

ISE T7 Release 5.0

Participant and User Maintenance Manual

Version 1.0

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Contents

1. Definitions and Abbreviations	4
2. Introduction	5
2.1 Purpose of this Manual	5
2.2 Maintenance Summary	5
2.3 Further Reading	5
3. Concepts	6
3.1 Products	6
3.2 Participant Structure	6
3.3 Users	7
3.4 User Roles	8
3.5 Entitlements	9
3.6 Maximum Order Value	9
3.7 Maximum Order Quantity	10
3.8 Trading Capacities	10
3.9 User Levels (Scope of Orders)	10
4. Pre-defined User Roles	12
4.1 Cash Service Administrator	12
4.2 Cash User Data View	13
4.3 Cash Trader	14
4.4 Cash Market Maker	14
4.5 Trading View	15
4.6 Emergency Trading Stop	15
4.7 Emergency Mass Deletion	16
4.8 Trade Enrichment Rule	17
4.9 Trade Enrichment Rule View	18
4.10 CM Backoffice View	19
5. Maintenance	20
5.1 Product Assignment Groups	20

5.2	Participant and Business Unit	20
5.3	Users	20
5.3.1	Adding a user	21
5.3.2	Modifying a user	22
5.3.3	Password Rules	22
5.3.4	Deleting a user	22
5.4	Risk Controls	23
5.4.1	Stopping Trading for User	23
5.4.2	Stopping Trading for a Business Unit	23
6.	Participant migration of Cash Market	24
7.	Appendix	26
7.1	Administrative roles	26
7.2	Order Book roles	27
7.3	T7 Admin GUI Windows	28
7.3.1	Welcome View	28
7.3.2	User Maintenance Wizard – General Attributes	29
7.3.3	User Maintenance Wizard – Order Book Attributes	30
7.3.4	User Maintenance Wizard – Order Book Roles	31

1. Definitions and Abbreviations

BU	Business Unit
CCP	Central counterparty
ETI	Enhanced Trading Interface
FIX	Financial Information eXchange (Protocol)
GUI	Graphical User Interface
ISE	Irish Stock Exchange plc
ISE T7	The future electronic trading system of the ISE, to be introduced on 17 th July 2017
ISE Xetra	The existing electronic trading system of the ISE
MOV	Maximum Order Value
T7	Cash and Derivatives trading system developed by Deutsche Börse Group
Xetra (system)	Existing Xetra trading system of Deutsche Börse
Xetra (trading venue)	Trading venue with Market Identifier Code "XETR" (Deutsche Börse)

2. Introduction

T7 operates the order book trading functionality for cash markets. ISE Xetra will migrate to the T7 platform with Release 5.0, launching on Monday 17th July.

T7 introduces new Graphical User Interfaces (GUIs) which enable Service Administrators in member firms (participants) to add and maintain users. This includes the maintenance and restriction of access to products, functions and entitlement, the order and quote volumes as well as the scope of orders, i.e. which orders can be acted upon.

2.1 Purpose of this Manual

This manual is intended to assist service administrators with maintaining participant and user related data in the T7 system.

The following areas are covered:

- Explanation of fundamental concepts.
- Pre-defined user roles (e.g. Cash Trader).
- Maintenance processes by service administrators.

2.2 Maintenance Summary

The equity related member reference data is fully incorporated in the T7 systems. The participant information, business units, user structure as well as entitlement will be maintained in T7 only.

2.3 Further Reading

The following documents provide additional information to complement this manual:

- T7 Functional and Interface Overview
- T7 Functional Reference
- Trader, Admin and Clearer GUI – Manual

These documents are available on the Xetra website www.xetra.com under:

Xetra > Technology > T7 trading architecture > System documentation.

3. Concepts

This chapter describes the fundamental concepts in T7 regarding products, participants, users, entitlements and risk limits.

3.1 Products

T7 includes a hierarchy containing product assignment groups, products and instruments. Instruments are the tradable entities, i.e. an order always refers to buying or selling a specified quantity of a certain instrument. Instruments of the same type can be grouped together to form products. However, every tradable instrument must belong to a product. Instruments of the same product are traded in the same way, i.e. trading parameters and trading schedules are defined for products rather than for individual instruments. A product is always associated with a product assignment group, which is used for entitlement and can be assigned to multiple product assignment groups simultaneously.

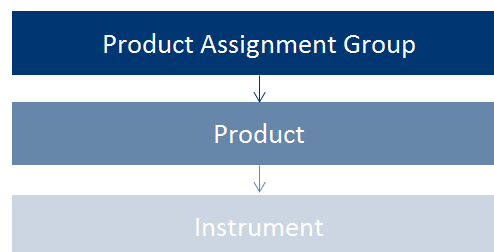


Image 1: Product structure

3.2 Participant Structure

The participant is an entity in T7 representing the member legal firm. Within a participant different units may exist that act independently from each other. These are so called Business Units (BU). There are two different types of BUs:

- Trading Business Unit
A trading BU is necessary in order to participate in trading.
- Clearing Business Unit
A Clearing BU receives trade notifications for the trades of the own trading BUs, as well as for the trades of the trading BUs of related NCMs.

A BU is represented by a business unit name, e.g. ABCDB in case of a trading business unit. For clearing business units "CL" is appended to this ID, i.e. to ABCDBCL to be able to distinguish both IDs easily.

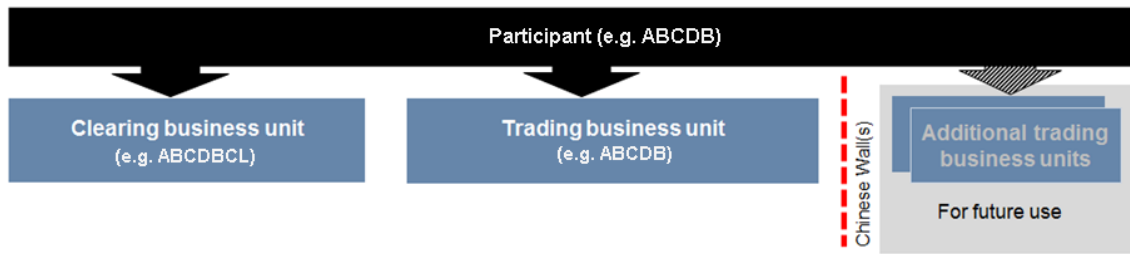


Image 2: Participant structure

Member data must be approved by the ISE. Currently in T7, a member can have up to two pre-defined business units. Trading members have one business unit designated for trading. Clearing members have one business unit designated for clearing. Clearing business units can receive all order book trade notifications from every trading member for whom they are the designated clearing member. If a member performs trading as well as clearing operations, it will have one trading and one clearing BU. Clearing members that also participate in trading activities will have both, a trading and a clearing business unit.

Every business unit has a business unit short name (e.g. clearing business unit "ABCDBCL"), as well as a unique numeric business unit ID.

3.3 Users

A user is a person, such as a trader or a service administrator that interacts with the ISE T7 system. A user may also be a machine, for example an order routing or quoting system. Every user of ISE T7 belongs to exactly one business unit. It is not possible to assign the same user to multiple business units. Since trading and clearing business units generally fulfil different tasks, the entitlement will deviate also.

Service administrators define a user short name (e.g. TRD001). The user short name is unique on member level, i.e. a user cannot have the same short name as another user, even if they are assigned to different business units. For example, if there is a user with user short name "TRD001" under the trading BU, it will not be possible to create another "TRD001" neither under the trading BU nor under the clearing BU of the same member. Combining the member ID (e.g. "ABCDB") with the user short name (e.g. "TRD001"), a user login name (e.g. "ABCDBTRD001") is generated, for use in the new Admin, Trader and Clearer GUIs.

Users have to be assigned to a user group. At least one user group has to be defined. Multiple user groups within the same business unit are optional. For example, user "TRD001" can be put in user group "ABC" (name of user group can be different to the first three digits of user ID). A user group is created automatically, when the first user is assigned to it.

T7 provides a PIN code functionality on user level. For each user an own PIN code can be entered in the system. It is not mandatory, as this is an optional field. PIN codes can be used to authorise the appropriate user with the ISE or Deutsche Börse via telephone in order to perform risk control operations, such as an emergency mass deletion. Users can view their own PIN in the login window

of the GUIs. It is important to note that users, who are assigned the Service Administrator role or the User Data View role, are also able to see the PIN codes of all other users within the same business unit.

3.4 User Roles

The T7 system provides a set of pre-defined user roles, configured and maintained by Deutsche Börse on behalf of the ISE. User roles offer participants a simplified approach to administration:

- Sets of resources (e.g. Add Order) are combined to define a logical user role (e.g. Cash Trader).
- A participant assigns roles to users, and multiple roles can be assigned to the same user (multiple user IDs are not needed).
- A user is granted entitlements for specific roles for specific product assignment groups (see 3.5).

Refer to section 4 for the complete set of pre-defined user roles available to participants.

The following diagram is an example of the user role concept, showing that a subset of all available resources (on the left) is selected to form a role (trader role on the right):

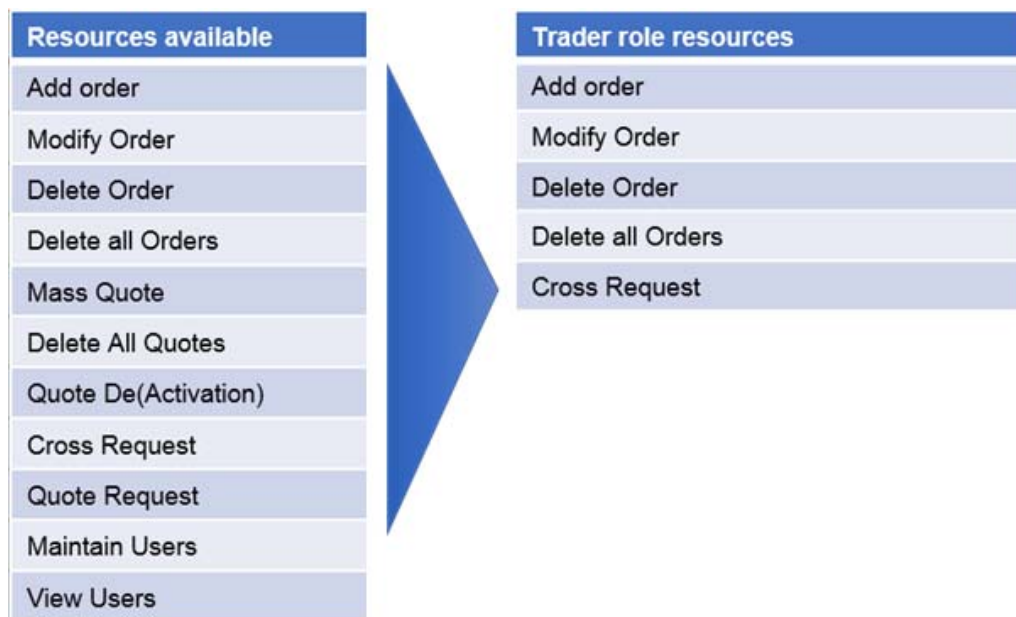


Image 3: Combination of resources to roles

3.5 Entitlements

Members entitle users for specific user roles for specific product assignment groups. The following diagram shows some example combinations of entitlements:

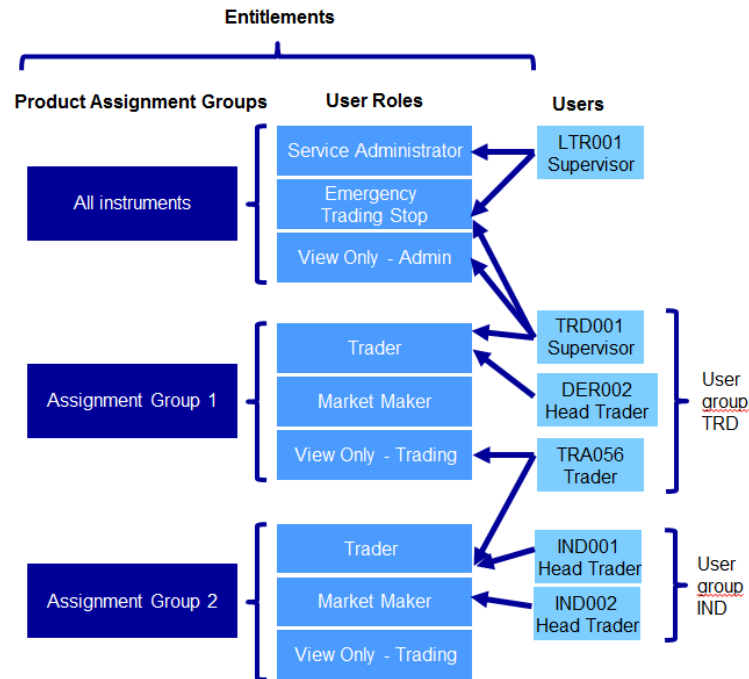


Image 4: Entitlement structure

For example, user TRD001 has a supervisor user level and has been entitled to the *Trader* role for Assignment Group 1 as well as *Emergency Trading Stop* and *View Only* roles for the entire market. User TRA056 has been entitled to the *View Only* role in Assignment Group 1 and the *Trader* role in Assignment Group 2.

Members can assign users to more than one role, however certain restrictions apply that are described further in section 4.

3.6 Maximum Order Value

The Maximum Order Value (MOV) is an optional parameter determining the maximum value of an order that a trader is allowed to enter. The value of the order is calculated as quantity times price for buy limit orders and as quantity times last traded price for market orders and sell limit orders. The MOV is stored in the exchange currency, i.e. in case of orders in a foreign currency instrument, the respective exchange rate needs to be taken into account. For Release 5.0 launch, all instruments will be traded in EUR.

$$\text{Maximum Order Value} = \text{Quantity} \times \text{Price}$$

MOV for a specific user and product are maintained by the participants themselves, using the Admin GUI. Since this is an optional field, it is not required to enter a value. In this case, the user will not be able to enter orders and quotes.

3.7 Maximum Order Quantity

The Maximum Order Quantity is also a restriction, which can be set on user level. The size of the order on order entry or modification is limited to this value. It is planned to introduce this field to Cash Market with T7 Release 6.0.

3.8 Trading Capacities

Whenever a user enters an order, the order will have to be entered for a certain trading capacity. Three different trading capacities will be supported on ISE T7:

- A** Agent Account
- P** Proprietary Account
- M** Market Maker

The different trading capacities can be granted or revoked from a user independently of each other.

3.9 User Levels (Scope of Orders)

Every user is designated to have one (and only one) user level: trader, head trader or supervisor. The user level defines which orders they are authorised to act upon (scope of orders):

User Level	Scope of Orders
1 – Trader	View, modify and delete own orders only.
2 – Head Trader	View, modify and delete own orders, as well as orders entered by other users of the same user group.
3 – Supervisor	View, modify and delete own orders, as well as orders entered by other users of the same business unit.

An order entered into ISE T7 belongs to the entering user. If a second user changes this order, the ownership of this order will transfer to the second user. Only Deutsche Börse Market Supervision can enter an order on behalf of another user.

Contrary to the ownership and scope of orders, a quote is owned by the session instead of the user. A session may enter only one quote per instrument. Sessions belonging to the same business unit may have different quotes in the same instrument, but only one quote per instrument per session is allowed. When a new quote is entered by the same session for the same instrument, the old quote will be

overwritten. Based on the entitlement, a user may overwrite, modify or cancel any quote of another user that is owned by the same session.

In context of orders, the order attribute defines the order visibility. While standard orders can be viewed, modified and deleted by other sessions within the same business unit, lean orders cannot. For further information, please refer to the document "T7 Enhanced Trading Interface – Manual incl. Repository and Header files".

Members define the user structure themselves, reflecting their business operations and practices. One or more supervisors can be defined, who are entitled to perform actions for the entire trading business unit.

Please note that users can only act upon orders in product assignment groups for which they are entitled, regardless of their user level (entitlement overrides user level), see 3.5.

4. Pre-defined User Roles

This chapter describes the pre-defined user roles available to members in the T7 system:

- Cash Service Administrator
- Cash User Data View
- Cash Trader
- Cash Market Maker
- Trading View
- Emergency Trading Stop
- Emergency Mass Deletion
- Trade Enrichment Rule
- Trade Enrichment Rule View
- CM Backoffice View

A summary of user roles and their according resource assignments can be found in the appendix (see 7).

While certain roles are granted only in context of specific product assignment groups, there are other roles, which are valid market wide. The market wide roles can be found below:

Product Assignment Group	Cash Service Admin.	Cash User Data View	Emergency Trading Stop	Emergency Mass Deletion	Trade Enrichment Rule / View
Market wide	✓	✓	✓	✓	✓

4.1 Cash Service Administrator

Members appoint one or more service administrators to create and maintain their user structure and entitlement. This includes several operations such as:

- Creation of new users
- Password resets
- Role assignments
- Setting the trading capacities
- Setting the maximum order value
- Maintaining the PIN codes for each user

This role is relevant for the trading as well as for the clearing business unit.

Please note that new trading users have to be approved by the ISE and activated before they are allowed to enter orders or quotes. The User must have been approved as a Registered Trader.

The following table shows the specific resources assigned to the cash service administrator role:

Resource	Role
Add Order	
Modify Order	
Delete Order	
Delete all Orders	
Mass Quote	
Delete All Quotes	
Quote De(Activation)	
Cross Request	
Maintain Users	✓
View Users	✓
Delete All for STOP Trading	
Maintain Trade Enrichment Rules	

A service administrator user is not restricted to that single role. It may also be assigned further additional roles.

The service administrator role is assigned to an entire market and thus is not specific to a product assignment group. For new members, the first service administrator user is created automatically.

4.2 Cash User Data View

A user data view role is available to enable a user to view all users, entitlements and maximum order values, without update capability. The cash user data view role is valid market wide. This role is relevant for the trading as well as clearing business unit.

The following table shows the specific resources assigned to the cash user data view role:

Resource	Role
Add Order	
Modify Order	
Delete Order	
Delete all Orders	
Mass Quote	
Delete All Quotes	
Quote De(Activation)	
Cross Request	
Maintain Users	
View Users	✓
Delete All for STOP Trading	
Maintain Trade Enrichment Rules	

4.3 Cash Trader

The trader role enables order-handling functions and cross requests. This role is relevant for the trading business unit only and is assigned to specific product assignment groups.

The following table shows the specific resources assigned to the trader role:

Resource	Role	Resource	Role
Add Order	✓	Maintain Users	
Modify Order	✓	View Users	
Delete Order	✓	Delete All for STOP Trading	
Delete all Orders	✓	Maintain Trade Enrichment Rules	
Mass Quote		View Trade Enrichment Rules	
Delete All Quotes		Stop trading for Business Unit	
Quote De(Activation)		Release trading for Business Unit	
Cross Request	✓	Stop Trading for User	
		Release Trading for User	

4.4 Cash Market Maker

The cash market maker role enables all quote handling functions, such as adding and maintaining quotes, updating quotes as well as quote activation and deactivation. This role is relevant for the trading business unit only.

The market maker role is assigned to specific product assignment groups.

The following table shows the specific resources assigned to the market maker role:

Resource	Role	Resource	Role
Add Order		View Users	
Modify Order		Delete All for STOP Trading	
Delete Order		Maintain Trade Enrichment Rules	
Delete all Orders		View Trade Enrichment Rules	
Mass Quote	✓	Stop trading for Business Unit	
Delete All Quotes	✓	Release trading for Business Unit	
Quote De(Activation)	✓	Stop Trading for User	
Cross Request	✓	Release Trading for User	
Maintain Users		Delete All Orders / Quotes for All Products	

4.5 Trading View

The trading view role only applies to users of the Trader GUI and provides restricted display access to trading data in the Market View, Order View, Trade View, Time & Sales View and Ticker View windows. The trading view role is assigned to specific product assignment groups, and is not required if a user is already assigned a trader or market maker role. This role is relevant for the trading business unit only.

The Trader GUI displays market information only for products that the user is assigned a trading view, trader or market maker role for the corresponding product assignment group.

4.6 Emergency Trading Stop

The emergency trading stop role enables risk control functions to stop trading for a user or the entire business unit, and automatically delete orders and quotes. In order to give this role to a user it is required that this user has his level set to 'Supervisor'. Without the Supervisor level, it will not be possible to grant this role. This role is relevant for the trading business unit only.

In case a business unit is stopped, this stop applies to all users of the business unit.

The emergency trading stop role can be added to supplement any other role, as long as the user level is set to supervisor. The emergency trading stop role is assigned to an entire market, not a product assignment group.

Members must have at least two users with the emergency trading stop role in order to stop a user or business unit from trading; stop trading functions use the four-eye principle as a safeguard, see 5.4.

The following table shows the specific resources assigned to the emergency trading stop role:

Resource	Role	Resource	Role
Add Order		Maintain Users	
Modify Order		View Users	
Delete Order		Delete All for STOP Trading	✓
Delete all Orders		Maintain Trade Enrichment Rules	
Mass Quote		View Trade Enrichment Rules	
Delete All Quotes		Stop trading for Business Unit	✓
Quote De(Activation)		Release trading for Business Unit	✓
Cross Request		Stop Trading for User	✓
		Release Trading for User	✓

4.7 Emergency Mass Deletion

The emergency mass deletion role enables the market wide deletion of all orders and quotes for all products via the Trader GUI or the Admin GUI. This role is relevant for the trading business unit only.

Deletion of orders can be performed for a specific user or for the entire business unit. The scope of orders allowed to be selected for deletion is controlled by the assigned user level, see 3.9. For example, trader level can mass delete own orders only, and supervisor level can mass delete all orders for an entire business unit.

The scope of quotes allowed to be selected for mass deletion does not depend on the user level. With this role assigned, any user level can delete all quotes for the entire business unit.

The emergency mass deletion role can be added to supplement any other role, and is assigned to an entire market, not a product assignment group.

The following table shows the specific resources assigned to the emergency mass deletion role:

Resource	Role	Resource	Role
Add Order		Maintain Users	
Modify Order		View Users	
Delete Order		Maintain Trade Enrichment Rules	
Delete all Orders		View Trade Enrichment Rules	
Mass Quote		Stop trading for Business Unit	
Delete All Quotes		Release trading for Business Unit	
Quote De(Activation)		Stop Trading for User	
Cross Request		Release Trading for User	
		Delete All Orders / Quotes for All Products	✓

4.8 Trade Enrichment Rule

A trade enrichment rule role is available to enable a user to view and maintain trade enrichment rules for the entire business unit, using the Admin GUI. This role is relevant for the trading business unit only.

Trade enrichment rules are used for automatic enrichment of executed orders and quotes that use the short order message layout. The trade enrichment rule role is assigned to an entire market, not a product assignment group.

The trade enrichment rule role can be added to supplement any other role. Without this role, users are unable to maintain trade enrichment rules. For more information about trade enrichment rule functionality, please refer to the document “T7 Functional and Interface Overview”.

The following table shows the specific resources assigned to the trade enrichment rule role:

Resource	Role	Resource	Role
Add Order		Maintain Users	
Modify Order		View Users	
Delete Order		Maintain Trade Enrichment Rules	✓
Delete all Orders		View Trade Enrichment Rules	✓
Mass Quote		Stop trading for Business Unit	
Delete All Quotes		Release trading for Business Unit	
Quote De(Activation)		Stop Trading for User	
Cross Request		Release Trading for User	
		Delete All Orders / Quotes for All Products	

4.9 Trade Enrichment Rule View

A trade enrichment rule view role is available to enable a user to view all trade enrichment rules without update capability. This role is relevant for the trading business unit only.

The trade enrichment rule view role is assigned to an entire market, not a product assignment group.

The following table shows the specific resources assigned to the trade enrichment rule view role:

Resource	Role	Resource	Role
Add Order		Maintain Users	
Modify Order		View Users	
Delete Order		Maintain Trade Enrichment Rules	
Delete all Orders		View Trade Enrichment Rules	✓
Mass Quote		Stop trading for Business Unit	
Delete All Quotes		Release trading for Business Unit	
Quote De(Activation)		Stop Trading for User	
Cross Request		Release Trading for User	
		Delete All Orders / Quotes for All Products	

4.10 CM Backoffice View

The CM Backoffice View role allows a user of a clearing member to inquire all trades of his related trading members. This role is relevant for the clearing business unit only.

The following table shows the specific resources assigned to the emergency trading stop role:

Resource	Role	Resource	Role
Add Order		Maintain Users	
Modify Order		View Users	
Delete Order		CM Trade View	✓
Delete all Orders		Maintain Trade Enrichment Rules	
Mass Quote		View Trade Enrichment Rules	
Delete All Quotes		Stop trading BU by CM	
Quote De(Activation)		Release trading BU by CM	
Cross Request		Stop Trading for User	
		Release Trading for User	

5. Maintenance

This chapter describes the maintenance functions that will be performed by service administrators. Data related to product assignment groups, members, business units, users and risk controls will be made available to service administrators, including all identifiers needed for all interfaces.

5.1 Product Assignment Groups

Product assignment groups are created and maintained by the ISE.

5.2 Participant and Business Unit

The participant and business unit structure is created and maintained by Deutsche Börse on behalf of the ISE.

5.3 Users

This section describes the steps necessary to maintain users of T7.

Authorisation can be configured by service administrators, as follows:

Type of restriction	Achieved by
Restrict products	Product assignment groups, see Chapter 3 (also transaction size limits for product level)
Restrict functions	User roles (e.g. market maker or trading view), see 3.4
Restrict volumes traded	Maximum order value limit, see 3.6
Restrict scope of orders	User levels (trader, head trader, supervisor), see 3.9

Viewing restrictions apply to users of the Trader GUI. These restrictions may not be implemented in alternative applications that access T7 via the electronic interfaces.

5.3.1 Adding a user

Service administrators are able to add users themselves, according to the following steps:

#	Task	Description
1	Apply for Trader Admission	<p>Members must apply for admission for all trading users (trader role or market maker role), using the Registered Trader application form</p> <p>This step can be skipped if the user is a non-trading user or a simulation user.</p>
2	Create user in T7	<p>Using the Admin GUI, a User Setup Wizard will guide service administrators through the necessary steps, to add:</p> <ul style="list-style-type: none"> • User attributes (e.g. name, user level, user group, etc.) • Entitlements (roles per product assignment groups) • MOV • PIN • Initial password, either entered manually, or automatically generated (for password rules, see 5.3.3) • (Default) Settlement Account <p>For more information regarding the User Setup Wizard and the T7 Admin GUI for Cash Market, please see chapter 7.3. Trading users must be approved by the ISE and activated before they can trade using T7.</p> <p>A unique numeric user ID will be generated for each user and is available for display and export on the Admin GUI, as well as on reports RD110, RD115, RD130 and RD135 available in the Common Report Engine. These numeric identifiers are used in all of the electronic interfaces to T7 (ETI and FIX Gateway).</p>
3	Activate user (done by the ISE)	<p>Prior to activation, new trading users will be assigned a negative entitlement "Trader Examination Role" that will prevent any trading activity.</p> <p>The ISE will activate trading users when the admission process and all above steps are completed.</p> <p>Simulation users are activated upon request, by emailing clearingdata@deutsche-boerse.com.</p> <p>Non-trading users can immediately begin using T7 after the user is created (step #2 above).</p>

5.3.2 Modifying a user

Using the Admin GUI, service administrators may modify user information. If a non-trading user is updated to become a trading user, there must be a trader admission, see 5.3.1, step #1.

Modifications to the user attributes (MOV, entitlement, user group, user level and password resets) are effective immediately. Users must log out and then log back in for these changes to take effect.

5.3.3 Password Rules

User password requirements for T7 are:

- minimum of 8 and a maximum of 16 characters
- valid characters: [a-z, A-Z, 0-9] and special characters: ['+', '-', '@', '!', '_', '\$', '%', '&', '/', '=', '*', '#']
- minimum 1 uppercase letter and minimum 1 lowercase letter
- minimum 1 special character
- maximum number of repeated characters allowed is 6
- a password history is maintained to prevent the last 10 passwords from being re-used.

User passwords do not automatically expire. Users are able to change their passwords themselves. Passwords can only be changed using the GUI. Passwords generated during setup of new users and passwords generated during password reset by Service Administrator will automatically expire after first login. The user is then forced to create a new password. Members are responsible for the regular refresh of user passwords, according to their own security guidelines.

5.3.4 Deleting a user

Service administrators may delete users, according to the following steps:

#	Task	Description
1	Notify ISE	ISE should be notified of all user deletions using the Registered Trader Cessation form. This applies to booth trading and non-trading users.
2	Delete user	User deletions are done using the Admin GUI and are effective on the next day (but user login is prevented immediately).

Before deleting a user, members should ensure that there are no open orders remaining in the system that were entered by this user. Any open orders for deleted users are automatically removed at the end of the trading day.

Members are responsible for immediate deletion of a user account, when the associated person is no longer with the firm.

5.4 Risk Controls

T7 provides several risk control functions for members, which allows them to stop a user or an entire business unit from trading. Stopped users can continue to view trading activity, but are not able to enter new orders or quotes.

5.4.1 Stopping Trading for User

Users entitled to the emergency trading stop role may stop and release any user as follows:

#	Task	Description
1	Stop Trading for user	When a user is stopped (and confirmed), using the Admin GUI, any orders belonging to the user are immediately deleted. Note that quotes will not be deleted – quotes belong to the entering session, not a specific user. If a stopped user is subsequently released, the user may resume trading activities. Previously deleted orders are not restored.
2	Confirm Stop / Release (four-eyes principle)	The stop and release functions require that two users, both with emergency trading stop role, execute the function. If a stopped user is subsequently released, the user may resume trading activities. Previously deleted orders are not restored.

5.4.2 Stopping Trading for a Business Unit

Users entitled to the emergency trading stop role may stop and release an entire business unit as follows:

#	Task	Description
1	Stop Trading for business unit	When a business unit is stopped (and confirmed), using the Admin GUI, all open orders and quotes of the entire Business Unit are deleted.
2	Confirm Stop / Release (four-eyes principle)	The stop and release functions require that two users, both with Emergency Trading Stop role, execute the function. If the stopped business unit is subsequently released, all users may resume trading activities, except for any users previously stopped individually. Previously deleted orders and quotes are not restored.

6. Participant migration of Cash Market

Member and user IDs will be migrated with analogous access rights, settings and instrument assignments, as they are setup in the Xetra system at end of day on June 23rd 2017.

For every active member ID at least one business unit will be generated in T7 depending on their activity in the ISE Xetra system. For every Non-Clearing Member a trading business unit will be setup with a business unit ID that will be the same as their member ID in ISE Xetra today. For members which are only offering clearing and/or settlement services a clearing business unit will be setup with an ID created from their ISE Xetra member ID and adding "CL" as additional characters at the end. Members acting as trading member and as clearing member will receive both types of business units. For more details on the concept of members, business units and users, please refer to chapter 3.2. The T7 business unit and user roles as well as settings are derived from the RALs and settings of the members and users in the ISE Xetra trading system within the migration according to the following rules:

Business Unit	
T7 Role/Setting	Xetra RAL/Setting
Cash Service Administrator	-none- (always assign)
Emergency Trading Stop	-none- (always assign to Trading Business Unit)
Trade Enrichment Rule	-none- (always assign to Trading Business Unit)
Trade Enrichment Rule View	-none- (always assign to Trading Business Unit)
CM Backoffice View	-none- (always assign to Clearing Business Unit)
Cash Trader	RAL (7) Enter Order
Cash Market Maker	RAL (11) Enter Quote
Trading View	-none- (always assign to Trading Business Unit)
Cash User Data View	-none- (always assign)
Emergency Mass Deletion	-none- (always assign to Trading Business Unit)
SMP Prevention¹	Self Match Prevention not enabled

¹ The role "SMP Prevention" disables the possibility to use Self Match Prevention, which is usually enabled for all business units. The role can be assigned and hence SMP switched off for members on request.

User	
T7 Role/Setting	Xetra RAL/Setting
Cash Service Administrator	RAL (3) Add User
Cash Trader	RAL (7) Enter Order
Cash Market Maker	RAL (11) Enter Quote
Trading View	RAL (20) Inquire Trade and without RAL (7) Enter Order
Cash User Data View	RAL (1) Inquire User List and without RAL (3) Add User
Emergency Mass Deletion	RAL (29) Delete All Orders and Quotes
CM Backoffice View	-none- (always assign to user of Clearing Business Unit)

Users which have not logged in and have not changed their password since the introduction of Xetra Release 12.0 in 2011 are assumed to be not production-relevant and will not be migrated at all.

For users which will be migrated from ISE Xetra to ISE T7, their passwords will be migrated for the first login but set to be expired. Therefore, the users need to change their password during the first login. In this context, it is highly recommended that for all users, including technical users and order routing machines, the change of the initial password should be done prior to the first trading day. The change of passwords can only be performed via the GUI.

Senior traders in ISE Xetra will be migrated to be “Head Traders” in ISE T7 while Non-Senior traders will be setup as “Traders” in ISE T7. Trading accounts “Agent”, “Proprietary” and “Designated Sponsor” will be migrated as well and assigned as Trading Capacities “Agent”, “Proprietary” and “Market Maker”. The Maximum Order Value and the Default Settlement Information setup for a user will be migrated to ISE T7 analogously while Maximum Order Values higher than 9,999,999,999.99999999 will be capped to this value.

7. Appendix

The following tables show the specific resources assigned to the various roles, separated by context.

7.1 Administrative roles

Resource / Role	Cash Service Administrator	Cash User Data View	Emergency Trading Stop	CM Backoffice View
Add Order				
Modify Order				
Delete Order				
Delete all Orders				
Mass Quote				
Delete all Quotes				
Quote De(Activation)				
Cross Request				
Quote Request				
Maintain Users	✓			
View Users	✓	✓		
Delete All for STOP Trading			✓	
Maintain Trade Enrichment Rules				
View Trade Enrichment Rules				
Stop Trading for BU			✓	
Release Trading for BU			✓	
Stop Trading for User			✓	
Release Trading for User			✓	
Delete all Orders/Quotes for all Products				
CM Trade View				✓
			Supervisor Level	

7.2 Order Book roles

Resource / Role	Cash Trader	Cash Market Maker	Trading View	Emergency Mass Deletion	Trade Enrichment Rule	Trade Enrichment View
Add Order	✓					
Modify Order	✓					
Delete Order	✓					
Delete all Orders	✓					
Mass Quote		✓				
Delete all Quotes		✓				
Quote De(Activation)		✓				
Cross Request	✓	✓				
Maintain Users						
View Users						
Delete All for STOP Trading						
Maintain Trade Enrichment Rules					✓	
View Trade Enrichment Rules					✓	✓
Stop Trading for BU						
Release Trading for BU						
Stop Trading for User						
Release Trading for User						
Delete all Orders/Quotes for all Products				✓		

7.3 T7 Admin GUI Windows

7.3.1 Welcome View

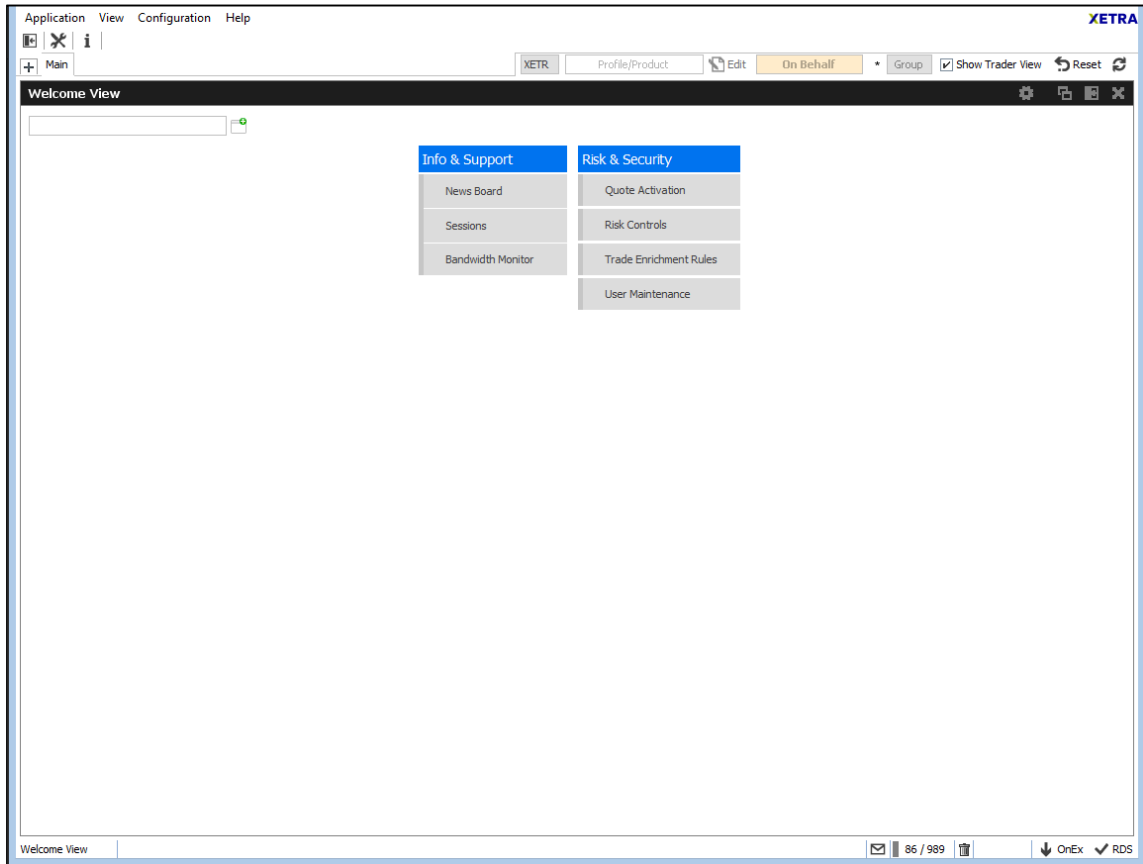


Image 5: T7 Admin GUI Welcome View

7.3.2 User Maintenance Wizard – General Attributes

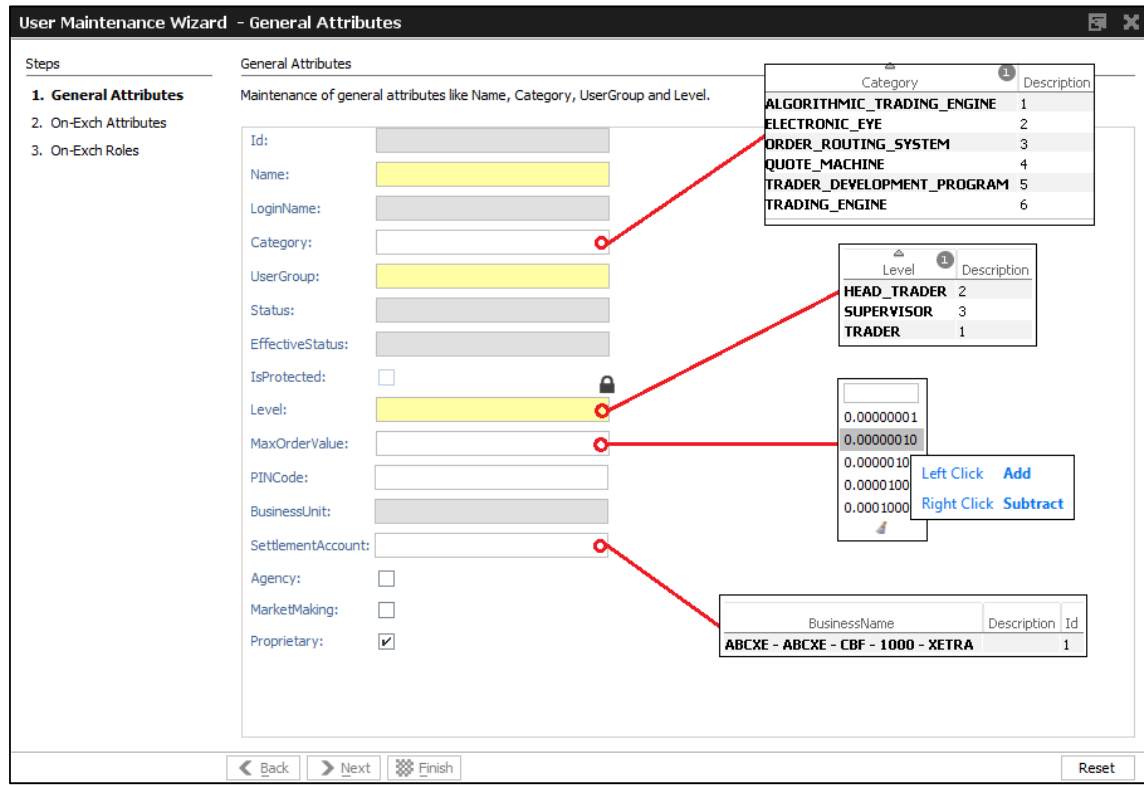


Image 6: T7 Admin GUI User Maintenance Wizard – General Attributes

7.3.3 User Maintenance Wizard – Order Book Attributes

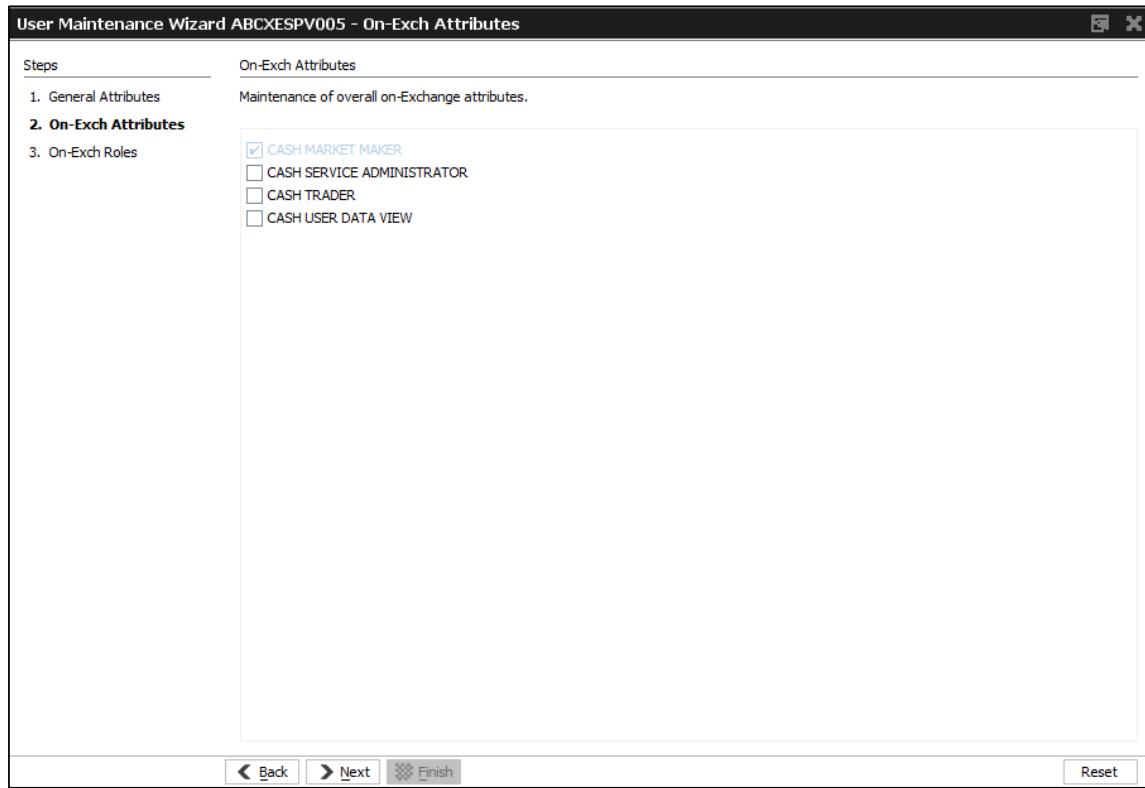


Image 7: T7 Admin GUI User Maintenance Wizard – Order Book Attributes

7.3.4 User Maintenance Wizard – Order Book Roles

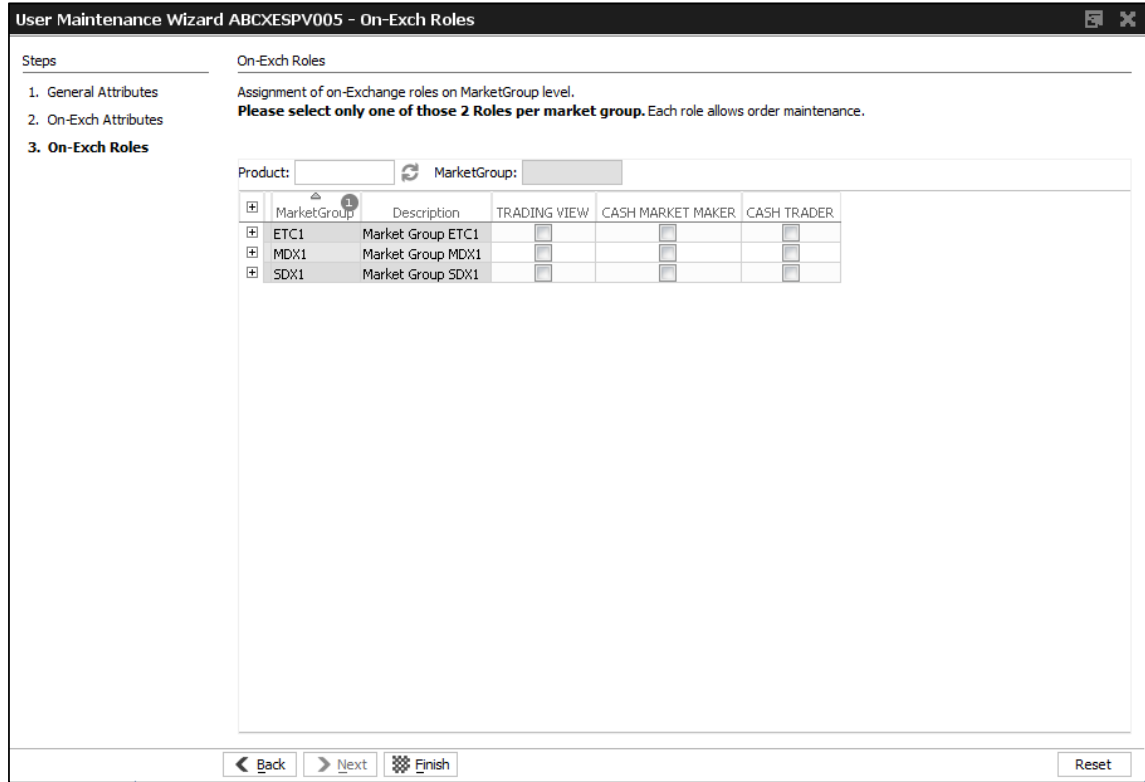


Image 8: T7 Admin GUI User Maintenance Wizard – Order Book Roles