Focus Call - Mandatory Interface Encryption

Session will start soon!
Agenda

1. Overview Encryption

2. Rollout Approach for Simulation & Production

3. Communication & Publications

4. Prepared Q&As

5. Live Q&As
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 Informations-technik 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

- **FIX LF**
  - T7 Release 10.1
  - Payload Encryption

- **ETI LF**
  - T7 Release 11.0
  - Payload Encryption

- **ETI HF**
  - T7 Release 11.1
  - Password Encryption
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

<table>
<thead>
<tr>
<th>Interface</th>
<th>T7 Release</th>
<th>Availability in Simulation</th>
<th>Mandatory in Simulation</th>
<th>Availability in Production</th>
<th>Mandatory in Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIX LF*</td>
<td>10.1</td>
<td>02.05.22</td>
<td>10.03.23</td>
<td>27.06.22</td>
<td>08.05.23</td>
</tr>
<tr>
<td>ETI LF*</td>
<td>11.0</td>
<td>12.09.22</td>
<td>04.08.23</td>
<td>21.11.22</td>
<td>23.10.23</td>
</tr>
<tr>
<td>ETI HF**</td>
<td>11.1</td>
<td>23.03.23</td>
<td>24.11.23</td>
<td>22.05.23</td>
<td>11.12.23</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Event</th>
<th>Environment</th>
<th>T7 Release</th>
<th>Decommissioning date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering of HF Session outside the Equinix FR2 facility in the Member Section</td>
<td>Production</td>
<td>11.1</td>
<td>21.08.23</td>
</tr>
<tr>
<td>Usage of HF Sessions outside the Equinix FR2 facility</td>
<td>Production</td>
<td>11.1</td>
<td>23.10.23</td>
</tr>
</tbody>
</table>

* Payload encryption (all data TLS encrypted)
** Password encryption (by Deutsche Börse’s public RSA key)
3 Communication & Publications
Dedicated Support Page **Mandatory Interface Encryption**

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

**Cash Market**
T7 System Documentation Release 11.0*

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

Cash Market

* Further T7 Release 11.1 system documentation will be published soon.
4 Prepared Q&As
A. Encryption

1. Is a client certificate required?
2. Are new sessions required for TLS encryption?
3. Does Deutsche Börse 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!

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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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