

Eurex Bonds®

Introduction of Order Book and Iceberg Order

Member Simulation Scripts

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1 Introduction

This document contains the scripts for the Eurex Bonds order book simulation.

Scripts are available for the following new features on Eurex Bonds:

- Single sided orders will be able to be entered into the Order book
- Limit orders will be able to be entered without execution conditions (i.e. the parameters IOC (immediate-or-cancel) and FOK (fill-or-kill) will be optional)
- Iceberg orders will be introduced
- Market orders will no longer be supported
- Stop orders will not be supported
- The following validation constraints for orders are to be introduced:
  - Good-for-day: Order only valid for the current exchange trading day
  - Good-till-date: Order only valid until a specified date (max. 90 days)
  - Good-till-cancelled: Order only valid until executed or deleted (max. 90 days)
- Quotes and iceberg orders will only be valid for the current trading day
- Orders and quotes will be able to be entered during pre-trading and continuous trading
- Post-trading will allow the entry and maintenance of orders valid starting on the next business day

The scripts contained in this document are supposed to introduce the participants to the new functionality on Eurex Bonds.

1.1 Contents

This document is structured by topics with special emphasis on focus functionality. It contains focus-oriented activity recommendations, usability guidelines and additional user support (e.g., references to supporting information, list of related reports).

The chapters vary in their level of detail. Activities related to features which are new for Eurex Bonds introduced on a step by step basis, functionality which is known among the audience of these scripts is not described as detailed.

1.2 Purpose

This document contains information regarding Eurex Bonds Order Book Simulation for the members. It is intended to support IT department employees, member's security administrators, back office employees and traders to become familiar with the new functionality on Eurex Bonds.

1.3 Simulation Details

This section covers details on the following:

- Simulation calendar,
- Simulation Trading Schedule
- Information about data and functionality available during simulation,
- Details about the support provided by Deutsche Börse throughout simulation,
- Explanation of the conventions used for the scripts (symbols, text styles).

1.3.1 Simulation Calendar

The actual Eurex Bonds simulation calendar can be downloaded from the Eurex Bonds website (password required):

http://www.eurex-bonds.com/members/members_simulation_en.html

1.3.2 Simulation Trading Schedule

For the trading phases, the following abbreviations are used:

ADD	New Instrument
START	Start
PRETR	Pre Trading
TRADE	Continuous Trading
POSTR	Post Trading
HALT	Halt
SUSP	Suspended
DEL	Instrument ready to be deleted
ENDTR	End of Trade

1.3.2.1 Supporting Documentation

The following documents are available to provide background information not covered in this document:

Document	Audience	Description
Market Model Eurex Bonds	Trader	Description of the Eurex Bonds Market Model including matching rules
Exchange Trading System User Guide	Trader, Administrator	User Manual of Xetra Trader for Xetra Release 7.0.
System Administration Guide	Administrator	Description of the Xetra authorization concept for Release 7.0 (maintenance of user access rights, assignment of accounts and instruments to users, user subgroups, senior traders and trading assistants).
Front End Installation Guide Xetra R7.0	System Operator	Information about installation of the Xetra Release 7.0 Front End.
Front End Operations Guide Xetra R7.0	System Operator	Information about operation of the Xetra Release 7.0 Front End.
Front End Installation Guide GATE 3.2	System Operator	Information about installation of the GATE Release 3.2 Front End.
Front End Operations Guide GATE 3.2	System Operator	Information about operation of the GATE Release 3.2 Front End.
Training Material for Member (Tech.)	System Operator	Examples and exercises of how to install (e.g. MISS installation) and run Xetra Release 7.0.

1.3.2.2 Eurex Bonds Contacts

Eurex Bonds and Deutsche Börse will provide dedicated support to the members to facilitate successful participation in the simulation and production.

Members can reach Eurex Bonds and Deutsche Börse with their questions and comments regarding simulation and production using the familiar desk numbers:

For functional specific questions or if a member is unsure to whom to address, the **Eurex Bonds Market Supervision** will be of assistance.

- Telephone: +49 - 69 - 211 - 1 38 90
- Fax: +49 - 69 - 211 - 1 43 47
- Email: Eurex.Bonds.ms@deutsche-boerse.com

- Hours: 8:00 - 18:00 CET (on exchange trading days)

For all questions related to clearing and settlement the **Eurex Bonds Clearing helpdesk** is of assistance.

- Telephone: +49 - 69 - 211 - 1 72 34
- Fax: +49 - 69 - 211 - 1 43 34
- Email: eurex.clearing@deutsche-boerse.com
- Hours: 7:00 - 20:00 CET (on exchange trading days)

For all general Eurex Bonds specific questions contact the **Eurex Bonds Team**.

- Telephone: +49 - 69 - 211 - 1 12 22
- Fax: +49 - 69 - 211 - 1 70 03
- Email: info@eurex-bonds.com
- Hours: 8:30 - 18:00 CET (on exchange trading days)

For technical specific questions and information regarding VALUES API, the **Technical Helpdesk** will be of assistance.

Deutsche Börse Customer Technical Support

- Telephone: +49 - 69 - 211 - 1 84 00
- Fax: +49 - 69 - 211 - 1 84 01
- Email: Xetra-help@deutsche-boerse.com
- Hours: 6:00 - 22:00 CET (on exchange trading days)

For questions concerning the technical set-up and connection process, the **Technical Member Readiness Team** will be of assistance.

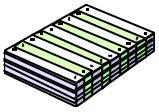
Deutsche Börse Technical Member Readiness Xetra

- Telephone: +49 - 69 - 211 - 1 13 90
- Fax: +49 - 69 - 211 - 1 13 91
- Email: Customer-service-xe@deutsche-boerse.com
- Hours: 8:00 - 18:00 CET (on exchange trading days)

1.3.3 Script Conventions

Symbols

The following symbols are used as visual orientation aids within this document. They appear in the left margin of the scripts and give additional orientation help, e.g., to retrieve important information or to find a step-by-step walkthrough more quickly.

Symbol	Description
	Indicates the focus / objectives of the scripts.
	Indicates information about times relevant for the script.
	Indicates activity recommendations and usability guidelines.
	Indicates a step-by-step walkthrough of the activity.
	Indicates windows used within the activity.
	Indicates information about reports relevant for the script or activity.
	Indicates references within training materials and supporting documentation.

Text Styles

The following text styles are used to highlight words and expressions.

Text Style	Description
Italics	Indicates a component of the Xetra Front End (e.g., window names or fields).
Bold	Indicates a sub-/ topic header or references header.

Miscellaneous

Unless explicitly mentioned, the given descriptions and function explanations are valid for all platforms (Sun Solaris and Microsoft Windows NT (Intel)).

2 Simulation Scripts

2.1 Iceberg Order



Iceberg orders are hidden orders with volumes only partially visible in the order book. An iceberg order is characterized by its overall volume, the peak, and the mandatory limit. The peak indicates the visible part of the iceberg order. The peak and the overall volume must always be a round lot. If the overall volume divided by the peak leaves a rest, the last peak creates a smaller order than the original peak (of round lot size).

In continuous trading, as soon as the peak has been completely executed, and if a hidden volume of this iceberg order is still available, another peak order with the same limit and volume is entered into the order book. This new peak receives a new timestamp. However, the hidden parts of an iceberg order will be completely processed before the next limit in the order book is executed. The order number remains the same for the entire iceberg order.

Execution and trade confirmations are created after each partial execution. An increase of the peak or overall quantity leads to a new timestamp – losing time priority – and a new order number, whereas the reduction of the peak or overall quantity does not result in any changes – the original timestamp and order number are maintained.

The iceberg order will be introduced as a new order type. The order type “I” always has to be entered if an iceberg order is entered. All order entry and maintenance windows will support iceberg orders. It will not be possible to modify an iceberg order to a different order type. The *Own Order Overview* window will display the iceberg order with remaining quantity, peak quantity and executed quantity.

The minimum overall quantity and minimum peak quantity is defined by Eurex Bonds on instrument group level. Iceberg orders can only be entered with the validity constraint “Good-for-Day”. Neither trading nor execution restrictions are supported.

During the simulation iceberg orders will be possible for all instruments. Please find the parameters “Minimum Peak Size” and “Minimum Overall Quantity” defined per instrument group in section 2.3

Prerequisites

- Trader group needs to have instrument group assigned
- Trader user ID needs to be activated

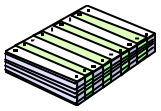


Steps:

- Open the “(Fast) Order Entry” window.
- Enter order with order type “I” during continuous trading with an appropriate order book situation – peak should be completely matched.
- Verify that new order with the same limit and the same peak volume but a new timestamp is automatically added to the order book (the peak volume is subtracted from the hidden part of the iceberg order).
- Enter order with order type “I” during continuous trading with an appropriate order book situation – peak should only be partially matched.
- Verify that no new order is placed but the remaining part of the iceberg order is kept in the book until it is completely matched.
- Open *Own Order Overview* window, select an order and press “Modify”. In the *Order Maintenance* window verify that iceberg orders cannot be maintained concerning their order type.
- Increase peak quantity of the order and verify in *Own Order Overview* window modification of order number and timestamp (time priority amongst orders of same limit has changed).
- Decrease peak quantity of the order and verify in *Own Order Overview* window that order number and timestamp remain unchanged (time priority amongst orders of same limit is unchanged).
- Verify that in case of several iceberg orders being in the book the same price/ time priority applies as for regular orders.



- *Fast Order Entry* window
- *Order Entry* window
- *Mass Order Entry* window
- *Order Maintenance* window
- *Mass Order Maintenance* window
- *Own Order Overview* window
- *Order Market Overview* window
- *Order Instrument Overview* window
- *Trading Board* window



- RPTTC540 – Daily Order Maintenance
- RAWTC540 – Daily Order Maintenance RAW
- RPTTC810 – Daily Trade Confirmation
- RAWTC810 – Daily Trade Confirmation RAW



Xetra Release 7.0 Exchange Trading System User Guide

- Chapter 4.1.1: Order Instrument Overview Window
- Chapter 4.1.3: Order Market Overview Window
- Chapter 4.2.1: Fast Order Entry Window
- Chapter 4.2.2: Order Entry Window
- Chapter 4.2.3: Mass Order Entry Window
- Chapter 4.4.1: Trading Board Window
- Chapter 4.4.2: Own Order Overview Window
- Chapter 4.4.3: Order Maintenance Window
- Chapter 4.4.4: Mass Order Maintenance Window

2.2 Market Overviews



Order Market Overview (OMO)

- View a bond or basis profile.
- ♦ Select an instrument profile
- Enter in the *Fast Order Entry* window an order directly from any bid/ask columns.
- Notice the columns OwnBidQty" and "OwnAskQty.
- Change the market depth view to have either greater or shallower depth.

Note:

The Order Market Overview window provides the possibility to view own orders. Through the enhanced context menu functionality, own orders can be deleted quickly in this window, or you can buy or sell promptly at current prices in the order book.

Traders are now able to recognize their own orders for each limit in the Market Overview window. This is enabled by two new columns to the window:
"OwnBidQty" and "OwnAskQty".

Via a new context menu entry, "Delete", these orders can be taken off the market in a very short time.



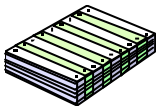
Steps:

- Open the "Order Market Overview" window.
- Enter buy and sell limit orders without execution condition.
- Check the columns "OwnBidQty" and "OwnAskQty".
- Select the cell where "own bid qty" is displayed and open the context menu with the right mouse button.
- Via a new context menu entry, use "Delete" to take off the orders out of the market in a very short time.

Order Overview References



- *Instrument Profile Selection* window
- *Order Instrument Overview* window
- *Order Market Overview* window
- *Own Order Overview* window
- *Order Instrument Full Overview* window



- RPTTC540 - Daily Order Maintenance
- RPTTC550 - Open Order Detail



Trading System User Guide

- Chapter 4.1.1 Order Instrument Overview Window
- Chapter 4.1.2 Order Instrument Full Overview Window
- Chapter 4.1.3 Order Market Overview Window
- Chapter 4.4.2 Own Order Overview Window
- Chapter 4.6.2 Instrument/Group/Profile Selection Window

2.3 Order Modifications

Modifying and Deleting an Order

- Select an order from *Own Order Overview* window.
- Modify any of the possible modification traits listed below and submit the changes.
- Check to see if your order was merely modified and whether the order number has changed.
- Delete a selected order from the *Own Order Overview* window.

As a senior trader:

- Check orders in *Own Order Overview* window for traders in your subgroup.
- Modify and delete orders on behalf of a trader in your subgroup.

Note:

If the modification includes a change in price, or quantity, the modified order may receive a new *Order No.*

A senior trader is allowed to modify / delete orders and stop orders of his subgroup.

Modifiable Attributes:

limit

order quantity

validity constraints

execution restrictions (FOK, IOC)

account (agent, proprietary, Market maker)

text

MI-order number (text)

Non-modifiable Attributes:

trader ID

instrument ID

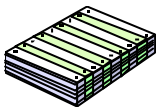
currency (trading currency for instruments listed per unit, denomination currency for instruments listed in percentage)

any attributes that at the moment of modification could not normally be entered in a new order

Order Modifications References



- *Own Order Overview* window



Order Modifications Reports

- RPTTC540 - Daily Order Maintenance
- RPTTC550 - Open Order Detail



Trading System User Guide

- Chapter 4.4.2 Own Order Overview Window

2.3.1 Additional Trading Parameters



- Enter orders with various validity constraints listed below.

Note:

Validity Constraints:

Good-for-Day (**GFD**)

*Good-till-Date**

Good-till-Cancel **(GTC)**

**Good-till-Date* is achieved by placing the effective date within the date field.



- Enter orders with execution restrictions (IOC or FOK).

Note:

Execution Restrictions:

Immediate-or-Cancel (**IOC**)

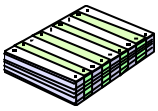
Fill-or-Kill (**FOK**)

Trading Restrictions References



- *Own Order Overview* window

Trading Restrictions Reports



- RPTTC540 - Daily Order Maintenance

Trading System User Guide



- Chapter 4.5.1 Own Order Overview Window

2.3.2 Hold and Release Orders



Carry out the following actions:

- Select orders and hold them.
- Modify some of these held orders (notice they are immediately released).
- Release some of the unmodified held orders.

Note:

Held orders are deleted from the trader view once the trader logs off the system.

Submitting a held order's modification will immediately release that order.

A released held order will be submitted as a single order entry with a new timestamp.

Stop orders can also be set to hold, released or modified and remain a stop order.

2.3.3 Mass Hold and Release Orders



Carry out the following actions:

- Hold mass orders.
- Release mass orders.
- Modify held mass orders.

As a senior trader:

- Hold a mass order on behalf of a trader within your subgroup.
- Modify this mass order.

Note:

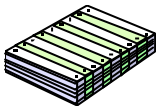
A mass order modification will be executed in single order requests and thus, executed separately.

A senior trader can hold a selection of orders across his whole subgroup.

Hold and Release References



- *Mass Order Maintenance* window
- *Own Order Overview* window



- RPTTC540 - Daily Order Maintenance
- RPTTC550 - Open Order Overview



Trading System User Guide

- Chapter 4.2.3 Mass Order Entry Window
- Chapter 4.4.2 Own Order Overview Window

2.4 Overview of Instrument Groups used for Simulation

The following table provides an overview of the instrument groups used for simulation on Eurex Bonds:

AGEN: Agencies

BASE: Basis Instruments

BOND: German Government Bonds

BILL: German Treasury Discount Papers

JUMB: Jumbo Mortgage Bonds and German State Bonds

2.5 Trading Parameter

The following table shows the trading parameters in the two trading forms (continuous trading and Pre-arranged Trade Facility) applied for different Eurex Bonds instrument groups:

Instrument Group	Tick size	Round Lot size (Continuous Trading)	Minimum tradable unit (Pre-arranged Trade Facility)	Minimum Peak Quantity (iceberg order)	Minimum Overall Quantity (iceberg order)	Settlement Period default in business days	Settlement period range business da (Pre-arrange Trade facilit
AGEN	depending on remaining lifetime: <= 2 years: 0.001 > 2 years and <= 7 years: 0.005 > 7 years: 0.01	1 million	1 million	10 million	10 million	3	from 2 up to 8
BASE	0.001	5 million	1 million	15 million	15 million	3	2 or 3
BILL	0.001 (yield terms)	10 million	1 million	10 million	10 million	2	from 2 up to 8
BOND	depending on remaining lifetime: <= 2 years: 0.001 > 2 years and <= 7 years: 0.005 > 7 years: 0.01	1 million	1 million	10 million	10 million	3	from 2 up to 8
JUMB	depending on remaining lifetime: <= 2 years: 0.001 > 2 years and <= 7 years: 0.005 > 7 years: 0.01	1 million	1 million	5 million	5 million	3	from 2 up to 8

2.6 Instruments available in simulation environment

Short Name	ISIN	Name	Interest Rate	Instrument Group
EI71	XS0085317146	EIB 15.04.2008 5 %	5.000000	AGEN
KW41	DE0002760840	KFW 04.07.2011 5%	5.000000	AGEN
KW42	DE0002760857	KFW18.08.2006 4,75 %	4.750000	AGEN
KW43	DE0002760782	KFW 04.01.2009 5%	5.000000	AGEN
KW50	DE0002760907	KFW 25.04.2008 3,25%	3.250000	AGEN
KW51	DE0002760915	KFW 04.07.2013 3,875%	3.875000	AGEN
L621	DE0005301683	FGBL06/04-BUND 04.01.2013 4.5%	4.500000	BASE
L655	DE0001694636	FGBL06/04-BUND 04.07.2012 5%	5.000000	BASE
M621	DE0005301915	FGBM06/04-BUND 04.01.09 3,75 %	3.750000	BASE
M655	DE0001694834	FGBM06/04-OBL142 11.04.08 3%	3.000000	BASE
Z623	DE0005302368	FGBS06/04-OBL138 18.08.06 4,5%	4.500000	BASE
Z658	DE0001695062	FGBS06/04-OBL137 17.02.06 5%	5.000000	BASE
BI07	DE0001114619	BUBILL 12.05.2004	0.000000	BILL
BI09	DE0001114635	BUBILL 14.07.2004	0.000000	BILL
BI10	DE0001114643	BUBILL 18.08.2004	0.000000	BILL
BI11	DE0001114650	BUBILL 15.09.2004	0.000000	BILL
BA93	DE0001134930	BUNDANL V. 94/04 6,75	6.750000	BOND
BA95	DE0001134955	BUNDANL.V. 94/04 7,50	7.500000	BOND
BA96	DE0001134963	BUNDANL 03.01.2005 7,375%	7.375000	BOND
BA97	DE0001134971	BUNDANL 12.05.2005 6,875%	6.875000	BOND
BA98	DE0001134989	BUNDANL 14.10.2005 6,5%	6.500000	BOND
BA99	DE0001134997	DBR 05.01.2006 6%	6.000000	BOND
BB00	DE0001135002	6 BUNDANL.V. 96/06 II STV	6.000000	BOND
BB01	DE0001135010	6,25 BUNDANL.V. 96/06 6,25 STV	6.250000	BOND
BB02	DE0001135028	6 BUNDANL.V. 97/07 STV	6.000000	BOND
BB03	DE0001135036	BUNDANL.V. 97/07 II	6.000000	BOND
BB05	DE0001135051	DBR 04.01.2008 5,25%	5.250000	BOND

Short Name	ISIN	Name	Interest Rate	Instrument Group
BB07	DE0001135077	BUNDANL 04.07.2008 4,75%	4.750000	BOND
BB09	DE0001135093	4,125 BUNDANL.V.98/08	4.125000	BOND
BB10	DE0001135101	3,75 BUNDANL.V.99/09	3.750000	BOND
BB11	DE0001135119	BUNDANL 04.07.2009 4%	4.000000	BOND
BB12	DE0001135127	BUNDANL V 99/09	4.500000	BOND
BB13	DE0001135135	BUNDANL V 99/10	5.375000	BOND
BB15	DE0001135150	BUNDANL V. 00/10	5.250000	BOND
BB16	DE0001135168	DBR 04.01.2011 5,25%	5.250000	BOND
BB17	DE0001135176	BUNDANL 04.01.2031 5,5%	5.500000	BOND
BB18	DE0001135184	DBR 04.07.2011 5%	5.000000	BOND
BB19	DE0001135192	DBR 04.01.2012 5%	5.000000	BOND
BB20	DE0001135200	BUNDANL 04.07.2012 5%	5.000000	BOND
BB21	DE0001135218	BUNDANL 04.01.2013 4,5%	4.500000	BOND
BB22	DE0001135226	BUNDANL 04.07.2034 4,75%	4.750000	BOND
BB23	DE0001135234	BUNDANL 04.07.2013 3,75%	3.750000	BOND
BB24	DE0001135242	BUNDANL 04.01.2014 4,25%	4.250000	BOND
BO31	DE0001141315	BUNDESOBL V 99/04 S131	3.250000	BOND
BO32	DE0001141323	BUNDESOBL.V.99/04S.132	4.125000	BOND
BO33	DE0001141331	BUNDESOBL.V.99/04S.133	4.250000	BOND
BO34	DE0001141349	BUNDOBL 18.02.2005 4,25% S134	4.250000	BOND
BO35	DE0001141356	BUNDESOBL-135	5.000000	BOND
BO36	DE0001141364	BUNDOBL 19.08.2005 5% S136	5.000000	BOND
BO37	DE0001141372	BUNDOBL 17.02.2006 5% S137	5.000000	BOND
BO38	DE0001141380	OBL 18.08.2006 4,5	4.500000	BOND
BO39	DE0001141398	OBL 16.02.2007 4%	4.000000	BOND
BO40	DE0001141406	BUNDOBL 17.08.2007 4,5% S140	4.500000	BOND
BO41	DE0001141414	BUNDOBL 15.02.2008 4,25% S141	4.250000	BOND
BO42	DE0001141422	BUNDOBL 11.04.2008 3% S142	3.000000	BOND
BO43	DE0001141430	BUNDOBL 10.10.2008 3,5% S143	3.500000	BOND

Short Name	ISIN	Name	Interest Rate	Instrument Group
BO44	DE0001141448	BUNDOBL 17.04.2009 3,25% S144	3.250000	BOND
BS00	DE0001137008	BUNDSCHATZ 10.12.2004 3%	3.000000	BOND
BS01	DE0001137016	BUNDSCHATZ 18.03.2005 2,5%	2.500000	BOND
BS02	DE0001137024	BUNDSCHATZ 17.06.2005	2.000000	BOND
TR08	DE0001090082	6,75 TREUH.ANL 94/04 SVG	6.750000	BOND
TR09	DE0001090090	TREUH.ANL. 94/04	7.500000	BOND
BE01	DE0003290367	LAND BERLIN 11.06.2013 3,75%	3.750000	JUMB
BLPB	DE0002131075	BAY.LB 23.05.2011 3,75%	3.750000	JUMB
DF41	DE0002475522	DEPFA 03.02.2005 5%	5.000000	JUMB
DF44	DE0002475712	DEPFA 26.06.2006 5%	5.000000	JUMB
DF48	DE0007009482	DEPFA ACS 15.07.2013 3,875%	3.875000	JUMB
EH11	DE0002596293	EUHYP 26.04.206 5%	5.000000	JUMB
EH13	DE0003611885	EUROHYPO 21.01.2013 4,5%	4.500000	JUMB
GH11	DE0002343548	DGHYP 22.01.2007 5,75%	5.750000	JUMB
HE12	DE0002573748	HYPESS 05.07.2005 5,25%	5.250000	JUMB
HE13	DE0002573599	HYPESS 20.02.2007 5,5%	5.500000	JUMB
HEG2	DE0001381531	HESS 04.01.2011 5,75%	5.750000	JUMB
HR52	DE0002027794	AHB 25.02.2005 5,25%	5.250000	JUMB
LASH	DE0008335175	LB BW 04.01.2012 4,25%	4.250000	JUMB
NDKC	DE0003097077	NORD LB 06.12.2010 5,75%	5.750000	JUMB
NR91	DE0001595775	NRW 04.07.2011 5,25 %	5.250000	JUMB
NR97	DE0001469104	LAND NRW 30.06.2010 3,25%	3.250000	JUMB
WH51	DE0003338752	HYPO REAL EST 20.07.2010 5,75%	5.750000	JUMB