



DEUTSCHE BÖRSE
CASH MARKET

T7 Release 13.0

Final Release Notes

for the Trading Venues Xetra and Börse Frankfurt

Version 1

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1. Overview of T7 Release 13.0

Deutsche Börse AG is planning to launch T7 Release 13.0 on 18 November 2024.

The following diagram gives an overview of the introduction schedule:

2024								2025		
Q2		Q3			Q4			Q1		
May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
		09.08. T7 Release 13.0 Cloud Simulation								
T7 Release 12.1 Permanent Simulation				09.09. T7 Release 13.0 Simulation						
								18.11. T7 Release 13.0 Production		
<p>▲ Preliminary Release Notes - Jun 2024</p> <p> ▲ Documents for Cloud Simulation - Aug 2024</p> <p> ▲ Final Release Notes - Aug 2024</p> <p> ▲ Documents for simulation start - Aug 2024</p> <p> ▲ Documents for production start - Nov 2024</p>										

Deutsche Börse AG provides a dedicated release simulation environment to give trading participants the opportunity to perform comprehensive testing of their trading applications independent from the T7 production environment.

The simulation period for T7 Release 13.0 is planned to start on 09 September 2024.

In addition, and prior to the T7 release simulation, Deutsche Börse AG offers a T7 Release 13.0 Cloud Simulation to allow trading participants and Independent Software Vendors (ISVs) to test the T7 Release 13.0 ETI, FIX LF interface changes, the T7 Trader GUI and T7 Admin GUI changes, as well as the RDI, MDI, EMDI and EOBI interface changes. The GUIs are accessible via the established VPN. In the Cloud Simulation, participants can initiate predefined market scenarios and test specific strategies more easily than in a shared environment. The Cloud Simulation is available around the clock for a fixed price per hour and started on 09 August 2024.

The T7 Cloud Simulation will be offered free of charge for the month of August 2024. With this waiver the Exchange incentivizes early development and testing before the start of the regular T7 simulation.

For more information on the T7 Cloud Simulation, please refer to <http://www.xetra.com/xetra-en/technology/t7/cloud-simulation>.

1.1 New Features and Enhancements Overview

The following new features and enhancements will be introduced with or after T7 Release 13.0:

	Relevant for	
	T7 Xetra	T7 Börse Frankfurt
Xetra Midpoint	X	
Enhancements of the Short Code and Algo ID Solution	X	X
ISV and Software Registration Process via Member Section	X	X
Further Changes and Enhancements	X	X

1.2 Note on Interfaces

T7 Release 13.0 will **not** provide backwards compatibility for the T7 ETI/FIX LF interface version of T7 12.1, i.e., participants will have to use the new interface version and will **not** be able to connect to T7 with the interface layout version of T7 12.1 anymore, after the production launch of T7 Release 13.0.

Public market and reference data interfaces, including EOBI, EMDI, MDI, RDI/RDF, as well as reports and data files, will not provide backwards compatibility.

1.3 Further Reading

The existing documents have been or will be revised for T7 Release 13.0. The following table provides an overview of the publication schedule:

T7 Release 13.0	Derivatives Markets	Cash Markets	Combined	2024						
				17.06.	07.08.	26.08.	06.09.	04.11.	15.11.	
Preliminary Release Notes	x	x		v1						
Enhanced Trading Interfaces Manual, incl. XSD, XML Representation and Layouts			x		v1	v2		v3		
FIX LF Manual, incl. XSD, XML Representation and Layouts			x		v1	v2		v3		
Market-, Enhanced Order Book- and Reference Data Interfaces Manual incl. XML Fast Templates & FIXML Schema Files			x		v1	v2		v3		
Trader, Admin and Clearer GUI – User Manual	x	x			v1	v2		v3		
Final Release Notes	x	x				v1				
Extended Market Data Services Manual & Underlying Ticker Data Manual incl. XML Fast Templates			x			v1		v2		
XML Report Reference Manual, Modification Notes & XML Schema files			x			v1		v2		
Functional Reference			x			v1				
Functional and Interface Overview			x			v1				
Trader, Admin and Clearer GUI – Installation Manual			x			v1				
Participant and User Maintenance Manual	x	x				v1				
Cross System Traceability			x			v1				
Incident Handling Guide			x			v1				
Participant Simulation Guide			x			v1				
T7 Known Limitations for Simulation			x				v1			
Cash Market Instrument Reference Data Guide		x				v1				
Exchange Rules & Regulations		x						v1	v1	
Market Models		x						v1		
T7 Known Limitations for Production			x							v1

v1: Version 1

v2: Version 2 (optional)

v3: Version 3 (optional)

Please note that the outlined schedule is subject to change.

The documents will be available on the Xetra website www.xetra.com under the path:

> Technology > T7 Trading Architecture > System Documentation > Release 13.0

1.4 Contacts

If you have questions or require further information, please contact us via e-mail at client.services@deutsche-boerse.com.

1.5 Definitions and Abbreviations

Term/Abbreviation	Description
AO	Auction-Only
BBO	Best Bid Offer flag
BOC	Book-or-Cancel
Börse Frankfurt	Trading venue of FWB, where equities, bonds, ETFs, ETCs, ETNs, mutual funds and structured products are traded
CAO	Closing-Auction-Only
CLOB	Central Limit Order Book
CRE	Common Report Engine
CSV file	Comma-separated values file
DBAG	Deutsche Börse AG
EMDI	T7 Enhanced price level netted Market Data Interface
EOBI	T7 Enhanced Order Book Market Data Interface
ESMA	European Securities and Markets Authority
ETC	Exchange Traded Commodities
ETI	T7 Enhanced Trading Interface
ETN	Exchange Traded Notes
FIX LF	Financial Information eXchange (protocol) Low Frequency interface
FOK	Fill-or-Kill order
FWB	Frankfurter Wertpapierbörse
GFD	Good-for-Day
GTC	Good-till-Cancelled
GTD	Good-till-Date
GUI	Graphical User Interface
IAO	Intraday-Auction-Only
IOC	Immediate-or-Cancel order
ISV	Independent Software Vendor
LC	Long Code
LMTP	Last Midpoint trade price
MAQ	Minimum Acceptable Quantity
MDI	T7 netted price level aggregated Market Data Interface
MIC	Market Identification Code (e.g. XETR)
MOQ	Maximum Order Quantity

Term/Abbreviation	Description
MOV	Maximum Order Value
MRMTL	Most relevant market in terms of liquidity
OA0	Opening-Auction-Only
PRC	Price Reasonability Check
PTRL	Pre-Trade Risk Limit
RDF	T7 Reference Data File
RDI	T7 Reference Data Interface
RLP	Retail Liquidity Provider
RMO	Retail Member Organization
SC	Short Code
SMP	Self-Match Prevention
T7	The trading architecture developed by Deutsche Börse Group
TES	T7 Entry Service
XETR	Market Identifier Code (MIC) of trading venue T7 Xetra
XFRA	Market Identifier Code (MIC) of trading venue T7 Börse Frankfurt

2. Xetra Midpoint

With T7 Release 13.0, Xetra will offer the new Xetra Midpoint service, i.e., the possibility to execute orders at the midpoint of the currently available Xetra best bid/best ask price in the Central Limit Order Book (CLOB). Xetra Midpoint will be a highly consistent, easy to implement, and ready to use service. This integrated solution at the heart of price discovery for German instruments will facilitate Midpoint trading without cross-venue latency arbitrage and with superior execution quality.

The functionality will be made available after release start. The exact date will be communicated via circular.

2.1 Functional Description

2.1.1 The new Midpoint order book

The new Xetra Midpoint service will offer a new and separate order book, in which orders can be executed with volume-time priority at the midpoint of the currently available best bid/best ask price of the Central Limit Order Book (CLOB) of Xetra. The midpoint will be rounded to the T7 tick size which may be more granular than the ESMA tick size. The Midpoint order book will be a 'dark' order book, i.e., there will be no pre-trade transparency as in the 'lit' Xetra CLOB. The orders in the Midpoint order book will not be disclosed to other market participants by any orderbook interface or by any market data product.

Due to synchronisation, there will be no latency disadvantage for Midpoint Sweep orders inserted first into the Xetra Midpoint order book before entering the Xetra CLOB, compared to orders directly inserted into the Xetra CLOB.

Xetra midpoint execution will take place only in the instrument state *Continuous* of the trading model *Continuous Trading with Auctions*. Midpoint execution will neither happen in auctions, nor in volatility interruptions, nor in Trade-at-Close.

Cross Requests will not be available for Midpoint trading.

2.1.2 Participants and Instruments

All traders entitled for trading in the Xetra CLOB by the existing *Cash Trader* role will also be entitled for Midpoint trading in Xetra.

All instruments traded on Xetra will be eligible for Midpoint trading, but only a subset of instruments will be made available for Midpoint trading by setting a Midpoint enabling flag on instrument level. These will be instruments where Xetra is the most relevant market in terms of liquidity (MRMTL) as defined by ESMA.

Instruments in scope for Midpoint trading will be marked as such in the instrument reference data.

2.1.3 New Midpoint (Sweep) order

There will be a new Midpoint order which can optionally be entered as a Midpoint Sweep order, thus two new order subtypes are defined:

- The Midpoint order.
- The Midpoint Sweep order.

Midpoint orders will be entered into the Midpoint order book only ('dark'). They never enter the Xetra CLOB and never interfere with orders in the Xetra CLOB. Midpoint orders can be executed only by matching with other Midpoint or Midpoint Sweep orders in the Midpoint order book. Remainders of partial executions will stay in the Midpoint order book.

Midpoint Sweep orders will first try to match against sitting Midpoint orders in the Midpoint order book. If no such match is possible, or if the Midpoint Sweep order is only partially matched in the Midpoint order book, the Midpoint Sweep order with its full or remaining quantity will be immediately forwarded to the Xetra CLOB ('dark-to-lit'), whereby its order type will change from *Midpoint* to *Regular*. The Sweep flag will not be removed, so that the order will still be recognizable as a former Midpoint Sweep order. Any modifications thereafter only apply to the order in the CLOB.

Please note that the entry of Midpoint and Midpoint Sweep orders via ETI and FIX LF is accomplished by setting the new *Midpoint Type* field accordingly.

2.1.4 Order attributes, conditions, restrictions

Midpoint or Midpoint Sweep orders can be entered as Market (M) or Limit (L) orders. The execution conditions IOC and FOK are allowed for both, while BOC is allowed only for Midpoint Sweep orders. IOC and FOK are effective for the Midpoint order book as well as for the CLOB. The BOC condition of Midpoint Sweep orders becomes effective only once the order enters the CLOB. Supported validity constraints for Midpoint and Midpoint Sweep orders are GFD, GTC, and GTD. The following trading capacities are allowed for Midpoint trading: Agency, Riskless Principle, Market Maker, and Proprietary. Midpoint and Midpoint Sweep orders may be persistent or non-persistent.

Auction-related order restrictions such as OAO, IAO, CAO, or AO will result in an error for Midpoint orders, but can be entered for Midpoint Sweep orders for which they will be without effect in the Midpoint order book. For Midpoint Sweep orders such order restrictions come into effect only once they enter the CLOB.

Limit prices of Midpoint orders (not: Midpoint Sweep orders) may be of the granularity of the T7 tick size, to which the Midpoint price will be rounded, i.e., a Midpoint order limit price may be more granular than the ESMA tick size.

The BBO flag for Midpoint and Midpoint Sweep orders will always be *False*. In case the Midpoint Sweep order is transferred to the CLOB, the regular BBO flagging processing will be applied.

The passive/aggressive indicator for Midpoint trades will be set according to the known rules. If two sitting Midpoint orders match due to a move of the Midpoint, both will be marked as 'passive'. For order execution messages, the passive / aggressive indicator (Fill Liquidity Indicator) will show new valid values for Midpoint orders, either 'added' (passive) or 'removed' (active) liquidity to/from the Midpoint order book.

2.1.5 Order Modification

The change of a Midpoint order into an order of any other type, and vice versa, will not be allowed. In addition, it will not be allowed to change a Midpoint order into a Midpoint Sweep order, and vice versa.

The following modifications result in a new timestamp on order modification:

- Changing the limit of a Midpoint or Midpoint Sweep order
- Increasing the quantity of a Midpoint or Midpoint Sweep order

- Increasing or decreasing the Minimum Acceptable Quantity of a Midpoint order, see next subchapter.

2.1.6 Minimum Acceptable Quantity

Traders may set a Minimum Acceptable Quantity (MAQ) for each Midpoint order individually. A MAQ cannot be entered for Midpoint Sweep orders. The MAQ ensures that Midpoint orders will match only against other sitting or incoming orders in the Midpoint order book which have in sum a quantity greater or equal to the MAQ. Outside of the Midpoint order book, the MAQ has no effect. This size restriction prevents traders from “pinging” the current midpoint with small orders to test whether there is any resting liquidity available in the Midpoint order book.

The MAQ should be equal to or a multiple of the minimum tradable unit. The MAQ will have to be smaller than or equal to the order quantity available for executions.

As soon as the remaining quantity of a Midpoint order falls below its MAQ after a partial Midpoint execution, the MAQ will be reduced to the remaining quantity. The total quantity of the Midpoint order in the Midpoint order book will not be adapted to the reduced MAQ, but the Midpoint matching algorithm will consider the updated MAQ, now equal to the remaining quantity, for the next Midpoint execution. This will not lead to a new timestamp since an actual modification of the order does not take place.

2.1.7 Validations

Midpoint and Midpoint Sweep orders will be subject to all usual validations known for Regular orders, such as Maximum Order Value (MOV), Maximum Order Quantity (MOQ), Price Reasonability Check (PRC), or Pre-Trade Risk Limits.

Midpoint and Midpoint Sweep orders will have to comply with all above-mentioned order conditions and restrictions, including validity and the MAQ, to take part in the volume-time priority matching of the Midpoint order book.

The price limit of Midpoint and Midpoint Sweep orders entered as Limit orders (L) will not be considered for any price determination in Midpoint matching since the Midpoint price for any potential match in the Midpoint order book will be determined by the CLOB. In the Midpoint order book, the limit will only serve as cap or floor, limiting the price at which a buy or sell Midpoint or Midpoint Sweep order may be executed.

Any Midpoint price which, after rounding to the T7 tick size, will be equal to the best bid or to the best offer of the BBO spread in the Xetra CLOB will not be considered a valid Midpoint price and no Midpoint execution will take place based on this price.

Any Midpoint price outside the current volatility corridor will not result in a Midpoint match. The execution of Midpoint or Midpoint Sweep orders at the current midpoint in the Midpoint order book will not trigger any volatility interruption, nor will it trigger the adjustment of any Xetra reference prices (incl. Xetra Retail). Also, Midpoint executions will not trigger any Stop orders in the CLOB.

Midpoint and Midpoint Sweep orders will be subject to the existing MiFID validations as Regular orders. Therefore, all the MiFID relevant attributes will be applicable also for Midpoint and Midpoint Sweep orders.

Any midpoint order entered with a liquidity provision flag will be accepted by the T7 system but the sponsoring of instruments by Designated Sponsors and Regulated Market Makers will take place in the CLOB only, not in the Midpoint order book.

It will be possible to enter Midpoint Sweep orders even if Midpoint trading is switched off. In this case, the Midpoint Sweep orders will enter the CLOB directly.

2.1.8 Midpoint Self-Cross Prevention

Every Midpoint order can be entered with an SMP ID (Cross ID) in the T7 system. For Midpoint matching, the SMP ID will be taken into account to avoid orders with the same SMP ID matching each other, i.e., to achieve a Midpoint Self-Cross Prevention. All sitting Midpoint orders in the Midpoint order book will be checked for the SMP ID and once they are crossed with other orders of the same SMP ID (regardless of the current Midpoint price and MAQs), the sitting Midpoint orders will be cancelled.

For Midpoint Sweep orders, once they reach the CLOB, the SMP ID will be used for the existing Self-Match Prevention process.

2.1.9 Trade Statistics

New trade statistics for the last Midpoint trade price will be introduced, consisting of the following information:

- Last Midpoint trade price (LMTP)
- Last Midpoint trade quantity
- Last Midpoint trade timestamp

The execution of Midpoint or Midpoint Sweep orders at the current midpoint in the Midpoint order book will not adjust any Xetra reference prices (incl. Xetra Retail). The Last Trade Price/Last Auction Price/Retail Last Trade Price will not be updated, and it will also not impact the daily Open/High/Low/Close prices.

2.1.10 Data Dissemination

There will be three new Segment MICs for the Midpoint reporting, defined on instrument level in the reference data:

- XEMA – Xetra Midpoint Regulated Market
- XEMB – Xetra Midpoint Open Market
- XEMI – Xetra Midpoint Scale

The Segment MICs serve for the reporting of the Midpoint executions in the Midpoint order book under the operating MIC code 'XETR'.

No new trade type will be introduced for Midpoint trading. A new match type will be introduced in the trade notification.

The Order Entry notifications for Midpoint Sweep orders will be sent only after the complete processing of a Midpoint Sweep order in the Midpoint *and* in the CLOB, if applicable. Therefore, two separate order notifications will not be provided w.r.t the Midpoint order book and the CLOB, but rather one single order notification will be sent.

Each last Midpoint trade information will be published via the T7 market data interfaces.

2.2 Impacts on Interfaces

The following chapter outlines the changes to interfaces and GUIs to support the functionality. The changes are described in a general fashion to provide an indication of the upcoming amendments. For detailed changes, please refer to the interface manuals and to the *Online Help* in the GUIs.

2.2.1 ETI

The short order layout will not support Midpoint or Midpoint Sweep orders.

The following messages will be modified:

- New Order Single
- New Order Single or Multi Leg
- Replace Order Single
- Replace Order Single or Multi Leg
- Extended Order Information
- Trade Notification

2.2.2 FIX LF

The following messages will be modified:

- New Order Single
- Order Cancel / Replace Request
- Execution Report
- Trade Capture Report

2.2.3 T7 Trader GUI

The following views will be modified:

- Market view
- Add / Modify Order view
- Order History view
- Trades view
- Trade Summary view
- Time & Sales view

2.2.4 Market Data

2.2.4.1 Enhanced Order Book Interface (EOBI)

The following messages will be modified:

- Trade Report
- Trade Reversal
- Instrument Summary

2.2.4.2 Enhanced Market Data Interface (EMDI), Market Data Interface (MDI)

There will be a new valid value for the existing field *TradeCondition*, which will indicate Midpoint executions both in the Incremental and the Snapshot messages.

2.2.4.3 Extended Market Data Service (EMDS)

There will be a new valid value for the existing field *TradeCondition*, which will indicate Midpoint executions both in the Incremental and the Snapshot messages.

2.2.4.4 Public Reference Data

There will be a new attribute in the RDI interface and in the RDF / AllTradableInstruments file, which indicates that Midpoint trading is enabled for an instrument.

2.2.5 XML Reports

The following new fields will be added:

- minAcctQty
- midpointSegmentMIC

New valid values for the following existing fields to indicate Midpoint orders and trades:

- ordrTyp
- tradeType
- matchType
- reason

3. Enhancements of the Short Code and Algo ID Solution

With T7 Release 13.0, several enhancements and modifications of XML reports will be introduced to provide trading participants with more frequent feedback to assist in the resolution of missing Short Codes (SC) and Algo IDs as well as upload errors, and to assist in a comprehensive registration and maintenance process of Short Codes and Algo IDs.

3.1 Functional Description

The following XML reports will be changed in name:

Report	Name OLD	Name NEW
TR 160	Identifier Mapping Error	Short Code ID - Error Report
TR 161	Identifier Mapping Status	Short Code ID - Valid Registrations Report
TR 162	Algo HFT Error	Algo ID - Error Report
TR 163	Algo HFT Status	Algo ID - Valid Registrations Report
TR 166	Identifier Mapping Final Error report	Short Code ID - Final Missing Report
TR 167	Non-Uniqueness Identifier	Short Code ID - Non-Uniqueness Report
TR 168	Non-Consistency Identifier	Short Code ID - Non-Consistency Report

Structural modifications will be implemented in the following existing XML reports:

- TR160, TR161, TR162, TR163.

Furthermore, there will be three new intraday versions of the reports that will be provided in addition to the existing end-of-day report versions.

Additionally, three new XML reports will be introduced. The new TR169 Short Code ID – Correction Report facilitates the provision of missing Short Code data in an ongoing manner. The new TR170 Short Code ID – Historical Correction Report and the new TR171 Short Code ID – Historical Long Code Correction Report facilitate the provision of historical missing and historical incorrect Short Code data for a one-off correction exercise. More information about ongoing and historical correction processing will follow in due course.

- TR169 Short Code ID – Correction Report
- TR170 Short Code ID – Historical Correction Report
- TR171 Short Code ID – Historical Long Code Correction Report

For more details, please consult the XML Report Reference Manual for T7 13.0.

4. ISV and Software Registration Process via Member Section

Deutsche Börse is planning to introduce three new functionalities available in the Member Section:

1. Independent Software Vendor (ISV) Registration
2. Software Registration
3. Software Selection

These new functionalities will improve the intelligence and transparency on the usage of the third-party vendor, third-party vendor software, and self-developed software of trading participants on a technical connection level.

The introduction of this change is not bound to the introduction date of T7 Release 13.0. For details, see the subchapter on the timeline below.

4.1 ISV registration

The introduction of the ISV Registration functionality via the Member Section will digitize the registration process of ISVs. All new and existing ISVs will be required to submit their registration using the new app in the Member Section. Existing ISVs are required to go through this process and accept the Terms & Conditions for the respective admitted markets. This process is also a prerequisite to view the Software Registration functionality.

During the ISV registration process, ISVs will be required to provide personal contact details, company information (confirmed either via a Legal Entity Identifier (LEI) or a commercial register extract), information on types of services (front-, middle-, or back-office) offered, and details of supported markets (Eurex, Eurex Clearing, Eurex Repo, Xetra/Börse Frankfurt, and EEX/ECC).

ISV Registration functionality will be accessible to Central Coordinators, their deputies, and other Member Section users with special Member Section permissions.

4.2 Software Registration for ISVs and Trading Participants

Following the completion of ISV registration, ISVs as well trading participants with self-developed software will be required to register their software using the Software Registration functionality in the Member Section.

ISVs are required to register software which they provide to Deutsche Börse clients (Eurex, Eurex Clearing, Eurex Repo, Xetra/Börse Frankfurt, and EEX/ECC) and which is intended to be used to connect to the trading interfaces (FIX LF and ETI). The same applies to trading participants that intend to use self-developed software to connect to the aforementioned interfaces. The Software Registration functionality will be accessible to Central Coordinators, their deputies, and other Member Section users with special Member Section permissions.

During the software registration, the following information must be provided: software name, software type (e.g., front-, middle-, or back-office), supported markets (Eurex, Eurex Clearing, Eurex Repo, Xetra/Börse Frankfurt, and EEX/ECC), type of management (cloud/hosted/on-premise), and supported products.

4.3 Software Selection

All trading participants, who intend to use third-party software developed by ISVs, must select the software that they use to connect to the trading interfaces (FIX LF and ETI). Any self-developed

software that has already been registered to connect to the aforementioned interfaces will be automatically assigned to the respective trading participant.

4.4 Mapping of selected and registered software to interfaces

Finally, the current ETI and FIX LF session ordering process via the Member Section will be enhanced with the addition of software usage details. The trading participants will be required to provide the software details (software name and vendor name) when ordering a session via the Member Section. Only the previously registered software via the Software Selection functionality will be available for selection here.

4.5 Timeline

In the first step, ISV Registration functionality will be available in the Member Section as of 30 September 2024. Secondly, registered ISVs will be enabled to register their software starting from 30 October 2024. ISVs are recommended to finalize their entity and software registration by 14 February 2025, at the latest.

Following this, trading participants will be required to register their self-developed software (if applicable), select their software usage via Software Selection functionality, and enhance their new and existing ETI and FIX LF sessions with the details of their software usage starting from 14 February 2025. Trading participants have to make sure to enhance the existing ETI and FIX LF sessions with the vendor and software information latest until 13 June 2025.

Please note that from 18 April 2025, the software usage related fields will be mandatory for the ordering new sessions in the Member Section. Therefore, we strongly recommend trading participants to finalize their software selection via the Software Selection functionality by this date.

More information on the rollout plan and documentation is available on a dedicated Xetra Web page under the following directory:

[xetra.com > Technology > T7 Trading Architecture > ISV Registration & Software Management](https://www.xetra.com/Technology/T7-Trading-Architecture/ISV-Registration-Software-Management)

5. Further Changes and Enhancements

With T7 Release 13.0, Xetra will introduce the following additional changes and enhancements.

5.1 Usage of TLS 1.3 for ETI LF and FIX LF

Due to improved security features, an upgrade to Transport Layer Security (TLS) version 1.3 is highly recommended for all participants' ETI LF and FIX LF gateway connections. Please note, that the current T7 Production software already supports TLS 1.3, see the Network Access Guide in the T7 Release 13.0 System documentation.

At a later point in time after T7 Release 13.0 introduction, TLS version 1.2 will no longer be supported, and version 1.3 will become mandatory.

5.2 SenderCompID in EMDI packetHeader will be extended

With T7 Release 13.0, the size of the SenderCompID in the EMDI packetHeader will be increased from one to two bytes to extend the supported number range. Furthermore, to ensure a fixed size of two bytes, the number range will start with 128, so that numbers represented by one byte are avoided. Thus, the new number range will be 128...16383.

Old packetHeader:

1 Byte	1 Byte	1 Byte	1 Byte	1 Byte	4 Bytes	1 Byte	8 Bytes	1 Byte	4 Bytes
PMAP	TID	PartitionID	SenderCompID [21 .. 127]	Length	PacketSeqNum	Length	SendingTime	Length	PerformanceIndicator
1	2	3	4	5	9	10	18	19	23

New packetHeader:

1 Byte	1 Byte	1 Byte	2 Bytes	1 Byte	4 Bytes	1 Byte	8 Bytes	1 Byte	4 Bytes
PMAP	TID	PartitionID	SenderCompID [128 ... 16383]	Length	PacketSeqNum	Length	SendingTime	Length	PerformanceIndicator
1	2	3	4	6	10	11	19	20	24

5.3 RDF files available on Common Report Engine (CRE) on Saturdays

With T7 Release 13.0, the RDF files for Monday (respectively the next business day after the weekend) will be created and made available on the Common Report Engine on Saturday, in addition to the creation of the file on Sunday evening/Monday morning.

An additional file will also be generated in case a start-of-day is performed during the weekend following any maintenance activities.

Participants are reminded to retrieve and process the latest RDF file as described in the section *Reference data file after a failover or restart of T7 RDI* of the *Market and Reference Data Interfaces Manual*.

5.4 Improved statistics for XML report PM700 Xetra Retail Liquidity Provider

With T7 Release 13.0, the statistics in XML report PM700 Xetra Retail Liquidity Provider will be improved. New numbers will be introduced, e.g. about the relative strength of a Retail Liquidity Provider (RLP), the Retail Liquidity Provider's ranking among all Retail Liquidity Providers, or the median Retail Market Organization (RMO) order size.

For detailed information please refer to the T7 13.0 XML Report Reference Manual.

6. Change Log

Version	Date	Log entry
1	21 August 2024	Publication.