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Eurex Repo Technical Information

Eurex Repo F7 Release 3.6 – Action Required: API Technical Upgrade (AMQ)

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Importance: High Priority

Summary: Update of AMQ brokers used by F7 API potentially requiring client adaption

As previously announced, please be advised that Eurex Repo plans to introduce F7 release 3.6 in production on 29.11.2021.

Release	Type	In Simulation	In Production	Remarks
3.6	GUI + API Technical Upgrade (AMQ)	11.10.2021	29.11.2021	No longer a Mandatory API Upgrade

Release 3.6 was originally planned as a mandatory API upgrade, however there will be no functional changes made to the API and the API version numbers will stay the same (3.4 mandatory or 3.5 optional).

Release 3.6 will include a technical upgrade that applies to all users of the F7 API. Details of the technical upgrade are provided below and API users may have to adapt their software prior to the upgrade. The usage of the F7 Trader GUI is not affected by this change.

Important Technical Upgrade (AMQ)

THIS SECTION IS ONLY RELEVANT IF YOU RUN VENDOR OR SELF DEVELOPED APPLICATIONS THAT USE THE F7 API TO CONNECT TO EUREX REPO F7

F7 will be upgraded to use Red Hat AMQ Version 7.8.1, which is based on Apache ActiveMQ "Artemis".

Earlier versions of the Red hat AMQ broker allowed clients to specify topics and queues either with a prefix "topic://", "queue://" or without such a prefix when creating a message consumer.

With the upgrade to AMQ Version 7.8.1, using prefixes may no longer work for some clients.

To avoid any potential issues with the new broker version we recommend to omit prefixes while specifying a queue or topic message consumer.

Depending on the client these prefixes may be specified in the application code or alternatively in a configuration file.

For example,

```

// Java example code based on QPID-JMS client library and JMS 2.0
// Old broadcast topic subscription (no longer valid)
// JMSConsumer topicConsumer = context.createDurableConsumer("topic://XXXXX.MasterDataTopic", "myUniqueId");

// New broadcast topic subscription
JMSConsumer topicConsumer = context.createDurableConsumer("XXXXX.MasterDataTopic", "myUniqueId");

// Old response queue consumer (no longer valid)
// JMSConsumer queueConsumer = jmsContext.createConsumer("queue://XXXXX.ResQueue_I", MessageFilter);

// New response queue consumer
JMSConsumer queueConsumer = jmsContext.createConsumer("XXXXX.ResQueue_I", MessageFilter);

```

Alternate possibility in configuration files:

'topic://XXXXX.MasterDataTopic'	to be replaced with ->	'XXXXX.MasterDataTopic'
'queue://XXXXX.ResQueue_L'	to be replaced with ->	'XXXXX.ResQueue_L'
'queue://XXXXX.RegQueue_I'	to be replaced with ->	'XXXXX.RegQueue_I'
'queue://XXXXX.ResQueue_I'	to be replaced with ->	'XXXXX.ResQueue_I'

XXXXX to be replaced with SAP Member iID.

Clients still using prefixes after the update to F7 3.6 may receive errors which are highly dependent on the client libraries used. Errors similar to the ones below may occur when creating a message consumer using a prefix on F7 3.6:

```

not authorized to create consumer
XXXXX does not have permission='CREATE_ADDRESS' on address topic://XXXXX.MasterDataTopic

```

API users using prefixes should change to omitting prefixes to ensure connectivity. This change can be done at any time prior to release 3.6 introduction.

API users already omitting prefixes will not be affected.

In either case it is always strongly recommended that all API customers perform a regression test during the simulation period.

Best regards,

Your Eurex Repo Team

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