**EUROPEAN CENTRAL BANK**

EUROSYSTEM

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DG-MIP
T2/T2S Consolidation Project Team

# T2/T2S Consolidation

## User Interaction

Task Force on Future RTGS Services

5th TF meeting, 24 April 2017

# Views expressed in the last Task Force

In the last Task Force participants requested that for operational reporting:

- Standard reports (pre-defined, generated automatically and pushed A2A) to be produced on each business day for all subscribing participants

- Standard reports to be retained for view / download U2A or A2A in the production service until replaced by the next generation of the report

- Possibility for providing raw data to participants for standard reports, to allow building their own reports for regulators (monitoring tools for intraday liquidity management)

- Ability to perform queries on historical information across entities and services, subject to access rights

- Facility to be provided to download query results and U2A requested reports. Screen viewable results will be limited (lines)

- Access to previous day's information via the data warehouse from 6am next day. Reports may be dependent on EBA regulation, currently under discussion

# Terminology

Report      - Triggered automatically, without user input

- Time / Event driven

- Sent out automatically (Push) and/or stored for retrieval (Pull)

Query      - Ad-hoc, interactive request and response

- User driven

- U2A or A2A

Pre-defined      - Fixed format

- Content defined by user via selection criteria or parameters

Standard      - Fixed format

- Fixed criteria to determine content

A2A      - Communication between user's application and service

- System driven (automated)

- User driven (via GUI in user's application)

U2A      - User interaction with service via a GUI

# Non-operational Reporting and Query facilities

In addition to the operational reporting requirements discussed in the previous Task Force (Standard pre-defined reports and interactive queries), the future RTGS services shall provide facilities for non-operational reporting:

- A range of pre-defined ad-hoc reports and queries shall be available that will give participants access to historical information

- There will be different Data Warehouse Services, offering different opportunities for users to access and present their own data

- The scope and tools for the different Data Warehouse Services will be defined during the specification phase

# Proposed Reporting and Query facilities

The future RTGS services shall provide:

- Standard pre-defined reports created automatically

- The ability to request a copy of a standard report already produced

- A range of pre-defined ad-hoc interactive queries

- A facility to export query results in various formats

- Access to all business data for the organisation with which the user is associated, subject to user roles and privileges

# Standard Reports

Standard reports, e.g. Statements of Account, are:

- Pre-defined - structure and content

- Generated automatically

- Time or event triggered

- Can be sent immediately to all subscribers, in Push mode, via A2A

- Retained for an agreed period of time within the service, after which they could be reproduced from the Data Warehouse

- Available as full reports, or as delta reports showing only the changes since the previous report was generated

Report subscriptions should be available per participant and per account

# Queries

Queries shall:

- Allow user to select criteria at time of request (if U2A)

- Determine output based on pre-defined parameters in request (if A2A)

- Be executed as soon as the request is received (U2A or A2A)

- Display the results of the query in the GUI (if U2A)

- Provide the results of the query in an ISO 20022 message (if A2A)

- Indicate 'no results' if there were no results matching the selected criteria

- Be limited to a maximum number of rows of output. U2A and A2A limits may be configurable within a fixed range, and may be larger for A2A

# Queries

Queries shall:

- Display message when query results exceed limit, in addition to the limited number of rows, stating that more results matched criteria than could be displayed, and inviting user to refine the query with additional criteria

- Allow user to export results displayed

The list of currently known pre-defined queries and actions was shared at the last Task Force. No additional requirements have been received.

# Users will be able to:

- Request, on an ad-hoc basis, standard reports previously produced

  - The report will be available in Pull mode, either

    - via A2A as an ISO20022 message, if user's request is A2A or

    - via U2A and displayed in the GUI, if user's request is U2A

  - Providing the user has appropriate access rights

  - Provided report is still available in system

  - Subject to limits on volume of output (may be different if via U2A or A2A)

- Execute a range of pre-defined queries as and when required

  - Results will be available in an ISO20022 message in Pull mode, if via A2A

  - Or displayed in the GUI if via U2A, from where it can be exported if required

  - The query will be executed in the data warehouse at the time of the request

  - Subject to limits on volume of output (may be different if via U2A or A2A)

  - The results will be retained in the system for an agreed period of time, after which they could be reproduced from the data warehouse

# Operational Data or Data Warehouse?

- The user shall not need to elect to use operational data or data warehouse in the execution of pre-defined reports and pre-defined queries

- Based on the selection criteria or request parameters, the required output shall be determined automatically by the service from operational data and/or data warehouse as necessary

- Operational data may include the previous business day