Change Request form

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Market Infrastructure Board (MIB)</td><td>**Date raised:** 23/03/2018</td></tr>
<tr><td>**Request title:**
New Liquidity Transfer Status query in U2A</td><td>**Name of Central Bank:**
European Central Bank</td><td>**Request ref. no:**
TIPS 0004 URD</td></tr>
<tr><td colspan="3" align="center">**Categorisation of changes**</td></tr>
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Description of requested change:

The current version of the TIPS User Requirements Document does not envisage a specific functionality which allows to check the status of a liquidity transfer, neither through the TIPS Graphical User Interface nor in A2A mode.

Although it is possible for customers who have access to TARGET2 to use ad-hoc inquiries through the ICM interface to check the status of (i) any liquidity transfers from TARGET2 to TIPS and (ii) liquidity transfers from TIPS to TARGET2 successfully settled in TIPS and routed to the RTGS, from an operational viewpoint some scenarios are not fully covered. For instance, the design currently envisaged in the TIPS URD does not offer a suitable solution to check the status of an outbound liquidity transfer from TIPS to TARGET2 which does not reach the RTGS due to an immediate rejection in TIPS. Moreover, a TIPS actor which does not have access to TARGET2 would not be able to have full visibility of incoming/outgoing liquidity transfer orders.

In order to support the TIPS actors in the operational activities, the aim of this change request is to amend the functional documentation (i.e. URD, UDFS and UHB) in order to introduce a new U2A query to check the status of a Liquidity Transfer which can be triggered via the TIPS Graphical User Interface.

In particular, the following functional changes are proposed in the context of this Change Request:

- A new Liquidity Transfer Status query available in U2A mode only is added in the User Requirements Document;

- For the sake of consistency, the aforementioned change shall be propagated also into the TIPS UDFS and in the TIPS UHB.

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Reason for change and expected benefits/business motivation:

The proposed change would allow the TIPS Actors connected through the TIPS GUI to look up for and get the status of a liquidity transfer via a dedicated screen.

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Submitted annexes / related documents:

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Proposed wording update to the documentation to address the requested change:

TIPS URD, TIPS UDFS and TIPS UHB should be amended as follows, in order to reflect the proposed changes.

TIPS URD:

TIPS URD v1.0, section §7.2 Queries - General requirements: amendment of TIPS.UR.07.020.

ID	TIPS.UR.07.020
Name	Availability for queries in user-to-application mode
Requirement	TIPS shall accept the following queries from the Graphical User Interface on a 24/7/365 basis: • Account Balance and Status Query (see TIPS.UR.07.060); • CMB Limit and Status Query (see TIPS.UR.07.070); • Payment Transaction Status Query (see TIPS.UR.07.080)-; • Liquidity Transfer Status Query (see TIPS.UR.07.081).

All queries accessible via U2A are available during the operating hours of the TIPS service, i.e. 24/7/365.

TIPS URD v1.0, section §7.2 Queries - General requirements: amendment of table 13 within TIPS.UR.07.040.

ID	TIPS.UR.07.040
Name	Processing of queries
Requirement	TIPS shall take into account all access rights while processing queries and only return results if the querying party has access to the underlying data according to Table 13.

If party does not have access to the underlying data the query should return an error code. The following Table 13 summarises the different access that TIPS actors have.

Table 1: Query permissions

Actor	Account Balance and Status Query	CMB Limit and Status Query	Payment Transaction Status Query	Liquidity transfer Status Query
Central Bank	All accounts in their books	All CMBs linked to accounts in their books	All transactions affecting accounts in their books	All liquidity transfers affecting accounts in their books

Actor	Account Balance and Status Query	CMB Limit and Status Query	Payment Transaction Status Query	Liquidity transfer Status Query
Participant	Own accounts	Own CMBs	All transactions affecting their accounts or CMBs	All liquidity transfers affecting their accounts
Reachable party	No	No	No	No
Instructing party on behalf of a Participant	Participant's accounts for which their Participant's BIC is set as user	CMBs linked to Participant's accounts for which their Participant's BIC is set as user	On transactions they submitted	On liquidity transfers they submitted
Instructing party on behalf of a Reachable Party	No	CMBs linked to Reachable Party's accounts for which their Reachable Party's BIC is set as users	On transactions they submitted	No
RTGS System	Yes, on all accounts denominated in their currency	Yes, on all CMBs denominated in their currency	Not Applicable	No

TIPS URD v1.0, section §7.3 Type of Queries: new User Requirement TIPS.UR.07.081.

ID	**TIPS.UR.07.081**
Name	Liquidity Transfer Status Query
Requirement	TIPS shall provide a *Liquidity Transfer Status Query* to TIPS actors, which returns the details and the current status of one liquidity transfer.

The query should support the following selection criteria:
- the debtor BIC;
- the liquidity transfer reference.

The query should return at least the following information for one liquidity transfer:
- the debtor BIC of the liquidity transfer;
- the creditor BIC of the liquidity transfer;
- the debtor account;
- the creditor account;

- the liquidity transfer reference;
- the liquidity transfer status (i.e. settled or rejected with rejection reason);
- the amount of the liquidity transfer;
- the currency of the liquidity transfer;
- the settlement timestamp (if available).

TIPS allows actors to query any inbound or outbound liquidity transfers which are still available in memory. The data retention specified in TIPS.UR.03.930 applies to liquidity transfer queries as well and is initially set to five calendar days. In case the liquidity transfer transaction reference given is not unique only the most recent set of data should be returned.

Table 13 lists actors' permissions regarding access to the underlying data.

TIPS URD v1.0, section §8.2.1 General requirements: amendment of the table 14 within TIPS.UR.08.030.

8.2.1   General requirements

ID	**TIPS.UR.08.030**
Name	User-to-application communication
Requirement	TIPS shall provide to TIPS actors a user-to-application interface with the functionality and availability as given in Table 14.

TIPS provides TIPS actors with a Graphical User Interface offering basic functionalities to access information and controls (e.g. U2A queries, reference data maintenance).

Table 2: Interface – Overview (non-exhaustive list)

Type	Description	Section	U2A	A2A
Report	Statement of Account Turnover	6.4	N/A	24/7/365
Report	Statement of Accounts	6.4	N/A	24/7/365
Notification	Floor/ceiling notification	6.6	N/A	24/7/365
Query	Account Balance and Status Query	7.3	24/7/365	24/7/365
Query	CMB Limit and Status Query	7.3	24/7/365	24/7/365
Query	Payment Transaction Status Query	7.3	24/7/365	24/7/365
Query	Liquidity Transfer Status Query	7.3	24/7/365	N/A
Reference Data	Report subscription	6.3	Limited time**Error! Bookmark not defined.**	N/A

Type	Description	Section	U2A	A2A
Reference Data	Floor/ceiling subscription	6.5	Limited time**Error! Bookmark not defined.**	N/A
Reference Data	List of Participants subscription	9.2	Limited time**Error! Bookmark not defined.**	N/A
Reference Data	Management of accounts/CMBs	5.4.2	Limited time**Error! Bookmark not defined.**	Limited time**Error! Bookmark not defined.**
Reference Data	Management of Participants and their reference data	5.2	Limited time**Error! Bookmark not defined.**	Limited time**Error! Bookmark not defined.**
Reference Data	Blocking/unblocking functionalities	5.4.3	24/7/365	24/7/365
Reference Data	Increase/decrease of a CMB limit	5.4.4	24/7/365	24/7/365
Reference Data	Routing table change	5.4.5	Limited time**Error! Bookmark not defined.**	N/A
Reference Data	System settings change	5.4.6	Limited time**Error! Bookmark not defined.**	N/A
Message	Liquidity transfer order	4.2	RTGS opening hours**Error! Bookmark not defined.**	RTGS opening hours**Error! Bookmark not defined.**
Message	SCT Inst scheme messages	3	N/A	24/7/365
Other	General Ledger	9.3	N/A	24/7/365

TIPS URD v1.0, section §8.2.2 U2A Queries: amendment of the User Requirement TIPS.UR.08.040.

8.2.2   U2A Queries

~~TIPS queries available in A2A mode are also available in U2A mode.~~

ID	**TIPS.UR.08.040**
Name	Query functions available in user-to-application mode at any point in time
Requirement	TIPS shall provide the following queries in U2A mode: • CMB Limits query and Status Query; • Account Balance and Status Query; • Payment Transaction Status Query~~;~~. • <u>Liquidity Transfer Status Query.</u>

The detailed requirements related to those queries are documented in chapter 7.

TIPS UDFS:

TIPS UDFS v1.0, section §1.2.5 Graphical user interface: amendment to the content of table 1

Table 3 – TIPS U2A functions

Function	Actor
Block/Unblock Participant	CB, TIPS Operator[Error! Bookmark not defined.]
Block/Unblock TIPS Account	CB, TIPS Operator[Error! Bookmark not defined.]
Block/Unblock Credit Memorandum Balance	TIPS Participant, Instructing Party[4], CB, TIPS Operator
Adjust Credit Memorandum Balance Limit	TIPS Participant, Instructing Party[5], CB, TIPS Operator
Query Account Balances and Status	TIPS Participant, Instructing Party, CB, TIPS Operator
Query CMB Limit and Status	TIPS Participant, Instructing Party, CB, TIPS Operator
<u>Liquidity Transfer Status</u>	<u>TIPS Participant, Instructing Party, CB, TIPS Operator</u>
Initiate Outbound Liquidity Transfer	TIPS Participant, Instructing Party[6], CB, TIPS Operator

TIPS UDFS v1.0, section §1.5.1 TIPS Features – general concepts

Queries are available ~~in both U2A and A2A mode,~~ on a 24/7/365 basis, and allow users to access data in real time. TIPS provides ~~two~~<u>three</u> types of queries:

- Account balance and status query;
- CMB limit and status query~~.~~<u>;</u>
- <u>Liquidity transfer status query.</u>

<u>With the only exception of the Liquidity transfer status query, which is available in U2A only, the remaining queries can be triggered both in U2A and A2A mode.</u>

TIPS UDFS v1.0, section §1.5.5.1 Queries

TIPS provides the query functionality to TIPS actors to satisfy their information needs on demand. It is possible to obtain information on the status of <u>Liquidity Transfer orders,</u> Account<u>s</u> or CMB<u>s</u> by submitting <u>the corresponding</u> query request~~s~~ to TIPS.

In order to manage in a timely manner the liquidity over the accounts and CMBs in the user data scope, the following queries are available in A2A and U2A mode:

- Account balance and status query;
- CMB limit and status query.

<u>In order to check the status of a previously submitted Liquidity Transfer orders the following query is available in U2A mode only:</u>

- <u>Liquidity transfer status query.</u>

TIPS UDFS v1.0, section §2.7 Queries

The section covers the scenarios in which a Participant or Instructing Party queries the system in order to obtain information belonging to the balance and the status of an account or to the limit and the status of a CMB. This process is characterized by ~~two~~three different ~~kinds~~types of query:

- Account balance and status query;
- CMB limit and status query~~.~~;
- <u>Liquidity transfer status query.</u>

TIPS UDFS v1.0, section §2.7 Queries: amendments on the body of the section and on table 28

[…]

Table 4 – Query permissions

Actor	Account Balance and Status Query	CMB Limit and Status Query	<u>Liquidity transfer status query</u>
Central Bank	Accounts under the CB's responsibility	CMBs under the CB's responsibility	<u>All liquidity transfers affecting accounts in their books</u>
Participant	Accounts for which the Participant is owner	CMB for which the Participant is owner	<u>All liquidity transfers affecting their accounts</u>
Reachable party	No	No	<u>No</u>
Instructing Party on behalf of a Participant	Accounts for which the Participant's BIC is owner	CMBs for which their Participant's BIC is owner	<u>On liquidity transfers they submitted</u>
Instructing Party on behalf of a Reachable Party	Accounts for which the Reachable Party's BIC is set as authorised user	CMBs for which their Reachable Party's BIC is set as authorised user	<u>No</u>
RTGS System	Accounts denominated in their currency	CMBs denominated in their currency	<u>Not applicable</u>

[…]

The CMB limit and status query allows the authorised actor to get the detailed information for one CMB, specifying as input parameter the TIPS CMB identifier.

Returned data are:

- TIPS Participant identifier;

- TIPS account identifier for the account linked to the CMB;

- TIPS CMB identifier;

- CMB limit;

- CMB headroom;

- Currency of the account to which the CMB is linked;

- CMB status;

- Timestamp of the query.

The Liquidity transfer status query allows the authorised actor to look up through a dedicated screen and get the detailed information for one liquidity transfer, specifying as input parameter both (i) the debtor BIC and (ii) the liquidity transfer reference.

The following data shall be displayed on the screen:

- Debtor BIC of the liquidity transfer;

- Creditor BIC of the liquidity transfer;

- Debtor Account;

- Creditor Account;

- Liquidity transfer reference;

- Liquidity transfer status;

- Amount of the liquidity transfer;

- The currency of the liquidity transfer:

- Settlement timestamp (if available).

All the described scenarios are triggered under the assumption that the technical validation, check of mandatory fields and authentication of the user have already been successfully performed by ESMIG.

TIPS UDFS v1.0, section §2.7.1 Examples.

This sub-section presents different examples of the possible different scenarios related to the queries on Account/CMB. Scenarios and examples are not exhaustive.

The first one provides the example of a non-empty answer to an Account balance and status query.

The second one describes a non-empty answer to a CMB limit and status query.

The last one provides an example of a TIPS rejection for the TIPS Account/CMB not found. For a detailed description of the Liquidity Transfer status query U2A screen, the reader may refer to the User Handbook (see TARGET Instant Payment Settlement User Handbook).

The figure below summarises, for each reference data object mentioned in the following examples, the related configuration.

TIPS UHB:

TIPS UHB v1.0, section §2.3.3.1 Menu Structure

The GUI menu is structured into one hierarchical menu level. The level is presented as a menu bar containing the five menu items (TIPS Participant, TIPS Account, Credit Memorandum Balance, ~~Outbound~~ Liquidity, Task List) which are always visible on top of each screen

TIPS UHB v1.0, section §2.3.3.1 Menu Structure, screenshot at page 18 shall incorporate the above mentioned change in the naming of the menu structure

TIPS UHB v1.0, section §4.1 Queries, new sections have to be added to describe the search/display and the detail screens.

4.1.3 Query Liquidity Transfer status

The Liquidity Transfer status query allows the authorised actor to get the detailed information for one liquidity transfer. TIPS allows actors to query liquidity transfer orders which are still available in the production system, i.e. before they are purged, after a data retention period set to five calendar days.

4.1.3.1 Liquidity Transfer status – Search screen

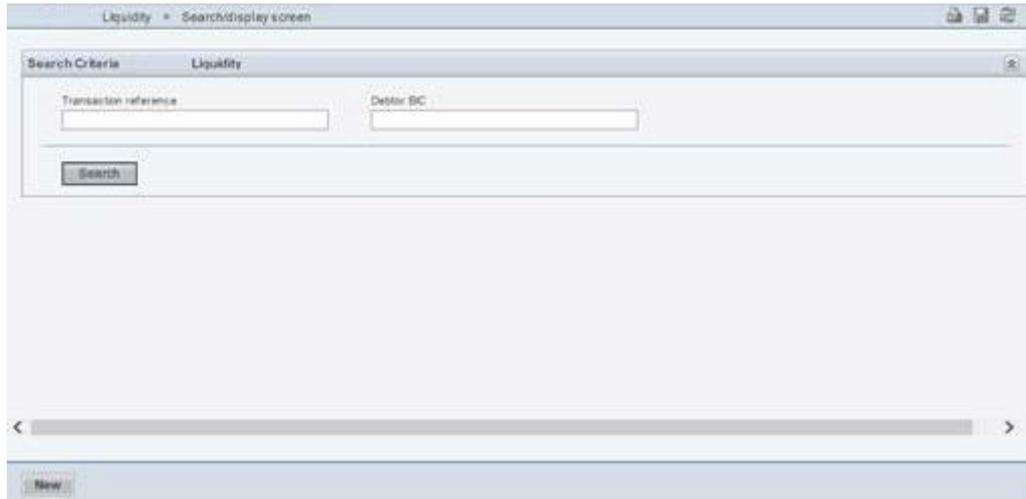|	
Context of Usage	The upper part of the screen contains two search fields that must be inserted together to retrieve the relevant information. TIPS shall allow the Central Bank and the Liquidity Transfer initiator query the status of a Liquidity Transfer, which is identified by the combination of the Debtor BIC and the liquidity transfer transaction reference. This function is available only in U2A mode. In case the user is not entitled to view the data on the searched transaction an error code is returned.
Screen Access	❙ Liquidity >> Liquidity Transfer - *search* screen
Roles	To use this screen, the following Privileges are needed: ❙ TIP_Query ❙ TIP_QueryReachable

Screenshot

	Query Liquidity Transfer status: Search criteria	
Field description		
	Object	**Required Format**
	Liquidity transfer reference	camt.050 transaction Id
	Debtor BIC	Field where to enter the BIC of the owner of the account to be debited. Format is BIC11.

4.1.3.2 Liquidity Transfer status – Details screen

Context of Usage   The lower part of the screen displays detailed information on the status of the relevant payment transaction, showing whether the transaction was settled successfully. This function is available only in U2A mode. In case the user is not entitled to view the data on the searched transaction an error code is returned.

Screen Access   ▐ Liquidity >> Liquidity Transfer - *search* screen >> Click on the *Search* button

Roles   To use this screen, the following Privileges are needed:

▐ TIP_Query

▐ TIP_QueryReachable

Screenshot

Liquidity Transfer: Details	
Debtor BIC	Shows the BIC code of the debtor of the given Liquidity transfer
Creditor BIC	Shows the BIC code of the creditor of the given Liquidity transfer
Debtor Account	Shows the debited Account
Creditor Account	Shows the credited Account
Liquidity transfer reference	Shows the reference of the liquidity transfer order
Liquidity transfer status	Shows whether the instruction was settled or not settled
Reason code	Describes the reason of the unsettled status. Not filled in case the Liquidity transfer status is settled
Currency	The currency of the liquidity transfer
Settlement timestamp	Shows the time at which the Liquidity transfer was settled. Displayed format is: YYYY-MM-DD hh:mm:ss:µs
Liquidity transfer amount	Shows the amount of the Liquidity transfer

TIPS UHB v1.0, section §5.1 Monitoring of Accounts, CMBs and Payments, new section

5.1 MONITORING OF ACCOUNTS, CMBS, LIQUIDITY TRANSFERS AND PAYMENTS

5.1.3 Query Liquidity Transfer Status

Context of Usage   This business scenario describes how to view the status of a Liquidity Transfer order.

Privileges   To carry out this business scenario, the following Privileges are needed:

▌ TIP_Query

▌ TIP_QueryReachable

Reference   Further information on screens involved can be found in the screen reference

part:

▌ 4.1.3 Query Liquidity Transfer status

Instructions
1. Go to the *Liquidity Transfer* screen
2. Enter the Liquidity Transfer reference and the debtor BIC as Search criteria
3. Click on the *Search* button
➔ The *Liquidity Transfer status - Display* screen, containing search results is displayed on the screen.

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High level description of Impact:

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Outcome/Decisions: