

T7 Release 14.1

Underlying Ticker

Manual

Version 1
Date 29. January 2026

Content

1. Introduction	4
2. Multicast addresses	5
2.1 Production multicast addresses and ports	5
2.2 Simulation multicast addresses and ports	5
2.3 Service availability	5
3. Data and service messages	6
3.1 Packet header (TID = 80)	6
3.2 Underlying Ticker Message (TID = 180)	7
4. Change log	8

Disclaimer

Deutsche Börse Group 2026

This publication is for informational purposes only. None of the information in this publication constitutes investment advice and does not constitute an offer to sell or a solicitation of an offer to purchase any contract, share or other financial instrument. 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.

Deutsche Börse AG, Frankfurter Wertpapierbörse (FWB®), the Frankfurt Stock Exchange), Eurex Frankfurt AG, Eurex Deutschland and Eurex Clearing AG do not represent that the information in this publication is comprehensive, complete or accurate and exclude liability for any consequence resulting from acting upon the contents of this or another publication, in so far as no willful violation of obligations took place or, as the case may be, no injury to life, health or body arises or claims resulting from the Product Liability Act are affected.

Securities traded on the Frankfurt Stock Exchange and Eurex derivatives (other than EURO STOXX 50® Index Futures contracts, EURO STOXX® Select Dividend 30 Index Futures contracts, STOXX® Europe 50 Index Futures contracts, STOXX® Europe 600 Index Futures contracts, STOXX® Europe Large/Mid/Small 200 Index Futures contracts, EURO STOXX® Banks Sector Futures contracts, STOXX® Europe 600 Banks/Industrial Goods & Services/Insurance/Media/Personal & Household Goods/Travel & Leisure/Utilities Futures contracts, Dow Jones Global Titans 50 IndexSM Futures contracts, DAX® Futures contracts, MDAX® Futures contracts, TecDAX® Futures contracts, SMIM® Futures contracts, SLI Swiss Leader Index® Futures contracts, RDXxt® USD - RDX Extended Index Futures contracts, Eurex inflation/commodity/weather/property and interest rate derivatives) are currently not available for offer, sale or trading in the United States nor may they be offered, sold or traded by persons to whom US tax laws apply.

The fund shares listed in XTF Exchange Traded Funds® are admitted for trading on the Frankfurt Stock Exchange. Users of this information service who legally reside outside Germany are herewith advised that sale of the fund shares listed in XTF Exchange Traded Funds may not be permitted in their country of residence. The user makes use of the information at their own risk.

Legal validity of this disclaimer

In the event that individual parts of or formulations contained in this text are not, or are no longer, legally valid (either in whole or in part), the content and validity of the remaining parts of the document are not affected.

Trademarks

The following names and designations are registered trademarks of Deutsche Börse AG or an affiliate of Deutsche Börse Group:

1585®; A7®; Buxl®; C7®; CDAX®; CEF®; CEF alpha®; CEF ultra®; CFF®; Classic All Share®; Clearstream®; CX®; D7®; DAX®; DAXglobal®; DAXplus®; DB1 Ventures®; DBIX Deutsche Börse India Index®, Deutsche Börse®, Deutsche Börse Capital Markets Partner®; Deutsche Börse Commodities®; Deutsche Börse Venture Network®; Deutsches Eigenkapitalforum®; DivDAX®; eb.rexx®; eb.rexX Jumbo Pfandbriefe®; ERS®; eTriParty®; Eurex®; Eurex Bonds®; Eurex Clearing Prisma®; Eurex Improve®; Eurex Repo®; Euro GC®; ExServes®; EXTF®; F7®; FDAX®; FWB®; GC Pooling®; GCPI®; GEX®; Global Emission Markets Access – GEMA®; HDAX®; iNAV®; L-DAX®; L-MDAX®; L-SDAX®; L-TecDAX®; M7®; MDAX®; N7®; ODAX®; ÖkoDAX®;PROPRIS®; REX®; RX REIT Index®; SCHATZ-FUTURE®; SDAX®; ShortDAX®; StatistiX®; T7®; TecDAX®; Technology All Share®; TRICE®; USD GC Pooling®; VDAX®; VDAX-NEW®; Vestima®; Xscreen®, Xemac®; Xentric®, Xetra®; Xetra-Gold®; Xpect®; Xpider®; XTF®; XTF Exchange Traded Funds®; We make markets work®

The names and trademarks listed above do not represent a complete list and, as well as all other trademarks and protected rights mentioned in this publication, are subject unreservedly to the applicable trademark law in each case and are not permitted to be used without the express permission of the registered owner. The simple fact that this publication mentions them does not imply that trademarks are not protected by the rights of third parties.

The STOXX® indices, the data included therein and the trademarks used in the index names are the intellectual property of STOXX Ltd., Zug, Switzerland and/or its licensors. Eurex' derivatives based on the STOXX indices 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.

STOXX iSTUDIO® is a registered trademark of STOXX Ltd., Zug, Switzerland.

TRADEGATE® is a registered trademark of Tradegate AG Wertpapierhandelsbank.

EEX® is a registered trademark of European Energy Exchange AG.

Flexible is better.® is a registered trademark of Axioma, Inc.

1. Introduction

The Trading System T7 provides market and reference data via a set of multicast interfaces.

In addition to the Market Data Interface (MDI) for netted market data, the Enhanced Market Data Interface (EMDI) for un-netted market data, Enhanced Order Book Interface (EOBI) and the Reference Data Interface (RDI) for reference data, the Extended Market Data Service (EMDS) is also provided.

All interfaces distribute information via UDP multicast, following FIX 5.0 SP2 semantics and are FAST 1.1/1.2 encoded (except EOBI). Messages are in general published on two identical services (A and B) with different multicast addresses (live-live concept).

The present document describes the T7 Underlying Ticker Service.

This document lists the multicast addresses and describes the message layouts of the interface. FAST 1.1 and 1.2 templates for this interface will be provided

- for T7 derivatives markets on www.eurex.com and
- for T7 cash markets on the Xetra website www.xetra.com.

Please note: The present document explains the T7 Underlying Ticker Service only. The other market and reference data interfaces listed above are described in the T7 Market and Reference Data Interfaces Manual, which explains the general rules regarding FIX messages, FAST encoding and the live-live concept.

The Data Interface described in this manual has a version number. The version number is also listed at the beginning of the FAST XML templates.

This manual relates to the interface version number 141.000.000.

2. Multicast addresses

The Underlying Ticker data is disseminated via the following multicast addresses and port combinations in the Deutsche Börse network:

2.1 Production multicast addresses and ports

Service	Multicast - A	Multicast - B	Port
Underlying Ticker Data - Derivatives	224.0.50.75	224.0.50.203	59000
Underlying Ticker Data – Cash (XETR + XFRA)	224.0.161.31	224.0.163.31	59000
Underlying Ticker Data – Cash (XBUL)	224.0.161.49	224.0.163.49	59000

2.2 Simulation multicast addresses and ports

Service	Multicast - A	Multicast - B	Port
Underlying Ticker Data - Derivatives	224.0.50.91	224.0.50.219	59500
Underlying Ticker Data – Cash (XETR + XFRA)	224.0.164.95	224.0.165.95	59500
Underlying Ticker Data – Cash (XBUL)	224.0.164.94	224.0.165.94	59500

2.3 Service availability

The required bandwidth for this service will be limited to 50 kbit/second per channel.

The service will be technically available at least between 7:00 CET and 22:30 CET.

3. Data and service messages

3.1 Packet header (TID = 80)

Each datagram contains a packet header, which is used for identification of datagrams and is sent on a channel basis. Each header contains the following fields:

Field Name	FAST Data Type	Description
SenderCompID	uInt32	Unique id for a sender Each multicast channel uses the same logic.
PacketSeqNum	ByteVector	Datagram/packet sequence number Contiguous. Can be used for gap detection. Sequenced for each multicast channel itself. The PacketSeqNum's in the packet header are contiguous per SenderCompID, multicast address and port combination.
SendingTime	ByteVector	Time at which this packet left the sender (in nanoseconds since epoch).

The following table shows the structure of the block header before FAST-decoding:

1 Byte	1 Byte	1 Byte	1 Byte	4 Bytes	1 Byte	8 Bytes
PMAP	TID	Sender Comp ID	Length	PacketSeqNum	Length	SendingTime
1	2	3	4	8	9	17

3.2 Underlying Ticker Message (TID = 180)

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	Constant Always 'X'=MarketDataIncrementalRefresh
34	MsgSeqNum	Y	uint32	The sequence number of the message is incremented per stream message
49	SenderCompID	Y	uint32	Source ID of the sender
<MDIncGrp> sequence starts				
268	NoMDEntries	Y	length	Defines the size of the array
269	> MDEntryType	Y	enum	Market Data Entry Type <ul style="list-style-type: none"> • 0 = Bid • 1 = Offer • 2 = Trade
279	> MDUpdateAction	Y	enum	Type of Market Data update action Always '0' = New
48	> SecurityID	Y	string	Internal identifier for instrument (ISIN)
22	> SecurityIDSource	Y	string	Source Identification Always '4' = ISIN
270	> MDEntryPx	Y	decimal	Price or index value
271	> MDEntrySize	N	decimal	Quantity (not set for indexes)
273	> MDEntryTime	N	timestamp	Time of market data entry
15	> Currency	N	string	Price currency
1500	> MDStreamID	Y	string	Name of the price source, e.g. <ul style="list-style-type: none"> • XETR • XFRA • XIDX • XSTX • XEEE • XHEL • XBUL
< MDIncGrp> sequence ends				

4. Change log

No	Chapter, page	Date	Change
7.00	General	Aug 03, 2018	Creation of Simulation Version for T7 7.0
7.01	General	Nov 05, 2018	Creation of Production Version for T7 7.0
7.10	General	Feb 27, 2019	Creation of Simulation Version for T7 7.1, removed DUB
7.11	Ch. 2, Pg. 4	May 08, 2019	Added Multicast addresses for BUL (Bulgaria)
8.00	General	Jul 24, 2019	Creation of Simulation Version for T7 8.0
8.01	General	Sep 17, 2019	Creation of Production Version for T7 8.0
8.02	Ch. 2, Pg.4	Dec 19, 2019	Removal of Xetra Vienna Underlying Ticker
8.10	General	Mar 19, 2020	Creation of Simulation Version for T7 8.1
8.11	General	Jun 9, 2020	Creation of Production version for T7 8.1
9.00	General	Aug 04, 2020	Creation of Simulation Version for T7 9.0, updated interface version no and packet header TID
9.01	General	Oct 12, 2020	Creation of Production version for T7 9.0
9.10	General	Mar 26, 2021	Creation of Simulation version for T7 9.1
9.11	General	May 10, 2021	Creation of production version for T7 9.1
10.00	General	July 27, 2021	Creation of Simulation version for T7 10.0, updated interface version no and packet header TID
10.01	General	Sep 22, 2021	Creation of Production version for T710.0
10.10	General	Mar 08, 2022	Creation of Simulation version for T7 10.1
10.11	General	May 13, 2022	Creation of Production version for T7 10.1
11.00	General	July 21, 2022	Creation of Simulation version for T7 11.0
11.01	General	Oct 04, 2022	Creation of Production version for T7 11.0
11.1	General	Feb 14, 2023	Creation of Simulation version for T7 11.1
11.11	General	Mar 30, 2023	Creation of Production version for T7 11.1
12.00	General	Jul 24, 2023	Creation of Simulation version for T7 12.0
12.01	General	Sep 04, 2023	Updated version numbering scheme to 'Version 1'
12.02	General	Sep 25, 2023	Creation of version 2
12.10	General	Feb 05, 2024	Creation of version 1 for T7 12.1
12.11	General	Apr 08, 2024	Creation of version 2
13.00	General	Jul 23, 2024	Creation of version 1 for T7 13.0
13.1	General	Feb 07, 2025	Creation of version 1 for T7 13.1
14.00	General	Aug 08, 2025	Creation of version 1 for T7 14.0, updated interface version no and packet header TID
14.1	General	Jan 26, 2026	Creation of version 1 for T7 14.1