Eurex Exchange’s T7

Eurex Extended Market Data Service

Eurex Trade Prices, Settlement Prices and Open Interest Data

Manual - Simulation Version

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1. Introduction

Eurex Exchange provides market and reference data via a set of several multicast interfaces.

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

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

The present document describes the Eurex Extended Marked Data Service.

The Eurex Extended Market Data Service provides participants of Eurex Exchange's T7 with:

- Intraday Settlement prices,
- Open Interest data and
- Single and multi-leg Eurex Off-book trade prices

This document lists the multicast addresses and describes the message layouts of the interface. FAST 1.1 and 1.2 templates will be provided for this Interface on the Eurex website at www.eurexchange.com.

Furthermore an additional 'Replay Service' is provided which allows users to 'recover' from data loss for the following data items:

- Intraday Settlement prices,
- Open Interest data and
- Single and multi-leg Eurex Off-book trade prices
- On-exchange trades from the new Eurex trading architecture.

The Replay service is simply a re-send of the data that was sent out before in realtime to give applications a chance to re-capture data again in its full format. There is no linkage in sequence numbers etc. between the realtime data and the replay data.

As this service is based on multicast, no individual requests are possible, instead these messages are sent out at predefined times in replay cycles which start with a heading 'start of service' message and end with a trailing 'end of service' message (MDReport message). The number of messages is provided at each start of a cycle. All replay messages are sequenced within the appropriate multicast channel. Each cycle for the replay service for the US-allowed and the US-restricted products is triggered separately. The replay service should be processed for each channel separately. There are at least two replay cycles per multicast channel per trading day. Within one replay cycle the data is replayed several times directly in a row.

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

The Extended Market 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 003.001.001.

2. Multicast addresses

The Settlement prices, Open Interest and Eurex Off-book trade prices will be disseminated via the following multicast addresses and port combinations in the Eurex network:

2.1 Production multicast addresses and ports

2.1.1 For Real-time Service

Service	Multicast Groups Service A	Multicast Groups Service B	Ports
Eurex Off-book trade prices	224.0.50.76	224.0.50.204	US-allowed products: 59000 US-restricted products: 59032
Settlement prices	224.0.50.77	224.0.50.205	
Adjusted Open Interest	224.0.50.78	224.0.50.206	

2.1.2 For Replay Service

Service	Multicast Groups Service A	Multicast Groups Service B	Ports
Eurex Off-book trade prices	224.0.50.76	224.0.50.204	US-allowed products: 59001 US-restricted products: 59033
Settlement prices	224.0.50.77	224.0.50.205	
Adjusted Open Interest	224.0.50.78	224.0.50.206	
On-exchange trade prices	224.0.50.79	224.0.50.207	

2.2 Simulation multicast addresses and ports

2.2.1 For Real-time Service

Service	Multicast Groups Service A	Multicast Groups Service B	Ports
Eurex Off-book trade prices	224.0.50.92	224.0.50.220	US-allowed products: 59500 US-restricted products: 59532
Settlement prices	224.0.50.93	224.0.50.221	
Adjusted Open Interest	224.0.50.94	224.0.50.222	

2.2.2 For Replay Service

Service	Multicast Groups Service A	Multicast Groups Service B	Ports
Eurex Off-book trade prices	224.0.50.92	224.0.50.220	US-allowed products: 59501 US-restricted products: 59533
Settlement prices	224.0.50.93	224.0.50.221	
Adjusted Open Interest	224.0.50.94	224.0.50.222	
On-exchange trade prices	224.0.50.95	224.0.50.223	

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.

The adjusted Open Interest will be available after 13:00 CET. The intraday Settlement Prices will be available as soon as they are determined by Eurex in the afternoon (different product groups have different schedules).

Replay dissemination schedule

- 2:00 pm CET Adjusted Open interest – 1st cycle
- 5:45 pm CET On-Exchange trades – 1st cycle
- 6:00 pm CET Off-book trades – 1st cycle
- 6:15 pm CET Settlement prices – 1st cycle
- 6:30 pm CET Adjusted Open interest – 2nd cycle
- 8:15 pm CET On-Exchange trades – 2nd cycle
- 10:30 pm CET Off-book trades – 2nd cycle
- 10:30 pm CET On-Exchange trades – 3rd cycle
- 10:40 pm CET Settlement prices – 2nd cycle
- 10:55 pm CET Adjusted Open interest – 3rd cycle

3. Data and service messages

3.1 Settlement prices (TID = 172)

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	Message type Always 'W' = MarketDataSnapshotFullRefresh
48	SecurityID	Y	Int64	Instrument ID from Eurex Exchange's T7
22	SecurityIDSource	Y	string	Source Identification Always 'M' = Marketplace-assigned Identifier
1300	MarketSegmentID	Y	uInt32	Product ID from Eurex Exchange's T7
<MDFullGrp> sequence starts				
268	NoMDEntries	Y	length	Defines the number of entries to follow. Here always '1'.
269	> MDEntryType	Y	MDEntryType (enum)	Type of Market Data entry Always '6' = Settlement Price
270	> MDEntryPx	Y	decimal	Intraday Settlement Price
29830	> MDSecPx	N	decimal	Settlement Price in trading notation (only for Variance Futures)
273	> MDEntryTime	Y	timestamp	Time of entry
<MDFullGrp> sequence ends				

Note: The settlement prices of the previous business day are provided with the Eurex RDI in the instrument snapshot message and the Eurex RDF.

3.2 Adjusted open Interest (TID = 171)

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	Message type Always 'W' = MarketDataSnapshotFullRefresh
48	SecurityID	Y	Int64	Instrument ID from Eurex Exchange's T7
22	SecurityIDSource	Y	string	Source Identification Always 'M' = Marketplace-assigned Identifier
1300	MarketSegmentID	Y	uInt32	Product ID from Eurex Exchange's T7
<MDFullGrp> sequence starts				
268	NoMDEntries	Y	length	Defines the number of entries to follow. Here always '1'.
269	> MDEntryType	Y	MDEntryType (enum)	Type of Market Data entry Always 'C' = Open Interest
271	> MDEntrySize	Y	uInt32	Adjusted Open Interest Quantity
273	> MDEntryTime	Y	timestamp	Time of entry
<MDFullGrp> sequence ends				

Note: The adjusted open interest of the previous business day is provided with the Eurex RDI in the instrument snapshot message and the Eurex RDF.

3.3 SingleLeg Eurex Off-book trades (TID = 173)

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	Message type Always 'X' = MarketDataIncrementalRefresh
1300	MarketSegmentID	Y	uInt32	Product ID from Eurex Exchange's T7
<MDIncGrp> sequence starts				
268	NoMDEntries	Y	length	Defines the number of entries to follow. Here always '2'.
279	> MDUpdateAction	Y	MDUpdate Action (enum)	Type of Market Data update action 0 = New 1 = Change (not used) 2 = Delete
269	> MDEntryType	Y	MDEntryTy pe (enum)	Type of Market Data entry 2 = Trade B = Trade Volume
48	> SecurityID	Y	Int64	Instrument ID from Eurex Exchange's T7
22	> SecurityIDSource	Y	string	Source Identification Always 'M' = Marketplace-assigned Identifier
270	> MDEntryPx	N	decimal	Trade Price
271	> MDEntrySize	Y	uInt32	Quantity
273	> MDEntryTime	N	timestamp	Time of entry
828	> TrdType	N	TrdType (enum)	Eurex Off-book Trade Type 1 = Off-book Block Trade 2 = EFP (Exchange for Physical) 12 = Exchange for Swap (EFS) 55 = Exchange Basis Facility 1000 = Vola Trade 1001 = EFP-Fin Trade 1002 = EFP-Index-Futures Trade
1003	> TradeID	N	string	Contains the Eurex classic trade ID
<MDIncGrp> sequence ends				

3.4 MultiLeg Eurex Off-book trades (TID = 174)

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	Message type Always 'X' = MarketDataIncrementalRefresh
7703	MarketSegment	Y	string	Product name
15	Currency	Y	string	Currency (e.g. 'EUR' for Euro)
<MDIncGrp> sequence starts				
268	NoMDEntries	Y	length	Defines the number of entries to follow. Here always '2'.
279	> MDUpdateAction	Y	MDUpdate Action (enum)	Type of Market Data update action 0 = New 1 = Change (not used) 2 = Delete
269	> MDEntryType	Y	MDEntryTy pe (enum)	Type of Market Data entry 2 = Trade B = Trade Volume
207	> SecurityExchange	Y	string	Source (e.g. 'XEUR' for Eurex)
167	> SecurityType	Y	string	Type of security Here always 'MLEG' for Multileg.
762	> SecuritySubType	Y	uInt32	Standard strategy type for complex instruments. The mapping of strategy types with the corresponding integer value is published in the file "Products and Instruments" on the Eurex website at: www.eurexchange.com > Technology > T7> Documents
1227	> ProductComplex	Y	Product-Complex (enum)	1 = Simple Instrument (not used in this case) 2 = Standard Option Strategy 3 = Non-Standard Option Strategy (not used) 4 = Volatility Strategy 5 = Futures Spread
<InstrmntLegGrp> sequence starts				
555	> NoLegs	Y	length	Use to convey complex instrument legs.

602	>> LegSecurityID	Y	Int64	Instrument ID from Eurex Exchange's T7
603	>> LegSecurityIDSource	Y	string	Security id source Always 'M' = Marketplace-assigned Identifier
624	>> LegSide	Y	LegSide (enum)	Buy or Sell code 1 = Buy 2 = Sell
623	>> LegRatioQty	Y	uInt32	The ratio of quantity for this individual leg relative to the entire multileg security.
556	>> LegPrice	N	decimal	Price for the leg instrument. Used for the underlying leg of a Volatility Strategy.
<InstrmntLegGrp> sequence ends				
270	> MDEntryPx	N	decimal	Trade Price
271	> MDEntrySize	Y	uInt32	Quantity
273	> MDEntryTime	N	timestamp	Time of entry
828	> TrdType	N	TrdType (enum)	Eurex Off-book Trade Type 1 = Off-book Block Trade 2 = EFP (Exchange for Physical) 12 = Exchange for Swap (EFS) 55 = Exchange Basis Facility 1000 = Vola Trade 1001 = EFP-Fin Trade 1002 = EFP-Index-Futures Trade
<RelatedTradesGrp> (optional) sequence starts				
1855	> NoRelatedTrades	Y	length	Defines the number of entries (legs)
1856	>> Related TradeID	Y	string	Contains an Eurex classic trade ID
<RelatedTradesGrp> (optional) sequence ends				
<MDIncGrp> sequence ends				

Please note that each multileg trade message comes along with single leg trade messages representing the different legs of the complex instrument.

3.5 Packet header (TID = 76)

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. Constant value: • Standard Value • Failover Value
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

3.6 Extended technical heartbeat (TID = 170)

The heartbeat message is sent periodically as a 'line active' indicator when there are no messages generated on the feed for a preconfigured period of time. Each heartbeat contains the following fields:

Field Name	FAST Data Type	Description
SenderCompID	uInt32	Unique id for a sender Each multicast channel uses the same logic. Constant value: • Standard Value

		• Failover Value
LastPacketSeqNum	uInt32	Contains the last PacketSeqNum of the corresponding multicast channel.

3.7 Market Data Report Message (TID = 152)

The MDReport message is used for the Replay Service. It is sent as a wraparound bracket for distributing the product and instrument snapshots. Since the replay service is also a dissemination cycle, start and end marks are needed. Each MDReport contains the following fields:

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	U20 - MarketDataReport
5468	MDCount	N	uInt32	Count of messages in the replay cycle. Only sent for MDReportEvent 3, 5, 7 and 9
369	LastMsgSeqNumProcessed	N	uInt32	
28827	MDReportEvent	Y	MDReportEvent (enum)	1 = Start Of Reference Data (not used) 2 = End Of Reference Data (not used) 3 = Start Of Off-book Trades 4 = End Of Off-book Trades 5 = Start Of Exchange Trades 6 = End Of Exchange Trades 7 = Start Of Open Interest 8 = End Of Open Interest 9 = Start Of Settlement 10 = End Of Settlement 11 = Start Of Statistic Meta Data 12 = End Of Statistic Meta Data
60	TransactTime	Y	timestamp	Transaction Time

3.8 On-exchange trades (TID = 175)

For the dissemination of the on-exchange trades from Eurex T7 a new template id 175 is used which closely resembles the template id 94 that is defined for EMDI/MDI trades (DepthIncremental messages), but those parts that relate to orderbook information and trade volume information were removed.

FIX Tag	FIX Field Name	Req'd	FAST Data Type	Description
35	MsgType	Y	string	Message type Always 'X' = MarketDataIncrementalRefresh
34	MsgSeqNum	Y	uInt32	The sequence number is incremented per product across all message types on a particular feed.
49	SenderCompID	Y	uInt32	Unique ID of a sender.
1300	MarketSegmentID	Y	uInt32	Product ID from Eurex Exchange's T7
<MDIncGrp> sequence starts				
268	NoMDEntries	Y	length	Defines the number of entries to follow. Here always '1'.
279	> MDUpdateAction	Y	MDUpdate Action (enum)	Type of Market Data update action 0 = New 2 = Delete
269	> MDEntryType	Y	MDEntryTy pe (enum)	Type of Market Data entry Here always '2' = Trade
48	> SecurityID	Y	Int64	Instrument ID from Eurex Exchange's T7
22	> SecurityIDSource	Y	string	Source Identification Always 'M' = Marketplace-assigned Identifier
270	> MDEntryPx	N	decimal	Trade Price
271	> MDEntrySize	Y	uInt32	Trade Quantity
273	> MDEntryTime	Y	timestamp	Time of entry
828	> TrdType	N	TrdType (enum)	Defines when the trade happens 1100 = Opening Auction Trade 1101 = Intraday Auction Trade

				1102 = Volatility Auction Trade 1103 = Closing Auction Trade 1104 = Cross Auction Trade
277	> TradeCondition	N	TradeCondition (set)	Defines the type of price for MDEntryPx. U = Exchange Last R = Opening Price AX = High Price AY = Low Price AJ = Official Close Price AW = Last Auction Price k = Out of Sequence BD = Previous Closing Price a = Volume only
28819	> MDGapIndicator	N	uInt32	Reserved for future use.
28820	>AggressorTimestamp	N	timestamp	Entry time of the incoming order that triggered the trade.
28731	>AggressorSide	N	Aggressor Side (enum)	Side of the incoming order which created the trade. 1 = Buy 2 = Sell
28821	>NumberOfBuyOrders	N	uInt32	Number of buy orders involved in this trade.
28822	>NumberOfSellOrders	N	uInt32	Number of sell orders involved in this trade.
278	>MDEntryID	Y	uInt32	Represents the T7 match step ID.
<MDIncGrp> sequence ends				

4. Change log

No	Chapter, page	Date	Change
1.0	General	July 18, 2012	Creation of document
1.1	General	Oct. 9, 2012	Created Simulation Version of this document
			Added the description for the Replay Service
1.2	Ch. 1, Pg.5	Nov 21,2012	Updated the related xml template number
	Ch. 3.3, Pg. 10		Changed tag 1020 (TradeVolume) to optional
	Ch. 3.4, Pg. 11		Changed tag 762 (SecuritySubType) to optional
	Ch. 3.4, Pg. 12		Changed tag 1020 (TradeVolume) to optional
	Ch. 3.4, Pg. 12		Moved the <InstrmntLegGrp> sequence end
	Ch. 3.7, Pg. 14		Added tag 60 (TransactTime)
	Ch. 3.7, Pg. 14		Changed tag 369 to optional
	Ch. 3.8, Pg. 16		Changed tag 1020 (TradeVolume) to optional
2.0	Ch. 1, Pg. 4	Aug 12, 2013	Clarified relation between realtime and replay data
	Ch. 1, Pg. 5		Adjusted interface version number
	Ch. 3.3, Pg. 9		Added enum value 1 for MDUpdateAction
	Ch. 3.4, Pg. 11		Added enum value 1 for MDUpdateAction
	Ch. 3.4, Pg. 11		Corrected FAST Data Type for ProductComplex to uInt32
	Ch. 3.5, Pg. 13		Added sentence for PacketSeqNum
	Ch. 3.8, Pg. 14		Added enum value 1 and 2 for MDReportEvent
	Ch. 3.9, Pg. 17		Added Ticker Message
2.01	Ch. 3.8, Pg. 16	Nov 12, 2013	"PreviousClosingPrice" moved to the end of the TradeConditionSet bitmask flag
2.02	Ch. 3.1, 3.2, 3.3, 3.4 and 3.8	Nov 20, 2013	Changed FAST Data Type for SecurityID and LegSecurityID from uInt64 to Int64
2.03	Ch. 3.4, Pg. 11	Nov 26, 2013	Changed FAST Data Type for ProductComplex to enum
2.1.0	Ch. 1, Pg. 5	Jan 30, 2014	Updated interface version number
	Ch. 3.5, Pg. 13		Updated Template ID for Packet Header to TID=114
	Ch. 3.8, Pg. 16		Added set value 'a' for Fix tag 277 (TradeCondition)
2.1.1	Ch. 3.8, Pg. 15	Feb 14, 2014	Changed tag 270 (MDEntryPx) to optional (Volume only)
	Ch. 3.8, Pg. 16		Changed tag 278 (MDEntryID) to mandatory
2.5	Ch. 1, Pg. 5	Jul 31, 2014	Updated interface version number
	General		Renamed OTC to Off-book
	Ch. 2, Pg. 6		Removed IP addresses for Ticker Data
	Ch. 3.1, 3.2, 3.3,		Changed FAST Data Type for MDEntryType from string to

	3.4 and 3.8		enum
	Ch. 3.3, 3.4, 3.8		Removed tag 1020 (TradeVolume)
	Ch. 3.3, 3.4		Tag 269: Added MDEntryType=B
	Ch. 3.9, Pg. 17		Removed Eurex Underlying Ticker Message
2.5.1	General	Oct 13, 2014	Creation of 'Final version'
3.0	General	July 16, 2015	Created Simulation Version for Eurex T7 3.0
	Ch. 1, Pg. 5		Updated interface version number
	Ch. 3.1, Pg. 8		Added tag 29830 (MDSecPx) for Settlement Prices for Variance Futures in Trading Notation
	Ch. 3.5, Pg. 13		Updated Template ID for Packet Header to TID=76