



Eurex Exchange's T7

TES Profile and Flexible Instrument Characteristics File Descriptions

Version	7.1
Date	21 May 2019

Product and Instrument File Descriptions

Version 7.1

© Eurex 2015

Deutsche Börse AG (DBAG), Clearstream Banking AG (Clearstream), Eurex Frankfurt AG, Eurex Clearing AG (Eurex Clearing) as well as Eurex Bonds GmbH (Eurex Bonds) and Eurex Repo GmbH (Eurex Repo) are corporate entities and are registered under German law. Eurex Zürich AG is a corporate entity and is registered under Swiss law. Clearstream Banking S.A. is a corporate entity and is registered under Luxembourg law. U.S. Exchange Holdings, Inc. and International Securities Exchange Holdings, Inc. (ISE) are corporate entities and are registered under U.S. American law. Eurex Frankfurt AG (Eurex) is the administrating and operating institution of Eurex Deutschland. Eurex Deutschland and Eurex Zürich AG are in the following referred to as the "Eurex Exchanges".

All intellectual property, proprietary and other rights and interests in this publication and the subject matter hereof (other than certain trademarks and service marks listed below) are owned by DBAG and its affiliates and subsidiaries including, without limitation, all patent, registered design, copyright, trademark and service mark rights. While reasonable care has been taken in the preparation of this publication to provide details that are accurate and not misleading at the time of publication DBAG, Clearstream, Eurex, Eurex Clearing, Eurex Bonds, Eurex Repo as well as the Eurex Exchanges and their respective servants and agents (a) do not make any representations or warranties regarding the information contained herein, whether express or implied, including without limitation any implied warranty of merchantability or fitness for a particular purpose or any warranty with respect to the accuracy, correctness, quality, completeness or timeliness of such information, and (b) shall not be responsible or liable for any third party's use of any information contained herein under any circumstances, including, without limitation, in connection with actual trading or otherwise or for any errors or omissions contained in this publication.

This publication is published for information purposes only and shall not constitute investment advice respectively does not constitute an offer, solicitation or recommendation to acquire or dispose of any investment or to engage in any other transaction. This publication is not intended for solicitation purposes but only for use as general information. All descriptions, examples and calculations contained in this publication are for illustrative purposes only.

Eurex and Eurex Clearing offer services directly to members of the Eurex exchanges respectively to clearing members of Eurex Clearing. Those who desire to trade any products available on the Eurex market or who desire to offer and sell any such products to others or who desire to possess a clearing license of Eurex Clearing in order to participate in the clearing process provided by Eurex Clearing, should consider legal and regulatory requirements of those jurisdictions relevant to them, as well as the risks associated with such products, before doing so.

Eurex derivatives are currently not available for offer, sale or trading in the United States or by United States persons (other than EURO STOXX 50[®] Index Futures, EURO STOXX 50[®] ex Financials Index Futures, EURO STOXX[®] Select Dividend 30 Index Futures, EURO STOXX[®] Index Futures, EURO STOXX[®] Large/Mid/Small Index Futures, STOXX[®] Europe 50 Index Futures, STOXX[®] Europe 600 Index Futures, STOXX[®] Europe 600 Banks/Industrial Goods & Services/Insurance/Media/Travel & Leisure/Utilities Futures, STOXX[®] Europe Large/Mid/Small 200 Index Futures, Dow Jones Global Titans 50 IndexSM Futures (EUR & USD), DAX[®]/MDAX[®]/TecDAX[®] Futures, SMIM[®] Futures, SLI Swiss Leader Index[®] Futures, MSCI World/Europe/ Europe Value/Europe Growth/Emerging Markets/Emerging Markets Latin America/Emerging Markets EMEA/Emerging Markets Asia/China Free/India/Japan/Malaysia/South Africa/Thailand/AC Asia Pacific ex Japan Index Futures, VSTOXX[®] Futures, Gold and Silver Futures as well as Eurex agriculture, property and interest rate derivatives).

Trademarks and Service Marks

Buxl[®], DAX[®], DivDAX[®], eb.rexx[®], Eurex[®], Eurex Bonds[®], Eurex Repo[®], Eurex Strategy WizardSM, Euro GC Pooling[®], FDAX[®], FWB[®], GC Pooling[®], GCPI[®], MDAX[®], ODAX[®], SDAX[®], TecDAX[®], USD GC Pooling[®], VDAX[®], VDAX-NEW[®] and Xetra[®] are registered trademarks of DBAG.

All MSCI indexes are service marks and the exclusive property of MSCI Barra.

ATX[®], ATX[®] five, CECE[®] and RDX[®] are registered trademarks of Vienna Stock Exchange AG.

IPD[®] UK Annual All Property Index is a registered trademark of Investment Property Databank Ltd. IPD and has been licensed for the use by Eurex for derivatives.

SLI[®], SMI[®] and SMIM[®] are registered trademarks of SIX Swiss Exchange AG.

The STOXX[®] indexes, the data included therein and the trademarks used in the index names are the intellectual property of STOXX Limited and/or its licensors Eurex derivatives based on the STOXX[®] indexes are in no way sponsored, endorsed, sold or promoted by STOXX and its licensors and neither STOXX nor its licensors shall have any liability with respect thereto.

Dow Jones, Dow Jones Global Titans 50 IndexSM and Dow Jones Sector Titans IndexesSM are service marks of Dow Jones & Company, Inc. All derivatives based on these indexes are not sponsored, endorsed, sold or promoted by Dow Jones & Company, Inc. Dow Jones & Company, Inc. does not make any representation regarding the advisability of trading or of investing in such products.

Bloomberg Commodity IndexSM and any related sub-indexes are service marks of Bloomberg L.P.

All references to London Gold and Silver Fixing prices are used with the permission of The London Gold Market Fixing Limited as well as The London Silver Market Fixing Limited, which for the avoidance of doubt has no involvement with and accepts no responsibility whatsoever for the underlying product to which the Fixing prices may be referenced.

PCS[®] and Property Claim Services[®] are registered trademarks of ISO Services, Inc.

Korea Exchange, KRX, KOSPI and KOSPI 200 are registered trademarks of Korea Exchange Inc.

Taiwan Futures Exchange and TAIFEX are registered trademarks of Taiwan Futures Exchange Corporation.

Taiwan Stock Exchange, TWSE and TAIEX are the registered trademarks of Taiwan Stock Exchange Corporation.

BSE and SENSEX are trademarks/service marks of Bombay Stock Exchange (BSE) and all rights accruing from the same, statutory or otherwise, wholly vest with BSE. Any violation of the above would constitute an offence under the laws of India and international treaties governing the same.

The names of other companies and third party products may be trademarks or service marks of their respective owners.

Content

1. Introduction	4
1.1 Purpose of this Manual	4
1.2 Formatting of the Files	4
1.3 Further Reading	4
2. Change Log	5
3. TES Profile	6
4. Flexible Instrument Characteristics	7
5. Product Position Limit	8

1. Introduction

Detailed information about the TES profile and the Flexible Instrument Definition of 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:

- TES Profile
- Flexible Instrument Definition

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
4.0	23-Oct-2016	Initial version after TES functionality is migrated to T7
4.0	17-Jan-2017	Add Position Limit File (Chapter 5)
6.0	30-Nov-2017	Add new column LegPriceEntry (Chapter 3)
7.1	21-May-2019	Include new valid value "EnLight" of attribute TES type

3. TES Profile

The TES Profile table contains the most relevant TES parameters on product, instrument type and TES type level.

The TES Profile table includes the following fields:

Field	Description
ProductSymbol	Product ID of a product supporting TES trading activities in T7.
Instrument Type	Instrument type valid for the corresponding product; valid instrument types are "simple", "flexible", "futures calendar spread", "standard futures strategy", "pack & bundle", "strip", "standard options strategy", "non-standard options strategy" and "options volatility strategy"
TES Type	TES type valid for the corresponding product and instrument type; valid values are "block", "EFP_financial", "EFP_index", "EFS", "vola" and "EnLight"
BrokerAllowed	Flag to indicate whether broker trades (i.e. TES trades where the entering participant / firm is involved neither on the buy nor on the sell side) are allowed.
MaxParticipants	Maximum number of participants involved on the buy and sell side of a TES trade; a value of 2 indicates that only bi-lateral TES trades are allowed (1 buyer and 1 sell) and a value larger than 2 indicates that bi-lateral and multi-lateral TES trades are allowed.
MinimumLotSize	Minimum number of traded quantity required for a TES trade.
NonDisclosureLimit	Non-disclosure limit; by default all TES trades are published in real time; in case the quantity of a TES trade is higher than the non-disclosure limit, the entering participant can decide whether the TES trade is not published.
PriceValidationRule	TES price validation rule which is applied to verify the TES trade when entered to T7.
LegPriceEntry	Flag to indicate whether the entry of trade prices on leg level is allowed for complex instruments; if it is allowed, the leg price of all legs of the corresponding complex instrument must be entered and the resulting price on complex instrument level is calculated from the leg prices.

4. Flexible Instrument Characteristics

The following table lists the products supporting flexible instruments and their characteristics. Each table entry indicates a valid flexible instrument characteristics supported in T7.

The table includes the following fields:

Field	Description
ProductSymbol	Product ID of a product supporting flexible instruments for TES trading in T7.
FlexibleSymbol	Flexible symbol also denoted as FlexID.
Exercise Style	Exercise style of the corresponding flexible instrument; valid values are "American" style or "European" style.
Settlement Method	Settlement method of the corresponding flexible instrument; valid values are "cash" or "physical".

5. Product Position Limit

The following table lists the position limit of each Eurex and EEX product available on T7.

The table includes the following fields:

Field	Description
Symbol	Symbol or Product ID of a product
Long Name	Product long name
Currency	Product currency
Position Limit	Product position limit