halted
	Disable TES trading activities (TES entry and side approval).
	TES deal cancellation is still possible. This state will be used in exceptional situations. It is used to indicate
	that the TES trading is stopped temporarily.
	• Ended
	Disable TES trading activities (TES entry and side approval). TES deal cancellation is still possible.
	This state will be used at the end of the day. It is used to indicate the end of the current trading day.
	• Off
	Disable all TES activities (TES trading, TES deal cancellation).
LISMinVal	TES Type LIS only: Large In Scale minimum value. Usually a result of
	price times quantity.
Instrument	Tradeable instrument
Settlementdate	Settlement date (optional).
TES Type	TES Type of the TES Trade - OTC or LIS (large in scale)
Susp	Checkbox to mark or unmark a TES trade as suspended.
Prc	The price of the TES trade. Only multiples of the tick size of the product are allowed.
CommTime	Time of Commencement. Time of day when traders have agreed on a
	deal via phone or chat. Needs to be entered in central European (summer) time (CET/CEST).
Description	The Description field allows the Initiator to pass some background
	information about the TES trade to the counterparties.
EntryTime	The TES Trade entry time.
ElapsedTime	The elapsed time since the entry of the TES trade
ExecTime	The TES Trade execution time.
Initiator	This is the person entering the TES trade
TesTrdId	Trade ID of an executed TES trade
Approver	The approver (owner) of the trade.
B/S	Buy or sell code of the counterparty.

Qty	Quantity of the counterparty.
Act	Position account.
Text1, Text2	These fields are mandatory or optional according to the settings in the <i>Preferences</i> and can be filled with an up to 12 characters user defined text.
MIOrdNo	Text field for special purposes. Can be filled up to 16 characters.
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
LiPrv	Checkbox to indicate whether an order is submitted as part of a market making strategy. Box ticked means true.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.

3.3.4 Xetra EnLight the selective RFQ Service

Xetra EnLight is the *Selective Request for Quote* service to negotiate on-exchange off-book transactions electronically in the T7 trading system. After a negotiation with one counterparty or several ones, a resulting deal is directly sent to the clearing and settlement systems without any further interaction from the participants, providing straight-through-processing for the participants.

The Cash Trader GUI implementation of Xetra EnLight is the reference implementation of this Request for Quote service. It comprises a set of use-case tailored GUI views that interact with each other.

With Release 8.1, T7 supports entering Xetra EnLight RfQ below the Large-in-Scale (LIS) value, down to an instrument-specific, exchange-defined threshold. This threshold is denoted as *RfQMin-Value* in Xetra EnLight views. Accordingly, the respondents' quotes may be below LIS but not below the *RfQMinValue*. Xetra EnLight quotes below LIS will be published to ensure pre-trade transparency in accordance with the MiFID II regulation.

For the general Xetra EnLight RfQ handling the starting point differs, depending on the perspective of the user:

The *Xetra EnLight Requester* will start from the *Xetra EnLight Requester view* to create a new Xetra EnLight Request add one or more respondents.

The Xetra EnLight Respondent on the other hand would start with the Xetra EnLight Responder view to check for any currently running or newly incoming Xetra EnLight requests. For users to take part in Xetra EnLight as a respondent, a registration at the exchange is required on an individual ISIN basis.

As it is expected to have more respondents than requesters, the Xetra EnLight Responder is considered the main view of the whole Xetra EnLight service in the GUI, and for that reason we will start with that view.

Definitions and Abbreviations

Term	Description
Xetra EnLight Request	Xetra EnLight Request for Quote (RfQ) is sent by the requester to get quotes from respondents.
Xetra EnLight Negotiation Event	This is the name of the lifecycle of an Xetra EnLight Request.
Xetra EnLight Requester	The user who starts the Negotiation Event and sends an Xetra EnLight is the requester.
Xetra EnLight Respondent	The user(s) to whom the Xetra EnLight Request is targeted to by the requester.
Xetra EnLight Quote	A quote sent by the respondents in response of the Xetra EnLight Request.
Xetra EnLight Deal	The Xetra EnLight requester may target a specific Xetra EnLight Quote using an Xetra EnLight Deal.

Ownership

The T7 user level group concept of User, Head Trader and Supervisor user also applies to Xetra EnLight. This means that a Head Trader of the same user group or a Supervisor user of the owning user's business unit is allowed to view or perform actions on an Xetra EnLight Request, which is currently owned by different trader within that user group or business unit, granted that such user has the correct entitlement.

The ownership however does not change.

Visibility

A Head Trader of the same user group or a Supervisor user of the owning user's business unit is allowed to view or perform actions on an Xetra EnLight Request, which is currently owned by different trader within that user group or business unit, granted that such user has the correct entitlement.

3.3.5 Xetra EnLight Responder

The *Xetra EnLight Responder* view is the core component and the starting point of the Xetra EnLight functionality from the viewpoint of respondents. Respondents can see all currently active Xetra EnLight requests targeted at the logged in user.

The respondent can check the status and details of any already sent quote.

This view is dynamically updated. The following screenshot illustrates the Xetra EnLight Responder type of GUI view:

Prof/Prod/Instrument 🖞 Edit 🌮 🖸 Depth											pth 5	-	Quick Find 🛛 🦨								
Enit		ISIN	WKN	B/S	AckStatus	Status	NoFillReason	OpenQty	PrefBid	PrefAsk	BidQty	Bid	Ask	AskQty	Buy-Side	SettlementDate	Act	Text1	Text2	MIOrdNo	ExpireT
9	LHA	DE0008232125	823212	S	RESPONDED	OPEN		500	102.0000	104.2000	500	102.0000				20.12.2013	P1	tt11	tt21	MIMIMI	
3	LHA	DE0008232125	823212	В	RESPONDED	OPEN		15,300	101.0000	103.1200			103.0000	15,300		20.12.2013					
2	LHA	DE0008232125	823212	в		OPEN		1,200								20.12.2013					

Fig. 69: Screenshot of the Xetra EnLight Responder

The view displays data in two levels of depth:

- Level 1: The list of all currently running Xetra EnLight requests for which the logged in user is chosen as a respondent, together with any potential quote that might be submitted by that respondent.
- Level 2: The quote history for the selected Xetra EnLight request, the most recent quote is shown at the top of the list.

The maximum depth in display of level 2 can be directly controlled in the view via the Depth control. Incoming Xetra EnLight requests are displayed automatically. Please check also the section about Xetra EnLight alerts (\rightarrow 3.3.12 Xetra EnLight Alerts), since a default Xetra EnLight alert is already set up by default as a convenience for the user. This Xetra EnLight alert notifies the Xetra EnLight respondent about any incoming new Xetra EnLight request.

Xetra EnLight requests are displayed as long as they are active. Once the Xetra EnLight quote has been matched, its Status changes. Xetra EnLight deals as a result of matched Xetra EnLight Quote are displayed in the Xetra EnLight deals view. This is also the case for pending Xetra EnLight deals which require to be confirmed by the Xetra EnLight respondent in order to become final.

Xetra EnLight requests which are set to Closed or are expired are removed from this view.

Functions provided on the Xetra EnLight Responder:

• The Xetra EnLight request from the perspective of the respondent features a timestamp. This timestamp is used to highlight requests that are '*hot*'. An already existing Xetra EnLight request that becomes *hot* again indicates, that the requester has changed parameters of the request, or wants to a see an updated quote from the respondent (or both). It is also possible to pick the Time column as a sort criteria in the table.

Available actions of the Xetra EnLight Responder:

Action	Description
Enter Quote (Double Click)	Opens the Xetra EnLight Quote Entry for the selected Xetra EnLight RfQ.

Delete Quote	Deletes the Xetra EnLight quote. The respondent can delete the own quote as long as it is active i.e. not deleted by Xetra EnLight. Both quote sides as part of the Xetra EnLight Quote are deleted at once. When quote is deleted and the Xetra EnLight Negotiation Event is still 'Open', the respondent can enter a new quote again.
History	Opens the Xetra EnLight Response History view

Available filter fields on the Xetra EnLight Responder:

Field	Description						
Profile/Product/Instrument	The profile, product or instrument filter.						
Depth	Controls the number of level 2 rows in the table						

Available fields of the Xetra EnLight Responder table level 1:

Field	Description						
EnID	The ID of this Xetra EnLight Request. Display only.						
Instrument	Instrument mnemonic.						
WKN	WKN of the instrument						
ISIN	ISIN of the instrument						
QuoteID ID of the Xetra EnLight Quote.							
B/S	Buy or Sell side of the Xetra EnLight Request as entered by the requester.						
Status	 Display only. Open: The initial status of a Xetra EnLight request is Open and implies that it is possible to place quotes and deals. Expired : Expiry duration (product specific or defined by requester) has been exceeded. Closed: The Xetra EnLight Request status is changed to Closed in following scenarios: The requester closes the Xetra EnLight Request manually or any pending Xetra EnLight deals have been confirmed. 						
AckStatus	Acknowledgement status of the respondent. e.g. RESPONDED, DECLINED.						
NoFillReason	Reason why quote was not chosen.						

PrefBid	The bid price of the Xetra EnLight request as specified by the requester.
PrefAsk	The ask price of the Xetra EnLight request, as specified by the requester.
BidQty	Quote Bid Quantity.
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
AskQty	Quote Ask Quantity.
Buy-Side	BuySide user information alphanumeric text field.
SettlementDate	Settlement date of instrument.
Act	Position Account
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Text field for special purposes. Can be filled up to 16 characters.
ExpireTime	Expiry duration of negotiation event
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
LiPrv	Checkbox to indicate whether an order is submitted as part of a market making strategy. Box ticked means true.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.
Requester	The user name of the requester. Display only.
EnteringRequester	The user that entered the respective Xetra EnLight request, not the user owning that request. In the context of Xetra EnLight there is no takeover of ownership.

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Respondent	The Xetra EnLight request can be targeted to numerous users. The same user cannot be targeted more than once for the the same Xetra EnLight request. For each selected respondent the login name including the Business unit name and the user name i.e. 'ABCFRTRD001' will be provided. When <i>SmartRfQ</i> is active, the request is sent additionally to respondents not known to the requester. During the lifetime of the Xetra EnLight Request additional respondents can be added but existing respondents cannot be removed by the requester.
EnteringRespondent	The user that entered the respective Xetra EnLight quote, not the user owning that quote. In the context of Xetra EnLight there is no takeover of ownership.
LastUpdateTime	Timestamp of the last change by the responder.

Available fields of the Xetra EnLight Responder table level 2:

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
Instrument	Instrument mnemonic.
WKN	WKN of the instrument
ISIN	ISIN of the instrument
QuoteID	ID of the Xetra EnLight Quote.
B/S	The side of the Xetra EnLight request as specified by the requester
NoFillReason	Reason why quote was not chosen.
Quantity	Quantity of quote
PrefBid	The bid price of the Xetra EnLight request as specified by the requester.
PrefAsk	The ask price of the Xetra EnLight request, as specified by the requester.
BidQty	Quote Bid Quantity.
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
AskQty	Quote Ask Quantity.
Text	BuySide user information alphanumeric text field.
SettlementDate	Settlement date of instrument.

Act	Position Account						
Requester	The user name of the requester. Display only.						
EnteringRequester	The user that entered the respective Xetra EnLight request, not the user owning that request. In the context of Xetra EnLight there is no takeover of ownership.						
Respondent	The Xetra EnLight request can be targeted to numerous users. The same user cannot be targeted more than once for the the same Xetra EnLight request. For each selected respondent the login name including the Business unit name and the user name i.e. 'ABCFRTRD001' will be provided. When <i>SmartRfQ</i> is active, the request is sent additionally to respondents not known to the requester. During the lifetime of the Xetra						
	EnLight Request additional respondents can be added but existing respondents cannot be removed by the requester.						
EnteringRespondent	The user that entered the respective Xetra EnLight quote, not the user owning that quote. In the context of Xetra EnLight there is no takeover of ownership.						
LastUpdateTime	Timestamp of the last change by the responder.						

3.3.6 Xetra EnLight Requester

The *Xetra EnLight Requester* view is the starting point for the Xetra EnLight functionality from the viewpoint of an Xetra EnLight requester. The view displays all currently existing Xetra EnLight requests that have been submitted by that broker, or that are visible to that broker. It serves as a quick overview of all currently running Xetra EnLight requests.

From here, the most interesting functions are the *Add Xetra EnLight* and view *Details* actions, which lead to the Requester (Broker) Details view, which is the core Xetra EnLight functionality used by Xetra EnLight requesters. A new Xetra EnLight Request can be started or the progress of existing one can be tracked or maintained from here.

The Xetra EnLight Requester view has also a link to the Xetra EnLight Request *History*, which has the history of all past Xetra EnLight requests of the current business day. Apart from audit purposes, the history can be used to start a new Xetra EnLight Request on the basis of a historic one, which is then used as template.

Prof/Prod/Instrument SIN WKN B/S Status TotalQty OpenQty PrefBid PrefAsk NoofRespondents StartTime Requester EnteringRequester BestQuoteBidQty BestQuoteBid BestQuoteBid BestQuoteBidQty BidQty												Quick Find						
9	LHA	DE0008232125	823212	S	OPEN	500	500	102.0000	104.2000	2	19.03.2019 12:42:33.0	29	ABCXETRD002	ABCXETRD002	500	102.0000		
3	LHA	DE0008232125	823212	в	OPEN	15,300	15,300	101.0000	103.1200	2	19.03.2019 10:08:45.2	03	ABCXETRD002	ABCXETRD002			103.0000	15300
2	LHA	DE0008232125	823212	в	OPEN	1,200	1,200			2	19.03.2019 10:07:14.9	31	ABCXETRD002	ABCXETRD002				

Fig. 70: Screenshot of the Xetra EnLight Requester view

Available actions on the Xetra EnLight Requester view:

Action	Description
Add Xetra EnLight	Opens the Xetra EnLight Request Details view.
Duplicate	Opens the Xetra EnLight Request Details view, the selected request will be used as template for the creation of a new Xetra EnLight request.
Details (Double click)	Opens the Xetra EnLight Request Details prefilled, allows to make modifications to the Xetra EnLight Request.
History	Opens the Xetra EnLight Request History to show a history log of all past Xetra EnLight requests that are not currently active.

Available filter fields on the Xetra EnLight Requester view:

Field	Description
Product/Instrument/Profile	The traded contract.

Available fields of the Xetra EnLight Requester table:

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
Instrument	Instrument mnemonic.
WKN	WKN of the instrument
ISIN	ISIN of the instrument
B/S	Buy or Sell side of the Xetra EnLight Request as entered by the requester.
Status	Display only.
	Open: The initial status of a Xetra EnLight request is Open and implies that it is possible to place quotes and deals.
	Expired : Expiry duration (product specific or defined by requester) has been exceeded.
	Closed: The Xetra EnLight Request status is changed to Closed in following scenarios: The requester closes the Xetra EnLight Request manually or any pending Xetra EnLight deals have been confirmed.
TotQty	Total quantity of Xetra EnLight negotiation
PrefBid	The bid price of the Xetra EnLight request as specified by the requester.

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PrefAsk	The ask price of the Xetra EnLight request, as specified by the requester.
NoOfRespondents	Number of respondents in this Xetra EnLight negotiation
StartTime	Start time of the Xetra EnLight Request.
ReportID	A report ID which can be used for in-house purposes.
LastUpdateTime	Timestamp of the last change
Requester	The user name of the requester. Display only.
RequesterBU	Name of Business Unit the requester belongs to. Display only.
RequesterBUID	Numeric ID of the BU the requester belongs to. Display only.
EnteringRequester	The user that entered the respective Xetra EnLight request, not the user owning that request. In the context of Xetra EnLight there is no takeover of ownership.
BestQuoteBid	Quantity of best bid Quote
BestQuoteBid	Best bid Quote
BestQuoteAsk	Best ask Quote
BestQuoteAskQty	Quantity of best ask Quote

3.3.7 Xetra EnLight Request Details

The *Xetra EnLight Request Details* view serves as basis to start an Xetra EnLight Negotiation Event workflow.

With Release 8.1, T7 supports entering Xetra EnLight RfQ below the Large-in-Scale (LIS) value, down to an instrument-specific, exchange-defined threshold. This threshold is denoted as *RfQMin-Value* in Xetra EnLight views.

To successfully submit an Xetra EnLight negotiation, the requested size of the RfQ must not be lower than the *RfQMinValue*. The requested size is calculated as "quantity * reference price" for unit quoted instruments (e.g. equities) and quantity alone for percentage quoted instruments (Bonds).

The *Xetra EnLight Request Details* can be split into two sections. The upper area is dealing with instrument related information and actions while the lower area is focusing on responded related information and interaction.

In the upper area the instrument can be specified and the *Smart RfQ* mode can be activated (cf. *Smart RfQ Mode-anonymous mode* further below). To the upper right additional supportive information is displayed. Examples are the *Negotiation Status*, the current TES state of the specified instrument and the new *RFQ Minimum Value* threshold for negotiations below the LIS value.

This area also features an top-of-book view which gets filled as soon as an instrument has been specified. Furthermore the Buy or Sell side can be selected and the quantity can be specified. For

any Xetra EnLight negotiation request an expiry duration time can be set. If it is not provided, then the maximum duration time at the product level is used which is defined by the exchange.

The lower area of the *Xetra EnLight Request Details* features the respondent table. The requester can specify preferred values for bid and ask and select desired respondents. Respondents can be saved in a favorite list for quick retrieving for upcoming requests. Up to five favorite lists are shown in a favorites lists row below the respondent table. Start and stop editing this list is done by clicking on the pencil icon right off this list.

To allow for a compact display, initially some fields of the respondents table are hidden, e.g. *RespondentsCount* or *ShowDealPrc*. These can be displayed by right-clicking on any column header of the table clicking Show/Hide and the desired column name. The respondent table provides additional functions like *show* command or *requote request*. These functions can be selected by right-clicking in any cell of the respondent table.

etra	EnLigh	nt Reque	est De	tails -	LHA																# 🖗
nID	Ir	nstrument					artRFQ	Buy-Si	de			Settlem	entDate	NegStatus		Requester	LIS	MinValue	RFQMinValue	ReportID	TesState
		DE0008232	2125		LHA							20.12.	2013	OPEN		ABCXETRDO	001 5	100	5,100		ON
	se Curr		Bid	Ask				stQty	High	Low				LstTimeRFQ	LstQtyRF	Q LstPrcRFQ		55			
Con	EUR		02.000 101.920		JU 350	102.0	0000	250	102.0000	102.0000	J 250	12:33:25	17.04.2020)			EQUITY				
		350 1																			
																		_			
le		Qty		VegExpir	v																
_		200	n i	regexpi	y mm:s	55															
						_															
	BidQty	Bid		Ask	AskQt	y Acks	tatus	R	esponder	it .		Res	pondentLega	Name							
2		2 101.900	00 🥖 10	01.9800																	
_																					
в						-		ADCVET	RD005 (a	~ ^		RGER AKTIE									
									RD003 (d RD002 (d				IEFBANK AG								
								DEI NEI	NDODE (G	50017 0	20150										
							•									-					
	bmit	PEnd Se	ssion	Aco	ept Qua	ote 🚮	Acce	pt Best (Quote					👗 Add	Responden	t 🍶 Remo	ve Respond	ent 🚽	Save Respond	dents [👎 Duplicate	Rer
✓ Su																					

Fig. 71: Screenshot of the Xetra EnLight Request Details view

Functions provided on the Xetra EnLight Request Details:

• Smart RfQ Mode - anonymous mode: Send an anonymous Negotiation Request to registered participants. Additionally to manually selected known respondents the request will be sent to those participants who have agreed to be part of Smart RfQ program and selected via a specific exchange algorithm. The requester as well as the respondents will get no private information of the counterparty during the negotiation, i.e. all fields with trader / BU related information of the couterparty will be empty. Whether *Smart RfQ* is available for an instrument is configurable and decided by the Exchange.

Fig.

	Instrument DE0008232125	SmartRFQ	Buy-Side	SettlementDate 20.12.2013		NegStatus OPEN	ISMinValue RFQMinValu 5100 5100	e ReportID	TesState ON
				Vol LstTrdTime LstTrdDate LstTimeRFQ Ls 250 12:33:25 17.04.2020	stQtyRFQ LstPrcRFQ AssetClass EQUITY				
BidOtv	325	Expiry NegExpIn mm:ss	Respondent	RespondentLegalName					
325		325 NOT_RESPOND							
325 325 325 325 325	102 102.1 102 102.1 102 102.1 102 102.1 102 102.1	325 NOT_RESPOND 325 NOT_RESPOND 325 NOT_RESPOND 325 NOT_RESPOND	0ED 0ED 0ED						
	102 102.1	325 NOT_RESPOND	DED DEFXETRD002	DEUTSCHE PFANDBRIEFBANK AG					

72: Screenshot of Xetra EnLight Request Details view of a running negotiation in Smart RfQ (anonymous) mode

- Display and dynamic update of top of book for the chosen instrument.
- Display of buy/sell side to selected respondents. Can be triggered directly from the respondent table via the *Shown Side* command. *Shown Side* can be executed as soon as an Side has been selected and already before the request has been submitted!
- Re-Quote request: Re-quote basically resets the Xetra EnLight Request time from the perspective of a Xetra EnLight respondent, to indicate that the requester wants to receive a new (better) quote from that respondent. Multiple respondents can be selected for this action.
- Pinning: If requester has specified preferred value for Bid or Ask, the *Pinning* feature gets activated. It is a visual help to compare the requesters preferred values with responders quotes. When *Pinning* is active, a pin icon will appear in the respondents rows, next to bid, ask or quantity cells. A grey pin indicates that no response or a response with a price worse than the preferred price has been received. A red pin indicates that a response with a price equal or better than the preferred price has been received.
- Automatic display of Xetra EnLight deals: Once the first deal was submitted by the requester, the Xetra EnLight deals display opens automatically as part of the Xetra EnLight Request Details view, to show all available deals in the context of the current Xetra EnLight request. Please refer to Xetra EnLight deals (→ 3.3.11 Xetra EnLight Deals) for a description of that view.

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
Instrument	Instrument mnemonic.
SmartRfQ	Anonymous negotiation request. Apart from manually selected respondents, request is sent anonymously to respondents unknown to the requester. Respondents quoting is done anonymously as well.
BuySide	BuySide user information alphanumeric text field.
SettlementDate	Settlement date of instrument.

Available fields of the Xetra EnLight Request Details entry form:

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NegStatus	Display only.
	Open: The initial status of a Xetra EnLight request is Open and implies that it is possible to place quotes and deals.
	Expired : Expiry duration (product specific or defined by requester) has been exceeded.
	Closed: The Xetra EnLight Request status is changed to Closed in following scenarios: The requester closes the Xetra EnLight Request manually or any pending Xetra EnLight deals have been confirmed.
Requester	The user name of the requester. Display only.
LISMinValue	Large In Scale minimum value. Usually a result of price times quantity.
RfQMinValue	Exchange defined minimum value of the negotiation.
Side	Buy or Sell Side of Xetra EnLight negotiation request.
ExpireTime	Expiry duration of negotiation event.

Available fields of the Xetra EnLight respondents table:

Field	Description
BidQty	Quote Bid Quantity.
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote In first row of respondent table the requester might specify a <i>preferred</i> Bid price.
Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote In first row of respondent table the requester might specify a a <i>preferred</i> Ask price.
AskQty	Quote Ask Quantity.
AckStatus	Acknowledgement status of the respondent. e.g. RESPONDED, DECLINED.
Respondent	The Xetra EnLight request can be targeted to numerous users. The same user cannot be targeted more than once for the the same Xetra EnLight request. For each selected respondent the login name including the Business unit name and the user name i.e. 'ABCFRTRD001' will be provided. When <i>SmartRfQ</i> is active, the request is sent additionally to respondents not known to the requester. During the lifetime of the Xetra
	EnLight Request additional respondents can be added but existing respondents cannot be removed by the requester.
Legal Name	Legal name of respondent.

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QuoteID ID of the Xetra EnLight Quote. This field is hidden by default.	1
---	---

Following fields are displayed only after Xetra EnLight request has been submitted:

Field	Description
Act	Position Account
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Text field for special purposes. Can be filled up to 16 characters.
LiPrv	Checkbox to indicate whether an order is submitted as part of a market making strategy. Box ticked means true.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.

3.3.8 Xetra EnLight Request History

The *Xetra EnLight Request History* view shows a history log of all past Xetra EnLight requests that are not currently active.

The view is a table with two levels of depth:

- Level 1: The request summary as formerly shown in the Xetra EnLight Requester view.
- Level 2: The list of respondents for the selected request, including the quote details in the same row. This display is similar to what was formerly shown in the Xetra EnLight Request Details view on level 1. Please note that there is no third level provided here, to show also the quote history.

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		EnteringRequester	Requester	2 ReportID	Time	t	AskQty T	Ask	Qty Bid	efAsk Bidd	PrefBid P	OpenQty	TotalQty	EnableSmartSRQS	B/S	Instrument	EnID
		ABCXETRD002	ABCXETRD002	05	2:53:10.90	25.03.2							1,002	FALSE	В	LHA	4
BKFRTRD002	CBKFRTRD002	ABCXETRD002					1,002	102.0000				1,002			в		
	DBKFRTRD002	ABCXETRD002										1,002			В		
							1,002	102.0000							В		

Fig. 73: Screenshot of the Xetra EnLight Request History view

Available actions on the Xetra EnLight Request history view:

Action	Description						
History	Opens the Xetra EnLight Response History view to display the quote history for the selected Xetra EnLight request.						
Request Details (Double click)	Opens the Xetra EnLight Request Details of selected Xetra EnLight Request.						
Duplicate	Selected Xetra EnLight Request will be used as template for the creation of a new Xetra EnLight request.						

Available filter fields of the Xetra EnLight Request History view:

Field	Description
Product/Instrument/Profile	The product, instrument or profile filter.

Available fields of the Xetra EnLight Request History table, level 1:

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
Instrument	Instrument which has been chosen by the Xetra EnLight requester.
B/S	Buy or Sell side of the Xetra EnLight Request as entered by the requester.
Status	Display only.
	Open: The initial status of a Xetra EnLight request is Open and implies that it is possible to place quotes and deals.
	Expired : Expiry duration (product specific or defined by requester) has been exceeded.
	Closed: The Xetra EnLight Request status is changed to Closed in following scenarios: The requester closes the Xetra EnLight Request manually or any pending Xetra EnLight deals have been confirmed.

EnableSmartSRQs	Anonymous negotiation request. Apart from manually selected respondents, request is sent anonymously to respondents unknown to the requester. Respondents quoting is done anonymously as well.
TotalQty	Total Quantity of the Xetra EnLight request. Can't be changed anymore once the request has been submitted
PrefBid	Bid price of the Xetra EnLight request.
PrefAsk	Ask price of the Xetra EnLight request.
BidQty	Quote Bid Quantity.
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
AskQty	Quote Ask Quantity.
NoFillReason	Reason why quote was not chosen.
Text	A free text message which can be used by the respondent to provide additional information to the requester.
StartTime	Start time of the Xetra EnLight Request.
QuoteID	Quote ID. This field is hidden by default.
ReportID	A report ID which can be used for in-house purposes.
LastUpdateTime	Timestamp of the last change
Requester	The user name of the requester. Display only.
EnteringRequester	The user that entered the respective Xetra EnLight request, not the user owning that request. In the context of Xetra EnLight there is no takeover of ownership.
Respondent	The Xetra EnLight request can be targeted to numerous users. The same user cannot be targeted more than once for the the same Xetra EnLight request. For each selected respondent the login name including the Business unit name and the user name i.e. 'ABCFRTRD001' will be provided. When <i>SmartRfQ</i> is active, the request is sent additionally to respondents not known to the requester. During the lifetime of the Xetra EnLight Request additional respondents can be added but existing
	respondents cannot be removed by the requester.
EnteringRespondent	The user that entered the respective Xetra EnLight quote, not the user owning that quote. In the context of Xetra EnLight there is no takeover of ownership.

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RespondentBU	Name of user group the entering respondent belongs to inside the business unit. <i>Display only.</i>
RequesterBU	Name of Business Unit the requester belongs to. Display only.

Available fields of the Xetra EnLight Request History table, level 2:

Field	Description					
EnID	The ID of this Xetra EnLight Request. Display only.					
Instrument	(not displayed.)					
B/S	Buy or Sell side of the Xetra EnLight Request as entered by the requester.					
EnableSmartSRQs	(not displayed.)					
TotalQty	(not displayed.)					
PrefBid	Bid price of the Xetra EnLight request.					
PrefAsk	Ask price of the Xetra EnLight request.					
BidQty	Quote Bid Quantity.					
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.					
Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.					
AskQty	Quote Ask Quantity.					
NoFillReason	Reason why quote was not chosen.					
Text	A free text message which can be used by the respondent to provide additional information to the requester.					
StartTime	(not displayed.)					
QuoteID	This field is hidden by default.					
ReportID	(not displayed.)					
LastUpdateTime	(not displayed.)					
Requester	(not displayed.)					
EnteringRequester	The user that entered the respective Xetra EnLight request, not the user owning that request. In the context of Xetra EnLight there is no takeover of ownership.					

Respondent	The Xetra EnLight request can be targeted to numerous users. The same user cannot be targeted more than once for the the same Xetra EnLight request. For each selected respondent the login name including the Business unit name and the user name i.e. 'ABCFRTRD001' will be provided. When <i>SmartRfQ</i> is active, the request is sent additionally to respondents not known to the requester. During the lifetime of the Xetra EnLight Request additional respondents can be added but existing respondents cannot be removed by the requester.
EnteringRespondent	The user that entered the respective Xetra EnLight quote, not the user owning that quote. In the context of Xetra EnLight there is no takeover of ownership.
RespondentBU	Name of Business Unit the respondent belongs to. Display only.
RequesterBU	Name of Business Unit the requester belongs to. Display only.

3.3.9 Xetra EnLight Quote Entry

The Xetra EnLight Quote Entry view allows the Xetra EnLight respondent to send a single or two sided Xetra EnLight quote. At a time, only one Xetra EnLight quote (consisting of single or two quote sides) from a respondent can be present for a particular Xetra EnLight request. Once the requester sends a (matching) Xetra EnLight deal for the Bid or Ask side of the Xetra EnLight Quote, the other side of the quote (if available) still remains. The screen also supports the deletion of the Xetra EnLight quote.

A quote can be sent only for an open Xetra EnLight request by the user who is specified as the respondent in the Xetra EnLight request. The *Xetra EnLight quote* entered by the respondent is only visible to that respondent, and to the requester.

With Release 8.1, T7 supports entering Xetra EnLight RfQ below the Large-in-Scale (LIS) value down to an instrument-specific, exchange-defined threshold. This threshold is denoted as *RfQMin-Value* in Xetra EnLight views. Xetra EnLight quotes below LIS value will be published to ensure pre-trade transparency in accordance with the MiFID II regulation.

To successfully submit an Xetra EnLight quote in a running negotiation, the size of the quote must not be lower than the *RfQMinValue*. This size of the quote is calculated as "quantity * reference price" for unit quoted instruments (e.g. equities) and quantity alone for percentage quoted instruments (Bonds).

In addition to the *RfQMinValue* the *NotionalValue* (quantity * reference price) is displayed on the Quote Entry view.

Xetra En EnID 2	Light Que Instrume DE0008	ent		- EnID		lue RFQ 5_10		Settlement 20.12.20						NegS OPEI		AckSt NOT	tatus _RESPONDED	Requester ABCXETRD	0002
	Curr BQty EUR 32 99 199	100.960 100.940	Ask 102.000 102.020 102.060	101 101	LstPrc 100.9600	LstQty 67	High 100.9800	Low 100.9600			LstTrdDate 29.04.2020	LstTimeRFQ	LstQtyRFQ	LstPrcRFQ	AssetClass EQUITY]			
Side	Qty 500	PrefBid	Pre	fAsk		VegExpiry	mm:ss	NegExpIn	I	Notion 50_480		Buy-Side buy-side field			-	ne Requeste RGER AKTIE			
lidQty Act Clier A1 98	+ Bid - ntID 756453		+ - Text1	Ask 102.06	-	AskQ 500	ty Fext2			MIOrd	No						LiPrv InvI		vQual UMAN
✓ Submit	:Quote 💙	PDelete Q	uote 🗸	' Workir	ng 🗸 D	edine													

Fig. 74: Screenshot of the Xetra EnLight Quote Entry view

Functions provided on the Xetra EnLight Quote Entry:

- Copy Requester's negotiation data: Clicking into copies requested prices and quantities into the respective bid/ask quote fields.
- If one of the given prices does not match the price step table, an information is shown to inform about that fact.
- If one of the given quantities is below the block trade minimum size of the TES profile, an information is shown to inform about that fact.
- Automatic display of Xetra EnLight deals: Once the first deal was submitted by the requester, the Xetra EnLight deals display opens automatically as part of the Xetra EnLight Quote Entry view, to show all available deals in the context of the current Xetra EnLight request. Please refer to Xetra EnLight Deals (→ 3.3.11 Xetra EnLight Deals) for a description of that view.

Following actions are available on *Xetra EnLight Quote Entry* view:

Action	Description
Submit Quote	Apply the new Xetra EnLight Quote, or apply changes to the Xetra EnLight Quote. All the quote sides as part of the Xetra EnLight Quote will be updated together by the respondent. The Xetra EnLight Quote update is in essence a quote deletion and entry of new quote.
Delete Quote	Deletes the Xetra EnLight Quote.
Working	Indicates respondent's general interest in the current negotiation request to the requester.
Decline	Declines any quoting for the current negotiation event.

Available fields of the *Xetra EnLight Quote Entry*:

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
Instrument	ISIN and Instrument mnemonic as specified by the requester. <i>Display</i> only.
LISMinValue	Large In Scale minimum value. Usually a result of price times quantity.
RfQMinValue	Exchange defined minimum value of the negotiation.
SettlementDate	Settlement date.
NegStatus	Display only.
	Open: The initial status of a Xetra EnLight request is Open and implies that it is possible to place quotes and deals.
	Expired : Expiry duration (product specific or defined by requester) has been exceeded.
	Closed: The Xetra EnLight Request status is changed to Closed in following scenarios: The requester closes the Xetra EnLight Request manually or any pending Xetra EnLight deals have been confirmed.
AckStatus	Acknowledgement status of the respondent. e.g. RESPONDED, DECLINED.
Notional	Notional value (quantity * reference price) of the request.
BuySide	BuySide user information alphanumeric text field.
Requester	The user name of the requester. Display only.
Side	Buy or Sell side of the Xetra EnLight Request as entered by the requester.
Qty	(open) Quantity of the negotiation request as specified by requester.
PrefBid	Preferred Bid price as specified by the requester.
PrefAsk	Preferred Ask price as specified by the requester.
ExpireTime	Expiry duration of negotiation event.
ExpiresIn	Remaining expiry duration of negotiation event.
Legal Name Requester	Legal name of the requester.
BidQty	Quote Bid Quantity.
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.

Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
AskQty	Quote Ask Quantity.
Buy-Side	A free text message which can be used by the respondent to provide additional information to the requester.
Act	Position Account
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Text field for special purposes. Can be filled up to 16 characters.
LiPrv	Checkbox to indicate whether an order is submitted as part of a market making strategy. Box ticked means true.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.

3.3.10 Xetra EnLight Response History

The *Xetra EnLight Response History* view allows to review all past quotes in the context of a distinct Xetra EnLight requester and respondent. Additionally, negotation events are displayed for which the Responder did not enter any quote. This allows for a complete overview of the daily RfQs for the Responder. From the viewpoint of an Xetra EnLight respondent the sent quote and quote updates are displayed together with any potential messages, in the correct chronological order.

The view is aggregated by the Enlight ID *EnID*. A click on the plus sign displays all quotes for the expanded negotiation event.

The following Screenshot indicates the Xetra EnLight Response History type of view:

	Enit	Instrument	ISIN	WKN	B/S	NegStatus	LstQuoteState	NoFillReason	Qty	PrefBid	PrefAsk	BidQty	Bid	Ask	AskQty	Buy-Side	LastUpdateTim
+	4	LHA	DE0008232125	823212	В	OPEN	DECLINED		4,550							anonymousON	29.05.2020 08:33:2
3-	3	LHA	DE0008232125	823212	В	CLOSED	RESPONDED	PRICE	4,000					102.0400	4,000	anonymousON	29.05.2020 08:33:0
	3	LHA	DE0008232125	823212	в	OPEN			4,000					102.0400	4,000	anonymousON	29.05.2020 08:30:0
	3	LHA	DE0008232125	823212	В	OPEN			4,000					102.0200	4,000	anonymousON	29.05.2020 08:30:0
•••	3	LHA	DE0008232125	823212	в	OPEN			4,000					102.0000	4,000	anonymousON	29.05.2020 08:29:5
F	2	LHA	DE0008232125	823212	S	CLOSED	TRADED		1,500			1,500	100.0600				29.05.2020 08:21:0
+	1	LHA	DE0008232125	823212	в	CLOSED	RESPONDED		3,000	101.0000	103.1000			101.2400	3,000		29.05.2020 08:30:3

Fig. 75: Screenshot of the Xetra EnLight Response History view

Available actions on the Xetra EnLight Response History view: No actions available - this view is display only.

Available fields of the Xetra EnLight Response History view:

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
Instrument	Instrument mnemonic as specified by the requester.
ISIN	ISIN code of the instrument.
WKN	WKN of the instrument (if available).
B/S	Buy or Sell side of the Xetra EnLight Request as entered by the requester.
LstQuoteState	Last state of quote. Valid values: <i>Responded</i> : Quote was sent, but not selected. <i>Traded</i> : Quote was sent and was selected. <i>Declined</i> : RFQ was declined by responder. <i>Expired</i> : Responder didn't sent quote in time.
NoFillReason	Reason why quote was not chosen.
PrefBid	Bid price of the Xetra EnLight request.
PrefAsk	Ask price of the Xetra EnLight request.
BidQty	Quote Bid Quantity.
Bid	The Quote Bid Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
Ask	The Quote Ask Price. The price of the Bid side should be lower than or equal to the Ask side price of the Xetra EnLight Quote.
AskQty	Quote Ask Quantity.
Buy-Side	BuySide user information alphanumeric text field.
QuoteID	ID of the Xetra EnLight Quote. Display only.
LastUpdateTime	Timestamp of the last change of quote.

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Requester	The user name of the requester. Display only.
EnteringRequester	The user that entered the respective Xetra EnLight request, not the user owning that request. In the context of Xetra EnLight there is no takeover of ownership.
RequesterGrp	Name of user group inside the business unit the requester belongs to. <i>Display only.</i>
Respondent	The Xetra EnLight Respondent.
EnteringRespondent	The user that entered the respective Xetra EnLight quote, not the user owning that quote. In the context of Xetra EnLight there is no takeover of ownership.
RespondentGrp	Name of user group inside the business unit the respondent belongs to. <i>Display only.</i>
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Free format text field 4

3.3.11 Xetra EnLight Deals

The *Xetra EnLight Deals* view provides an overview of all deals that the logged-in user takes part in. Xetra EnLight deals are shown to the requester and also to the involved respondent.

This view is updated dynamically.

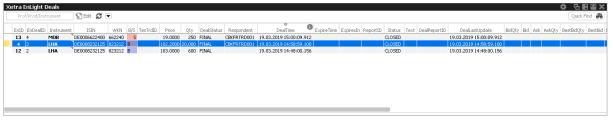


Fig. 76: Screenshot of the Xetra EnLight Deals view

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.
EnDealID	Xetra EnLight deal ID.
B/S	Buy or Sell Side of Xetra EnLight negotiation request.
Price	Price of the Xetra EnLight deal.

Available fields of the Xetra EnLight Deals view:

Qty	Quantity of the deal.
DealStatus	Status of the Xetra EnLight deal e.g. Pending, Final.
Respondent	The Xetra EnLight request can be targeted to numerous users. The same user cannot be targeted more than once for the the same Xetra EnLight request. For each selected respondent the login name including the Business unit name and the user name i.e. 'ABCFRTRD001' will be provided. When <i>SmartRfQ</i> is active, the request is sent additionally to respondents not known to the requester. During the lifetime of the Xetra EnLight Request additional respondents can be added but existing respondents cannot be removed by the requester.
DealTime	Time when deal was established.
Dearnine	Time when dear was established.
Bid	Bid price of the request.
Ask	Ask price of the request.
AskQty	Quote Ask Quantity.
Bid_VWA	Volume waged average of all bid prices for this request.
Ask_VWA	Volume waged average of all ask prices for this request.
SettlementDate	Settlement date of instrument.

3.3.12 Xetra EnLight Alerts

The *Alert Configuration* is extended by a new preconfigured *Xetra EnLight Alert* configuration entry to inform both the Xetra EnLight requester about incoming Xetra EnLight quotes and Xetra EnLight respondents about new Xetra EnLight requests via a pop-up. Please note that this alert cannot be deleted but deactivated or modified if required.

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Alert Configuration	X I
Alert Configuration	
Define events an audio or visual notification should be triggered for.	
Incoming Xetra EnLight Group Quote - Xetra EnLight Request Details - ACTIVE - MANDATORY	
Incoming Xetra EnLight Group Audio & Popup 🛛 alarm.wav 🖓 🕨 when: Xetra EnLight Req. 🛡 added 🛡	
Event Filter: Prof/Prod/Instrument C Edit > 0 Active * ABCXE	
Alert Fields: EnID V Background:	
Incoming Xetra EnLight Group Deal - Xetra EnLight Deals - ACTIVE - MANDATORY	
Incoming Xetra EnLight Group Audio & Popup 🛛 cashreg.wav 🖓 🕨 when: Xetra EnLight Deal 🔍 added 🛡	
Event Filter: Prof/Prod/Instrument	
Alert Fields: EnID 💌 Background:	
Incoming Xetra EnLight Group Request - Xetra EnLight Responder - ACTIVE - MANDATORY 😰 Deactivate 🧠 Delete	
Incoming Xetra EnLight Group Audio & Popup 🛛 cheer.wav 🖓 🕨 when: Xetra EnLight Res: 🔻 added 🛡	
Event Filter: Prof/Prod/Instrument 🕥 Edit 🔄 Blocked 📝 Active 🔹 ABCXE	
Alert Fields: EnID 💌 Background:	
Add X Close View View View Ap	ply

Fig. 77: Screenshot of the Xetra EnLight Alerts view showing preconfigured Xetra EnLight Alerts

If one of these alerts is triggered, a pop-up opens:

Show Xetra EnLight Responder									
Event:	Incoming Xetra EnLight Group Reque	est							
Time:	18.03.2019 18:07:23								
EnID:	11								

A single click into the pop-up headline opens the *Xetra EnLight Responder* filtered to the specific event ID.

3.4 View Descriptions: Own (Orders and Trades)

The Own area provides an overview on own orders and trades.

3.4.1 Orders

The *Orders* view shows an overview of all own standard orders of the logged in user (or user group / business unit, depending on the user level and filter). It is possible to open an *Order Maintenance* view for a selected order, delete selected orders, open the *Related Trades* view or the *Order History* view for the selected order.

Display Name	Description
ISIN	ISIN of the instrument

WKN	WKN of the instrument (if available)
Instrument	Instrument short name
InstrumentId	Numeric ID of the instrument
B/S	Buy or Sell code.
Limit, Currency	Limit and Currency of the Order.
TotQty	Total order quantity.
TotExeQty	Total executed order quantity.
RemQty	Remaining unmatched qty.
DispQty	Displayed order quantity.
Res	Order restriction: AOO - Auction only. BOC - Book or Cancel. CAO- Closing Auction. ICE - Iceberg Order or VDO Order. IAO - Intraday Auction. OAO - Opening Auction. OCO - One Cancels the Other. SAO - Special Auction. STP - Stop order.
StopPrice	Stop price of a stop limit order
Triggered	Indicates whether the current order originates from a triggered OCO or stop order.
Act	Account.
PInd	Persistency indicator. Orders entered by <i>Cash Trader</i> will always be entered as persistent orders. However, orders that have been entered using a third party application will retain their persistency state, when modified by <i>Cash Trader</i> .
Validity	The validity of the order: FOK - Fill Or Kill GFD - Good For Day GTC - Good Till Cancelled GTD - Good Till Date IOC - Immediate Or Cancel GTX - Good till Crossing/Auction (VDO only)
Inactive	This indicator is set for a Closing Auction only orders, Opening auction only orders and Auction only orders, if the current instrument phase does not match the trading phase for which the order was intended.
Text1	Free format text field 1.
	<u> </u>

Text2	Free format text field 2.
MIOrdNo	Free format text field 4
ClientOrdID	Client order number.
OrdNo	Order number generated by Cash Markets application.
OrdVer	Order version number.
OrdNoClearing	Converted order number used by Xetra CCP
BU	Owning business unit.
BUID	Numerical ID of Owning business unit.
Grp	User group of the owning user.
Session	Owning SessionID.
Trader	Owner of the order (refers to the user name of the exchange account of the respective trading system).
EnteringBU	Entering business unit.
EnteringUser	Entering user ID.
ExecutingUser	Executing User ID .
OrdEntryTime	Time of the entry of the order.
OrdPrioTime	Order matching priority time.
OrdStatus	Status of the order: new, partial filled or suspended.
Date	Date of the entry of the order.
Exch	Exchange Identifier.
CrossID	The CrossID used for Self-Match Prevention (SMP).
CapacityGroup	Capacity group.
VDOLimit	"Second limit" price up to/down to a bid/ask VDO can be executed at the MidPoint price.
ESMA	European Securities and Markets Authority Action Code.
LiPrv	Flag to indicate whether an order is submitted as part of a market making strategy.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.

ExelD	Execution Identifier, identifying person or algorithm responsible for executing transaction within company. Not to be mixed up with InvId.
ExeQual	Executing Trader Qualifier, parameter that determines business logic of execution decision: algorithm, in case Execution Identifier represents an algorithmic identifier or human otherwise.
BstFlg	Indicates order has been entered as BEST execution order.
VDO	Volume Discovery Iceberg Order.

3.4.2 Order History

The *Order History* view shows an overview of all order changes of own standard orders of the logged in user for the current business day.

Lean orders (which cannot be entered via the Cash Trader) are not displayed. For head traders or supervisors, orders of all traders of the own user group or business unit can also be inquired.

BMW	🖍 Edit	C									Qu	iick Fi	nd 🖚
OrderHistoryType		1	Instr	B/S	LimitPrice	TotalQty	AccumTradedQty	RemQty	Res	StopPrice	Triggered	Act	Persiste
Add	DE0005190003		BMW	В	39.10 EUR	1500		1500				A1	TRUE
Add	DE0005190003		BMW	в	39.20 EUR	500		500				A1	TRUE
Add	DE0005190003		BMW	S	40.80 EUR	2000		2000				A1	TRUE
Add	DE0005190003		BMW	S	42.10 EUR	800		800				A1	TRUE
Add	DE0005190003		BMW	S	40.60 EUR	1000		1000				A1	TRUE
Add	DE0005190003		BMW	в	42.20 EUR	1200		1200				A1	TRUE
Add	DE0005190003		BMW	S	45.60 EUR	3000		3000				A1	TRUE

Fig. 78: Screenshot of the Order History view

The table is dynamically updated whenever there is a change for orders which are visible or which apply to the filter criteria. New orders, order modifications, full or partial matches and order deletions are reflected in this window dynamically.

The Related History is also available from the Order History view. Use the double click or right mouse context menu for a selected order to open the Related History:

Please refer to chapter 3.4.1 for a description of the table fields, except for the following:

Display Name	Description
HistType	Displays the type of order change. e.g. Add, Modify, Delete, MatchPartial, MatchFull, Cancelled.
HistSeq	Displays the sequence number of order change.
DeleteReason	Reason for deleting orders, e.g. PANIC_CANCEL

BEST	Order has been executed as Best Order
BESTReject	Reject reason for BEST Order

3.4.3 Trades

The *Trades* view displays information about own trades for the current business day, for a selected instrument, product or profile. If the user is a head trader or supervisor, the *Trades* view also displays all the trades belonging to their user group or their own business unit. All on exchange trades are shown, including those which originated from lean orders.

	Trades Image: Contract of the state of the																
	Instrument Inday I														TrdID		
ADS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0 EUR	С	F				GR1	TRD001	A1	Y	2
ADS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0 EUR	С	F				GR1	TRD001	A1	Y	3
ADS	(DE0005003404)	REGULAR	MARKET	в	11	1	5403.0 EUR	0	Р				GR1	TRD001	A1	Y	2
ADS	(DE0005003404)	REGULAR	MARKET	в	11	1	5403.0 EUR	0	Ρ				GR1	TRD001	A1	Y	3
ADS	(DE0005003404)	REGULAR	LIMIT	в	1000	20	5403.0 EUR	С	Р				GR1	TRD001	A1	Y	6
ADS	(DE0005003404)	REGULAR	LIMIT	S	20	20	5403.0 EUR	С	F				GR1	TRD001	A1	Y	6
_		_															
AccB	luyQty	AvgB	uyPrc		4	AvgSellPrc			AccSe	llQty							
i∰	<u>C</u> lear Table	E Rel. Tra	des 🧲	Rel.	Order His	tory											

Fig. 79: Screenshot of the Trades view

The *Own* checkbox allows to filter the result to the login user id, which means to show only those order which are currently owned by the logged in user.

Table description:

Field	Description
Instrument	Instrument short name
ISIN	ISIN of the instrument
WKN	WKN of the instrument (if available)
B/S	Buy/Sell identifier.
ExeQty	Executed quantity of this order ID.
OrdQty	Order quantity of this order ID.
Price	Order Limit
P/F	Partial or Filled.

TrdTyp	Type of a trade. Possible trade types are e.g. BEST, REGULAR, VDO.
Res	Order restriction: AOO - Auction only. BOC - Book or Cancel. CAO- Closing Auction. ICE - Iceberg Order or VDO Order. IAO - Intraday Auction. OAO - Opening Auction. OCO - One Cancels the Other. SAO - Special Auction. STP - Stop order.
Act	Account type.
StopPrice	Stop price of a stop limit order
Triggered	Indicates whether the current order originates from a triggered OCO or stop order.
TrdItemID	Trade item ID.
TrdState	Indicates whether the trade is new or reversed.
TrdID	Trade ID.
TrdReportID	Trade Report ID.
MatchStepID	Match Step ID.
OrdNo	Order number generated by Cash Markets application.
OrdNoClearing	Order number used in CCP.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Free format text field 4.
ClientOrdID	Client order number.
BU	Owning Business Unit.
Grp	User group of the owning user.
Trader	Owner of the trade (refers to the user name of the exchange account of the respective trading system).
Session	Owning SessionID.
OrdEntryTime	OnExchange: Date and time of the order entry.
OrdPrioTime	OnExchange: Date and time of the order priority.
TrdTime	OnExchange: Date and time of the order match.

StlCurr	Settlement currency.
StlAmnt	Settlement amount.
StlDate	Settlement date.
ExchRat	Exchange Rate.
VDOLimit	Price at which an VDO Order has been executed.
ESMA	European Securities and Markets Authority Action Code.
CCPCM	CCP clearing member.
KVNo	Kassenvereins-Nummer.
StlLoc	Settlement location.
StlAct	Settlement account.
Cpty	Counterparty member.
CptyKVNo	Counterparty Kassenvereins-Nummer.
CptyStlLoc	Counterparty settlement location.
CptyStlAct	Counterparrty settlement account.
CtpyCM	Counterparty clearing member.
CapacityGroup	Capacity group.
Exch	Exchange Identifier.
LiPrv	Flag to indicate whether an order/transaction is submitted as part of a market making strategy.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.
ExeID	Execution Identifier, identifying person or algorithm responsible for executing transaction within company. Not to be mixed up with InvId.
ExeQual	Executing Trader Qualifier, parameter that determines business logic of execution decision: algorithm, in case Execution Identifier represents an algorithmic identifier or human otherwise.
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.

IncOrdInd	<i>Incoming Order Indicator.</i> Describes role of order in matching procedure, e.g. INCOMING: Incoming Order or Quote Side, RESTING: Order or Quote in Book, RESTING_PEAK_REFILL: Resting (iceberg) order with (peak) display qty refilled,
TargetCCPName	name of Target CCP
TargetCCPInd	Target CCP Indicator
IncOrdIndicator	Incoming Order Indicator
VDOLimit	"Second limit" price up to/down to a bid/ask VDO can be executed at the MidPoint price.
MktVal	Bonds Market Value
AccrIntAMnt	Accrued Interest Amount
IntBearDays	Number of Interest bearing Days
TVTic	Trading Venue Transaction Code
IsDispo	Dispo Flag
LstCpnDeviatInd	Last Coupon Deviation Indicator
Couponrate	Couponrate
MatDate	Maturity Date
FlatInd	Flat Indicator
DMA	Direct Market Access
ClrInstruct	<i>Clearing Instruction.</i> Indicates whether a non-CCP trade is internalised or aggregated.

3.4.4 Related Trades

The Orders view as well as the *Trades* view features a *Rel. Trades* button to bring up a *Related Trades* view which is filtered to display all trades for the selected order number. This view is automatically updated by broadcast.

The *Related Trades* view is useful to quickly check all related trades of an order. The summary display at the bottom of that view displays the accumulated and average price and quantity, just like the *Trades* view. The benefit to use the related trades function to check the accumulated and average price and quantity compared to the *Trades* view is, that the user does not need to select all trades that belong to a certain order.

Version 8.1

Trades																	- 🗘	Ъ	e x
		r	Edit	Up to:	Expiry	Strike	+/-		2	s 🖌	ເຊ 🗖]					*	Quick F	nd 🍘
Contract 2	TrdTyp	L/M	B/S	OrdQty	ExeQty	Prc		o/c	P/F	Res	StopPrice	Triggered	Grp	Trader	Act	PInd	TrdID	TrdState	TrdIte
	REGULAR	LIMIT	в	10	10	10.0	EUR	0	F				GR1	TRD001	A1	Y	5	NEW	
	REGULAR	LIMIT	в	10	10	10.0	EUR	0	F				GR1	TRD001	A1	γ	5	NEW	
	REGULAR	LIMIT	S	100	10	10.0	EUR	0	F				GR1	TRD001	A1	Y	16	NEW	:
	REGULAR	LIMIT	S	100	10	10.0	EUR	0	P				GR1	TRD001	A1	Y	6	NEW	
	REGULAR	LIMIT	S	100	10	10.0	EUR	0	Ρ				GR1	TRD001	A1	γ	15	NEW	
	REGULAR	LIMIT	S	100	70	10.0	EUR	0	Ρ				GR1	TRD001	A1	Y	5	NEW	
	REGULAR	LIMIT	в	1	1	10.0	EUR	0	F				GR1	TRD001	A1	γ	17	NEW	
	REGULAR	LIMIT	В	2	2	120.01	EUR	0	F				GR1	TRD001	A1	Y	1	NEW	
AccBuyQty		Avg	BuyPi	rc		AvgSellPro				Acc	SellQty								
						10.00000	0			10									
👗 Clear T	able Add	Vola Tra	odo	. S	Rel. Trade	-													

elated Tr		on all te			22010	0000.																•	9
Contract	TrdTyp	L/M	B/S	OrdQty	ExeQty	Pro		ojc	P/F	Res	StopPrice	Triggered	BU	Grp	Trader	Act	PInd	TrdID	TrdState	TrdItemID	ClgQty	ClgPrc	
	REGULAR	LIMIT	S	100	10	101.0	EUR (С	Р				ABCFR	GR1	TRD001	A1	Y	7	NEW	1200			
	REGULAR	LIMIT	5	100	90	101.0	ELIR (2	F				ABCER	GR 1	TRD001	A1	Y .	8	NEW	1300			
			-			101.0		0	1				hbark	GILL	IN DOOL				112.11	1000			
ontract (S)	Act	cQty			Avgl					T	rade (S) :		MatchQty 100			м	atchPr	c		F	lemQty	тон	

Fig. 80: Screenshots showing how to open the Related Trades view from the Trades or Orders view

The RemQty field quickly informs about whether or not the selected order has been filled.

Be careful when opening the *Related Trades* from the Trades view: The indication "Full Match" when displayed for matched lean orders or quotes, is misleading.

3.4.5 Trade Summary

The *Trade Summary* view shows the same information as the *Trades* view with an extra feature to aggregate the trades according to the selected aggregation criteria, i.e. *Summary Option*.

Currently one of the following aggregations can be chosen:

- Instrument
- OrderNo
- MIOrdNo
- Text1 / Text2

By default the view opens in collapsed mode, displaying the aggregated values. The rows can be expanded to display the trades which are the basis for the aggregation:

Display of trade executions and trade summary

The *Trades* view offers two kinds of display options for the display of own trades, which can be switched by a toggle button:

- The display of trade summary rows (which can be expanded), or
- The display of trade execution rows.

In the trade summary display, the trade executions are summarized on order level to inform about the average price, accumulated quantity, and whether or not the order has been fully executed. In this display, one summary row is displayed per original order. That row can be expanded by a click onto the plus-sign (\blacksquare) to show all the executions belonging to that order.

In the trade execution display, each execution is displayed per row. No special summary row is shown to display the average price.

Depending on whether the displayed data is the trade summary or trade execution, one of the following table descriptions applies:

Field	Description
Instrument	Instrument short name
ISIN	ISIN of the instrument
WKN	WKN of the instrument (if available)
B/S	Buy/Sell identifier.
AvgPrc	Average price of underlying executions (Volume Weighted Average).
AccQty	Accumulated order quantity
P/F	Partial or Filled of the last execution.
Res	Order restriction: AOO - Auction only. BOC - Book or Cancel. CAO- Closing Auction. ICE - Iceberg Order or VDO Order. IAO - Intraday Auction. OAO - Opening Auction. OCO - One Cancels the Other. SAO - Special Auction. STP - Stop order.
Act	Account type.
StopPrice	Stop price of a stop limit order
Triggered	Indicates whether the current order originates from a triggered OCO or stop order.
TrdItemID	Trade item ID. Also known as deal item ID by the Cash system.
TrdState	Indicates whether the trade is new or reversed.
TrdID	Trade ID. Also known as deal ID by the Cash system.

Trade summary columns:

TrdReportID	Trade Report ID.
MatchStepID	Match Step ID.
OrdNo	Order number generated by Cash Markets application.
OrdNoClearing	Order number used in Cash Clearing.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	Free format text field 4.
ClientOrdID	Client order number.
BU	Owning Business Unit.
Grp	User group of the owning user.
Trader	Owner of the trade (refers to the user name of the exchange account of the respective trading system).
Session	Owning SessionID.
OrdEntryTime	OnExchange: Date and time of the order entry.
OrdPrioTime	OnExchange: Date and time of the order priority.
TrdTime	OnExchange: Date and time of the order match.
StlCurr	Settlement currency.
StlAmnt	Settlement amount.
StIDate	Settlement date.
ExchRat	Exchange Rate.
СМ	Clearing member.
ССРСМ	CCP clearing member.
KVNo	Kassenvereins-Nummer.
StlLoc	Settlement location.
StlAct	Settlement account.
Cpty	Counterparty member.
CptyKVNo	Counterparty Kassenvereins-Nummer.
CptyStlLoc	Counterparty settlement location.
CptyStlAct	Counterparrty settlement account.
СtруСМ	Counterparty clearing member.

CapacityGroup	Capacity group.
Exch	Exchange Identifier.

Trade executions columns:

The trade execution columns are identical to the columns of the *Trades* view.

3.4.6 TES View

TES View is provided as a display for all own approved as well as unapproved TES trades.

Columns of the TES View:

Field	Description
Instrument	Instrument identifier
WKN	WKN of the instrument (if available)
ISIN	ISIN of the instrument
TrdTyp	TES Type of the trade: OTC or LIS.
Prc	TES Trade Limit. Price is displayed together with the currency.
Curr	Currency of a TES Trade.
B/S	Buy/Sell identifier.
Qty	Quantity volume of the TES trade.
Act	Account type.
TesTrdID	Trade ID of the TES Trade.
Text1,Text2	Free format text field.
MIOrdNo	Free format text field.
Description	The Initiator of a TES trade can no longer use the text fields to pass on information to the Approver. In order to compensate for that, a the <i>Description</i> field is provided, which allows the initiator to give a hint to the counterparty about the background of the trade.

TESStatus	The current status of the TES trade:
	 Pending The TES trade has been entered and is waiting for approval of the counterparty. Approved
	The TES trades has been ratified by the counterparty, but approval of other counterparties are still outstanding.
	 Auto_Approved The TES trades has been auto_approved according to defined auto-approval rule.
	 Executed The TES trades has been fully ratified.
	 Deleted The TES trade has been deleted.
	 Suspended The TES trade has been entered in suspended state, for activation at a future point in time.
	 Reversed The TES trade has been reversed.
Initiator	Initiator of the TES trade (the person entering the trade)
Approver	Approver of the TES trade (the owner of the trader)
CommTime	Time of Commencement, the time of day the trade has been prearranged.
EntryTime	Entry time, the time the trade has been entered.
Elapsed	The elapsed time since the entry of the trade.
ApprTime	Approval time.
ExecTime	Execution time.
ApprovedBy	Trader ID of Approver.
ApproverBU	Approver business unit.
ApproverUserGrp	Approver user group.
InitiatorBU	Initiator business unit.
InitiatorUserGrp	Initiator user group.
DeleteReason	Reason for deletion of TES Trade, e.g. USER ACTION

lssuer	Name of Issuer.
RegID	Regulatory ID
SettIDate	The settlement date of the TES trade; has to be greater than the current business date.
SettIInst	Settlement institution.
SettlStyle	Settlement style.
SkipQtyCheck	If this flag is set to True, validations related to Maximum Order Quantity are not executed. Only for TES type LIS.
SkipValueCheck	If this flag is set to True, validations related to Maximum Order Value are not executed. Only for TES type LIS.
TrdCapacity	Trading Capacity / Account type. Valid Values: Agency Proprietary Market Making Riskless Principle
MaturityDate	Maturity of the bond, expiration date of the Reference Financial Future or expiration date of the Futures contract with longest term in case of Short Term Interest Rate Futures.
CustUndrPrc	Customer Underlying price.
Nominal	Equivalent value of the futures leg to be traded (in units of one thousand).
LiPrv	Flag to indicate whether an order/transaction is submitted as part of a market making strategy.
InvID	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvQual	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.
ExeID	Execution Identifier, identifying person or algorithm responsible for executing transaction within company. Not to be mixed up with InvId.
ExeQual	Executing Trader Qualifier, parameter that determines business logic of execution decision: algorithm, in case Execution Identifier represents an algorithmic identifier or human otherwise.
ClientID	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
ESMA	European Securities and Markets Authority Action Code
MktVal	Bonds Market Value

IntBearDays	Number of Interest bearing Days.
UserCurrExchRate	Currency Exchange Rate.
EnrichmentRuleId	Unique Enrichment rule Id for TES approval.
Anonym	Anonymous negotiation request. Apart from manually selected respondents, request is sent anonymously to respondents unknown to the requester. Respondents quoting is done anonymously as well.

3.5 View Descriptions: Info & Support

Info & Support provides a display of trading attributes and statistical information on product and instrument level, a display of market and other news, and risk control functions.

3.5.1 **Product Statistics**

Statistical market data on a product level is displayed in the *Product Statistics* view.

Field description of the *Product Statistics* view:

Field	Description
Product	Product ID.
LongName	Product long name.
Vol	Total volume of all instruments associated to the product in the course of the day. BESTVol is not included in this figure.
Trades	Total number of trades (counted match steps) of all instruments associated to the product. BESTTrades is not included in this figure.
Exch	Exchange ID of the product.
MC	Market condition indicator (product level).
Phase	Trading phase of the product.
TESProductState	TES state of a product.
Partition	(technical) partition ID the product is hosted on.
Capacitygroup	(technical) capacitygroup ID the product belongs to.
CurrentBusDay	Current business day.
BESTTrades	Number of trades resulting from BEST execution.
VDOTrades	Number of trades resulting from VDO midpoint execution.

BESTVol	(aggregated) Volume of trades resulting from BEST execution.
VDOVol	(aggegrated) Volume of trades resulting from VDO midpoint execution.

3.5.2 Instrument Statistics

Statistical market data on an instrument level is displayed in the *Instrument Statistics* view. Statistical data comprises of a daily total volume, last traded price, daily high and low price and previous day closing price.

Field description of the *Instrument Statistics* view:

Field	Description
ISIN	ISIN of the instrument
WKN	WKN of the instrument (if available)
Instr	Instrument short name
InstrLongName	Instrument long name
TickSize	Tick size.
Vol	Total volume in the instrument traded in the course of the day.
TradeCount	Total number of trades (counted match steps) of the instrument.
Last	Last traded price in the instrument.
High	Day's highest price in the instrument.
Low	Day's lowest price in the instrument.
PrevClsPrc	Previous day's closing price.
LastAuctPrice	Last Auction Price.
Phase	Trading phase of the product.
MC	Market Conditions codes (instrument level). Possible values:
	• F - Fast market
	SA - Stressed Auto
	 SF - Stressed Auto+Fast
MinTradeUnit	Minimum tradeable unit
Quotation Unit	Quotation Unit - Points, Percent or Shares
MatDate	Maturity Date
FlatInd	Flat Indicator

3.5.3 Risk Controls

The *Risk Controls* functionality in the Cash Markets T7 GUIs available to participants provides *Panic Cancel* actions. *Panic Cancel* actions enable users of Cash Markets T7 with assigned 'Emergency Role', to mass delete orders and/or quotes in a particular market.

Risk Controls - Business	Unit / User 🍅	Ъ	3	x
Steps	Business Unit / User			
 Business Unit / User Product 	Ownership Context			
3. Order / Quotes	Even User (Orders only)			
4. Finish	 Single User (Orders only) 			
	Session (Quotes only)			
	 Business Unit (Orders, Quotes or Orders and Quotes) 			
	▲ Back ▲ Mext Image: Finish	F	Reset	

Fig. 81: Screenshot of the Risk Controls view

Please note, that on the *Risk Controls* view a single action will in most cases lead to the deletion of multiple orders and/or quotes. Because of that, the result of that single action might be multiple positive and/or negative results. Only the last result is displayed in the status bar. In order to see all results of that action please open the *Risk Controls - Log Messages* by a double click onto the status bar.

3.5.4 News Board

The *News Board* view displays important public and private trading relevant messages. The messages can be filtered according to their privacy type, source and category.

The most important news are *System-News* and *Market News*, the latter displays market news for the exchange published by market supervision, e.g., information about delay in trading start, suspension of a product).

	Board Tem-News [MS-NE	ws gui legal g	RISK 🗌	SYSTEM > 10.09.2015	05:00:00 🞜 💌		Quick Find 🔗
Source	Туре	Market	Time	Instr	ISIN	Title		
GUI	🕕 Info	XETR	10.09.2015 12:00:48.166	BMW	DE0005190003	Enter request	SIMPLE type= XETR	trdMtchPrc=6000 gty=
GUI	🕕 Info	XETR	10.09.2015 12:00:40.549	BMW	DE0005190003	Enter request	SIMPLE type= XETR	trdMtchPrc=100 qty=
GUI	🚺 Info	XETR	10.09.2015 12:00:36.574	BMW	DE0005190003	Enter request	SIMPLE type= XETR	trdMtchPrc=10 qty=1
GUI	🕕 Info	XETR	10.09.2015 12:00:41.893	BMW	DE0005190003	Enter request	SIMPLE type=XETR	trdMtchPrc=1000 qty=
GUI	🕕 Info	XETR	10.09.2015 12:00:57.062	BMW	DE0005190003	Enter request	SIMPLE type=XETR	trdMtchPrc=5000 qty=
Market Title:								
Enter	request							
Messag	e Text:							
SIMPL	E type=XETR	. TES tro	MtchPrc=6000 qty=1000 o	/c=0 act=	=[1218=A 1059=1]			

Fig. 82: Screenshot of the News Board view

The *News Board* view displays the following information:

- System-News
- MS-News: MOps messages, published by the exchange
- GUI: Messages which originate from all GUI views as a result of user interaction. These are the messages that are also displayed in the status bar of the respective view.
- · Legal: Notification about the stop/release trading of a user or business unit

The view is updated automatically. Messages are sorted descending by date and time.

The message column of the table shows the headlines of any messages received. A click on a headline in the upper table displays the entire message in the detail box below.

4 Cash Admin GUI

The *Cash Admin* application is provided to participants for the use by the service administrator and user data view users.

Please refer to section 2 for a general description on how to use the application and how to access these functions using the *Welcome* view.

4.1 View Descriptions: Info & Support

4.1.1 News Board

Please refer to chapter 3.5.4 News Board for a description of this view.

4.1.2 Sessions

The *Sessions* view provides an overview of all sessions of the own business unit. The view also provides the mapping between SessionID, SessionName and displays the SessionType along with the CapacityType of the respective session.

Sessions								\$	68
Alt-Drag Column Head	ler here	C -							Quick Find
BUShortName	Session	SessionName	SessionType	SessionTypeName	CapacityType	CapacityTypeName	Quote Session	FIX Session	
47 ABCFR	100061	ABCFR_GUI_S1	1	GUI_INFRASTRUCTURE	1	GUI_INFRASTRUCTURE	false	false	
47 ABCFR	100062	ABCFR_GUI_S2	1	GUI_INFRASTRUCTURE	1	GUI_INFRASTRUCTURE	false	false	
47 ABCFR	100063	ABCFR_GUI_S3	1	GUI_INFRASTRUCTURE	1	GUI_INFRASTRUCTURE	false	false	
47 ABCFR	209310	ABCFR_SHF_S1	3	STANDARD_HIGH_FREQUENCY	3	STANDARD_HF_FULL	true	false	
47 ABCFR	209311	ABCFR_SHF_S2	3	STANDARD_HIGH_FREQUENCY	3	STANDARD_HF_FULL	true	false	
47 ABCFR	209312	ABCFR_SHF_S3	3	STANDARD_HIGH_FREQUENCY	3	STANDARD_HF_FULL	false	false	
47 ABCFR	309313	ABCFR_SLF_S1	4	STANDARD_LOW_FREQUENCY	5	STANDARD_HF_LIGHT	true	false	
47 ABCFR	309314	ABCFR_SLF_S2	4	STANDARD_LOW_FREQUENCY	5	STANDARD_HF_LIGHT	true	false	
47 ABCFR	309315	ABCFR_SLF_S3	4	STANDARD_LOW_FREQUENCY	5	STANDARD_HF_LIGHT	false	false	
47 ABCFR	309316	ABCFR_FG_S1	4	STANDARD_LOW_FREQUENCY	5	STANDARD_HF_LIGHT	true	true	
47 ABCFR	309317	ABCFR LHFBO 51	4	STANDARD LOW FREQUENCY	4	STANDARD LF LIGHT	true	false	

Fig. 83: Screenshot of the Sessions view

4.1.3 Bandwidth Monitor

The *Bandwidth Monitor* view provides an overview of the current and maximum bandwidth consumption and connection latency for currently logged in users of *Cash Trader*, *Cash Admin* and *Cash Clearer*. Bandwidth charts per user are available, that can be toggled with a click into the respective cell of the chart column.

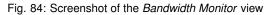
The bandwidth figure displays the net amount of bytes/s delivered to the client application (not counting any transport layer overhead). In addition Incoming traffic from the client application is not counted.

Using the *Reset* Button, the displayed maximum figures for bandwidth and latency can be set to 0 for the selected rows.

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net: 0 LeasedLi	User: 1 Inter	Quick Find	L									! 💌	r here 🎜	Header	ag Column H	Alt-Drag
	IP CGateway	Chart	Con.Type	MaxLatency	Latency (ms)	4a× KBits/s	KBit/s	CreationDate	Version	Application	Legal Name	2	 User	0	△ laster User	Ma
os.name=Windo	:0000	0	LeasedLine	2	2	19	1 1	25.03.2014 12:06:13	000.040.090	AdminGUI	BC BANK KGAA	D001	abcfrtri	_GUI	FRTRD001	ABCFF
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											2014 12:06:13	1 25.0	BCFRTRD001	JUI AI	TRD001_G	
							••••				2014 12:06:13	1 25.0	BCFRTRD001	GUI AI	TRD001_G	
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4.1.4 Page Broker Audit Trail

The *Page Broker Audit Trail* view provides an overview of all messages which have been sent using *Page* feature when using T7 Entry Services. In order to get existing messages displayed, a start date and an end date must be entered or selected from the calender pop-up.

Yeah, I entered it as agreed with X ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:15:01 LHA 1 4 true OK I check with him DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:15:01 LHA 1 4 true Fline ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:15:30 LHA LHA 1 4 true Got approved DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:16:15 LHA LHA 1 4 true Just entered the BIG one DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:16:15 LHA LHA 2 4 true Just entered the BIG one DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:03 LHA LHA 2 4 true I see it, thanks ABCXETRD001_GUI DKFRTRD001_GUI 04.02.2020 14:17:03 LHA LHA 2 4 true Completed ABCXETRD001_GUI DKFRTRD001_GUI 04.02.2020 14:17:03 LHA LHA 2 4 true								Qui
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Just entered the BIG one DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:03 LHA 2 4 true I see it, thanks ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:17:13 LHA 2 4 true Completed ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:17:37 LHA LHA 2 4 true Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:37 LHA LHA 2 4 true	ABCXETRD001_GUI	DBKFRTRD001_GUI	04.02.2020 14:15:30	LHA	LHA	1	4	true
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Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:44 LHA LHA 2 4 true	ABCXETRD001_GUI	DBKFRTRD001_GUI	04.02.2020 14:17:13	LHA	LHA	2	4	true
	ABCXETRD001_GUI	DBKFRTRD001_GUI	04.02.2020 14:17:37	LHA	LHA	2	4	true
Hello, SPV speaking ABCXETRD004_GUI DBKFRTRD001_GUI 04.02.2020 14:22:39 LHA LHA 1 4 true	DBKFRTRD001_GUI	ABCXETRD001_GUI	04.02.2020 14:17:44	LHA	LHA	2	4	true
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Fig. 85: Screenshot of the Page Broker Audit Trail view showing TES messsages

4.2 View Descriptions: Risk & Security

4.2.1 Quote Activation

The *Quote Activation* view allows the user to both deactivate and to re-activate quotes for a specified product or profile and session.

4.2.2 Risk Controls

The *Risk Controls* functionality in the Cash Markets T7 GUIs available to participants provides *Panic Cancel* actions. *Panic Cancel* actions enable users of Cash Markets T7 with assigned 'Emergency Role', to mass delete orders and/or quotes in a particular market.

4.2.3 Stop Release

The *Stop Release* functionality in the Cash Markets T7 GUIs available to participants includes *Stop Trading* and *Release Trading* actions.

Stop Trading and Release Trading Own BU actions are effective for an entire Business Unit or selected users in a particular market and can be performed by a user of Cash Markets T7 with 'Emergency Trading Stop Role' and user level 'Supervisor' assigned. The *Stop Trading* effectively prevents a user or business unit from the further entry of orders and quotes. In order to prevent any existing orders and quotes of the affected user or Business Unit from matching, *Stop Trading* also triggers the *Panic Cancel* function (pls. refer to 3.5.3 Risk Controls for more information).

4.2.4 Trade Enrichment Rules

Trade Enrichment Rules are a mechanism to enrich the missing clearing fields of trades resulting from executed quotes and orders with short order message layout during the trade enrichment process of the trade manager.

4.2.5 TES Auto Approval Rule

The *TES Auto Approval Rule* functionality allows participants to approve TES trades automatically according to pre-defined data. This view has been enhanced to allow specifying more detailed roles, i.e. more attributes can be specified for defining the roles.

The new attributes for the enhanced TES Auto Approval Rule have been summarized below. Please note when an *(optional)* attribute is specified, the rule has an higher priority to be matched than the same rule without this attribute being specified.

- AutoApprovalRuleName mandatory rule name
- Enrichment Rule ID *(optional)* approver side can specify it in its rules and initiator can provide an enrichment key in TES Trade Entry (unique in context of approving user)
- Product *(optional)* if a product is provided then it has higher priority than a rule without a product for the same market and product assignment group.
- TES Type (optional)
- Instrument Type (optional)
- Max. trade qty (optional)
- DMAIndicator (optional)

TES Auto Approval Rule view, columns that are displayed:

Field	Description
AutoApprovalRuleId	Auto approval Rule Id. Display only.
EnrichmentRuleId	Unique Enrichment rule Id for TES approval.
AutoApproval RuleName	Unique Name of auto approval rule Id.
TESType	Type of TES Trade, e.g. BLOCK.
Product	Product and OwnedBy data set.
InitiatingUserName	LoginName of the initiating user (of a possibly different BU).
ExecQual	Executing Trader Qualifier, parameter that determines business logic of execution decision: algorithm, in case Execution Identifier represents an algorithmic identifier or human otherwise.
TradingCapacity	Trading Capacity. Example for valid values: Agency Proprietary Market Making Riskless Principle
MarketGroup	MarketGroup Symbol, Category and OwnedBy data set.
User	Date set consisting of Login Name of User (of own BU) and OwnedBy.
ClientIdentifier	Numeric code used to identify client of the member/participant of the Trading Venue. Mandatory for account type 'A'. Serves as a reference to the 35 characters long ESMA Client Identification Code.
ExecIdentifier	Execution Identifier, identifying person or algorithm responsible for executing transaction within company. Not to be mixed up with InvId.
Text1,Text2, Text4	Free format text field.
InvestIdentifier	Investment Identifier, identifying person or algorithm responsible for investment decision within company.
InvestQualifier	Investment Qualifier, parameter that determines the business logic of investment decision: algorithm, in case Investment Decision Maker represents an algorithmic identifier or human otherwise.
LiqProvActivity	Checkbox to indicate whether an order is submitted as part of a market making strategy. Box ticked means true.
SkipQtyCheck	If this flag is set to True, validations related to Maximum Order Quantity are not executed. Only for TES type LIS.
SkipValueCheck	If this flag is set to True, validations related to Maximum Order Value are not executed. Only for TES type LIS.

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MaxTradeValue	If provided, then it is validated that price multiplied by quantity is less than or equal to the value provided in this field. If the validation fails, then auto approval is not applied.
DMAIndicator	Direct Market Access flag.

4.2.6 User Maintenance

The User Maintenance view provides an overview of the users that are set up in the business unit of the logged in service administrator.

*	LoginNam	e 🕻 🗖										
B I	Name ²	 LoginName	Category	UserGroup	Status	EffectiveStatus	MarkedForDeletion	IsProtected	Level	BusinessUnit	PINCode	NegOnExchAssgr
1171	TRD001	ABCXETRD001		GR1	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1172	TRD002	ABCXETRD002		GR1	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1173	TRD003	ABCXETRD003		GR2	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1174	TRD004	ABCXETRD004		GR2	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1175	TRD005	ABCXETRD005		GR1	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1176	TRD006	ABCXETRD006		GR2	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1177	TRD007	ABCXETRD007		GR1	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1178	TRD008	ABCXETRD008		GR2	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		
1179	TRD009	ABCXETRD009		GR1	ACTIVE	ACTIVE			TRADER	ABCXE XETRA		

Fig. 86: Screenshot of the User Maintenance view

Actions are provided on the *User Maintenance* view that allows the modification and creation of users, also the creation on the basis of a selected user (Add Using) is supported. Deletion of a user is also provided, but user deletions will not be processed immediately - instead, a deleted user is marked for deletion, and will be removed during the nightly batch. New users will be setup, and existing users can be maintained using the *User Maintenance Wizard*, which opens for the *Add* and *Modify* function.

User Maintenance view, columns that are displayed:

Field	Description
ld	Id number of the user, provided by the system.
Name	The Name is the LoginName minus the BusinessUnit name.
LoginName	Login Name, this is the ID of the exchange account to Cash Markets Exchange's T7.
Category	If applicable this field should be set by the service administrator when setting up a user. Trader with names starting with "OR" or "UR" must be marked with the category "OrderRoutingSystem". Trader with names starting with "TLP" or "ULP" must be marked with the category "TraderDevelopmentProgram".

UserGroup	The name of the user group the user belongs to inside the business unit. Every group can define their own name. Each user is assigned to maximum one user group. Also referred to as user group.
Status	The current trading status of the user. This status reflects whether or not the user has been suspended from trading using the Stop Trading function. This status does not reflect the trader examination status:
	 Active – if the user is not suspended from trading.
	 Suspended – the user is temporarily suspended from trading.
EffectiveStatus	The EffectiveStatus describes the effective trading status of the user. This status combines the trading status of the selected user and the trading status of the user's business unit. The status can be:
	 Active – if the user is not suspended from trading.
	 Suspended – either the user or the business unit is suspended from trading.
MarkedForDeletion	Indicates whether the user is marked for deletion.
IsProtected	Indicates whether user is protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account.
Level	 The level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The head trader can see orders and trades of all users within the same user group. The supervisor can see orders and trades of all users within the same business unit.
BusinessUnit	
	Business unit of the user. Identical to the BU of the logged in service administrator
PINCode	
	administrator Encrypted four character code for authorization when contacting Cash
PINCode	administrator Encrypted four character code for authorization when contacting Cash Market Supervision to reverse trades or mistrade handling. Maximum order value for user. Based on calculation Qty times (order)

NegOnExchAssgn	Flag indicates whether negative Trader examination is still active for user
NegTESAssign	Flag indicates whether negative TES role assignment is still active for user
nonCCP	Indicates whether trading a non-CCP instrument is allowed

User Maintenance Wizard

The *User Maintenance Wizard* is a step by step process of setting up a new user or maintaining an existing user. The setup workflow consists of the following steps, in the order of appearance. Each step is displayed in a separate tab of the *User Maintenance Wizard*. Some tabs are described in separate chapters, please check the references:

- 1. General Attributes tab: definition of the user attributes
- 2. On-Exch Attributes & Roles tabs: assignment of entitlement roles
- 3. On-Exch Roles: assign On-Exchange roles to Market Groups
- 4. TES Attributes: maintain entitlement of TES trade types and TES roles
- 5. TES Roles: assign TES roles to Market Groups

Please note that in contrast to the handling of user attributes in Derivative Markets, the user group of a Cash Markets user is a mandatory field (in the GUI).

Entitlement View, Roles and GUIs

During the *User Maintenance Wizard* process entitlement roles and attributes are granted or revoked. For a better understanding some helpful details on entitlement are provided prior to explaining the individual setup steps .

A user which is set up using the setup process is automatically assigned with a role containing negative entitlements which effectively prevents the user from trading until this role has been removed by Cash Markets Exchange. The role containing negative entitlements will be displayed on this tab if assigned - but in case it is displayed, it cannot be changed or removed by the service administrator.

The following table gives a detailed overview about the available combinations of view and maintenance access for the different roles in the applications:

	Trader, Market Maker, Trading View User	Service Administrator
Cash Admin	View only at a user level	Maintenance access on user level

Fig. 87: Access levels for different users for the *Entitlement* tab

Entitlement is the combination of a product assignment group with a role - the *Entitlement* tab looks at the entitlements from the perspective of the product assignment groups to see their roles assigned.

In the example below, the column *MarketGroup* denotes the product assignment group where the columns USER DATA VIEW, TRADING VIEW, etc. denote the respective role. A set checkbox for the combination of a role and market group indicates that this combination of market group and role is assigned to the user.

Steps	On-Exch F	Roles									
1. General Attributes	Assignmer	nt of on-Excha	nge roles on MarketGrou	p level.							
	Product:		ProductId:		9	MarketG	oup:				
2. On-Exch Attributes	+ Mar	rketGroup	Description	TRAD	ING VIE	/ CASH M	RKET MAKER	CASH	TRADER		
3. On-Exch Roles	± BON		ket Group for Bonds				\checkmark	[1		
	± BON		ket Group for Bonds		\square						
4. TES Attributes	± CBK		ket Group CBK					[
I. TES Attributes	± DAX	<1 Mar	ket Group DAX1					[
	± DBK	(Mar	ket Group DBK					[
5. TES Roles	± ETC	1 Mar	ket Group ETC1					[
	± MD>	X1 Mar	ket Group MDX1					[
	± WA	R Mar	ket Group for Warrants					[
	S BACK	> NEVT	EINISH							 	 CAN

Fig. 88: Screenshot of the User Maintenance Wizard showing the entitlement roles on the On-Exch Roles tab

In this example the roles "Cash Market Maker" and "Cash Trader" are assigned to the respective market group(s), often also referred to as product assignment group(s).

The assignment can be given or taken away by clicking on the respective checkbox in the role columns.

Please note: Changes to the entitlement profile of the user will be effective in the next time the user logs in. However, changes are immediately effective on the ETI interface. In case entitlements have been removed from the user, those changes will also immediately prevent the entry of orders in the Cash Trader GUI.

Field	Description
MarketGroup	Market group.
Description	Description of the market group.
TRADER	Entitlement role "Trader"
MARKET MAKER	Entitlement role "Market Maker"
	Entitlement roles

Table of the *Entitlement* tab, *MarketGroup* level:

Table of the *Entitlement* tab, *Product* level:

Field	Description
Product	Product.
LongName	Product long name.

User Maintenance - General Attributes

The *General Attributes* tab features a list of mandatory fields that need to be maintained for the setup of the user. As soon as all mandatory fields are correctly filled, the *Next* button is enabled to provide access to the next step of the user setup process.

Steps	General Attributes						
1. General Attributes	Maintenance of general attribut	es like Name, Category, Use	erGroup and Level.				
2. On-Exch Attributes	Id:	1172					
	Name:	TRD002					
3. On-Exch Roles	LoginName:	ABCXETRD002					
. TES Attributes	Category:						
. TES Roles	UserGroup:	GR1					
. TES Roles	Status:	ACTIVE					
	EffectiveStatus:	ACTIVE					
	IsProtected:						
	Level:	TRADER					
	MaxOrderValue:	999999999					
	MaxOrderQty:	9999999					
	PINCode:						
	BusinessUnit:	ABCXE		XETRA			
	DefaultSettlementAccount:	ABCXE	ABCXE	CBF	1000	XETRA	
	PreferredSettlementAccount:	GSIXC	ABCXE	NEC	2228000071050XETR0CCP1	XETRA	
	NonCCP:	7					
	Accounts:	Best 🔽 Agency	Proprietary	Market Making 📝	Riskless Principal	Issuer	
	K BACK NEXT W F	INISH					CANC

Fig. 89: Screenshot of the User Maintenance Wizard showing the General Attributes tab

Field	Description
ld	Id number of the user, provided by the system.
Name	The LoginName is constructed by adding this Name to the BusinessUnit.
LoginName	LoginName, this is the ID of the exchange account to Cash Markets Exchange's T7. For a new user the LoginName is automatically created by adding the Name to the BusinessUnit.

Field description of *General Attributes* :

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CategoryIf applicable this field should be set by the service administrator when setting up a user. Trader with names starting with "OR" or "UR" must be marked with the category "OrderRoutingSystem". Trader with names starting with "TLP" or "ULP" must be marked with the category "TraderDevelopmentProgram".UserGroupThe name of the user group the user belongs to inside the business unit. Every group can define their own name. Each user is assigned to maximum one user group. Also referred to as user group.StatusThe current trading status of the user. This status reflects whether or not the user has been suspended from trading using the Stop Trading function. This status does not reflect the trader examination status: 		· · · · · · · · · · · · · · · · · · ·
Every group can define their own name. Each user is assigned to maximum one user group. Also referred to as user group. This field is mandatory.StatusThe current trading status of the user. This status reflects whether or not the user has been suspended from trading using the Stop Trading function. This status does not reflect the trader examination status: 	Category	setting up a user. Trader with names starting with "OR" or "UR" must be marked with the category "OrderRoutingSystem". Trader with names starting with "TLP" or "ULP" must be marked with the category
the user has been suspended from trading using the Stop Trading function. This status does not reflect the trader examination status:• Active – if the user is not suspended from trading.• Suspended – the user is temporarily suspended from trading.EffectiveStatusThe EffectiveStatus describes the effective trading status of the user. This status combines the trading status of the selected user and the trading status of the users business unit. The status can be:• Active – if the user is not suspended from trading.• Active – if the user is not suspended from trading. • Active – if the user is not suspended from trading. • Suspended – either the user or the business unit is suspended from trading.IsProtectedMarks the user as to be protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account.LevelThe level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of all users in their own user group. The head trader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own business unit.MaxOrderValueMaximum allowed order value for a single order. Based on calculation Qty times (order) Limit.MaxOrderValueMaximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.	UserGroup	Every group can define their own name. Each user is assigned to maximum one user group. Also referred to as user group.
• Suspended – the user is temporarily suspended from trading. EffectiveStatus The EffectiveStatus describes the effective trading status of the user. This status combines the trading status of the selected user and the trading status of the users business unit. The status can be: Active – if the user is not suspended from trading. Suspended – either the user or the business unit is suspended from trading. IsProtected Marks the user as to be protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account. Level The level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of all users in their own user group. The head trader can see orders and trades of all users in their own business unit. MaxOrderValue Maximum allowed order value for a single order. Based on calculation Qty times (order) Limit. MaxOrderQty Maximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.	Status	the user has been suspended from trading using the Stop Trading
EffectiveStatus The EffectiveStatus describes the effective trading status of the user. This status combines the trading status of the selected user and the trading status of the users business unit. The status can be: Active – if the user is not suspended from trading. Suspended – either the user or the business unit is suspended from trading. IsProtected Marks the user as to be protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account. Level The level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The kader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own business unit. MaxOrderValue Maximum allowed order value for a single order. Based on calculation Qty times (order) Limit.		 Active – if the user is not suspended from trading.
status combines the trading status of the selected user and the trading status of the users business unit. The status can be:• Active – if the user is not suspended from trading. • Suspended – either the user or the business unit is suspended from trading.IsProtectedMarks the user as to be protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account.LevelThe level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The head trader can see orders and trades of all users in their own business unit.MaxOrderValueMaximum allowed order value for a single order. Based on calculation Qty times (order) Limit.MaxOrderQtyMaximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.		 Suspended – the user is temporarily suspended from trading.
• Suspended – either the user or the business unit is suspended from trading.IsProtectedMarks the user as to be protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account.LevelThe level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of all users in their own user group. The head trader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own business unit.MaxOrderValueMaximum allowed order value for a single order. Based on calculation Qty times (order) Limit.MaxOrderQtyMaximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.	EffectiveStatus	status combines the trading status of the selected user and the trading status of the users business unit.
IsProtectedMarks the user as to be protected from deletion. Via this flag it is prevented that the last service administrator deletes the own account.LevelThe level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The head trader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own business unit.MaxOrderValueMaximum allowed order value for a single order. Based on calculation Qty times (order) Limit.MaxOrderQtyMaximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.		 Active – if the user is not suspended from trading.
prevented that the last service administrator deletes the own account.LevelThe level determines if the user may see orders and trades of other users of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The head trader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own business unit.MaxOrderValueMaximum allowed order value for a single order. Based on calculation Qty times (order) Limit.MaxOrderQtyMaximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.		
of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The head trader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own business unit.MaxOrderValueMaximum allowed order value for a single order. Based on calculation Qty times (order) Limit.MaxOrderQtyMaximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.	IsProtected	
times (order) Limit. MaxOrderQty Maximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.	Level	of the same user group or business unit: The trader level may not see orders and trades of other traders of the same trader group. The head trader can see orders and trades of all users in their own user group. The supervisor can see orders and trades of all users in their own
parameter OrderQtyValidationRule.	MaxOrderValue	
PINCode User PIN. Used by the exchange to identify a calling person.	MaxOrderQty	
	PINCode	User PIN. Used by the exchange to identify a calling person.

BusinessUnit	Business Unit.
Default Settlement Account	Default & mandatory settlement account information for multiple CCP: MemberID SettlementInstitute - MemberID Trading Participant - Settlement Location - Settlement Account
Preferred Settlement Account	Preferred & optional settlement account information for multiple CCP: MemberID SettlementInstitute - MemberID Trading Participant - Settlement Location - Settlement Account
NonCCP	AllowNonCCPTrading. If ticked, user is allowed to trade non-CCP instruments. Flag can be changed intraday but changes take effect on next businessday only.
Agency	Allow the entry of orders for the trading capacity A.
MarketMaking	Allow the entry of orders for the trading capacity M.
Proprietary	Allow the entry of orders for the trading capacity P.
Best	Enables usage of <i>Xetra BEST</i> trading capacity to allow entry of BEST quotes.
RisklessPrincipal	Enables usage of Riskless Principal account.
Issuer	Enables usage of Issuer account, i.e. specific actions for Cash Specialist.

User Maintenance - On-Exchange Attributes and Roles

The *On-Exchange Attributes* and *On-Exch Roles* tabs support the maintenance (assignment & deassignment) of entitlement roles to a user. These tabs are provided in *Cash Admin* and *Cash Clearer* to the service administrator for maintenance access at user level.

The difference of the On-Exchange Attributes and On-Exch Roles tab is that the On-Exchange Attributes control the generic user entitlement free of market context, whereas the On-Exch Roles control the entitlements per market group.

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Jser Maintenance Wiza	rd ABCXETRD001 - On-Exch Attributes	· · · · · · · · · · · · · · · · · · ·
Steps	On-Exch Attributes	
1. General Attributes	Maintenance of overall on-Exchange attributes.	
2. On-Exch Attributes	CASH LIQUIDITY PROVIDER	
3. On-Exch Roles	CASH SERVICE ADMINISTRATOR	
4. TES Attributes	CASH USER DATA VIEW	
5. TES Roles		
		CANCEL

Fig. 90: Screenshot of the User Maintenance Wizard showing the Attributes tab

User Maintenance - TES Attributes

The *TES Attributes* and *TES Roles* tabs support the maintenance (assignment & deassignment) of TES specific entitlement attributes and roles to a user.

The TES Attributes tab allows to maintain the T7 Entry Service eligibility per TES type free of market context.

User Maintenance Wiz	izard ABCXETRD001 - TES Attributes	S X 🖻
Steps	TES Attributes	
1. General Attributes	Maintenance of overall TES attributes.	
2. On-Exch Attributes	ENLIGHT	
3. On-Exch Roles	v and the second secon	
4. TES Attributes	TES BROKER	
5. TES Roles	 ✓ TES TRADER ✓ TES VIEW 	
	<u>≤ Back</u> <u>▶ Next</u> <u>₩ F</u> INISH	CANCEL

Fig. 91: Screenshot of the User Maintenance Wizard showing the TES attributes tab

User Maintenance - TES Roles

The *TES Roles* tab supports assigning TES specific roles to a user in a marketgroup specific context. A Product or Product ID can be searched directly or the Marketgroups can be expanded individually to validate the contained products.

		TES Roles						
1. General Attributes	Assig	nment of TES r	oles on Market Group level.					
	Prod	uct:	ProductId:		1	3 Marke	tGroup	
2. On-Exch Attributes	÷	MarketGroup	Description	TES E	ROKER	TES TRA	DER	TES VIEW
3. On-Exch Roles	+	BOND	Market Group for Bonds					
	÷	CBK	Market Group CBK					
4. TES Attributes	+		Market Group DAX1					
	+		Market Group DBK					
5. TES Roles	+		Market Group ETC1					
	+		Market Group MDX1		_			
	+	WAR	Market Group for Warrants					

Fig. 92: Screenshot of the User Maintenance Wizard showing the TES roles tab

Entitlement View, Roles and GUIs

A user which is set up using the setup process is automatically assigned with a role containing negative entitlements which effectively prevents the user from trading until this role has been removed by Cash Markets Exchange. The role containing negative entitlements will be displayed on this tab if assigned - but in case it is displayed, it cannot be changed or removed by the service administrator.

The following table gives a detailed overview about the available combinations of view and maintenance access for the different roles in the applications:

	Trader, Market Maker, Trading View User	Service Administrator
Cash Admin	View only at a user level	Maintenance access on user level

Fig. 93: Access levels for different users for the Entitlement tab

Entitlement is the combination of a product assignment group with a role - the *Entitlement* tab looks at the entitlements from the perspective of the product assignment groups to see their roles assigned.

In the example below, the column *MarketGroup* denotes the product assignment group where the columns USER DATA VIEW, TRADING VIEW, etc. denote the respective role. A set checkbox for the combination of a role and market group indicates that this combination of market group and role is assigned to the user.

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Steps	On-Exch Roles								
1. General Attributes	Assignment of on	Assignment of on-Exchange roles on MarketGroup level.							
	Product:	ProductId:		🖉 MarketGroup:					
2. On-Exch Attributes	⊕ MarketGrou	Description	TRADING V		CASH TRADER				
3. On-Exch Roles		Market Group for Bonds		V	V				
		Market Group for Bonds							
. TES Attributes	± CBK	Market Group CBK							
I. TES Attributes	± DAX1	Market Group DAX1							
	± DBK	Market Group DBK							
. TES Roles	± ETC1	Market Group ETC1							
	± MDX1	Market Group MDX1							
	± WAR	Market Group for Warrants							

Fig. 94: Screenshot of the User Maintenance Wizard showing the entitlement roles on the On-Exch Roles tab

In this example the roles "Cash Market Maker" and "Cash Trader" are assigned to the respective market group(s), often also referred to as product assignment group(s).

The assignment can be given or taken away by clicking on the respective checkbox in the role columns.

Please note: Changes to the entitlement profile of the user will be effective in the next time the user logs in. However, changes are immediately effective on the ETI interface. In case entitlements have been removed from the user, those changes will also immediately prevent the entry of orders in the Cash Trader GUI.

Field	Description
MarketGroup	Market group.
Description	Description of the market group.
TRADER	Entitlement role "Trader"
MARKET MAKER	Entitlement role "Market Maker"
	Entitlement roles

Table of the Entitlement tab, MarketGroup level:

Table of the *Entitlement* tab, *Product* level:

Field	Description
Product	Product.
LongName	Product long name.

User Maintenance - Set User Password

The Set User Password dialog allows you to set or change the password of a user.

The *Master User* and *Master Password* need to be filled with the credentials of the operating service administrator. The *On Behalf* field displays the login name of the user which is currently being maintained. The *Generate Password* button allows you to generate a new password. This generated password is then displayed in clear text in the Generated Password field, it is also prefilled in the *New Password* and *Confirm Password* fields.

As a convenience, the password is also copied into the clipboard, which allows pasting it.

Set User Password							
Set User Password User password requirements: a minimum of 8 and a maximum of 16 characters valid characters: [a-z, A-Z, 0-9] and special characters: ['+', '-', '@', '!', '_, '\$', '\$', '\$', '\$', '\$', '\$', '\$'							
On Behalf ABCFRTRD001 Generated Password	Master User ABCFRSEC001_GUI Master Password New Password Confirm Password						
🎲 Generate Password		Apply 🗙 Cancel					

Fig. 95: Screenshot of the User Setup Dialog

5 Cash Clearer GUI

The *Cash Clearer* application is provided to clearing participants for the use by the backoffice and risk staff and user data view users.

Please refer to section 2 General GUI Concepts and Functions for a general description on how to use the application and how to access these functions using the *Welcome* view.

Only entitled users have access to functions provided in this member GUI.

5.1 View Descriptions: Info & Support

5.1.1 Backoffice Trades

The *Backoffice Trades* view is almost identical to the Trades view of Cash Trader, with the exception that the trade summary rows cannot be expanded, e.g. the partial matches are not displayed in this view.

For a description of this view please refer to chapter 3.4.3 Trades.

5.2 View Descriptions: Risk & Security

5.2.1 Stop Release

The *Stop Release* functionality in the Cash Markets Clearer T7 GUI available to clearing participants provides *Stop Release* actions to authorized users. The *Stop Release* view also serves as an overview of the current Stop Release status of all NCMs the clearing member has a clearing relation with.

S	Stop Release Business Unit 🌵 🖪 🖬 🗙									x			
	P I	BusinessUnit	State	StopTime	StoppedBy	OnBehalfOf	StopTimeClearer	StoppedByClearer	StopTimeMS	StoppedByMS			
	259	ABCXE	0										
	260	DEFXE	0										
ē	Sto	p 🥳 <u>R</u> eleas	e 🗹	Approve	🔀 Reject								

Fig. 96: Screenshot of the Stop Release Business Unit view

Stop / Release Business Unit actions are effective for an entire business unit in a particular market and can be performed by a user of Cash Markets T7 with 'Clearing Member Stop' role and user level 'Supervisor' assigned. The *Stop Business Unit* effectively prevents a business unit from the further entry of orders and quotes. In order to prevent any existing orders and quotes of the affected user or Business Unit from matching, *Stop Business Unit* also triggers the *Panic Cancel* function.

Field	Description
ld	Business unit Id
BusinessUnit	Business unit name
State	Stop/Release state: OK / Stopped
StopTime	Timestamp of the effective stop action (after approval)
StoppedBy	Member stopped by user Id
OnBehalfOf	On behalf of user Id
StopTimeClearer	Time when stopped by Clearer
StoppedByClearer	Stopped by Clearer user Id
StopTimeMS	Time when stopped by market supervision
StoppedByMS	Stopped by MOps user Id

5.2.2 User Maintenance

The *User Maintenance* view provides an overview of the users that are set up in the business unit of the logged in Clearing member.

This view is identical to Cash Admin, for a description of this view please refer to chapter 4.2.6 User Maintenance.

5.2.3 Backoffice Trades

The *Backoffice Trades* view is almost identical to the Trades view of Cash Trader, with the exception that the trade summary rows cannot be expanded, e.g. the partial matches are not displayed in this view.

For a description of this view please refer to chapter 3.4.3 Trades.

6 Change Log

No	Chapter, page	Date	Change
6.1.	2.6	10-APR-2018	New GUI preferences
6.1.	3.2.,4.2.5	10-APR-2018	Adding description for Ticker views; New User Maintenance wizard & field description for multiple CCP
6.1.	2.1, 4.2.5	28-MAY-2018	Updated view for general GUI description, Updated User Maintenance View
7.0	3.3.1-3.3.4, 3.4.6., 6.4	27-SEP-2018	T7 Entry Services; Bonds trading
7.0	1.2,1.3, 3.3.1-3.3.4, 4.2.6	09-OCT-2018	Updates & corrections to TES, User Maintenance
7.0	3.2.1.	20-NOV-2018	Enhanced Market View
7.1	3.3.4 - 3.3.1x	20-MAR-2019	Xetra Enlight
8.0	1.3, 2.5, 3.2.1, 4.2.6, 6.5.3, 6.6.1	16-AUG-2019	Updates for Börse Frankfurt / Continuous Auction with Specialist
8.0	4.2.6	28-OCT-2019	Restrict NonCCP trading on User level
8.1	4.1.4	30-JAN-2020	Page Broker Audit Trail view added
8.1	4.2.5	28-FEB-2020	Updates to TES Auto Approval Rule
8.1	3.2.1;3.3.4.3.3.6; 3.3.7, 3.3.9, 3.3.10	01-APR-2019	Market view: new columns; new display rules for PrevClsPrc; Xetra Enlight below LIS
8.1.	3.3.10	28-MAY-2020	Xetra EnLight Response History enhanced as aggregated view