Eurex Exchange´s T7

Product and Instrument File Descriptions

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1. Introduction

Detailed information about the Eurex products traded on Eurex Exchange´s T7 is available to participants on the Eurex website, by way of .CSV files.

The following files are available:

- Supported instrument subtypes
- Order profiles that are enabled / disabled for individual products.
- Extended price range tables for order and quote price validations.
- Selected trading parameters per product / instrument type combination.

1.1 Purpose of this Manual

This manual is intended to provide details about the available files, including field names and descriptions, as well as references to further information.

1.2 Formatting of the Files

Each CSV file will follow basic format rules. Every data record will be in one line; fields separated by a delimiter – ";".

1. If a field is empty because it is optional and has no value, only the delimiter will be written into the CSV file.
2. The first row in the CSV file contains the column headers.

1.3 Further Reading

The following documents provide additional information to complement this manual:

- Functional and Interface Overview
- Functional Reference
- Eurex Market + Reference Data Interfaces – Manual
- Eurex Enhanced Trading Interface – Manual

These documents are available on the Eurex website www.eurexchange.com > Technology > Eurex Exchange's T7 > System Documentation.

2. Change Log

T7 Release	Date	Change
1.0	14-Oct-2013	Initial version (based on previously published readme files)
1.0	14-Oct-2013	T7 release 2.0 introduces new fields: Market ID, Cooperation Product, Enable EOBI, Enable Pre-Trade Limits.
2.5	24-Nov-2014	All CSV files were redesigned to enable better readability for human users.
3.0	23-Nov-2015	Introduction of new parameter “CrossPreventionAllowed” and market separation for extended price range tables

3. Instrument Subtypes

Instrument subtypes table contains exchange pre-defined instrument subtypes (for example: Put Spread or Call Butterfly). Instrument subtypes are defined per instrument type and market.

Instrument subtypes table includes the following fields:

Field	Description
Instrument Subtype Id	Number to uniquely identify each strategy type in context of an instrument type and a market.
Instrument Type	Denotes instrument type, which supports the strategy.
Short Name	Short name of the strategy.
Full Name	Text name of the strategy.
SubType Definition (Buy Perspective)	Text description of the instrument subtype (buy perspective).
Number of Legs	Denotes the number of legs.
Leg	Leg sequence within a strategy
Leg Buy Sell	Defines the leg side as buy or sell from a strategy buy perspective.
Ratio	Defines the ratio of the component leg.
CallPut	Defines if the option component leg is a call or a put

Field	Description
Expiry Rule	Defines the expiry rule for the component leg, with respect to the expiry of the previous leg EQ - Equal (expiry month must be equal to expiry month of preceding leg) GT - Greater Than (expiry month must be after expiry month of preceding leg) LT - Less Than (expiry month must be before expiry month of preceding leg) NE - Not Equal (expiry month must be different) NEXT_QUARTER – Next quarter (expiry month must be next quarter after expiry month of preceding leg) Not applicable for leg 1
Strike Rule	Defines the strike rule for the component leg, with respect to the strike price of the previous leg EQ - Equal GT - Greater Than LT - Less Than NE - Not Equal AS_TWO (the strike rule is the same as the rule for leg 2) - The difference between the strikes of this leg and the previous leg must be the same as the difference between the strikes of leg 2 and leg 1.) Not applicable for leg 1
Minimum Net Price	Minimum net price allowed. No value means that the net price may be negative.
Underlying Buy Sell	Indicates if the underlying leg is to be bought or sold when an options volatility strategy instrument is bought
Maximum SubType Delta	Maximum subtype delta allowed.
Market	Market for which the definition holds

4. Order Profiles

Eurex Exchange's T7 categorizes orders according to Order Profiles. The exchange defines these order profiles and enables or disables them for individual products.

An additional table is provided that gives the assignment of order profiles, per product and instrument type (Order Profile Assignment Table).

For additional information, please see the Order Profiles chapter of the Functional Reference document.

The order profile table includes the following attributes:

Field	Description
Order Profile Id	Number to uniquely identify each order profile.
Full Name	Text description of the order profile (e.g. Limit Order).
Regular	If the order type is a Regular Order.
Stop	If the order type is Stop Order.
OCO	If the order type is One-Cancels-the-Other Order.
CAO	If the order restriction is Closing-Auction-Only.
BOC	If the order restriction is Book-Or-Cancel.
Allow Limit	If a limit price can be specified.
Allow Market	If the order can be a market order.
Allow IOC	If the order validity can be Immediate-or-Cancel.
Allow GFD	If the order validity can be Good-for-Day.
Allow GTD GTC	If the order validity can be Good-till-Date or Good-till-Cancelled.

5. Extended Price Range Tables

When a user enters or modifies a limit order or a quote, Eurex Exchange's T7 may perform an Extended Price Range Validation on the limit price of the order or quote.

For additional information, please see the "Price Range Tables and their Applications" chapter of the Functional Reference document.

The extended price range tables include the following fields:

Field	Description
Extended Price Range Table Id	Number to uniquely identify the extended price range table.
Description	Text name of the extended price range table.
Price Interval Start	Defines the start of the price interval for which the price range parameters are applied.
Price Range Absolute	Absolute parameter for a given price interval.
Price Range Percentage	Percentage parameter for a given price interval.
Market	Defines the market to which the extended price range table is applied

6. Trading Parameters

The following table gives various parameters per product / instrument type combination.

For additional information on these parameters, please see the Functional Reference document.

The trading parameters table includes the following fields:

Field	Description
Symbol	The business identifier by which the product is known.
Instrument Type	Supported instrument type
Market	Supported market
Cooperation Product	XHEL - Helsinki Exchange XKFE - Korea Futures Exchange XTAF - Taiwan Futures Exchange
Matching Parameters:	
Order Allocation Method Continuous	Order allocation method during continuous trading phase
Order Allocation Method Auction	Order allocation method during auction trading phase
Path Priority	Defines how the available quantity of the incoming order is allocated to different paths in case of an incoming order is executable against multiple paths at the same price level
Triangle Matches Supported	Defines whether a Futures Spread can synthetically match against two other Futures Spreads NO -Three futures spreads synthetically matching with each other is not supported YES-Three futures spreads synthetically matching with each other is supported
CrossPreventionAllowed	Defines whether the self-match prevention functionality is enabled or disabled for a certain product.

Market Making Parameters:	
Single Sided Quotes Allowed	The parameter is used to determine, if single sided quotes are allowed in a product.
Request for Quote (RFQ) Allowed	This parameter determines if the entry of a request for quote is allowed for the product.
RFQ Minimum Wait Time	Defines the minimum time required in milliseconds between RFQs for the same instrument.
RFQ User Maximum Requests	Defines the maximum number of RFQs allowed for the same user during the RFQ User Time Window.
RFQ User Time Window	Defines the time window used to control the RFQ User Maximum Requests parameter.
Market Maker Protection Enabled	Generally, options are set to market maker protection enabled, and futures to disabled. Selected futures products with larger numbers of expirations are also set to market maker protection enabled.

Instrument States and Volatility Interrupt Parameters:	
End Of Day Closing Auction Enabled	This parameter determines if the end of day closing auction is enabled for the product.
Intra-Day Closing Auction Enabled	This parameter determines if the intraday closing auction is enabled for the product.
Complex Instrument State Book Supported	This parameter determines if the complex instruments of a product support state “BOOK”
Volatility Interrupt Model	NO_CHECK - No Volatility Interrupt supported INSTRUMENT - The detection of a volatility interrupt condition is enabled for every simple instrument of the product. A Volatility Auction is started only for the instrument where the volatility interrupt condition was detected. PRODUCT - The detection of a volatility interrupt condition is normally enabled only for the simple instrument with the nearest expiry date. A few days before the expiry of that instrument, the detection of a volatility interrupt condition is also enabled for the simple instrument with the second nearest expiry date. When a volatility interrupt condition is detected, a volatility auction is started for all simple instruments of the product.
Volatility Interrupt Period	This parameter applies only if the Volatility Interrupt Model parameter has the value 3. It contains the number of days before the expiry of the simple instrument with the nearest expiry date, when the volatility interrupt detection is enabled also for the simple instrument with the second nearest expiry date.

Price Validation Parameters:	
Price Reasonability Mode	• No Check means there is no price reasonability check (no Standard and no Non-Standard), • Standard means only the Standard PRC validation applies (but not the Non-Standard), • Theoretical means the Standard and the Non-Standard price validations apply. In case, Non-Standard validation is applied, the reference price is the theoretical price. • Last means the Standard and the Non-Standard price validations apply. In case, Non-Standard validation is applied, the reference price is the last trade price
Standard Price Range Fast Percentage	During Fast market, the standard price range fast percentage is widened by this percentage.
Extended Price Range Table Id	Numeric identifier to the extended price range table, which is applicable for the product / instrument type.
Extended Price Range Fast Percentage	During Fast market, the extended price range fast percentage is widened by this percentage.
Enable EOBI (Eurex Enhanced Order Book Interface)	This parameter determines if the EOBI interface is enabled for the product.
Enable Pre-Trade Limits	This parameter determines if the pre trade limits can be set for product.

7. Order Profile Assignments

The following table lists the order profiles assigned to each product / instrument type combination.

For additional information, please see the Order Profiles chapter of the Functional Reference document.

The order profile assignments table includes the following fields:

Field	Description
Symbol	The business identifier by which the product is known.
Instrument Type	Supported instrument type
Order Profile	Order profile which is assigned to a product and instrument type combination.