

Deutsche Börse Group's T7 - Cash Markets

T7 Trader, Admin and Clearer GUI Manual

Release 11.0

Version 11.0.3

Date 28. Oct 2022

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Table of Contents

1	Intre	oduction	6
•	1.1		6
	1.2		6
	1.3		7
2	Gen		0
	2.1		0
			2
			4
		5 5	5
	2.2	9	5
	2.3		9
			9
			20
			20
			21
			21
	2.4		22
			22
		5 5	23
		5	25
		5 1	26
			26
			27
			27
			28
		1	28
			29
	o -		80
	2.5		80
			81
			81
			33
			84
			84
			84
			35
	0.0		87
	2.6		88
	2.7	5	0
	2.8	5	2
			2
			2
			3
		2.8.4 Text Field Configuration	3
3	Cas	h Trader GUI 4	5

Τ7	Trader,	Admin	and	Clearer	GUI ·	- Manual
----	---------	-------	-----	---------	-------	----------

	3.1	Overview
	3.2	View Descriptions: Market
		3.2.1 Market
		3.2.2 Market Depth
		3.2.3 Market Book
		3.2.4 Time & Sales
		3.2.5 Quote Request
		3.2.6 Cross Request
		3.2.7 Ext. Ticker Line
		3.2.8 Ext. Ticker Board
	3.3	View Descriptions: Trading
		3.3.1 Order Entry
		3.3.2 Pre-trade Risk Limits
		3.3.3 Quote Activation
		3.3.4 T7 Entry Services
		3.3.5 Xetra EnLight the selective RFQ Service
		3.3.6 Xetra EnLight Responder
		3.3.7 Xetra EnLight Requester
		3.3.8 Xetra EnLight Request Details
		3.3.9 Xetra EnLight Request History
		3.3.10 Xetra EnLight Quote Entry
		3.3.11 Xetra EnLight Response History
		3.3.12 Xetra EnLight Deals
		3.3.13 Xetra EnLight Historic Data
		3.3.14 Xetra EnLight Alerts
	3.4	View Descriptions: Own (Orders and Trades)
	••••	3.4.1 Orders
		3.4.2 Order History
		3.4.3 Trades
		3.4.4 Related Trades
		3.4.5 Trade Summary
		3.4.6 TES View
	3.5	View Descriptions: Info & Support
		3.5.1 Product Statistics
		3.5.2 Instrument Statistics
		3.5.3 Risk Controls
		3.5.4 News Board
4	Cas	h Admin GUI 119
	4.1	View Descriptions: Info & Support
		4.1.1 News Board
		4.1.2 Sessions
		4.1.3 Bandwidth Monitor
		4.1.4 Page Broker Audit Trail
	4.2	View Descriptions: Risk & Security
		4.2.1 Pre-trade Risk Limits
		4.2.2 Quote Activation
		4.2.3 Risk Controls
		4.2.4 Stop Release
		4.2.5 Trade Enrichment Rules

			TES Auto Approval Rule	
5	Cas	h Clea	rer GUI 1	38
	5.1	View [Descriptions: Info & Support	138
		5.1.1	Backoffice Trades	138
	5.2	View [Descriptions: Risk & Security	138
		5.2.1	Pre-trade Risk Limits	138
		5.2.2	Stop Release	140
		5.2.3	User Maintenance	141
		5.2.4	Backoffice Trades	142
~	0.			40

6 Change Log

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.

Kindly 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

Kindly 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
Inside Market	Identical to Top of Book.
Instrument	Refers to the object which is traded at Cash Markets .
ISIN	12 digits international security identification number. For multi currency instruments only unique with the specific currency.
Lean order	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.
Limit Order	Bid/ask orders which are to be executed at their specified limit or better.
LIS	Large In Scale, a CASH TES trade type
Market Depth	Market information which is provided in the Market view, display of the best bid/ask limits with accumulated volumes per instrument.
Market Order	Unlimited bid/ask orders
Market Reset	An event where all non-persistent orders and all quotes of a partition are deleted by the T7 system during the online day.
MDI	Market Data Interface
Order Book	Identical to Market Depth
отс	Over The Counter, a Cash TES trade type.

T7 Cash Markets

T7 Trader, Admin and Clearer GUI - Manual

Deutsche Börse Group

Version 11.0

T7 Trader, Admin a	T7 Trader, Admin and Clearer GUI - Manual Version 11.0				
Persistent/Non- Persistent Orders	In various situations as e.g. a trade interruption (e.g. during te order book processing, session disconnect, volatility interrupt) and all orders marked as non-persistent will be deleted.				
PSM	Product State Monitor, a tool that shows an overview of the nuproducts and instruments for each product and instrument sta "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 us same business unit - granted, that the required entitlements a				
TES	Cash T7 Entry Services. The T7 Entry Services enable trader pre-arranged off book trades. TES trades can be entered usin respective views of the <i>Cash Trader</i> GUI.				
ТоВ	Trading on-Behalf (by market supervision)				
Top of Book	Overview in which the best bid and best ask limits with accum volumes of the order book are displayed.	ulated			
Trade	Defines the result of an order or quote match.				
Trader	A trader is an individual admitted for trading at the exchange. head trader and supervisor, a regular trader cannot see the 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>Ex</i> <i>Account</i> for the respective system.	ders or			
Trading capacity	The trading capacity is a property of orders and trades, and is inform clearing about the order capacity: Agent, Proprietary o Maker. This field is not visible in <i>Cash Trader</i> , but the <i>Order E</i> the value of the Account field to fill the trading capacity.	r <u>M</u> arket			
User group	The concept of a group of traders, comparable to the trader su the Xetra classic trading system. The user group however is n as a part of their user ID - the user group can individually be a part of the user settings.	ot identified			
User Level	Every user is designated to have one (and only one) user level head trader or supervisor. Users enter their own orders, and t 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 co window. But in case of the desktop tab of the main window, m can be part of a single window.				
Window	A window is a part of the operating system and because of the in the taskbar. A window may contain a single or multiple view				

T7 Cash Markets

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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 - ABCXETRD001_GUI		-(1)	\sim	
Application ⊻iew Configuration ■ ★ i	Help 2		5	6 XETRA
+ Main	(3)		XETR Profile,	/Product 🕥 Edit * Grp Trader 😂
Welcome tew 4	=9			* 🕞 🔂 X
		The disc	Our	8
Market		Trading Order Entry F2	Own Orders F8	Info & Support Product Statistics
	ket Book	Quote Activation	Order History F9	Instrument Statistics
	e & Sales Ctrl O	T7 Entry Service Shift F11		News Board
	ote Request	Xetra EnLight Responder	Trade Summary	Risk Controls
	ss Request	Xetra EnLight Requester	TES View	Nak Controla
	. Ticker Line	Xetra EnLight Deals	1L3 VICW	
	. Ticker Board	Act a chilight <u>D</u> eals		
LAL	. Here board			
9				A
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.
	 Trader: 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.
A	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.
	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 Save New Cancel
	Desktop Templates	Select a predefined or an own desktop configuration. This menu also allows to delete own 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.
	Save Columns	Saves the columns of this view in current order, useful after user has reordered or hidden columns. Newly open view will thus display same column order.
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.
	fx Formula	Allows to create user defined columns and formulas.
	fx Constants	Allows to create user defined constant values per product/contract.
	Profiles	Opens the Profiles view.
	Text Field	Opens the Text Field Configuration view.
	Counterparties	Opens the Configuration view for TES and Xetra EnLight counterparties.
Help	Browse Help	Starts a web browser to display the online help.
	About	Displays the version number, Trader info and GUI system info of the application.
	Collect screens	Brings all open windows of current GUI to the active screen.
	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.
	Bulk Templates	Opens the dialog to download the (TES) templates for bulk actions.

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	ittons / 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	ຜ	Loads or reloads the display
Reset	\$	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*.

Γ	Add Ordei	- Log Messag	es				9	×
ľ	Date 1		2 Source	Severity		MessageText		
	09.05.2016	09.05.2016 19:18:	55 Modify Order	🕕 Info	BOOK:110	ORDER NO:1462370691020001000		
L	09.05.2016	09.05.2016 19:18:	17 Modify Order	🕕 Info	BOOK:100	ORDER NO:1462370691020001000		
L								

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	3	×
ALV (DE0008404005)	🔓 Edit 💋 💌	Quick	Find	A

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*:

M	arket		Trading		Own	
	Market	Ctrl M	Order Entry	F2	Orders	F
	Time & Sales	Ctrl O	Quote Activation		Order History	F
	Cross Request				Trades	F

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.

T7 Cash Markets

T7 Trader, Admin and Clearer GUI - Manual



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:

Ma	rket										0 -	7 8 X	0	ders										- 0	2	5 3	х
				📡 Eo	it 🕻									Profi	le / Instr		Edit (C -							Quid	:k Find	#
F	M Phas	e Cur	r BQty	Bid	Ask	AQty	Lst	High	Low	PotAuct	NetChg	SetiPrcNetCh	B)S	Limit	B TotQt	ty Tota	ExeQty Ren	Qty O/C	Res StopPric	e Triggere	ed Act	PInd	Validity	Date Inac	tive		
+	Cont	EUR	10	101.	.0		5,400.0					-50.0		99.0 E	UR 10	0		100 O				TRUE					
Ŧ	Cont	EUR											В	101.0 E	UR 1	0		10 O			A1	TRUE	GFD				
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													E	<u>A</u> dd	N 🔁	odify	Delete Delete	II Suspe	nd 🕨 🕨 <u>R</u> esu	me 🕪 🖪	artial R	esume	- Ç P	el. <u>T</u> rades	-C P	Rel. <u>H</u> ist	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		↔ 哈尼×
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.

T7 Cash Markets

T7 Trader, Admin and Clearer GUI - Manual

Order Entry Instrument BUY	
Delete Own Orders QR CR	
Welcome View	

Fig. 8: Screenshot of the Trading Desktop illustrating how to drop a view to a new target

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					•	Ъ	3	X
ALV (DE0008404005)	K Edit	C	▼		(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:

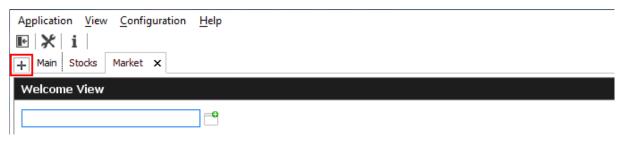


Fig. 10: Screenshot of the *Trading Desktop* showing the desktop tab bar

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 Help	
🖭 🖪 🖨 🏦 🔀 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:

	Instrument	WKN 6		C.P	LongName	5
	ADDB	766401	DE0007664006	EUR	SLOVAC REPUBLIC 98/00 AM9	
	ADDE	604841	DE0006048409	EUR	ADDE	
dd Order	ADS	500340	DE0005003404	EUR	ADS	
Instrument	ALV	840400	DE0008404005	EUR	ALV	
BUY	AM13		DE000AM13000	EUR	B.POST.VAR 14/01 AM13	
xt2 M	AM15	AM1508	DE000AM15000	EUR	B.BUND.ANL 15/01 AM15	
XLZ [M.	ATS	716484	DE0008164664	EUR	ATS	
	BA01	114201	DE0001142016	EUR	BUNDANL.V.97/07NK OZSSSTV FLAT	
	BAY	575200	DE0005752001	EUR	BAY	
	BD02	11BD021	DE00011BD021	EUR	BUNDVAR.V03/18 VARSTV 15.AM2	
				4	1	-

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:

Add Order										
	Instrument			Act	1	Tot	TotQty	Limit		Re
BUY	В					\checkmark				
MIOrdNo	A 1 Instrument	wkn ²	 ISIN	8	cur			 LongName	5)
	AM13		DE000AM13	3000	EUR	B.PC	ST.VAR 14	/01 AM13		
	AM15	AM1508	DE000AM15	5000	EUR	B.BU	ND.ANL 15	/01 AM15		
	BA01	114201	DE0001142	016	EUR	BUNI	DANL.V.97/	07NK OZSSST	V FLAT	
	BAY	575200	DE0005752	001	EUR	BAY				
	BD02	11BD021	DE00011BD	021	EUR	BUN	DVAR.V03/:	8 VARSTV 15	.AM2	
	BD07	11BD071	DE00011BD	071	EUR	B.BA	HN OBL.90	12/20 NOFLA	T 4Q.AM7	
	BD08	11BD08	DE00011BD	089	EUR	B.PC	ST.HYP.12	/13 FLAT AM8		

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	ntry - Ol	PT ON BMW AG -ST	Г-			
BUY	Instrum BMW	ent		Act	Tot	TotQty
501	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.

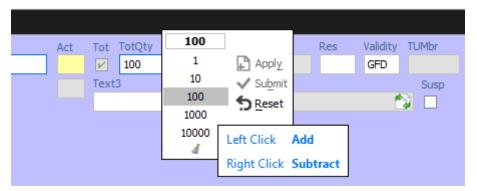


Fig. 14: Number Chooser

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:

		Ju	ni 20	12			
Мо	Di	Mi	Do	Fr	Sa	So	
28	29	30	31	1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	-
18	19	20	21	22	23	24	
25	26	27	28	29	30		
		-	: 20			_	•

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 🗸 🗸	ľ
	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	s 🖍 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	XX 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-Drag Column Header here
ProductGroupRD
term FBND
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.

T7 Cash Markets

T7 Trader, Admin and Clearer GUI - Manual

St	rike:	-	+/-			·]	Te	xt	
Limit		TotExeQty	TotQty	RemQty	o/c	Res	Active	Te	ext
.95	EUR		1	1	0			Custon	ner A
.96	EUR		1	1	0			Custon	ner A
.96	EUR		1	1	0			Custon	ner A
.96	EUR		1	1	0			Custon	ner A
.96	EUR		1	1	0			Custon	ner A
.96	EUR		1	1	0			Custon	ner 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	0	• -	•	
Limit	TotExeQty	TotQty	RemQty	O/C	Res	Active	Text
1.95 EU		1	1	0			Customer A
1.96 EU	R	1	1	0			Customer A
.96 EU		1	1	0			Customer A
1.96 EU	R	1	1	0			Customer A
.96 EU		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.

Str	rike:		+/-	* Text		b	•					
Limit		TotExeQty	TotOty	RemQty	olc	Re		Add	•	i+	Data	Activo
1.95	EUR	TOLEXCOUCY	1		0	1.0		Remove	••		Text	
1.96	EUR		1	1	0		A4	F TRUE	GF		Remove A	
1,96	EUR		1	1	0		- A4	F TRUE	GF			<u> </u>
1.96	EUR		1	1	0		A4	F TRUE	GF	D		
1.96	EUR		1	1	0		A4	F TRUE	GF	D		(
1.96	EUR		1	1	0		A4	F TRUE	GF	D		(

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.

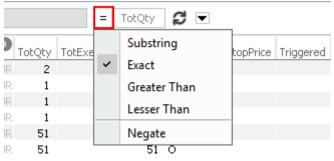


Fig. 23: Filter Restrictions

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	ຊ 🗖	
					•	

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:

				- • ×
le/Instrument 🛛 🎦 Edit	On Behalf	= Group Trader	Show Trader View	SReset ₿

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:

T7 Cash Markets

T7 Trader, Admin and Clearer GUI - Manual

AD:	s (D	E0005003404)	🖍 Edit	C -																5403	æ
Τ		Contract	TrdTyp	L/M	B/S	OrdQty	ExeQty	Prc		o/c	P/F	Res	StopPrice	Triggered	Grp	Trader	Act	PInd	TrdID	TrdState	TrdItemI
1	ADS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0	EUR	С	F				GR1	TRD001	A1	Y	2	NEW	41
1	ADS	(DE0005003404)	REGULAR	LIMIT	S	1	1	<mark>5403</mark> .0	EUR	С	F				GR1	TRD001	A1	Y	3	NEW	60
1	ADS	(DE0005003404)	REGULAR	MARKET	в	11	1	<mark>5403</mark> .0	EUR	0	Р				GR1	TRD001	A1	Y	2	NEW	3
1,	ADS	(DE0005003404)	REGULAR	MARKET	в	11	1	5403.0	EUR	0	Р				GR1	TRD001	A1	γ	3	NEW	5
1	ADS	(DE0005003404)	REGULAR	LIMIT	в	1000	20	<mark>5403</mark> .0	EUR	С	Р				GR1	TRD001	A1	Y	6	NEW	11
	ADS	(DE0005003404)	REGULAR	LIMIT	S	20	20	5403.0	EUR	С	F				GR1	TRD001	A1	Y	6	NEW	120

Fig. 26: Trades view with highlighted results from quick find

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.

Prod	 LongName	9 (9	U/L	Exch	Prc	Vol	Exch	Fast Status
ALV	ALLIANZ AG HOLDIN	EUR	ALV	XETR	0.00	76	XEUR	ACTIVE
BAS	BASF AG -ST-	EUR	BAS	XETR	0.00		XEUR	ACTIVE
BAY	BAYER AG -ST-	EUR	BAY	XETR	0.00		XEUR	ACTIVE
BMW	BMW AG -ST-	EUR	BMW	XETR	0.00		XEUR	ACTIVE
BNP	BNP PARIBAS	EUR	BNP	XFRA	0.00		XEUR	ACTIVE
BPE	BPE	GBP	BPE	XFRA	0.00		XEUR	ACTIVE
BTE	BTE	GBX	BTE	XFRA	0.0		XEUR	ACTIVE
CIBN	CIBA SPEZIALITAETENCHEMIE AG	CHF	CIBN				XEUR	ACTIVE

Fig. 27: 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. 28: 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.

🕌 Print	X
General Page Setup Appearance	
Print Service	
Name: Fax	 Properties
Status: Accepting jobs	
Туре:	
Info:	Print To <u>F</u> ile
Print Range	Copies
. ● AI	Number <u>o</u> f copies: 1
O Pages 1 To 1	Collate
	Print Cancel

Fig. 29: 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 Order	import - Impo	ort	X
Look <u>i</u> n:	📜 Test	▼ 🧊 📂 🖽 •	
Recent Items	🖺 T7_order_i	import.csv	
Desktop	File <u>n</u> ame: Files of <u>t</u> ype:	T7_order_import.csv (*.txt,*.csv,) - CSV text file	Import Cancel

Fig. 30: 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 (...).

XE Export Options	X
Select Export Options	
Export Row Options	
● All ○ Selected	
Export Column Options O All Visible (Please note: All also exports invisible Export Path Path	columns.)
🏦 Export	X <u>C</u> ancel

Fig. 31: 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	w										
FDAX		K Edit	1 S	6 🖌 (g 📼						
Contrac	f _x	Hide Column Fx Configuration Color	•	Itus	Appr. Time	Ctpy	B/S	Qty	Prc	Vega	Volatility
		Show/Hide Goto	ł	> > > > > >	Act Appr. Time B/S Contract Ctpy						

Fig. 32: 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.

Application View	Configu	ration Holp	1	
	🛧 🔀 👘 Name		Owner/Description	
		ABCXETRD002_ACTIVITY	ABCXETRD002_GUI	
Main +		CASH-Products	GENERATED Cash Product	
Market		BOND-MarketGroup	GENERATED Market Group for Bonds	
		BOND_ISR-MarketGroup	GENERATED Market Group for Bonds	
Prof/Prod/Instrument		DAX1-MarketGroup	GENERATED Market Group DAX1	
		ETC1-MarketGroup	GENERATED Market Group ETC1	
MC SecState	SoldOut	ETF1-MarketGroup	GENERATED Market Group Deka ETFs	Bid Ask AQty ACnt
		ETF2-MarketGroup	GENERATED Market Group Deka ETFs CHF	
		MDX1-MarketGroup	GENERATED Market Group MDX1	
		WAR-MarketGroup	GENERATED Market Group for Warrants	
			4	

Fig. 33: 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 a 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 instruments the user is most interested in:

м	arket															
A	BCFRTRD	001_ACTIVITY	8	Edit Up	to: Exp	iry St	rike	+/-	≥s ⊡c	Туре	3					
	CPhase	Contract	Curr	CBQty	CBid	CAsk	CAQty	CLst	CPotAuct	CNetChg	SetIPrcNetChg	COpen	CHigh	CLow	CVol	F
+	Cont	FDAX Dec13	EUR	100	100.0			2.0			-5,448.0	2.0	2.0	2.0	84	
ŧ	Cont	FEU1 Jan14	EUR			54.00	1								50	
÷	Cont	FEU3 Jan14	EUR			54.0000	1	54.0000			-42.0100	54.0000	54.0000	54.0000	51	

Fig. 34: 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:

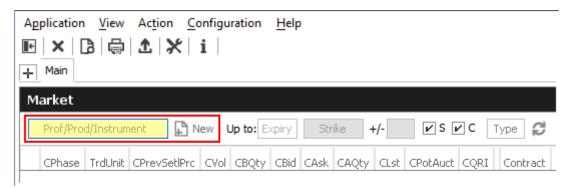


Fig. 35: Profile/Product Selector

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

FDAX DEC13	📡 Edit	Strike	+/-	VS V C	Туре 💋
Name	01	wner/Descript		t CPotAuct CORI Contract	
FDAX DEC13	FUT ON DAX INDEX				
FDAX MAR14	FUT ON DAX INDEX				
FDAX JUN14	FUT ON DAX INDEX				

Fig. 36: Profile/Product Selector accepting the entry of a product, instrument 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:

Version	11	0
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Application <u>V</u> iew	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
Critido ridonic	OINX-Products	Generated Option on Index
	OSTK-Products	Generated Option on Stock
	POOL-Products	Generated

Fig. 37: 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 🗃 🗉 🗆 🗐 🐺	⊻ 6
share with: Group BU	
Content Layout 54	

Fig. 38: 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. 39: 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
Ξ	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
18	Merge selected profile into the current profile
T T	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:

Market										
abc 🗙 Save 🕻	•									
\$↓		мо	SecState	SoldOut	Phase	Ind	PotInd	Instrument	Curr	PrevClsF
share with: Group BU Content Layout Current Profile: abc (XESUPS ADDB		+	Active		Book			ADDB	EUR	
		+	Active		OpnA				EUR	
		• •	Active Active		Book OpnA				EUR	
		+	Active		OpnA			DB1	EUR	
ER07 CTH1F	[+	Active		OpnA			LHA	EUR	
DB1	_									
ZTH1F										
LHA										

Fig. 40: Reordering of Profiles

Custom background color per product

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

T7 Trader, Admin and Clearer GUI - Manual

Version 11.0

Market										
abc	🗙 Save 🦪 🔻	·								
2 ↓			MC SecState	SoldOut	Phase	Ind Po	tInd Instrument	: Curr	PrevClsPrc	NetChg
share with:	Group BU	+	Active		Book		ADDB	EUR		
Contract Law		+	Active		OpnA		ER07	EUR		
Content Layo		+	Active		OpnA		ZTH1F	EUR		
	t Profile: abc (XESUPS	+	Active		Book		ALV	EUR		
- 💭 ADI		+	Active		OpnA		DB1	EUR		
	Add separator	+	Active		OpnA		LHA	EUR		
	Set background color				٦					
	Remove background color	Set	background	d color						

Fig. 41: Custom background color per product

Separators

Add a separators using the context menu:

Market													
abc	X Save	g 🖣											
<u></u> ≩↓		1-											
2.				MC	SecState	SoldOut	Phase	Ind	PotInd	Instrument	_	PrevClsPrc	NetChg
share with: 🗌 Group 🗌 BU			+		Active		Book			ADDB	EUR		
Contrast Lawout			+		Active		OpnA			ER07	EUR		
Content Layout			+		Active		OpnA			ZTH1F	EUR		
🖃 🗿 Current Profile: abc (X	ESUPS		+		Active		Book			ALV	EUR		
💭 ADDB			+		Active		OpnA			DB1	EUR		
🗇 ER07	_		+		Active		OnnA			LHA	EUR		
		Add s	ера	irat	or								
ZTH1F													
		Set ba	ackg	grou	und Ad	d sepai	ator						
DB1		Pomo	wo l	had	kground	color							
LHA		Kenic	ve	uac	kyrounu	COIOI							
Fig. 42: 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:

T7 Trader, Admin and Clearer GUI - Manual

Application Preferences Configure application properties		6
upported Properties		
Color-Theme	Classic	
Overwrite theme background	None	
Mandatory background	255, 254, 163	1
Mandatory foreground	0, 0, 0	1
Font	Tahoma, Plain, 11	
Show mandatory icon		8
∃ Table		
Overwrite table background	None	
Highlight	255, 255, 0	1
Highlight foreground	0, 0, 0	
Cell Font	Tahoma, Plain, 11	
Table row constrast		95 [
Table Grid Color	None	
Thousands separator		
Choose CSV Separator value (;,)	;	
Warning on closing multiple tabs	\checkmark	
Miscellaneous		
Collect Nicks	\checkmark	1
Start TES in simple mode	\checkmark	
Confirm TES inhouse SIMPLE	\checkmark	
Execute TES inhouse SIMPLE		8
Confirmation on TAB Close		1
Save all settings on log out		
		App

Fig. 43: Application Preferences view

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

T7 Trader, Admin and Clearer GUI - Manual

Version 11.0

Vie	ew Properties - Orde	rs	
G	eneric View Propert	ies	
	-	on of view properties. 'Generic' settings are	-
	oported Properties		
	Appearance	- · · · · · ·	
	Font	Tahoma, Plain, 11	1
	Table		
	Highlight	255, 255, 0	1
	Cell Font	Tahoma, Plain, 11	8
	Table row constrast		95 👔
	Table Grid Color	None	3
	Separators		3
			Apply

Fig. 44: 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 Field Configuration

The *Text Field Configuration* view provides a service to define certain text fields to be conveniently used later in appropriate entry masks, e.g. in Order Entry.

Besides creating text field configruations manually, import and export features are available. Furthermore a search function allows to easily find errornous entries or just arbitrary text (more details at the end of this chapter).

The configuration consists of the fields

- Text1, Text2, Text4/MIOrdNo,
- *Act*,
- ClientID, Text5/LEI,
- InternalField1, InternalField2,
- RateID, Publish, InvID, InvQual,

with the text fields being the key of a configuration record.

Text Fi	eld																			E	N F
Text Fi	d Rest	ore																			
Text	Field O	onfiau	ration																		
				Order Entry, Order N	laintenance, T7 Entry Se	ervices and EnLight.														1	/
																				a	
																					_
20																	1				
	Product	TotQty	Text1/Text	Text2/Customer	Text4/MIOrdNo	Text5/LEI	Act	InternalField1	InternalField2	ClientID	InvID	InvQual	LiPrv	Group Shared	Group	BU Shared	Owner		~	*	×
500			prio highest	on very top											GR1		ABCXETRD001_GUI				_
100			prio high	on top											GR1		ABCXETRD001_GUI				
			noprod	pic manually	text4		A1			789456132	123	HUMAN			GR1		ABCXETRD001_GUI				
	DB1	100	product	specific		9876123456765	A1			9876					GR1		ABCXETRD001_GUI				
	LHA		prod spec	enlight		buyside 1234									GR1		ABCXETRD001_GUI				
	t∰ De		. Import A. E.															X Close View			
-																		A close view	V UK	~ ^	pp y
Text Field		I SI	JCCESS - 5 rows lo	aded.																	

Fig. 45: Screenshot of the Text Field Configuration view

This means, if a matching text value was entered in the text field of e.g. the *Order Entry*, all the rest of the above mentioned values (if configured) will be copied into the respective fields of an entry mask. Alternatively the user can right-click into a textfield to get a list of text field configs to chose from.

The ordering in this list can be controlled by prioritizing the text field confings. Simply fill in a numeric value in the *Prio* field: Text field configs with a high *Prio* value appear on top of the selection list.

By filling the *Product* column, the respective text field configuration will be applied automatically once the product is specified in the *Order Entry* mask.

The *TotQty* column allows specifying a default order quantity for automatic prefilling in the *Order Entry* mask, once the specified product has been entered.

The *InternalField* columns allow to enter information for internal use only, i.e. data entered here is only shown to the trader but is never part of the entered order or TES trade.

Suitable entry masks are currently the following:

- Order Entry,
- all TES Entries,
- Cash Enlight Request Details and Quote Entry.

To ease maintaining bigger amounts of text config records, a text search on the upper right side of the table is available. To search for errornous text entries the red arrows must be used while the grey arrows execute a standard find. Both search modes do not consider upper or lower case, i.e. all variants of the entered text will be found. The search field can be opened again by pressing CTRL+F (STRG+F on german keyboards) if accidently closed.

			iguration are commonly used in	I Order Entry, Order M	Maintenance, T7 Entry Se	rvices and EnLight.														d
20																				
15	Produ	uct Toto	Qty Text1/Text	Text2/Customer	Text4/MIOrdNo	Text5/LEI		Act	InternalField1	InternalField2	ClientID	InvID InvQua	LiPrv	Group Sh	ared Group	BU Shared	Owner	28	~	÷ .
0		-	prio high	on top	N	•	-						• 6		GR1		ABCXETRD001_GUI			
1		1	noprod	pic manually	text4	clientid mapper	-	A1			789456132	123 HUMAN			GR1		ABCXETRD001_GUI			
	AM13	-	prod spec	enlight		buyside 1234	1		1						GR1		ABCXETRD001_GUI			
	BOS	-	prod spec	enlight		buyside 1234									GR1		ABCXETRD001_GUI			
			99 abc	Pre_t2	pre_text3		1	A2	1		9876543				GR1		ABCXETRD001_GUI			
		9	199 abc	Pre_t2	pre_text3		1	G1			9876543				GR1		ABCXETRD001_GUI			
		5	00 abc2=	text2	text3	0		A1			8888				GR1		ABCXETRD001 GUI			
7		5	00 abc2#	text2	text3	0		A1	· · · ·		8888				GR1		ABCXETRD001_GUI			
	1	5	00 abc28.	text2	text3	0	1	A1			8888				GR1		ABCXETRD001 GUI			

Fig. 46: Screenshot of the Text Field Configuration depicting the error search feature

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 (kindly refer to the screenshot below):

ation View Cor 🛠 i					X
ain +				OWN Prof/Prod/Instrum	ent 🛛 😭 Edit
come View					🔅 6 🖻 🕯
	Market	Trading	Own	Info & Support	
	Market Ctrl M	Order Entry F2	Orders F8	Product Statistics	
	Market <u>B</u> ook	Pre-trade Risk Limits	Order History F9	Instrument Statistics	
	Time & <u>S</u> ales Ctrl O	Quote Activation	Trades F10	News Board	
	Quote Request	T7 Entry Service Shift F11	Trade Summary	Risk Controls	
	Cross Request	Xetra EnLight Responder	TES View		
	Ext. Ticker Line	X <u>e</u> tra EnLight Requester			
	Ext. Ticker Board	Xetra EnLight <u>D</u> eals			
		Xetra EnLight Historic Data			

Fig. 47: 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.

Kindly 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.

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

Market	t																					Ö 9	38	e X
db 1	D	E0005810055	🖌 Edit	ຊ 🗖														Market De	epth 3 🔹	Colum	nns Me	edium		•
SecState	SoldOut	ISIN	WKN	InstrLongName	MarketGrou	p PrevClsPr	XRI	QRI L	stQty	Ŀ	stTime		LstDate	PotAuctQty	Surplus	LowerVola	Bndry	UpperVolaBndry	LstAucPrc	LstAucQt	/ LstA	ucTim .	Trades	Exch
Active		DE0005810055	581005	DB1	DAX1					09	9:42:42	: 2	20.08.2021											XETR
MC	SecState	SoldOut Phase	Ind Pot	Ind Instrument	Curr Prev	ClsPrc NetCh	g BCn	t BQt	/ Bid	Ask	AQty	ACnt	PotAuctPro	PotAuctQty	Surplus	LstPrc	LstQty	LstTime	LstDate	Open	High	Low Vo	k	
P /	Active	OpnA		DB1	EUR											120.0000		09:42:42	20.08.202	1				
								_		_										_			-	

Fig. 48: 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
BAvg	Average bid price of the price level
BAcc	Accumulated bid quantity of the price level
BCnt	Number of buy orders at the price level
BQty	Bid quantity
Bid	Bid price
Ask	Ask price
AQty	Ask quantity
ACnt	Number of sell orders at the price level
AskAcc	Accumulated ask quantity of the price level
AskAvg	Average ask price of the price level

T7 Trader, Admin and Clearer GUI - Manual

LstPrc	Last price
LstTime	Last trade time
LstQty	Last trade quantity
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 price and side of the surplus.
LowerVolaBndry	Minimum boundary of allowed price for volatility corridor. Displayed only if instrument's trading phase is setup for Automated Volatility Corridor Expansion Model.
UpperVolaBndry	Maximum boundary of allowed price for volatility corridor. Displayed only if instrument's trading phase is setup for Automated Volatility Corridor Expansion Model.
LstAucPrc	Last auction price
LstAucQty	Last auction quantity
LstAucTim	Last auction time
Trades	Total number of trades of the day .
BAcc	Number of orders in the accumulated bid order volume.
AAcc	Number of orders in the accumulated ask order volume.
VDOLstPrc	Last price of VDO order.
VDOLstQty	Last trade quantity of VDO order.
VDOLstTime	Last trade time of VDO 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.
CovInd	Cover Indicator

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 (\boxdot) 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 last uesd Order Entry prefilled.

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 Properties* 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.

For an overview of all properties available, just open the properties dialog of the Order Entry or refer paragraph Order Entry properties - presets of 3.3.1 Order Entry.

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). For an overview of all properties available, just open the properties dialog of the *Order Entry* or refer paragraph *Order Entry properties - presets* of 3.3.1 Order Entry.

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 (\Box).

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
🛨 Cont						ADS (DE0005003404)
📮 Cont	201	17	18	201		ALV (DE0008404005)
	163	16	19	50		
🗄 Cont						BMW (DE0005190003)
🛨 Cont						CBK (DE0008032004)

Fig. 49: 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. Kindly 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.

<u>ov</u>	VN BMW		3	▼					
BCnt	OwnBidQty	BidAccQty	BidAggrQty	Limit		AskAggrQty	AskAccQty	OwnAskQty	ACnt
				402.0	EUR	60	375	60	1
				401.0		215	315	215	1
				400.0	EUR	100	100	100	1
BCnt	OwnBidQty	BidAccQty	BidAggrQty	Limit		AskAggrQty	AskAccQty	OwnAskQty	ACnt
1	77	77	77	399.0	EUR				
1	132	209	132	398.0					
1	24	233	24	397.0	EUR				

Fig. 50: Screenshot of the Market Book view

Market Book	
Column	Description
BCnt	Number of buy Orders
BAccQty	Bid accumulated quantity
BAggrQty	Bid aggregated quantity
Limit	Price
AAggrQty	Ask aggregated quantity
AAccQty	Ask accumulated quantity
ACnt	Number of sell Orders
OwnBQty / OwnAQty	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	
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. 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:

T7 Trader, Admin and Clearer GUI - Manual

Quote Request	•	9	X
Profile/Instrument 🔀 Edit 💋 💌	Quick	< Find	<i>6</i> 2
Instrument QRQty Time			
Quote Request (1) no rows match filter			

Fig. 51: 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*. Kindly 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	•	9	×
Profile/Instrument 📉 Edit 💋 💌	Quick	Find	#
Instrument QRQty Time			
Quote Request (1) no rows match filter			

Fig. 52: Screenshot of the Cross Request view

Table Description	
Column	Description

T7 Trader, Admin and Clearer GUI - Manual

WKN	WKN of the instrument (if available)
Instrument	Instrument ID
ISIN	ISIN of the instrument. For multi currency instruments in format ISIN.CUR
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				¢	\$ B B	
▶ -[] VAVL DE0006300692	LstPrc	XIDX NAVM DE0006301013	LstPrc	XIDX NAVN DE0006301021	LstPrc	×I
13:51:45.350	<mark>23.9433</mark>	13:51:45.170	<mark>42.2682</mark>	13:51:45.180	<mark>69.0678</mark>	

Fig. 53: 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.

Version 11.0

Ext. Ticke	Ext. Ticker Board 🌼 🖪 🖬 🖼 🗙								
* xbul 🖉 💌									
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. 54: Screenshot of the Ext. Ticker Board

Table Description				
Column	Description			
ExchIdCod	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. The *ClientID* field

becomes mandatory when using 'A' account. This numeric *ClientID* serves as a reference to the 35 characters long ESMA Client Identification Code. **Kindly 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.

Instrum	nent	Act Tot TotQty	Limit	Res	Validity Text1	Text2	
BUY		A1 🗸			GFD		
MIOrdNo	ClientID	OrdNo	S	usp TaC			

Fig. 55: Screenshot of the Order Entry view in compact mode and TopOfBook pane hidden

	Instrument	Act Tot TotQty	Limit	Res Validity Text1
BUY				GFD
ext2	MIOrdNo	ClientID	OrdNo	Susp TaC
dQty	Bid	LstPrc Ask	AskQty	Bịd Hit Take Ask
Delete (Dwn Orders QR CF	Compact 🔵 TopOfBook		😭 Apply 🗸 Submit 🕤 Res

Fig. 56: 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, the most recently used one will be prefilled.

Using several properies of the *Order Entry* the behaviour can be finetuned. For example, the *Order Entry*'s property *Accumulate market qty* controls how the quantity gets prefilled:

If unticked, the *Order Entry* is filled with the exact quantity when clicking the *Qty* column of a certain row of the Market Depth. If ticked (default), the quantity is accumulated as usual.

For an overview of all properties available, just open the properties dialog of the Order Entry or refer to paragraph Order Entry Properties - presets further below.

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 Delete	Modify	Add New	S 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.

T7 Trader, Admin and Clearer GUI - Manual

Instrument	Instrument short name (symbol), or WKN, or ISIN, for multi currency instruments <isin.cur>. The context menu offers the following columns of information: Instrument short name, WKN, ISIN, CURR 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, e.g. for multi currency instruments the ISIN is only unique with the currency.</isin.cur>
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.
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 (kindly 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	<i>MemberInternalOrderNo</i> - 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.
OrdNo	Order number generated by Cash Markets application.
Susp	If checked, order is entered as suspended for later activation from <i>Order Entry</i> view.
TaC	 Optional order attribute for <i>Trade At Close</i>. It depicts following settings: Order does participate in Trade-At-Close phase Order does not participate in Trade-At-Close phase Inser specific default value as defined in <i>User Maintenance</i> will be used.

Order Entry - Extended Fields:

Field	Description
StopPrc	Stop price. Enabled only for Stop orders (Res=Stp).
Date	Date field. Enabled only for validity GTD.
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.

Order Entry Properties - presets

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 suc-

cessfully modifed using the *Modify* button.

View Properties	- 🛛 X
View Properties Configure view properties	3
View Properties: Order Maintenance Appearance Prefill (applied on reset) Preferences	
Modify: TotQty preset 🗾	2
Compact mode Show Top of book	1 1 1
Reset on Market Click	Ĩ
	IN ADD TH

Fig. 57: Screenshot of the View Properties view

Reset on Market click controls whether or not the *Order Entry* is resetted before filling data from Market view.

Fill Quantity on Prc Click controls whether or not the *Order Entry* is filled with the related quantity as well when clicking on a Bid/Ask cell in market view.

Accumulate Market Quantity controls how the how the quantity gets prefilled when clicking in the market view: If unticked, the Order Entry is filled with the exact quantity as displayed in the Qty column of a certain row of the Market Depth. If ticked (default) the quantity is accumulated as usual.

In order to save changes, press Apply and press Save Settings from the Application menu.

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. Kindly 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*:

T7 Trader, Admin and Clearer GUI - Manual

	Orders														.	68	
Instrument ISIN WKN BS Limit TotQty TotExeQty RemQty Res StopPrc TrailStopAbs TrailStopPct InitQty RndLowQty RndHighQty Triggered Ac BAYX DE0005752001 575200 B 81.000 11 100 100 A	OWN	Bayx	DE000575	52001	🖍 Edit	C 🗖										Quick Find	8
SATX DE0005/52001 5/5200 B 81.000 04 100 100 A	Instrument	ISIN	WKN	8 79	∟ Limit ⓐ	TotQty	TotExeQty	RemQty	Res	StopPrc	TrailStopAb	; TrailStopPct	InitQty	RndLowQty	RndHighQty	Triggered	Ac
BAYX DE0005752001 575200 B 81.010 EUR 100 100 A	вачх	DE0005752001	575200	В	31.000 EUR	100		100									A1
	BAYX	DE0005752001	575200	B	81.010 EUR	100		100									A1

Fig. 58: 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. Kindly 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

Instrument Act Tot TotQty Limit Res Validity Text1 BUY GFD Text2 MIOrdNo ClientID OrdNo Susp TaC	
Text2 MIOrdNo ClientID OrdNo Susp TaC	
💿 Delete Own Orders QR CR 🔵 Compact 🔵 TopOfBook	it S Reset

Fig. 59: 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 Ord	ler							4 G)
BUY	Instrument DE0005752001	Act Tot BAYX A1	TotQty Limit 100 81.0000	EUR BEST Res	s StopPrc	EUR GFD	/ Date	Text1
Text2	MIOrdNo	ClientID 111	OrdNo 15670034	23472000000	LiPrv InvID	InvQual	CrossID Susp	
BidQty 100	Bid 81.0100	LstPrc Ask	s AskQty	Bid	Hi <u>t</u> Ta <u>k</u> e	Ask	self-match	prevention Id
o Delete	Own Orders QR CR	Compact 🕘 Top	OfBook			Delete	Modify 🗗 App	ol <u>y</u> New 为Rese

Fig. 60: Screenshot of the Order Entry showing the CrossID field

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

Orders															1	* 5.5	
OWN	bayx	DE00057	52001	🖌 Edit	g 🗖											Quick F	ind 🙈
 Instrumer	P 1	SIN WKN	B	∟ Limit 3	TotQty	TotExeQty	RemQty	CrossID	Res	StopPro	TrailStopA	bs Trail:	5topPct	InitQty	RndLowQty	/ RndHighQ	ty Trigge
BAYX	DE000	5752001 575200		81.000 EUF	100			1234									
BAYX	DE000	5752001 575200	В	81.010 EUF	100		100										
P Add Order I		Modify 🗜 Dele	te	II Suspend	▶ <u>R</u> e	sume 🌗	Partial Re	esume	CE R	el. <u>T</u> rade	es 🧲 Rel	l. <u>H</u> istory				# 68	
		rof/Prod/Instrumer	nt	🖍 Edit	C -											Quick F	ind 🖓
HistType	HistSeq	MaintTime	1		ISIM	J W	N B/S	Limit	Тс	tQty T	otExeQty I	RemQty	Act C	rossID F	Res Validity	ExpiryDate	Text1
Add	2	28.08.2019 16:44	:01 B	AYX	DE000575	2001 5752	200 B	81.0100 EU	R	100		100	A1		GFD		
Modify	3	28.08.2019 16:55	:36 B	AYX	DE000575	52001 5752	200 B	81.0000 EU	R	100		100	A1 12	34	GFD		
Add	1	28.08.2019 16:43	:43 B	AYX	DE000575	52001 5752	200 B	81.0000 EU	R	100		100	A1		GFD		

Fig. 61: 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 Pre-trade Risk Limits

The *Pre-trade Risk Limits* view allows entitled participants to define and maintain limits for the daily maximum notional value of all entries, modifications and executions of orders and quotes per product and trading side.

Only products that have been defined to be eligible for the Pre-Trade Risk Limit check can be viewed and maintained. Viewing and adding action for this view are controlled by two different entitlements.

This view is not updated automatically.

Pre-trade risk limits can be set for three risk limit types (-levels), separately for the buy and sell side:

- 1. Exchange level (EXCH_FOR_BU): Cash Market Supervision defines PTRLs for any Business Unit (BU) using the Cash Controller GUI.
- 2. Clearer level (CM_FOR_BU): Clearing members define PTRLs for their related non-clearing member using the Cash Clearer GUI. *Kindly note,* a Settlement Institute (SI) member will not be able to define PTRLs for its non-clearing members.
- 3. BU level (BU_RISK_GROUP): Properly entitled (admin) participant defining risk limits for its User Risk groups using the Cash Admin GUI.

BCXE	ETC1-Mar	ketGroup		RISK_GROUP	RiskGroupId	entifier	9 -			
BusinessUnit	Symbol	RiskLimitType	A BU_F RiskGroupIden	RISK_GROUP	ShortAmountLimit	NetPosition	OpenLongValue	OpenShortValue	LongLimitViolation	ShortLimitViolation
ABCXE	ATS	BU_RISK_GROUP	CB1	3,555	4,444	0	0	0		
ABCXE	ATS	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	ISC	BU_RISK_GROUP	CB1	4,444	3,333	0	0	0		
ABCXE	ISC	BU_RISK_GROUP	CB2	1,444	2,444	0	0	0		
ABCXE	JPY	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	MOB	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	MOR	BU RISK GROUP	CB2	2,000	1,500	0	0	0		

Fig. 62: Screenshot of the Pre-trade Risk Limit view, showing on-book limits filtered for a specific PAG and risk limit type

A full description of this view can be found in Cash Admin GUI, chapter 4.2.1 and Cash Clearer GUI, chapter 5.2.1.

3.3.3 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.

T7 Trader, Admin and Clearer GUI - Manual

QuoteActive	Туре	MinQuoteQty	Session	Product
		10		
1		10	BCFR_SHF_S1	ALV
	LE_INSTRUMENT	10 SIMPL	BCFR_SHF_S1	ALV

Fig. 63: 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.

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.

The *Quote Activation* scope parameters:

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.

3.3.4 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.

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 & <u>S</u> ales 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	Xetra EnLight Historic Data		

Fig. 64: Screenshot of the Welcome View highlighting T7 Entry Services views

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 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.

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.
- 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).
- When using GUI definable TES Auto Approval Rules, clearing data entered for an auto approval rule definition will overwrite clearing data which is entered during manual TES Entry. If the latter should persist, modify needs to be pressed again by the user entering the TES trade.

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):

T7 Entry Service - 01C Product TESTrdID Ø Delete Instrument SettlementDate — TES Type – DB1 DE0005810055 ● OTC ○ LI Supp Prc 101 EUR		CommTime 13:00 CEST	Description	EntryTime El	lapsedTime ExecT	TesState LISMinValue ON Initiator (Broker) CEST ABCXETRD001
Initiator (Broker) Qty Act Text1 ABCXETRD001 SELL 500 P1 Approver ABCXETRD001	Text2	Text4 1234567890123456	ClentiD LiPn	/ InvID I	invQual	Status (Initiator) Status (Approver)
👗 Add Approver 🛛 🤱 Remove Approver 🛛 🍕 Page				➤ To Broker Mode	Add Using	SReset 🗜 Apply

Fig. 65: 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*:

Product Instrumen DB1		Dele Settl	ete lementDat	e	ES Type DTC OLIS									TesState ON	LISMinVal
usp Prc								CommTime 13:00 CEST	Description			ntryTime CEST	ElapsedTime	ExecTime CEST	Initiator (Broke ABCXETRD00:
TesTrdIC	Approver	B/S	Qty A	ct	Text1	Text2	Text4	Client	ID LiPrv	InvID	InvQual	TesStatus			
	ABCXETRD001 (myself) ABCXETRD001 (myself)		500 F				1234567890123456 1234567890123456		FALSE						

Fig. 66: 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 kindly 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. 67:

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	
Instrumer	nt: 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 all 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. 68: 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.

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.

Kindly note: Fitting template files for this bulk load functionality can be downloaded from the GUI menu *Help -> Export Bulk Templates*.

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 kindly refer to 4.2.6 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:

T7 Trader, Admin and Clearer GUI - Manual

Version 11.0

age Brol	ker	
	note that these messages are recorded at Deutsche Boerse for an unlimited amount d via a supervisor in the Admin GUI.	t of time, and can be
ounterparty	y: ABCXETRD001	
	🖌 Hello	} 🕹 🐍
		16:53:28
	 Kindly asking to approve quickly. 	
		16:55:54
	o problem, will do. 56:22	

Fig. 69: Screenshot of the Page Broker dialogue

Kindly 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 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								₿	R B B X
Product TESTrdID	Delete								
Instrument	SettlementDate	TES Type						TesState	LISMinValue
DB1 DE0005810055		● OTC 🔾 LIS		_		_		ON	
Susp Prc				CommTime	Description	EntryTime	ElapsedTime	ExecTime	Initiator (Broker)
101 EUR				13:00 CEST		CEST		CEST	ABCXETRD001

Fig. 70: 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.

T7 Trader, Admin and Clearer GUI - Manual

Trade Entry Service - LIS	本 Genex
Product TESTrdID & Delete	
Instrument SettlementDate TES Type DE0005003404 ADS 20.12.2013 O OTC () LIS	TesState LISMinValue ON 633000
Susp Prc 316.0	CommTime Description EntryTime ElapsedTime ExecTime Initiator (Broker) CEST CEST CEST ABCETREDOI

Fig. 71: 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).

The following table gives an overview and description of these IDs:

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.

			TesState ON	LISMinValue
			UN	
Description		ElapsedTime ExecTi		tiator (Broker) BCXETRD001
T	Description			

Fig. 72: 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	Instrument short name (symbol), or WKN, or ISIN, for multi currency instruments <isin.cur>.</isin.cur>
	The context menu offers the following columns of information: Instrument
	short name, WKN, ISIN, CURR 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, e.g. for multi currency instruments
	the ISIN is only unique with the currency.
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.
L	<u> </u>

T7 Trader, Admin and Clearer GUI - Manual

Initiator	This is the person entering the TES trade
TesTrdld	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	<i>MemberInternalOrderNo</i> - 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.

3.3.5 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.

Cash Trader GUI 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 *RfQMinValue* 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.

3.3.6 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:

Xetra EnLight Responder								.	R E E X													
		of/Prod/Instr		Edit 🞜	Ŧ														De	pth 5	-	Quick Find 🦓
	Enit	Instrument	ISIN	WKN	B/S	AckStatus	Status	NoFillReason	OpenQty	PrefBid	PrefAsk	BidQty	Bid	Ask	AskQty	Buy-Side	SettlementDate	Act	Text1	Text2	MIOrdNo	ExpireTin
+	9	LHA	DE0008232125	823212	9	RESPONDED	OPEN		500	102.0000	104.2000	500	102.0000				20.12.2013	P1	tt11	tt21	MIMIMI	
ŧ	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					
The Enter Quote X Delete Quote History																						

Fig. 73: 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. Kindly check also the section about Xetra EnLight alerts (\rightarrow 3.3.14 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 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. For multi currency instruments in format ISIN.CUR
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. Suspended: Staged negotiation which is not yet active.
AckStatus	Acknowledgement status of the respondent. e.g. RESPONDED, DECLINED.
NoFillReason	Reason why quote was not chosen.
MySellLimit	Requesters sell limit.
MyBuyLimit	The preferred price of the Xetra EnLight Request. Half ticks are supported. Requesters buy limit.
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	Free message text field.
SettlementDate	Settlement date of instrument.
Act	Position Account
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	<i>MemberInternalOrderNo</i> - 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.
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.
Pull-InTime	<i>Quote Expiry time</i> . Displays the time(stamp) when quote did expire or was hit.
Pull-InCntDown	Quote Expiry countdown. display only.

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. For multi currency instruments in format ISIN.CUR
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
MySellLimit	Requesters sell limit.
-	
MMyBuyLimit	Requesters buy limit.
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	Free message 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.

3.3.7 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. To inquire older historic data (up to two years) kindly use the *Xetra EnLight Historic Data* view, chapter 3.3.13.

D Instrument ISIN WKN B/S Statutine Statutine Report Report EnteringRequester EnteringRequester	Xetra Enlight Requester Prof/Prod/Instrument Total and the second seco																		
LHA DE0008232125 823212 B OPEN 15,300 15,300 101.0000 103.1200 2 19.03.2019 10:08:45.203 ABCXETRD002 ABCXETRD002 103.0000 15300													-						BestQuoteAskQt
	9	.HA	DE0008232125	823212	S	OPEN	500	500	102.0000	104.2000	2	19.03.2019 12:42:33.0	29	ABCXETRD002	ABCXETRD002	500	102.0000		
LHA [®] DE0008232125 823212 B OPEN 1,200 1,200 2 19.03.2019 10:07:14.931 ABCXETRD002 ABCXETRD002	з I	.HA	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 1	.HA `	DE0008232125	823212	в	OPEN	1.200	1.200			2	19.03.2019 10:07:14.9	31	ABCXETRD002	ABCXETRD002				

Fig. 74: 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 profile, product or instrument filter.

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. For multi currency instruments in format ISIN.CUR
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.
	 Suspended: Staged negotiation which is not yet active.
TotQty	Total quantity of Xetra EnLight negotiation
MySellLimit	Requesters sell limit.
MyBuyLimit	Requesters buy limit.
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.
BestQuoteBidQty	Quantity of best bid Quote
BestQuoteBid	Best bid Quote
BestQuoteAsk	Best ask Quote
BestQuoteAskQty	Quantity of best ask Quote

T7 Trader, Admin and Clearer GUI - Manual

AutoExType	Price criterion of AutoExecution, consisting of the reference price and an offset on it. The reference price can be as follows: <i>MidPointBBO</i> : the midpoint of the published order book of the corresponding market <i>BestBid</i> : BestBid of the published order book of the corresponding market <i>BestAsk</i> : BestAsk of the published order book of the corresponding market <i>LimitPrice</i> : Requester defined limit price <i>None</i> : AutoExecution disabled
ShowSide	Reveal side to responders if ticked. Valid for Auto Execution only.
AutoExExp	Duration of AutoExecution in mm:ss time format (kindly check tooltip of the entry field). Must be entered by requester. Can be saved in properties.
AutoExLimit	Limitprice value for AutoExecution.
MinNoOfQuotes	Minium number of quotes for AutoExectution.
AutoExPrcOffset	Price offset for AutoExecution in product specific ticks (negative value allowed).

3.3.8 Xetra EnLight Request Details

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

Cash GUI 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 *RfQMinValue* in Xetra EnLight views.

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

AutoEx Midpoint BBO Using one of the *AutoExType* parameter, the requester can define a price criterion for the quotes, which if fulfilled leads to automatic execution with the corresponding quotes by the system. For details kindly refer to the AutoEx Midpoint feature further below.

Staging of RfQ A requester may enter an Xetra EnLight negotiation using an external interface, specifying only few basic data of the RfQ. Such a negotiation is marked by an ticked checkbox *SUSP* and *NegStatus SUSPENDED* in this view. To submit such a negotiation,

- all entered data needs to be validated,
- possibly missing data needs to be added,
- the SUSP checkbox needs to be unticked.

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 *RFQ Minimum Value* threshold for negotiations below the LIS value.

This area also features an top-of-book view (CLOB - *C*entral *L*imit *O*rder *B*ook) 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 may be set. If it is not provided the product specific maximum duration is used which is defined by the exchange.

Xetra EnLight Request Details - LHA						4 🛛 🗙
EnID Instrument SmartRFQ Buy-Side	StiDate			ISMinValue RFQMinValu	e ReportID	TesState
LHA DE0008232125		OPEN /	ABCXETRD001	5100 5100	_	ON
Phase Curr BQty Bid Ask AQty LstPrc LstQty High Low Vol	LstTrdTime LstTrdDate LstTimeRFO LstOtyRFO LstPrcRFO	AssetClass				
Gont EUR 122 99.999 100.000 122 102.0000	12:08:09 04.04.2022	EQUITY				
122 99.997 100.100 122 122 99.995 100.180 122						
Susp Firm/Indic Side ShowSide Qty NegExpiry	AutoExExp AutoExType		inNoOfQuotes AutoExP	PrcOffset		
Firm B/S 500 hh:mm:ss	hh:mm:ss.5 None LimitPrice MidPointBBO () BestBid 🖲 BestAsk				
BidQty Bid Ask AskQty AckStatus Responder	nt RespondentLegalName					
/ MySellLimit / MyBuyLimit						
ТоВ						
■ TSTFRTRD009 (t9)						
DXEXETRD002 (de ABCXETRD007	9) AUGSBURGER AKTIENBANK AG					
Act ClientID Text1 Text2	MIOrdNo LiPrv InvID InvQua					
A1 97896575 pre111 pre222	preMIO444 HUMA	N				
😻 Submit 🔍 End Session			👗 Add Respondent	🤽 Remove Respondent	😸 Save Resp List	P Duplicate

Fig. 75: Screenshot of the Xetra EnLight Request Details view depicting enabled AutoExType

The lower area of the *Xetra EnLight Request Details* features the respondent table, favorites row and the Requester's clearing fields. In the respondent table, current (and historic) quotes of the participating respondents are displayed. The requester may specify preferred values for bid and ask (clicks on CLOB prices get copied in). To allow for a compact display, initially some fields of the respondents table are hidden, e.g. *RespondentsCount, QuoteID*. These can be displayed by right-clicking on any column header of the table clicking Show/Hide and the desired column name. Respondents can be saved in a favorite list for quick retrieving for upcoming negotiations. The favorites row below the respondent table can hold up to five entries. Start and stop editing this list is done by clicking on the pencil icon right off this list. Below the favorites, the requester may enter the clearing details which are mandatory for completing a negotiation. Those data can be saved in the respective properties of the view.

Functions provided on the Xetra EnLight Request Details:

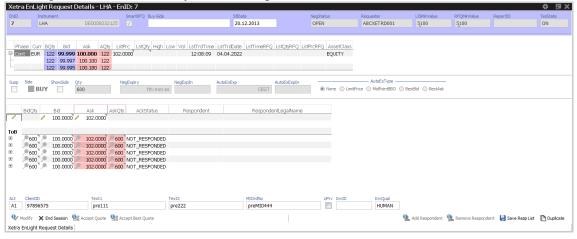
• AutoEX Midpoint: Support the requester by automatically comparing the available quotes against a specified price criterion. If a quote fulfils the price criterion at the end of the users defined quote collection duration (*AutoExExp* timer) it is matched automatically. If more than one quote would match, one is chosen randomly. For *AutoEX Midpoint* the side must be specified while ticking *ShowSide* (to the respondents) is optional. The requester can specify following criteria:

Fig.

- Minimum number of quotes
- Price criterion consisting of the reference price and an offset (in product specific ticks) on it, where the reference price can be
 - * MidpointBBO midpoint of the best bid and best ask of the CLOB (*C*entral *L*imit *O*rder *B*ook) of the corresponding market
 - * Best Bid or Best Ask of the CLOB
 - * Requester defined limit price

All AutoEX Midpoint parameters may be defined in the respective properties of the view.

• 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.



76: 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.

T7 Trader, Admin and Clearer GUI - Manual

 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. Kindly refer to Xetra EnLight deals (→ 3.3.12 Xetra EnLight Deals) for a description of that view.

Available fields of the Xetra EnLight Request Details entry form:

Field	Description					
EnID	The ID of this Xetra EnLight Request. Display only.					
Instrument	Instrument short name (symbol), or WKN, or ISIN, for multi currency instruments <isin.cur>. The context menu offers the following columns of information: Instrument short name, WKN, ISIN, CURR 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, e.g. for multi currency instruments the ISIN is only unique with the currency.</isin.cur>					
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	Free message text field.					
SettlementDate	Settlement date of instrument.					
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. 					
	 Suspended: Staged negotiation which is not yet active. 					
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.					
ReportID	Report ID					
TesState	TES State of the product					
Susp	Negotiation is suspended (staged) and needs yet to be activated.					

T7 Trader, Admin and Clearer GUI - Manual

ShowSide	Reveal side to responders if ticked. Valid for Auto Execution only.
Side	Buy or Sell Side of Xetra EnLight negotiation request.
NegExpiry	Expiry duration of negotiation event. If not entered by requester a system default is used. Can be saved in properties.
AutoExExp	Duration of AutoExecution in mm:ss time format (kindly check tooltip of the entry field). Must be entered by requester. Can be saved in properties.
AutoExType	Price criterion of AutoExecution, consisting of the reference price and an offset on it. The reference price can be as follows: <i>MidPointBBO</i> : the midpoint of the published order book of the corresponding market <i>BestBid</i> : BestBid of the published order book of the corresponding market <i>BestAsk</i> : BestAsk of the published order book of the corresponding market <i>LimitPrice</i> : Requester defined limit price <i>None</i> : AutoExecution disabled
MinNoOfQuotes	Minium number of quotes for AutoExectution.
AutoExPrcOffset	Price offset for AutoExecution in product specific ticks (negative value allowed).

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.

T7 Trader, Admin and Clearer GUI - Manual

Legal Name	Legal name of respondent.
QuoteID	ID of the Xetra EnLight Quote. This field is hidden by default.

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	<i>MemberInternalOrderNo</i> - 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.

3.3.9 Xetra EnLight Request History

The *Xetra EnLight Request History* view shows a history log of all past Xetra EnLight requests of the current business day 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. Kindly note that there is no third level provided here, to show also the quote history.

T7 Trader, Admin and Clearer GUI - Manual

	CVETRO002			StartTime		AskQty	HSK.	sidQty Bid	PrefAsk	PrefBid	OpenQty	TotalQty	EnableSmartSRQS	B/S	Instrument	InID
	JCALIRDOUZ	ABCXETRD002	905	25.03.2019 12:53:10								1,002	FALSE	В	LHA	4
RTRD002 CBKFRTRD002	CXETRD002 CBKFRTRD002				2	1,002	102.0000				1,002			в		
RTRD002	CXETRD002 DBKFRTRD002										1,002			В		
RTRD002	BCXETRD002 DBKFRTRD002										1,002			В		

Fig. 77: 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.
	 Suspended: Staged negotiation which is not yet active.
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.

T7 Trader, Admin and Clearer GUI - Manual

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 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.
ShowSide	Reveal side to responders if ticked. Valid for Auto Execution only.
AutoExExp	Duration of AutoExecution in mm:ss time format (kindly check tooltip of the entry field). Must be entered by requester. Can be saved in properties.
AutoExLimit	Limitprice value for AutoExecution.
MinNoOfQuotes	Minium number of quotes for AutoExectution.
AutoExPrcOffset	Price offset for AutoExecution in product specific ticks (negative value allowed).
ClosureReason	Reason why a negotiation didn't create a deal for AutoExecution scenarios.

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.

3.3.10 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. An "auto-pulling" of a sent quote, i.e. an time-based quote expiry may be enabled by entering a duration into the *Pull-InTimer* field, whose value must not be smaller than the value of the related property.

Cash GUI 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 *RfQMinValue* in Xe-tra 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*. The quote size is calculated as "quantity * quote price" for unit quoted instruments (e.g. equities) and quantity alone for percentage quoted instruments (Bonds).

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

ID Instrument LHA	DE0008232125 510	linValue RFQMinValue 0 5100	StlDate 20.12.2013		NegStatus OPEN	AddStatus NOT_RESPONDED	Requester ABCXETRD004
Phase Curr BQty Bid Iont EUR 122 99.993 122 99.993 122 99.993	7 100.100 122		LstTrdTime LstTrdDate LstTimeRFQ 12:08:09 04.04.2022	LstQtyRFQ LstPrcRFQ AssetC			
n/Indic Side	Qty BuyLinit 333	SellLimit Ne	gExpiry NegExpIn hh:mm:ss	Notional Buy-Side 33966.0000000		Legal Name Requester AUGSBURGER AKTIENBANK AG	
ety + Bid	+ Ask 100	+ AskQty Pull- 333	InTimer Pull-InCntDown mm:ss				
ClientID 123	Text1	Text2	MIOrdNo	LiPrv InvID	InvQual HUMAN		
🖊 Submit Ouote 🛚 와 Delet	e Quote 🗸 Working 🍳	NoFund 🗸 Dedine					

Fig. 78: 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. Kindly refer to Xetra EnLight Deals (→ 3.3.12 Xetra EnLight Deals) for a description of that view.

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

T7 Trader, Admin and Clearer GUI - Manual

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	Instrument mnemonic and ISIN 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.
	 Suspended: Staged negotiation which is not yet active.
AckStatus	Acknowledgement status of the respondent. e.g. RESPONDED, DECLINED.
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.

T7 Trader, Admin and Clearer GUI - Manual

PrefAsk	Preferred Ask price as specified by the requester.									
NegExpiry	Expiry duration of negotiation event.									
NegExpIn	Remaining expiry duration of negotiation event.									
Notional	Notional value (quantity * reference price) of the request.									
BuySide	Free message text field.									
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.									
Pull-InTimer	<i>Quote Expiry timer.</i> Entered as a duration which must not be smaller than the value of its property. Submitting a new quote restarts the timer.									
Pull-InCntDown	Quote Expiry countdown. display only.									
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	<i>MemberInternalOrderNo</i> - 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.									

3.3.11 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:

Eni	Instrument	ISIN	WKN	B/S	NegStatus	LstQuoteState	NoFillReason	Qty	PrefBid	PrefAsk	BidQty	Bid	Ask	AskQty	Buy-Side	LastUpdateTir
4	LHA	DE0008232125	823212	в	OPEN	DECLINED		4,550							anonymousON	29.05.2020 08:33:
3	LHA	DE0008232125	823212	в	CLOSED	RESPONDED	PRICE	4,000					102.0400	4,000	anonymousON	29.05.2020 08:33:
3	LHA	DE0008232125	823212	в	OPEN			4,000					102.0400	4,000	anonymousON	29.05.2020 08:30:
3	LHA	DE0008232125	823212	в	OPEN			4,000					102.0200	4,000	anonymousON	29.05.2020 08:30
3	LHA	DE0008232125	823212	в	OPEN			4,000					102.0000	4,000	anonymousON	29.05.2020 08:29
2	LHA	DE0008232125	823212	S	CLOSED	TRADED		1,500			1,500	100.0600				29.05.2020 08:21
1	LHA	DE0008232125	823212	в	CLOSED	RESPONDED		3,000	101.0000	103.1000			101.2400	3.000		29.05.2020 08:30

🕒 Enter Quote 🗙 Delete Quote 🔗 History

Fig. 79: 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. Display only.								
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.								
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.
Text	A free text message which can be used by the respondent to provide additional information to the requester.
QuoteID	ID of the Xetra EnLight Quote. Display only.
LastUpdateTime	Timestamp of the last change of quote.
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>

3.3.12 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.

Xet	ra E	nLight [)eals																				Ö 🖥 🖬	🛯 🔛 🗙
			rument	😭 Edit 💋	•																		Quick Fi	nd 🙉
6	nID	EnDealID	Instrument	ISIN	WKN	B/S	TesTrdID	Price	Qty	DealStatus	Respondent	DealTime	ExpireTime	ExpiresIn	ReportID	Status	Text	DealReportID	DealLastUpdate	BidQty	Bid Ask	AskQty	BestBidQty	BestBid
	13	4	MOB	DE0006622400	662240	S		19.0000	250	FINAL	CBKFRTRD001	19.03.2019 15:00:09.912				CLOSED			19.03.2019 15:00:09.912					
	4	3	LHA	DE0008232125	823212	в		102.2000	20.000	FINAL	CBKFRTRD001	19.03.2019 14:58:59.100				CLOSED			19.03.2019 14:58:59.100					
	12	2	LHA	DE0008232125	823212	в		103.0000	600	FINAL		19.03.2019 14:48:00.156				CLOSED			19.03.2019 14:48:00.156					

Fig. 80: Screenshot of the Xetra EnLight Deals view

Available fields of the Xetra EnLight Deals view:

Field	Description
EnID	The ID of this Xetra EnLight Request. Display only.

T7 Trader, Admin and Clearer GUI - Manual

EnDealID	Xetra EnLight deal ID.								
B/S	Buy or Sell Side of Xetra EnLight negotiation request.								
Price	Price of the Xetra EnLight deal.								
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.								
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.								
AutoExType	Price criterion of AutoExecution, consisting of the reference price and an offset on it. The reference price can be as follows:MidPointBBO: the midpoint of the published order book of the corresponding marketBestBid: BestBid of the published order book of the corresponding market BestAsk: BestAsk of the published order book of the corresponding market LimitPrice: Requester defined limit price None: AutoExecution disabled								

3.3.13 Xetra EnLight Historic Data

The Xetra EnLight Historic Data view allows a requester to inquire historic Xetra EnLight negotiations for up to two years. To display data for the current business day kindly use the Xetra EnLight Request History view, chapter 3.3.9.

A requester has to provide at least a date before any information is shown, but may also filter for deal status and respondent name. Only fully completed transactions, e.g. that have reached the status FINAL are displayed. From the negotiation event only the final record is shown, i.e. only

the last quote of each respondent available at the end of the negotiation event. The *Xetra EnLight Historic Data* view lists the hierarchy of requests as root (level1). Expanding the root will bring the participating respondent(s) and deal (of the last quote) of the selected request to display. The displayed data items comprise data from the views Xetra EnLight Request, Xetra EnLight Responder and Xetra EnLight Deals.

29.	07.2	021	DealStatus	Ent	eringRespor	ident	C	•									DetailLevel F	ull View 🔻
E	nID	Instrument	ISIN	WKN	SmartRFQ	B/S S	ShowSide	NegStatus	DealStatus	TotalQty	PrefBid	PrefAsk	Curr	StartTime	0	ReportID	EnteringRequester	RequesterLegalNa
	80	ADS	DE0005003404	500340	1	S		CLOSED		10,000			EUR	29.07.2021 17:10:	45 C	ENL_0620	ABCXETRD001	TST Xetra Trader
	79	ADS	DE0005003404	500340	1	S		CLOSED		10,000			EUR	29.07.2021 17:10:	45 C	ENL_0620	ABCXETRD001	TST Xetra Trader
۰. ا	79	ADS	DE0005003404	500340		S			FINAL									
	26		IE00B3VTN290	000A0X8SM	1			EXPIRED		100,000			EUR	29.07.2021 17:10:	45 C	ENL_0690	ABCXETRD001	ABC Xetra Trader
	81		IE00B3VTN290	000A0X8SM	\checkmark			EXPIRED		10,000			EUR	29.07.2021 16:26:	45 C	ENL_0650	ABCXETRD001	ABC Xetra Trader
2	78	ADS	DE0005003404	500340	\checkmark	S		CLOSED		10,000			EUR	29.07.2021 16:26:	02 C	ENL_0620	ABCXETRD001	TST Xetra Trader
·	78	ADS	DE0005003404	500340		S			FINAL									
P	Dup	icate																

Fig. 81: Illustrative screenshot of Xetra EnLight Historic Data view

The *Xetra EnLight Historic Data* view lists the hierarchy of requests as root (level1). Expanding the root will bring the respondent and deal (of the last quote) of the selected request to display.

- Level 1: Historic negotiation request from the requester entry
- Level 2: The list of respondents for the selected request, including the quote details in the same row.

When clicking a requester row twice (or use *Duplicate*), a *Xetra EnLight Request Details* view opens pre-filled with the associated deals display. Please note that this functionality is limited as e.g. instruments and users might not exist anymore, leading to missing fields in the new request.

Field	Description
RptDate	Mandatory filter for the creation date of the historic negotiation, at maximum 2 years back in time.
DealStatus	Filter according to the status of the deal, e.g. only select fully completed transactions (e.g. FINAL).
EnteringRespondent	Allows to filter for negotiations with a specific responder.

Available filter fields of the Xetra EnLight Historic data view:

Available actions on the Xetra EnLight Request history view:

Action	Description
Duplicate	Selected Xetra EnLight Request will be used as template for a new Xetra EnLight negotiation. May function limited only as instruments or respondents may not exist anymore.

For a description of fields of this view kindly refer to the aforementioned views Xetra EnLight Requester, Xetra EnLight Responder, Xetra EnLight Deals.

3.3.14 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. Kindly note that this alert cannot be deleted but deactivated or modified if required.

Alert Configuration	X
Alert Configuration Define events an audio or visual notification should be triggered for.	7
Incoming Xetra EnLight Group Quote - Xetra EnLight Request Details - ACTIVE - MANDATORY	e
Incoming Xetra EnLight Group Audio & Popup 🛛 alarm.wav 🖓 🕨 when: Xetra EnLight Requ 🛡 added 🛡	
Event Filter: Prof/Prod/Instrument C Edit > 0 Active * ABCXE	
Alert Fields: EnID 💌 Background:	
Incoming Xetra EnLight Group Deal - Xetra EnLight Deals - ACTIVE - MANDATORY	e
Incoming Xetra EnLight Group Audio & Popup 🛛 cashreg. wav 🖓 🕨 when: Xetra EnLight Deal 🛡 added 🛡	
Event Filter: Prof/Prod/Instrument Celt * ABCXE	
Alert Fields: EnID 💌 Background:	
Incoming Xetra EnLight Group Request - Xetra EnLight Responder - ACTIVE - MANDATORY 😨 Deactivate 👒 Delet	e
Incoming Xetra EnLight Group Audio & Popup 🗢 cheer.wav 🗢 🕨 when: Xetra EnLight Rest 🖉 added	
Event Filter: Prof/Prod/Instrument K Edit Blocked 🗸 Active 🔹 ABCXE	
Alert Fields: EnID 💌 Background:	
Add X Close View Vok	pply

Fig. 82: 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 Requ	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. For multi currency instruments in format ISIN.CUR
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> .

T7 Trader, Admin and Clearer GUI - Manual

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.
Text2	Free format text field 2.
MIOrdNo	<i>MemberInternalOrderNo</i> - text field for special purposes. Can be filled up to 16 characters.
ClientOrdID	Client order number.
OrdNo	Order number generated by Cash Markets application.
OrdVer	Order version number.
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.
VDO	Volume Discovery Iceberg Order.
ТаС	if TRUE, order participates in <i>Trade At Close</i> phase.

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	ピ Edit 💋									Qu	iick Fi	nd 🦚
OrderHistoryType	ISIN C	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. 83: 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:

Kindly 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
MarketSeg	Legal Market segment code

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.

Tra	des													1	\$	Ъ	E X
	OWN ADS (DEO	005003404) 1	Edit	g -	·										Quick I	ind 🙉
	Instrument	TrdTyp	L/M	B/S	OrdQty	ExeQty	Prc	ojc	P/F	Res	StopPrice	Triggered	Grp	Trader	Act	PInd	TrdID
ADS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0 EUR	С	F				GR1	TRD001	A1	γ	2
ADS	(DE0005003404)	REGULAR	LIMIT	S	1	1	5403.0 EUR	C	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	Р				GR1	TRD001	A1	Y	3
ADS	(DE0005003404)	REGULAR	LIMIT	В	1000	20	5403.0 EUR	C	Р				GR1	TRD001	A1	Y	6
ADS	(DE0005003404)	REGULAR	LIMIT	S	20	20	5403.0 EUR	С	F				GR1	TRD001	A1	Y	6
AccE	BuyQty	AvgB	uyPrc		A	vgSellPrc			AccSe	llQty							
i	Clear Table	🕻 Rel. <u>T</u> ra	des 🧲	Rel.	Order Hist	tory											

Fig. 84: 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. For multi currency instruments in format ISIN.CUR

T7 Trader, Admin and Clearer GUI - Manual

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. 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 number. Also known as tradeNumber when used on e.g. Reports.
MatchStepID	Match Step ID.
OrdNo	Order number generated by Cash Markets application.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	<i>MemberInternalOrderNo</i> - text field for special purposes. Can be filled up to 16 characters.
ClientOrdID	Client order number.
BU	Owning Business Unit.
Grp	User group of the owning user.

T7 Trader, Admin and Clearer GUI - Manual

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.

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T7 Trader, Admin and Clearer GUI - Manual

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
CpnRate	<i>Coupon Rate.</i> May be empty if there are multiple ones which were used for the accrued interest calculation.
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.

Trades																	- #	- B	E X
		r	Edit	Up to:	Expiry	Strike	+/-		V 5	s 🖌 (ີ 🖬 🗖]					*	Quick Fi	nd 🍂
Contract ²	TrdTyp	L/M	B/S	OrdQty	ExeQty	Prc		o/c	P/F	Res	StopPrice	Triggered	Grp	Trader	Act	PInd	TrdID	TrdState	TrdIt
	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	Y	5	NEW	
	REGULAR	LIMIT	S	100	10	10.0	EUR	0	F				GR1	TRD001	A1	γ	16	NEW	
	REGULAR	LIMIT	S	100	10	10.0	EUR	0	Р				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	
4	REGULAR	LIMIT	в	1	1	10.0	EUR	0	F				GR1	TRD001	A1	Y	17	NEW	
	REGULAR	LIMIT	в	2	2	120.01	EUR	0	F				GR1	TRD001	A1	Y	1	NEW	
				1															
AccBuyQty		Ava	BuyP	rc		AvaSellPro				Acc	SellQty								
, , ,						10.00000	0			10									
👬 Clear Ta	able Add	Vola Tra	ade	-C F	Rel. Trade	s .													

lelated Tr	ades for	OrdNo	o 14	556139	912646	5000013														Q	B >
Contract	TrdTyp	L/M	B/S	OrdQty	ExeQty	Prc	O/C F	/F Res	StopPrice	Triggered	BU	Grp	Trader	Act	PInd	TrdID	TrdState	TrdItemID	ClgQty	ClgPrc	
	REGULAR	LIMIT	S	100	10	101.0 EUR	0	P			ABCFR	GR1	TRD001	A1	γ	7	NEW	1200			
	REGULAR	LIMIT	S	100	90	101.0 EUR	0	F			ABCFR	GR1	TRD001	A1	Y	8	NEW	1300			
	Ac	cQty			Avg	Prc					MatchQty	1		M	latchPr	c		F	temQty		
Contract (S)		cQty 00			_	Prc 1.000000			rade (S) :		MatchQty 100	,			latchPr 101.00				lemQty FULL MAT	тсн	

Fig. 85: 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:

Trade summary columns:

Field	Description
Instrument	Instrument short name
ISIN	ISIN of the instrument. For multi currency instruments in format ISIN.CUR
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.

T7 Trader, Admin and Clearer GUI - Manual

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.
TrdReportID	Trade number. Also known as tradeNumber when used on e.g. Reports.
MatchStepID	Match Step ID.
OrdNo	Order number generated by Cash Markets application.
Text1	Free format text field 1.
Text2	Free format text field 2.
MIOrdNo	<i>MemberInternalOrderNo</i> - text field for special purposes. Can be filled up to 16 characters.
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.
CCPCM	CCP clearing member.
KVNo	Kassenvereins-Nummer.
StlLoc	Settlement location.
StlAct	Settlement account.
Cpty	Counterparty member.
CptyKVNo	Counterparty Kassenvereins-Nummer.

Deutsche Börse Group Version 11.0

T7 Trader, Admin and Clearer GUI - Manual

CptyStlLoc	Counterparty settlement location.
CptyStlAct	Counterparrty settlement account.
CtpyCM	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. For multi currency instruments in format ISIN.CUR
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	<i>MemberInternalOrderNo</i> - text field for special purposes. Can be filled up to 16 characters.
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

T7 Trader, Admin and Clearer GUI - Manual

Issuer	Name of Issuer.
RegID	Regulatory ID
SettlDate	The settlement date of the TES trade; has to be greater than the current business date.
SettlInst	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.
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.
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.
Trades	Total number of trades (counted match steps) of all instruments associated to the product.
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.
VDOTrades	Number of trades resulting from VDO midpoint 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. For multi currency instruments in format ISIN.CUR
WKN	WKN of the instrument (if available)
Instrument	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
CovInd	Cover Indicator
CovActivdate	Cover activation date

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	Eugged-in User (Orders only)			
4. Finish	Single User (Orders only)			
	Session (Quotes only)			
	Business Unit (Orders, Quotes or Orders and Quotes)			
	▲ Back ▲ Mext Image: Finish	I	Reset	:

Fig. 86: Screenshot of the Risk Controls view

Kindly 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 double click onto the status bar to open the *Risk Controls - Log Messages*.

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).

News	Board							🐥 🕞 🖻 🗙
SYS	TEM-NEWS	MS-NE	ews 🗌 gui 🗌 legal 🗌	RISK 🗌	SYSTEM > 10.09.2015	05:00:00 🞜 💌		Quick Find 🏀
Source	Type	Market	Time	Instr	ISIN	Title		
GUI	🕄 Info	XETR	10.09.2015 12:00:48.166	BMW	DE0005190003	Enter request	SIMPLE type=XETR	trdMtchPrc=6000 qty=
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	: XETR							
Title:								
Enter	request							
Messac	e Text:							
STMPL	E type=XET	R TES tro	dMtchPrc=6000 qty=1000 o	/c=0 act:	=[1218=4 1059=1]			
					[1210 // 1005 1]			

Fig. 87: 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.

Kindly 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

Kindly 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							*	- G - E
Alt-Drag Column Hea	der here 💋 💌							Quick Find
BUShortName	Session B Session Name	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_51	4	STANDARD_LOW_FREQUENCY	5	STANDARD_HF_LIGHT	true	true	
47 ABCFR	309317 ABCFR_LHFBO_5	l 4	STANDARD LOW FREQUENCY	4	STANDARD_LF_LIGHT	true	false	

Fig. 88: 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.

Following actions are available on *Bandwidth Monitor* view:

Action	Description
Force GUI Shutdown	Send a freetext warning message and shutdown this session. A time intervall for shutdown can be specified in the message.
Send Admin Message	Send a freetext message to the selected GUI session.
Reset	Displayed maximum figures for bandwidth and latency can be set to 0 for the selected rows.

ernet: 0 LeasedLi	🖓 User: 1 Inter	uick Find										; 🗖	er here 🞜	umn Head	t-Drag Colu
	IP CGateway	Chart	Con.Type	MaxLatency	Latency (ms)	ax KBits/s	KBit/s M	reationDate	Version	Application	Legal Name	0	User	User 🚺	∟ Master L
os.name=Windo	:0000	0	LeasedLine	2	2	9	1 1:	2014 12:06:13	0.040.090		ABC BANK KGAA	RD001	abcfrtr 🌯	001_GUI	ABCFRTRD
											3.2014 12:06:13	1 25.0	ABCFRTRD001	M_GUI	
											3.2014 12:06:13	1 25.0	ABCFRTRD001	01_GUI /	
											3.2014 12:06:13	1 25.0	ABCFRTRD001	01_GUI /	
											3.2014 12:06:13	1 25.0	ABCFRTRD001	D1_GUI /	CFRTRD00
											3.2014 12:06:13	1 25.0	ABCFRTRD001	01_GUI /	

Fig. 89: Screenshot of the Bandwidth Monitor view

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.

> 31.01.2020 < 04.02.2020	Ра	ge Broker Audit Trail								‡ 7
MessageSenderReceiverTimeStampProductSymbolContractTradeIdMarketReceivedhello, regarding recent tes tradeDBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:14:44LHALHA14trueYeah, I entered it as agreed with XABCXETRD001_GUIDBKFRTRD001_GUI04.02.2020 14:15:01LHALHA14trueOK I check with himDBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:15:01LHALHA14trueFlineABCXETRD001_GUIDBKFRTRD001_GUI04.02.2020 14:15:01LHALHA14trueGot approvedDBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:15:01LHALHA14trueJust entered the BIG oneDBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:17:03LHALHA24trueCompletedABCXETRD001_GUIDBKFRTRD001_GUI04.02.2020 14:17:37LHALHA24truePerfect, thank you!DBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:17:37LHALHA24true	>	31.01.2020 < 04.0	02.2020 💋 💌							Qui
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 14:15:01 LHA LHA 1 4 true Got approved DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:15:01 LHA LHA 1 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 04.02.2020 14:17:03 LHA LHA 2 4 true Completed ABCXETRD001_GUI 04.02.2020 14:17:03 LHA LHA 2 4 true Completed ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:17:03 LHA LHA 2 4 true Completed ABCXETRD001_GUI DBK			Sender			ProductSymbol	Contract	TradeId	Market	Received
OK I check with him DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:15:19 LHA 1 4 true Fline ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:15:30 LHA 1 4 true Got approved DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:16:15 LHA 1 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 DBKFRTRD001_GUI 04.02.2020 14:17:13 LHA LHA 2 4 true Completed ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:17:13 LHA LHA 2 4 true Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:37 LHA LHA 2 4 true	hella	, regarding recent tes trade	DBKFRTRD001_GUI	ABCXETRD001_GUI	04.02.2020 14:14:44	LHA	LHA	1	4	true
FilineABCXETRD001_GUIDBKFRTRD001_GUI04.02.2020 14:15:30LHALHA14trueGot approvedDBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:16:15LHALHA14trueJust entered the BIG oneDBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:17:03LHALHA24trueI see it, thanksABCXETRD001_GUIDBKFRTRD001_GUI04.02.2020 14:17:13LHALHA24trueCompletedABCXETRD001_GUIDBKFRTRD001_GUI04.02.2020 14:17:37LHALHA24truePerfect, thank you!DBKFRTRD001_GUIABCXETRD001_GUI04.02.2020 14:17:44LHA24true	Yeat	n, I entered it as agreed with	h X ABCXETRD001_GUI	DBKFRTRD001_GUI	04.02.2020 14:15:01	LHA	LHA	1	4	true
Got approved DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:16:15 LHA 1 4 true Just entered the BIG one DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:03 LHA 1 4 true I see it, thanks ABCXETRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:03 LHA 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	OK I	check with him	DBKFRTRD001_GUI	ABCXETRD001_GUI	04.02.2020 14:15:19	LHA	LHA	1	4	true
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 2 4 true Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:44 LHA 2 4 true	Fiine		ABCXETRD001_GUI	DBKFRTRD001_GUI	04.02.2020 14:15:30	LHA	LHA	1	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 2 4 true Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:44 LHA 2 4 true	Got	approved	DBKFRTRD001_GUI	ABCXETRD001_GUI	04.02.2020 14:16:15	LHA	LHA	1	4	true
Completed ABCXETRD001_GUI DBKFRTRD001_GUI 04.02.2020 14:17:37 LHA 2 4 true Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:44 LHA 2 4 true	Just	entered the BIG one	DBKFRTRD001_GUI	ABCXETRD001_GUI	04.02.2020 14:17:03	LHA	LHA	2	4	true
Perfect, thank you! DBKFRTRD001_GUI ABCXETRD001_GUI 04.02.2020 14:17:44 LHA LHA 2 4 true	I see	e it, thanks	ABCXETRD001_GUI	DBKFRTRD001_GUI	04.02.2020 14:17:13	LHA	LHA	2	4	true
	Com	pleted	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	Perf	ect, thank you!	DBKFRTRD001_GUI	ABCXETRD001_GUI	04.02.2020 14:17:44	LHA	LHA	2	4	true
	Hello), SPV speaking	ABCXETRD004_GUI	DBKFRTRD001_GUI	04.02.2020 14:22:39	LHA	LHA	1	4	true

Fig. 90: Screenshot of the Page Broker Audit Trail view showing TES messsages

4.2 View Descriptions: Risk & Security

4.2.1 Pre-trade Risk Limits

The *Pre-trade Risk Limits* view allows entitled participants to define and maintain limits for the daily maximum notional value of all entries, modifications and executions of orders and quotes per product and trading side.

Only products that have been defined to be eligible for the Pre-Trade Risk Limit check can be viewed

and maintained. Viewing and adding action for this view are controlled by two different entitlements.

This view is not updated automatically.

Pre-trade risk limits can be set for three risk limit types (-levels), separately for the buy and sell side:

- 1. Exchange level (EXCH_FOR_BU): Cash Market Supervision defines PTRLs for any Business Unit (BU) using the Cash Controller GUI.
- 2. Clearer level (CM_FOR_BU): Clearing members define PTRLs for their related non-clearing member using the Cash Clearer GUI. *Kindly note,* a Settlement Institute (SI) member will not be able to define PTRLs for its non-clearing members.
- 3. BU level (BU_RISK_GROUP): Properly entitled (admin) participant defining risk limits for its User Risk groups using the Cash Admin GUI.

BCXE	ETC1-Mar	etGroup	Edit BU_	RISK_GROUP	RiskGroupId	entifier	C -			
BusinessUnt	Symbol 6	RiskLimitType	A BU_I RiskGroupIden	RISK_GROUP	ShortAmountLimit	NetPosition	OpenLongValue	OpenShortValue	LongLimitViolation	ShortLimitViolation
ABCXE	ATS	BU_RISK_GROUP	CB1	5,555	4,444	0	0	0		
ABCXE	ATS	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	ISC	BU_RISK_GROUP	CB1	4,444	3,333	0	0	0		
ABCXE	ISC	BU_RISK_GROUP	CB2	1,444	2,444	0	0	0		
ABCXE	JPY	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	MOB	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	MOR	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
				_,	-,		_	_		

Fig. 91: Screenshot of the Pre-trade Risk Limit view, showing on-book limits filtered for a specific PAG and risk limit type

The entitled member must assign BU users to different User Risk Groups and then define pre-trade risk limits for these User Risk Groups. *User Maintenance* view is used to assign a specific risk group to an individual user.

New limits can be created by adding them manually or by importing them. When adding manually, Cash GUI provides a convenience feature **by duplicating all data entered** for the first record to all displayed records below. This allows for quick changes for e.g. all products in a specific product assignment group.

ABCXE	1	DAX1-MarketGroup	Ec	dit RiskLimit	Type R	iskGroupIdent	tifier 💋	▼		
A BusinessUnit	Symbol	RiskLimitType	RiskGroupIdentifier	LongAmountLimit	ShortAmountLimit	NetPosition	OpenLongValue	OpenShortValue	LongLimitViolation	ShortLimitViolation
ABCXE	ADS	BU RISK GROUP		1234	456					
ABCXE	ALV	BU_RISK_GROU	p	1,234	456					
ABCXE	BAYX	BU_RISK_GROU	P	1,234	456					
ABCXE	DB1	BU_RISK_GROU	P	1,234	456					
ABCXE	DTE	BU_RISK_GROU	Р	1,234	456					
ABCXE	FME	BU_RISK_GROU	P	1,234	456					
ABCXE	HEN3	BU_RISK_GROU	р	1,234	456					
ABCXE	LHA	BU_RISK_GROU	P	1,234	456					
ABCXE	RWE	BU_RISK_GROU	Р	1,234	456					
ABCXE	SAP	BU_RISK_GROU	Р	1,234	456					
ABCXE	SIE	BU_RISK_GROU	Р	1,234	456					

Fig. 92: Screenshot of the Pre-trade Risk Limit view, depicting how GUI duplicates data entry on first record

The view supports incremental updates, i.e. new limits can be added or existing limits can be

amended without affecting existing records which are supposed to remain unchanged. One example would be to set limits on Product Assignment Group (PAG) level by

- 1. using the Prof/Prod/Instrument filter to display records for a specific PAG,
- 2. export this subset,
- 3. import the amended subset without affecting other records.

After an import the view needs to be refreshed to display all limits records again. Deleting limits has to be done manually in the view itself which is eased again by filtering the limits. Besides deleting individual limits, the Clearing Member may stop a dedicated member in a specific product by ticking the *DisableMember* flag. This disables entering orders/quotes and deletes existing ones.

Columns of the *Pre-trade Risk limits* view:

Field	Description
BusinessUnit	Business unit name of the user.
Symbol	Product name.
RiskLimitType	Risk group level, e.g. EXCH_FOR_BU CM_FOR_BU BU_RISK_GROUP
RiskGroupIdentifier	The name of the User Risk Group the user belongs to inside the business unit. Every user can only belong to one group.
LongAmountLimit	Maximum long amount allowed.
ShortAmountLimit	Maximum short amount allowed.
NetPosition	Current market position for this limit. Display only.
OpenLongValue	Current open long value. Display only.
OpenShortValue	Current open short value. Display only.
LongLimitViolation	Flag indicating long limit violated. Display only.
ShortLimitViolation	Flag indicating short limit violated. Display only.
DisableMember	If ticked, all order/quotes for the selected member and product will be deleted and entry of new transactions will be blocked. Only Clearing Member may change this flag.

4.2.2 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.

4.2.3 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.

4.2.4 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).

4.2.5 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. Each enrichment rule is identified by a participant-defined number, ranging from 1 to 10,000.

The view is split into two different tabs - the *Trade Enrichment Rules Rules Current* tab showing the currently active rules, and the *Trade Enrichment Rules Preview* tab which allows creating rules which become active on the next trading day.

When the order/quote is executed, Cash Exchange's T7 will use the Trade Enrichment Rule ID supplied by the participant to look up the rule and then apply the corresponding clearing fields to the trade information sent to the clearing system and returned to the participant. Trade enrichment will be done by Cash Exchange's T7 trade manager and will be supplied on the trade confirmation to participants (not on the execution information from the matching engine).

Setting up trade enrichment rules

For each trade enrichment rule, participants must define a Trade Enrichment Rule ID and one or more of the following clearing fields:

- Free Text 1
- Free Text 2
- MemberInternalOrderNo

Updates to the trade enrichment rules only take effect on the next business day. Changes of trade enrichment rules can be done on the *Preview* tab of the *Trade Enrichment* view:

Users of the Cash ETI will specify the exact trade enrichment rule to be used at the time of execution of the quote or order entered using the short layout.

If the trade enrichment rule is missing or not valid, the clearing system will assign defaults, according to pre-defined logic. The default rules for the clearing account are described in the document "Cash Functional and Interface Overview".

4.2.6 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 reflect that the selection key for an auto approval rule has been enhanced with more attributes.

A TES Auto Approval Rule functionally consists of three parts:

- Unique name of the rule,
- Selection key,
- Pre-filled approval fields.

The **selection key** consists of mandatory and optional attributes for specifying the rule. If an *optional* attribute is specified, the approval rule has an higher priority to be matched than the same rule without this attribute being specified. The *optional* attributes are listed here **in order of matching priority** from high to low, e.g. the Enrichment Rule ID has the lowest priority among other specified attributes.

- User ID (Mandatory): The approving user for which the record is present
- Initiating User Name (Mandatory): Login name of the initiating user
- Product Assignment Group ID (Mandatory): ID of the product assignment group or the market wide group
- Product ID (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)
- 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).

The **approval fields** consisting of Clearing and MiFID fields and *additional criteria* fields. Thus the initiator is able to define clearing and MiFID data which gets automatically applied if the Auto Approval Rule is matching during TES entry. On setting up a approval rule, conditional validations on optional approval fields are done e.g. when the Trading Capacity is set to Agency, the Client Identifier must be provided as well. An *additional criteria* is e.g. field MaxTradeValue, as its value is evaluated before applying a possibly matching rule. Kindly refer to below table for a full list of optional fields and their validation rules.

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.

Deutsche Börse Group

T7 Trader, Admin and Clearer GUI - Manual

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.

4.2.7 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	(-										
P II	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. 93: 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	Encrypted four character code for authorization when contacting Cash Market Supervision to reverse trades or mistrade handling.
MaxOrderValue	Maximum order value for user. Based on calculation Qty times (order) Limit.
MaxOrderQty	Maximum order quantity for user. Conditional mandatory based on market parameter OrderQtyValidationRule.
UOWId	UnitOfWork Identifier

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, kindly 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

Kindly 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. 94: 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		Exch Roles						
1. General Attributes	Assi	gnment of on-E	xchange roles on MarketGrou	p level.				
	Proc	duct:	ProductId:		G	MarketGroup:		
2. On-Exch Attributes	+	MarketGroup	Description	TRADI	NG VIEW	CASH MARKET MAKER	CASH TRADEF	
3. On-Exch Roles	+	BOND	Market Group for Bonds					
	+	BOND_ISR	Market Group for Bonds					
4. TES Attributes	+	CBK	Market Group CBK					
	+	DAX1	Market Group DAX1					
5. TES Roles	+	DBK	Market Group DBK					
5. TES Koles	+	ETC1	Market Group ETC1					
	+	MDX1	Market Group MDX1					
	+	WAR	Market Group for Warrants					

Fig. 95: 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.

Kindly 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					
. General Attributes	Maintenance of general attribut	es like Name, Categ	gory, UserGroup and Le	evel.		
. On-Exch Attributes	Id:	1172				
. On-Excit Attributes	Name:	TRD002				
. On-Exch Roles	LoginName:	ABCXETRD002				
. TES Attributes	Category:					
. TES Roles	UserGroup:	GR1				
. TES Roles	Status:	ACTIVE				
	EffectiveStatus:	ACTIVE				
	IsProtected:					
	NonCCP:	1				
	TradeAtClose:	V				
	Level:	HEAD_TRADER				
	MaxOrderValue:	999999999				
	MaxOrderQty:	9999999				
	PINCode:					
	BusinessUnit:	ABCXE		X	ETRA	
	DefaultSettlementAccount:	ABCXE	ABCXE	CBF	1000	XETRA
	PreferredSettlementAccount:	GSIXC	ABCXE	NEC	2228000071050XETR0CCP1	XETRA
	Accounts:	Agency 🗸	Proprietary 🗸	Market Making	Riskless Principal	✓ Issuer

Fig. 96: Screenshot of the User Maintenance Wizard showing the General Attributes tab

Field description of General Attributes :

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.

Deutsche Börse Group

T7 Cash Markets

T7 Trader, Admin and Clearer GUI - Manual

	-
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. This field is mandatory.
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 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 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.
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.
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.
TradeAtClose	Defines the default value for order entry if the individual flag per order is not set. If ticked, all regular orders that fulfill the opt-in constraints will participate in TaC phase.
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.
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.

Version 11.0

T7 Trader, Admin and Clearer GUI - Manual

User Maintenance Wizard ABCXETRD001 - On-Exch Attributes R X On-Exch Attributes Steps Maintenance of overall on-Exchange attributes. 1. General Attributes CASH LIQUIDITY PROVIDER 2. On-Exch Attributes CASH MARKET MAKER CASH SERVICE ADMINISTRATOR 3. On-Exch Roles CASH TRADER 📝 CASH USER DATA VIEW 4. TES Attributes TM TRADE OVERVIEW 5. TES Roles TRADE ENRICHMENT RULE TRADE ENRICHMENT RULE VIEW ▲ BACK ▲ NEXT ※ FINISH CANCEL

Fig. 97: 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 Wiza	ard ABCXETRD001 - TES Attributes 🛛 🗔 1
Steps	TES Attributes
1. General Attributes	Maintenance of overall TES attributes.
2. On-Exch Attributes	V ENLIGHT
3. On-Exch Roles	✓ CC
4. TES Attributes	
5. TES Roles	
	CANCEL

Fig. 98: 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.

On-Exch Attributes Product: Productid: ImarketGroup: ImarketGroup: ImarketGroup: ImarketGroup: ImarketGroup: On-Exch Roles ImarketGroup: ImarketGroup: ImarketGroup: ImarketGroup: ImarketGroup: ImarketGroup: ImarketGroup:	teps	TES	Roles								
On-Exch Attributes ImarketGroup Description TES BROKER TES TRADER TES VIEW On-Exch Roles ImarketGroup BOND MarketGroup for Bonds ImarketGroup	. General Attributes	Assi	gnment of TES I	oles on M	arket Group leve	l.					
Image: Market Group Description TES BROKER TES TRADER TES VIEW On-Exch Roles Image: BoND Market Group for Bonds Image: CBK		Proc	luct:		ProductId:		í	g I	4arketGro	up:	
On-Exch Roles BOND Market Group for Bonds Image: Constraint of the constraint of t	. On-Exch Attributes	+	MarketGroup)		TESP				TES VIEW	1
Image: CBK Market Group CBK Image: CBK I	On-Exch Roles	Ŧ				1001		< 16.		TED TIEN	-
TES Attributes DAX1 Market Group DAX1 Image: Constraint of the second data of the second da											
Image: Book of the second s	TES Attributes	+	DAX1								
TES Roles MDX1 Market Group MDX1		+	DBK	Market (iroup DBK						
MDX1 Market Group MDX1	TES Roles										
WAR Market Group for Warrants	ILS ROLES							_			
		+	WAR	Market (froup for Warran	ts					

Fig. 99: 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. 100: 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.

T7 Trader, Admin and Clearer GUI - Manual

Version 11.0

Assignment of on-Exchange roles on MarketGroup level.	Steps	On-E	Exch Roles						
2. On-Exch Attributes Imarket Group Description TRADING VIEW CASH MARKET MAKER CASH TRADER 3. On-Exch Roles Imarket Group for Bonds Imarket Group for Bonds Imarket Group for Bonds Imarket Group for Bonds 4. TES Attributes Imarket Group CBK Imarket Group DAX1 Imarket Group DAX1 Imarket Group DAX1 5. TES Roles Imarket Group ETC1 Imarket Group ETC1 Imarket Group ETC1 Imarket Group ETC1	1. General Attributes	Assig	gnment of on-E	xchange roles on MarketGrou	ıp level.				
Image: Construction TRADING VIEW CASH MARKET MAKER CASH TRADER 3. On-Exch Roles Image: Construction Image: Construction Image: Construction Image: Construction 3. On-Exch Roles Image: Construction Image: Construction Image: Construction Image: Construction Image: Construction 3. On-Exch Roles Image: Construction		Prod	luct:	ProductId:		C	MarketGroup:		
3. On-Exch Roles ① BOND_TSR Market Group for Bonds Image: Constraint of Bonds Image: Const	2. On-Exch Attributes	Ŧ	MarketGrout	Description	TRADING	VIEW	CASH MARKET MAKER	CASH TRADER	
Herein String Herein S	3. On-Exch Roles	Ŧ					J		
TES Attributes									
Int S Actiones IP DAX1 Market Group DAX1 Image: Comparison of the state of the stat	TES Attributes								
TES Roles B DBK Market Group DBK Image: Comparison of the compari	, TES Attributes	+	DAX1						
IES Roles ETC1 Market Group ETC1 Image: MDX1 Market Group MDX1		÷	DBK						
MDX1 Market Group MDX1	TES Roles	÷	ETC1						
Image: Ware of the second s		+	MDX1						
		+	WAR						

Fig. 101: 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.

Kindly 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		
'/, '=', '*', '#'] - min 1 uppercase letter and mi - min 1 special character - maximum number of repeated	9] and special characters: ['+', '- n 1 lowercase letter	
On Behalf ABCFRTRD001 Generated Password	Master User ABCFRSEC001_GUI Master Password New Password Confirm Password	
鐪 Generate Password		Apply X Cancel

Fig. 102: 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.

Kindly 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 properly 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 kindly refer to chapter 3.4.3 Trades.

5.2 View Descriptions: Risk & Security

5.2.1 Pre-trade Risk Limits

The *Pre-trade Risk Limits* view allows entitled participants to define and maintain limits for the daily maximum notional value of all entries, modifications and executions of orders and quotes per product and trading side.

Only products that have been defined to be eligible for the Pre-Trade Risk Limit check can be viewed and maintained. Viewing and adding action for this view are controlled by two different entitlements.

This view is not updated automatically.

Pre-trade risk limits can be set for three risk limit types (-levels), separately for the buy and sell side:

- 1. Exchange level (EXCH_FOR_BU): Cash Market Supervision defines PTRLs for any Business Unit (BU) using the Cash Controller GUI.
- 2. Clearer level (CM_FOR_BU): Clearing members define PTRLs for their related non-clearing member using the Cash Clearer GUI. *Kindly note,* a Settlement Institute (SI) member will not be able to define PTRLs for its non-clearing members.
- 3. BU level (BU_RISK_GROUP): Properly entitled (admin) participant defining risk limits for its User Risk groups using the Cash Admin GUI.

ABCXE	ETC1-	MarketGroup	Edit BU	RISK_GROUP	RiskGroupId	entifier	C -			
BusinessUnit	 Symbol	RiskLimitType	A BU_F RiskGroupIden	RISK_GROUP	ShortAmountLimit	NetPosition	OpenLongValue	OpenShortValue	LongLimitViolation	ShortLimitViolation
ABCXE	ATS	BU_RISK_GROUP	CB1	3,555	4,444	0	0	0		
ABCXE	ATS	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	ISC	BU_RISK_GROUP	CB1	4,444	3,333	0	0	0		
ABCXE	ISC	BU_RISK_GROUP	CB2	1,444	2,444	0	0	0		
ABCXE	JPY	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	MOB	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		
ABCXE	MOR	BU_RISK_GROUP	CB2	2,000	1,500	0	0	0		

Fig. 103: Screenshot of the *Pre-trade Risk Limit* view, showing on-book limits filtered for a specific PAG and risk limit type

The entitled member must assign BU users to different User Risk Groups and then define pre-trade risk limits for these User Risk Groups. *User Maintenance* view is used to assign a specific risk group to an individual user.

New limits can be created by adding them manually or by importing them. When adding manually, Cash GUI provides a convenience feature **by duplicating all data entered for the first record** to all displayed records below. This allows for quick changes for e.g. all products in a specific product assignment group.

ABCXE		DAX1-MarketGroup	Ed Ed	lit RiskLimit		iskGroupIdent	tifier 🛛 🞜	▼		
BusinessUnit	Symbol	RiskLimitType	RiskGroupIdentifier	LongAmountLimit	ShortAmountLimit	NetPosition	OpenLongValue	OpenShortValue	LongLimitViolation	ShortLimitViolation
ABCXE	ADS	BU RISK GROUP		1234	456					
ABCXE	ALV	BU_RISK_GROUP		1,234	456					
ABCXE	BAYX	BU_RISK_GROUP		1,234	456					
ABCXE	DB1	BU_RISK_GROUP		1,234	456					
ABCXE	DTE	BU_RISK_GROUP		1,234	456					
ABCXE	FME	BU_RISK_GROUP		1,234	456					
ABCXE	HEN3	BU_RISK_GROUP		1,234	456					
ABCXE	LHA	BU_RISK_GROUP		1,234	456					
ABCXE	RWE	BU_RISK_GROUP		1,234	456					
ABCXE	SAP	BU_RISK_GROUP		1,234	456					
ABCXE	SIE	BU_RISK_GROUP		1,234	456					

Fig. 104: Screenshot of the Pre-trade Risk Limit view, depicting how GUI duplicates data entry on first record

The view supports incremental updates, i.e. new limits can be added or existing limits can be amended without affecting existing records which are supposed to remain unchanged. One example would be to set limits on Product Assignment Group (PAG) level by

- 1. using the Prof/Prod/Instrument filter to display records for a specific PAG,
- 2. export this subset,
- 3. import the amended subset without affecting other records.

After an import the view needs to be refreshed to display all limits records again. Deleting limits has to be done manually in the view itself which is eased again by filtering the limits. Besides deleting individual limits, the Clearing Member may stop a dedicated member in a specific product by ticking the *DisableMember* flag. This disables entering orders/quotes and deletes existing ones.

Columns of the Pre-trade Risk limits view:

T7 Trader, Admin and Clearer GUI - Manual

Field	Description
BusinessUnit	Business unit name of the user.
Symbol	Product name.
RiskLimitType	Risk group level, e.g. EXCH_FOR_BU CM_FOR_BU BU_RISK_GROUP
RiskGroupIdentifier	The name of the User Risk Group the user belongs to inside the business unit. Every user can only belong to one group.
LongAmountLimit	Maximum long amount allowed.
ShortAmountLimit	Maximum short amount allowed.
NetPosition	Current market position for this limit. Display only.
OpenLongValue	Current open long value. Display only.
OpenShortValue	Current open short value. Display only.
LongLimitViolation	Flag indicating long limit violated. Display only.
ShortLimitViolation	Flag indicating short limit violated. Display only.
DisableMember	If ticked, all order/quotes for the selected member and product will be deleted and entry of new transactions will be blocked. Only Clearing Member may change this flag.

5.2.2 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.

T7 Trader, Admin and Clearer GUI - Manual

st	op Rele	ase Busii	ness	Unit							۰.	Ъ	3	X
3	IP Busir	nessUnit S	itate	StopTime	StoppedBy	OnBehalfOf	StopTimeClearer	StoppedByClearer	StopTimeMS	StoppedByMS				
	259 ABC>	ХE	0											
	260 DEF×	ΚE	0											

Fig. 105: 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

5.2.3 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 kindly refer to chapter 4.2.7 User Maintenance.

5.2.4 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 kindly refer to chapter 3.4.3 Trades.

6 Change Log

No	Chapter	Date	Change
8.1	4.1.4	30-JAN-2019	Page Broker Audit Trail view added
8.1	4.2.5	28-FEB-2019	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
9.0	3.2.1,3.3.1,3.4.1- 3,3.5.1.,4.2.6	24-JUL-2020	Xetra Best removal
9.0	3.3.1,3.4.1- 3,4.2.6	24-JUL-2020	Trade At Close
9.0	4.2.5	19-NOV-2020	TES Auto Approval Rule: Add selection key details
9.1	3.2.1, 3.5.2	15-JAN-2021	Attributes for Covers added
9.1.	3.2.1, 3.3.1	13-APR-2021	Updates for Accumulate Quantity property
9.1	3.2.1,3.2.3	20-MAY-2021	Renaming Bid/AskCnt to B/ACnt
10.0	1.3, 2.3.1,3.3.1, 3.3.3, 3.3.7	30-JUL-2021	Multi currency instruments
10.0	3.2.1,3.2.3	24-AUG-2021	Shortened Bid/Ask to B/A in Market* views
10.0	3.2.1,3.2.3	24-AUG-2021	Automated Corridor Expansion Model
10.0	(Whole document)	30-NOV-2021	Adapt ISIN description to multi currency
10.1	3.3.6-3.3.9	14-DEC-2021	Xetra EnLight AutoEX Midpoint
10.1	3.3.12	14-DEC-2021	Xetra EnLight Historic Request data
10.1	3.3.6-3.3.9	31-JAN-2022	Xetra EnLight staged negotiations
11.0	3.3.2,4.2.7,5.2.3	10-JAN-2022	New Pre-trade risk limits view
11.0	4.2.7,5.2.3	11-JUL-2022	PTRL view: new GUI features
11.0	2.8.4	16-SEP-2022	Text Field Config: search function enhanced
11.0	4.2.7,5.2.3	21-OCT-2022	PTRL view: Disable Member feature