Mandatory Interface Encryption

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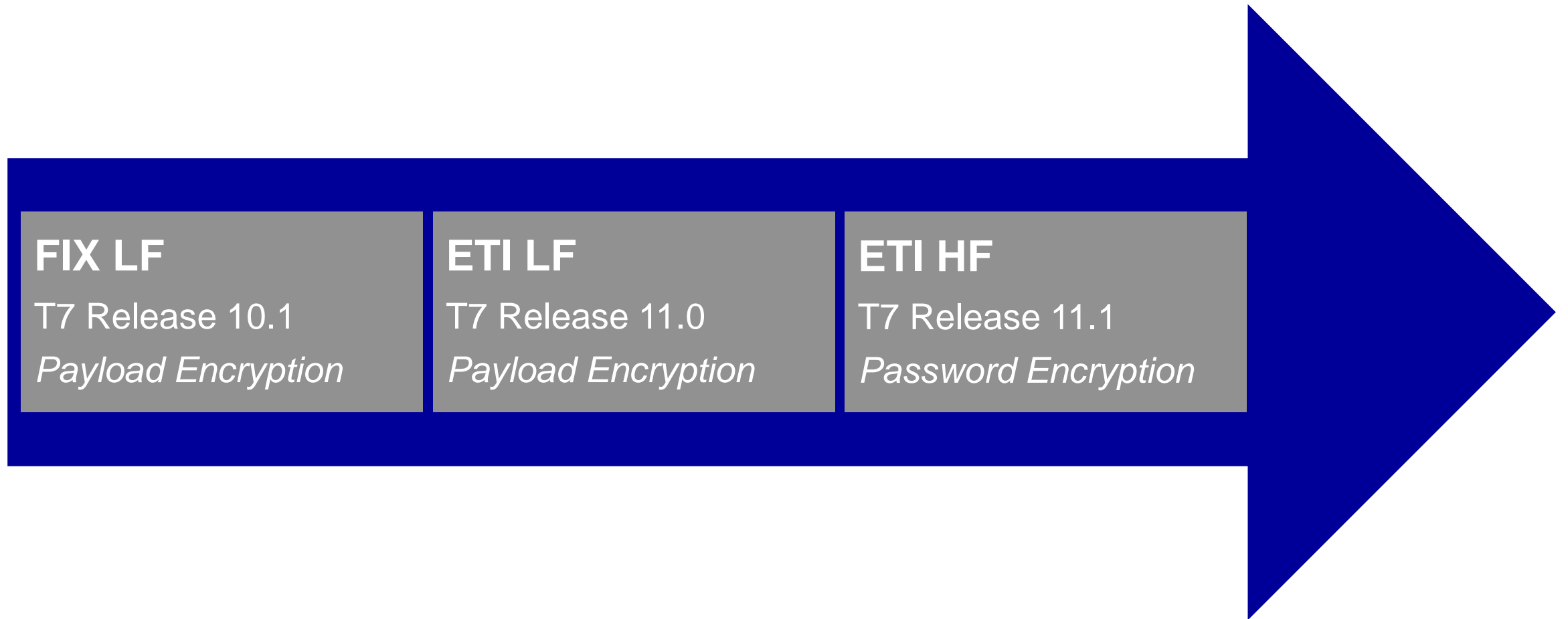**DEUTSCHE BÖRSE GROUP**

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Topics

1 Overview Encryption

2 Rollout Approach Simulation & Production

3 Communication & Publications

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5 More questions?

1 **Overview Encryption**

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High Level Encryption Roadmap

FIX LF

T7 Release 10.1

Payload Encryption

ETI LF

T7 Release 11.0

Payload Encryption

ETI HF

T7 Release 11.1

Password Encryption

Password Encryption

ETI HF
Key Features

- Session and user password encrypted
- No certificate required, password encryption with Deutsche Börse's public RSA key
- Implementation as per ETI manual, OpenSSL helpful for cryptographic part
- Append log-in time before encryption > T7 will validate the time > encrypt password > convert binary output to alphanumeric value > enter password to field 1402
- Example python script "STEP"
- Further details available
  - Network Access Guide & ETI documentation
    - xetra.com > Technology > T7 Trading architecture > System documentation > Release 12.0
    - eurex.com > Support > Initiatives & Releases > T7 Release 12.0
  - Mandatory Interface Encryption support site
    - xetra.com > Technology > T7 trading architecture > System documentation > Mandatory Interface Encryption
    - eurex.com > Support > Initiatives & Releases > Readiness for projects > Mandatory Interface Encryption

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Overview Rollout Approach

Session Source Location	Session type	Encryption type	Mandatory change in Simulation	Mandatory change in Production
In Equinix FR2 co-lo facility	ETI (LF)	Payload or Password	24.11.23	11.12.23
In Equinix FR2 co-lo facility	ETI (HF)	Password	24.11.23	11.12.23
In Equinix FR2 co-lo facility	ETI (HF)	Payload	Not supported	Not supported
Remote*	ETI (LF)	Payload	04.08.23	23.10.23
Remote	ETI (LF)	Password	Not applicable	Not applicable
Remote	ETI (HF)	Not applicable	Not applicable	23.10.23**

* Please note that remote refers to outside Equinix FR2.

** The use of HF Sessions in Production outside of Equinix FR2 co-location facility will no longer be available.

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Dedicated Support Page Mandatory Interface Encryption

Eurex

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

Cash Market

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

System Documentation T7 Release 12.0

Eurex

https://www.eurex.com/ex-en/support/initiatives/t7-release-12-0

Cash Market

https://www.xetra.com/xetra-en/technology/t7/system-documentation/release12-0

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FAQs

1. What certificate is required?
2. Is there any latency impact?
3. Are new sessions needed?
4. Can ETI LF sessions also be password encrypted?
5. How often are you going to update the public RSA key?

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More questions?

Please meet Deutsche Börse's specialists at the Exchange lab

Thank you!

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