



- Agenda 1. Overview Encryption
 - 2. Rollout Approach for Simulation & Production
 - 3. Communication & Publications
 - 4. Prepared Q&As
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1 Overview Mandatory Encryption



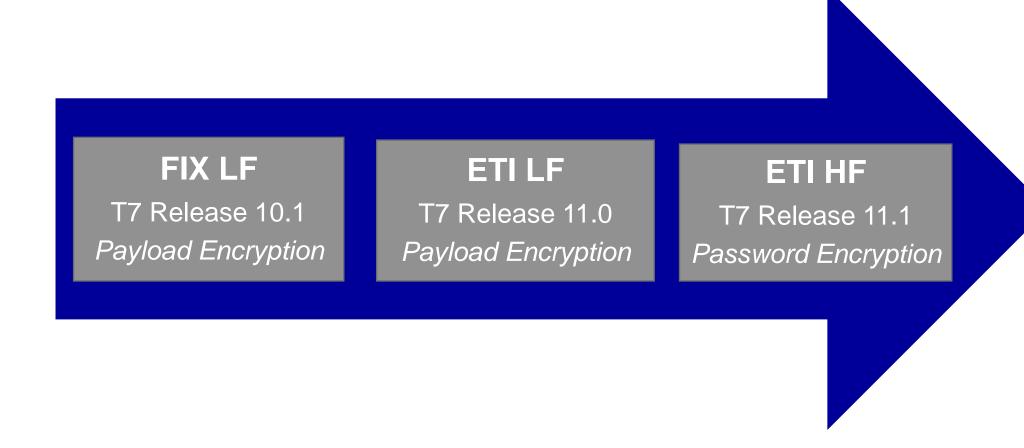
Why Mandatory Interface Encryption?

Regulation on Critical Infrastructures (KRITIS) enforced by Federal Office for Information Security (Bundesamt für Sicherheit in der Informationstechnik BSI) specifies that Deutsche Börse needs to adhere to requirements, which include encryption of data during transfer via public networks resp. encryption of credentials in all networks



 Changes are improving information security transmitted via communication networks to further reduce risk of unauthorized interception / manipulation / misuse

High Level Encryption Roadmap



Payload Encryption for FIX LF & ETI LF



- Mandatory payload encrypted connectivity option via OpenSSL (TLS 1.2 restricted cipher-suites)
- Use of FQDN strongly recommended
- TCP Connect => TLS Handshake => Application Data
- DigiCert Intermediate Certificate

2 Rollout Approach for Simulation and Production



Rollout Approach for Simulation & Production

Interface	T7 Release	Availability in Simulation	Mandatory in Simulation	Availability in Production	Mandatory in Production
FIX LF*	10.1	02.05.22	10.03.23	27.06.22	08.05.23
ETI LF*	11.0	12.09.22	04.08.23	21.11.22	23.10.23
ETI HF**	11.1	23.03.23	24.11.23	22.05.23	11.12.23

Event	Environment	T7 Release	Decommissioning date
Ordering of HF Session outside the Equinix FR2 facility in the Member Section	Production	11.1	21.08.23
Usage of HF Sessions outside the Equinix FR2 facility	Production	11.1	23.10.23

3 Communication & Publications



Dedicated Support Page Mandatory Interface Encryption

Eurex

https://www.eurex.com/ex-en/support/initiatives/project-readiness

Readiness for projects

Overview of content

Next Generation ETD Contracts

Regulatory Reporting Solution (RRS) 1.1 for non-MiFIR

firms

T7 Disaster Recovery Test

Mandatory Interface Encryption

Mandatory Interface Encryption

As a trading venue operator, Eurex needs to adhere to requirements regarding encryption of data during transfer via networks on public ground and the encryption of credentials during transfer via networks on nonpublic ground (Critical Infrastructure KRITIS) regulation.

Eurex has implemented mandatory changes regarding data transmission via the T7 trading interfaces. These changes have been made to improve the security of information transmitted via communication networks to further reduce the risk of unauthorized interception, manipulation, or misuse.

To support Trading Participants with the implementation of their security requirements, Eurex offers additional connectivity options to implement Transport Layer Security (TLS) for sensitive data in critical business areas.

The following steps will be carried out during 2023:

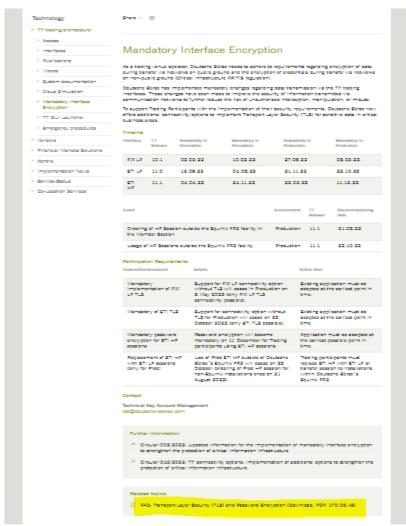
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Cash Market

https://www.xetra.com/xetra-en/technology/t7/mandatory-interface-

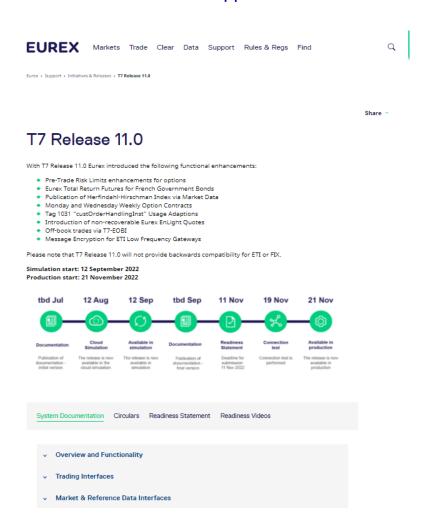
encryption



T7 System Documentation Release 11.0*

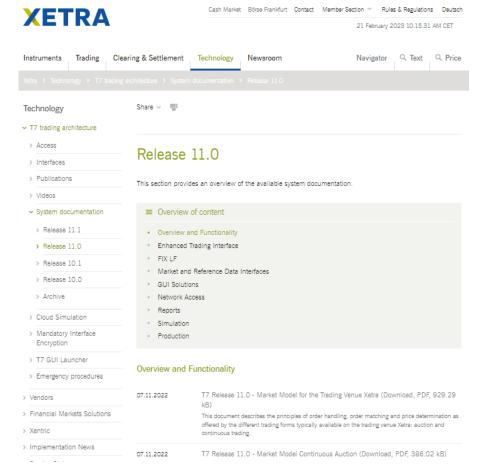
Eurex

https://www.eurex.com/ex-en/support/initiatives/t7-release-11-0



Cash Market

https://www.xetra.com/xetra-en/technology/t7/system-documentation/release11-0



4 Prepared Q&As



A. Encryption

- 1. Is a client certificate required?
- 2. Are new sessions required for TLS encryption?
- 3. Does Deutsche B\u00f6rse recommend to use Fully Qualified Domain Names (FQDNs) for the connection to the encrypted ports instead of using IP addresses?
- 4. Will encryption apply to LF sessions that are hosted in co-location?
- 5. Will encryption become mandatory also for EEX, Vienna and other Partner Exchanges?

5 Live Q&As



Thank you!

Deutsche Börse AG Mergenthalerallee 61 65760 Eschborn

If you have any further questions, please contact your Technical Key Account Manager or send an e-mail to cts@deutsche-boerse.com



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