



Eurex Release 7.0

VALUES API Modification Notes

Final Version – Update 1

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Global Clearing Link

The implementation of the Global Clearing Link is described in this publication. The Global Clearing Link is subject to the receipt of all regulatory approval. Therefore, the concepts and other information presented herein are subject to change.

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1 Introduction

This document provides an overview of the enhancements of Eurex's VALUES API that become effective with the introduction of Eurex Release 7.0 as compared to the current version, Eurex Release 6.1.

This update of the VALUES API Modification Notes explains additional changes incorporated into the Final Version since the publication of the Programming Version of the document.

The new VALUES documentation will be published as

**VALUES API Member Front End Development Guide,
Volume 2 - Eurex Application Requests and Responses,
Final Version**

together with the VALUES Header Packages for the Sun and Windows platforms on the Eurex web-site

www.eurexchange.com

located under the path

Member Section → Software Releases Eurex → Eurex 7.0.

2 Backward compatibility

The technical application version number (AVN) will be changed to **XEUR_AVN_070 = 70**.

Layout-level backward compatibility will be offered to applications built for Eurex Release 6.1. That means that applications that use **applVersion = XEUR_AVN_061** are expected to send the request layouts used in Eurex Release 6.1 and will still be supplied with Eurex Release 6.1's response and broadcast layouts.

As usual, new contents of existing fields are not suppressed in backward compatibility mode. Newly introduced functionality cannot be used in backward compatibility mode.

3 Changes in the VALUES Call Interface

A new GATE Release 3.3 is introduced for Eurex Release 7.0. The new GATE Release 3.3 doesn't change any interface related to GATE Release 3.2. Also, the **CVN** remains unchanged at **CVN_012 = "012"**.

The obsolete constant **GATE_SEC_XCLASS** will be removed from the header file **exid.h**.

4

Overview of Changed Eurex Application Requests and Responses

The following table provides an overview of newly added, changed (in the sense of a layout change) or deleted VALUES requests in Eurex Release 7.0.

Requests affected by changes in the Update 1 to the Final Version are marked in **bold** font.

Application Request	Strategy Board	EFP-Fin / EFS Trading	Clearing Link	Cross Currency Haircuts	Other
<i>Enter Strategy Request</i>	New				
<i>Enter Strategy Cross Request</i>	New				
<i>Enter Strategy Order</i>	New				
<i>Modify Strategy Order</i>	New				
<i>Delete Strategy Order</i>	New				
<i>Enter Strategy Quote</i>	New				
<i>Delete Strategy Quote</i>	New				
<i>Inquire Strategy Theoretical Price</i>	New				
<i>Inquire Strategy Inside Market</i>	New				
<i>Subscribe Strategy Inside Market</i>	New				
<i>Inquire Strategy Orderbook Depth</i>	New				
<i>Inquire Own Strategy Order</i>	New				
<i>Subscribe Strategy Order Confirmation</i>	New				
<i>Inquire Own Strategy Quote</i>	New				
<i>Subscribe Strategy Quote Confirmation</i>	New				
<i>Enter OTC Strategy Trade</i>	New				
<i>Modify OTC Strategy Trade</i>	New				
<i>Delete OTC Strategy Trade</i>	New				
<i>Approve OTC Strategy Trade</i>	New				
<i>Inquire OTC Strategy Trade</i>	New				
<i>Enter EFP-Fin Trade</i>		New			

Application Request	Strategy Board	EFP-Fin / EFS Trading	Clearing Link	Cross Currency Haircuts	Other
<i>Modify EFP-Fin Trade</i>		New			
<i>Delete EFP-Fin Trade</i>		New			
<i>Approve EFP-Fin Trade</i>		New			
<i>Inquire EFP-Fin Trade</i>		New			
<i>Enter EFS Trade</i>		New			
<i>Modify EFS Trade</i>		New			
<i>Delete EFS Trade</i>		New			
<i>Approve EFS Trade</i>		New			
<i>Inquire EFS Trade</i>		New			
<i>Inquire Product</i>	Changed				
<i>Inquire All Trades</i>	Changed	Changed			Changed
<i>Inquire Own Trade</i>	Changed	Changed			Changed
<i>Inquire Trade</i>					Deleted
<i>Subscribe Trade Confirmation</i>	Changed	Changed	Changed		
<i>Inquire Historical Position Transactions</i>	Changed	Changed	Changed		Changed
<i>Inquire Position Detail</i>			Changed		
<i>Inquire Give-Up</i>			Changed		
<i>Inquire Take-Up</i>			Changed		
<i>Subscribe Give-Up/Take-Up</i>			Changed		
<i>Inquire Member Information</i>			Changed	Changed	
<i>Inquire User Detail</i>					Deleted
<i>Inquire Exchange Rate</i>				Changed	
<i>Inquire Settlement Position</i>				Changed	

5 Changes in Eurex Application Requests and Responses

5.1 Strategy Board

In Eurex Release 7.0 it will be possible to trade strategies, i.e. option/futures combinations with up to four legs. Order Book Trading as well as OTC Trading is possible for Strategies. For details, please refer to the functional descriptions.

This functionality will be adapted and enhanced from Eurex US Release 1.0. In this chapter, all new VALUES requests and responses will be described. The last subchapter outlines the differences to the Strategy Board implementation in Eurex US Release 1.0.

5.1.1 New Strategy Trading requests

The following new VALUES requests will be added to the VALUES API to support this new functionality:

- *Enter Strategy Request,*
 - *Enter Strategy Cross Request,*
 - *Enter Strategy Order,*
 - *Modify Strategy Order,*
 - *Delete Strategy Order,*
 - *Enter Strategy Quote,*
 - *Delete Strategy Quote,*
 - *Inquire Strategy Theoretical Price,*
 - *Inquire Strategy Inside Market,*
 - *Subscribe Strategy Inside Market,*
 - *Inquire Strategy Orderbook Depth,*
 - *Inquire Own Strategy Order,*
 - *Subscribe Strategy Order Confirmation,*
 - *Inquire Own Strategy Quote,*
 - *Subscribe Strategy Quote Confirmation.*
-

5.1.2 New OTC Strategy Trading requests

The following new VALUES requests will be added to the VALUES API to support the OTC Strategy Trading functionality:

- *Enter OTC Strategy Trade,*
- *Modify OTC Strategy Trade,*
- *Delete OTC Strategy Trade,*
- *Approve OTC Strategy Trade,*
- *Inquire OTC Strategy Trade.*

5.1.3 Changed VALUES requests due to Strategy Trading

The field **stratTyp** will be added to the response/broadcast structures of the following requests and subscriptions to indicate a trade as been created out of a strategy order:

- *Inquire All Trades,*
- *Inquire Own Trade,*
- *Subscribe Trade Confirmation,* and
- *Inquire Historical Position Transactions.*

The field **theOundrId** will be added to the response structure of the request *Inquire Product*.

The field **reCovBcastTyp** in the requests

- *Request Broadcast Retransmission,*
- *Inquire Recoverable Broadcast Status,*

will have **RECOV_BCAST_TYP_STRAT_ORD_CONF** = 'D' as a new valid value to indicate the *Strategy Order Confirmation* broadcast type.

5.1.4 Strategy Trading requests in Eurex Release 7.0 as compared to Eurex US Release 1.0

The following VALUES requests will be added:

- *Enter Strategy Cross Request,*
- *Inquire Strategy Orderbook Depth.*

The new fields

- **crTime,**
 - **crBidQty,**
 - **crAskQty**
-

will be added to the *Subscribe Strategy Inside Market* broadcast structure.

The field **trdNo** in the response structures of the requests

- *Approve OTC Strategy Trade,*
- *Inquire OTC Strategy Trade,*

will be replaced by an array of trade numbers for all strategy legs.

5.2 Exchange for Physicals Financials, Exchange for Swaps

With Eurex Release 7.0 the OTC trading of exchange for physicals financials (EFP-Fin) and exchange for swaps (EFS) will be supported.

5.2.1 New Exchange for Physicals-Financials requests

The following new VALUES requests will be added to the VALUES API to support OTC trading of EFP-Fin:

- *Enter EFP-Fin Trade,*
- *Modify EFP-Fin Trade,*
- *Delete EFP-Fin Trade,*
- *Approve EFP-Fin Trade,*
- *Inquire EFP-Fin Trade.*

A new valid value **TRD_TYP_EFP_FIN = 'P'** will be defined for the field **trdTyp** to indicate an EFP-Fin trade.

The datatype of the field **csHPrcefpFin** will be changed from Price to numeric 7,4.

This affects the layouts of the request structures of

- *Enter EFP-Fin Trade,*
- *Modify EFP-Fin Trade*

and the response structure of

- *Inquire EFP-Fin Trade.*
-

5.2.2 New Exchange for Swap requests

The following new VALUES requests will be added to the VALUES API to support OTC trading of EFS:

- *Enter EFS Trade,*
- *Modify EFS Trade,*
- *Delete EFS Trade,*
- *Approve EFS Trade,*
- *Inquire EFS Trade.*

A new valid value `TRD_TYP_EFS = 'w'` will be defined for the field `trdTyp` to indicate an EFS trade.

5.2.3 Changed VALUES requests due to Exchange for Swaps

The fields `swapEndDat` and `cpnFixRat` will be added to the response or broadcast structures of the following requests and subscriptions:

- *Inquire All Trades,*
- *Inquire Own Trade,*
- *Subscribe Trade Confirmation,*
- *Inquire Historical Position Transactions.*

For non-EFS trades, these fields will be initialized in the response.

Additional remarks:

- The fields `swapEndDat` and `cpnFixRat` are not contained in options response layout of the *Inquire All Trades* request.
The response records of both futures and options request contain 19 records.
- The response array of the *Inquire Own Trade* request contains 9 records.

5.3 Clearing Link

5.3.1 Modified VALUES requests as preparation of the Clearing Link functionality

The layout of the *Inquire Position Detail* request will be modified:

The new fields

- `origExchIdCod,`
- `origTrnIdNo` and
- `origOrdNo`

will be added to the request structure. The fields

- origExchIdCod,
- origTrnIdNo,
- origOrdNo,
- origTrnDat,
- origTrnTim,
- origTrnDatCet and
- origTrnTimCet

will be added to the response structure of this request.

The layout of

- *Inquire Give-up* and
- *Inquire Take-up*

requests will also be modified. The fields

- origExchIdCod,
- origTrnIdNo and
- origOrdNo

will be added to the request structure of both requests. The fields

- origExchIdCod,
- origTrnIdNo,
- origOrdNo,
- origTrnDat and
- origTrnDatCet

will be added to the response structures of both requests.

The *Subscribe Give-Up/Take-Up* broadcast structure will be modified by adding the fields

- origExchIdCod,
 - origTrnIdNo,
 - origOrdNo,
 - origTrnDat and
 - origTrnDatCet.
-

The response structure of the *Inquire Historical Position Transaction* and the broadcast structure of the *Subscribe Trade Confirmation* will be modified by adding the fields

- **origExchIdCod**,
- **origTrnIdNo**,
- **origOrdNo**,
- **origTrnDat**,
- **origTrnTim**,
- **origTrnDatCet** and
- **origTrnTimCet**.

The field **clgHseTypCod** will be added to the *Inquire Member Information* response structure to indicate whether the member is using the Eurex Clearing platform on behalf of Clearing Corporation.

Please remark that the activation of the Clearing Link functionality is subject to approval of the U.S. Commodity Futures Trading Commission (CFTC).

Changes in the Final Version

- The new field **membExchAffilTypCod** has been added to the response structure of the response structure of the *Inquire Member Information* request. It serves to distinguish between Eurex, EEX and Helsinki Exchange Members.
- The futures and options request structures of the *Inquire Give-up* request now contain 112 records. The response structures contain 8 records.
- The futures and options response structures of the *Inquire Take-up* request now contain 7 records.

5.4

Changes for Cross Currency Haircuts

- An array of 5 records containing Cross Currency Haircut information will be added to each record in the response structure of the *Inquire Exchange Rate* request. The response structure then contains 7 array records. The field **exchRatOld** will be replaced by the **prvExchRat** field. Both fields are of type numeric 12,9.
- The field **currTypCod** in the response structure of the *Inquire Member Information* request will be replaced by the field **clgMembCurrTypCod**. Both fields are of type alphanumeric with length 3.
- The field **prvDayConvRat** of type numeric 16,7 in the response structure of the *Inquire Settlement Position* request will be replaced by the field **prvExchRat** of type numeric 12,9.

Changes in the Final Version

The response structure of the *Inquire Exchange Rate* request contains 7 array records.

5.5 Further changes

5.5.1 Technical changes

A `m1iRecCtr` field will be added to the response structures of the

- *Inquire All Trades* and
- *Inquire Own Trade*

requests to simplify the calculation of the response record number.

The *Inquire Historical Position Transactions* response structure will be simplified by merging the former substructures for Futures and Options into a common substructure.

5.5.2 Removal of *Inquire User Detail* request

The *Inquire User Detail* request will be removed from the Eurex Release 7.0 VALUES API. Its functionality is covered by the existing *Inquire User Security Profile* request. The *Inquire User Detail* request remains available in backwards compatibility mode.

5.5.3 Removal of *Inquire Trade* request

The *Inquire Trade* request will be removed from the Eurex Release 7.0 VALUES API. The request remains available in backwards compatibility mode.

5.5.4 Price Step Table for Options

For options products, the existing price step table has been enabled. In the options response structure of the the *Inquire Product* request, the fields `prcuppvald` and `prcStep` have been set from reserved to enabled.

The price step table is used to define variant price steps valid for certain ranges of prices entered (e.g. as order limit price) for contracts. Price step tables are defined on a product basis. Each record contains the upper limit, `prcuppvald`, of a price range and the price step, `prcStep`, for the range. If a price is less than or equal to the upper limit of a given table record, but greater than the upper limit of the previous table record, then it must be a multiple of the price step given in this record.

5.5.5 Changes in Data Fields

The changes described in this section will be introduced with the Final Version.

- The field type definition of **bulkSecu**, **cvrSecu**, **wd1Secu** have been changed from “Quantity” to numeric signed 15,2 to indicate two decimal digits. These fields are used in the *Inquire Security Detail* request.
- The field type definitions of **collTotDepQty**, **isdCollQty** have been changed from “Quantity” to numeric signed 15,2 to indicate two decimal digits. These fields are used in the *Inquire Collateral Security Detail* request.

6 Changes in the Update 1 of the Final Version

The usage of the fields **swapCust1**, **swapCust2**, **cpnVarRef** and **cpnVarOfs** in the

- *Enter EFS Trade* and
- *Modify EFS Trade*

request will be changed from mandatory to optional.
