Change Request form

General Information (Origin of Request)			
☒ User Requirements Document (URD) ☐ User Detailed Functional Specification (UDFS) ☒ User Handbook (UHB) ☐ Other User Functional or Technical Documentation (SYS)			
Request raised by: TSWG	**Institution:**		**Date raised: January 2022**
Request title: Enhanced information in TIPS U2A screens			**Request ref. no:** TIPS-0048-URD
Request type: Change request			
1. Legal/business importance parameter: H		**2. Market implementation efforts parameter – Stakeholder impact:** M	
3. Operational impact: H		**4. Financial impact parameter:** H	
5. Functional/ Technical impact: H		**6. Interoperability impact:** L	
Requestor Category: Central Banks		**Status:** Allocated to a release	

Reason for change and expected benefits/business motivation:

The current TIPS GUI functionality allows to query payment transactions and liquidity transfers by using the Originator BIC and transaction reference as search criteria (as per TIPS User Handbook sections 4.1.3 - 4.1.4). The functional enhancements envisaged with TIPS-0026-URD and TIPS-0027-URD included the possibility of enriching the range of search criteria (amount, status, error code, etc) to be used individually or in combination. Considering the increased usage of the TIPS U2A expected with the Pan-European reachability, the PSPs have raised the need to further extend the information present in the TIPS GUI by adding additional search criteria and adding new details to the query result screens.

Description of requested change:

In addition to the new TIPS GUI query payment transactions search criteria introduced with TIPS-0026-URD[1], the following additional criteria (to be used individually or in combination) will be added for the payment transaction query screen[2]:

- Amount range for the amount field
- Time range for the interbank settlement date field
- TIPS dedicated cash account
- Transaction leg[3]

Furthermore, an export functionality to extract the result of the query in *.csv* format will be available.

A *new liquidity transfer list* screen will be introduced to give an overview of the different liquidity transfers exchanged in TIPS[2] (intra-service, inbound or outbound). An export functionality to extract the result of the query in *.csv* format will be available. The search criteria for the list screen would be the following (to be used individually or in combination):

- TIPS dedicated cash account
- TIPS ancillary system technical account
- Business date from
- Business date to

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[1] For reference, the search criteria introduced with TIPS-0026-URD are: Amount, Interbank Settlement Date, Time range for the Acceptance Timestamp, Status, Error Code, Debtor BIC, Creditor BIC.

[2] In order to ensure proper load and response times for the GUI, a limit would be imposed on the maximum number of records to be shown. For result sets smaller than or equal to the limit, the total set of results the query has produced is shown. For result sets larger than the limit, only a number of records equal to the limit would be shown, with the information that the result set has exceeded the limit.

[3] Transaction leg search criteria will allow the following values: empty (default), both, credit, debit.

Change Request form

- Credits
- Debits
- Amount from
- Amount to
- Liquidity transfer status

The existing *account balance and status screen* will be enriched with additional details:

- Time of the last settlement on the account (liquidity transfer or payment transaction)
- Transaction reference of the last settlement on the account (liquidity transfer or payment transaction)

Upon request, e.g. by clicking on a dedicated additional button after the account balance and status query has been triggered, it shall be possible for a central bank user to look up the time of last settlement and last transaction reference on the selected account.

Submitted annexes / related documents:

Proposed wording for the Change request:

Please note that, while the wording underlined once is only proposed for change request TIPS.0048.URD, the proposed wording underlined twice is already foreseen by change request TIPS.0026.URD and reported here for the sake of completeness.

TIPS UDFS v4.1.1

1) § 1.2.5 Graphical user interface

[…]

The following table provides the exhaustive list of TIPS U2A functions provided through the GUI.

Each TIPS Actor may trigger all or only a subset of these functions depending on the participant type (e.g. Central Bank, TIPS Participant, etc.) and only in relation to the objects in its own data scope. These functions, with the exception of the Advanced Payment Transaction status query and the Advanced Liquidity Transfer status query, which may be subject to a less restrictive service level agreement, are available on a 24/7/365 basis.

Table 1 – TIPS U2A functions

Function	Actor
[…]	[…]
Query Payment Transaction Status	TIPS Participant, Instructing Party, CB, TIPS Operator
Advanced Payment Transaction Status	TIPS Participant, Ancillary System, Instructing Party, CB, TIPS Operator
Liquidity Transfer Status	TIPS Participant, Ancillary System, Instructing Party, CB, TIPS Operator
Advanced Liquidity Transfer Status	TIPS Participant, Ancillary System, Instructing Party,

Change Request form

Function	Actor
	CB, TIPS Operator
[…]	[…]

2) § 1.5.1 General concepts

[…]

Queries, with the exception of the Advanced Payment Transaction status query and the Advanced Liquidity Transfer status query which may be subject to a less restrictive service level agreement, are available on a 24/7/365 basis, and allow users to access data in real time. TIPS provides ~~four~~ six types of queries:

- Account balance and status query;
- CMB limit and status query;
- Payment transaction status query;
- Advanced Payment transaction status query;
- Liquidity transfer status query~~.~~;
- Advanced Liquidity transfer status query.

With the only exception of the Advanced Payment transaction status query, the Liquidity transfer status query~~,~~ and the Advanced Liquidity transfer status query, which are available in U2A only, the remaining queries can be triggered both in U2A and A2A mode.

[…]

3) § 1.5.5.1 Queries

[…]

In order to check the status of a previously submitted Liquidity Transfer order, the following query is available in U2A mode only:

- Liquidity transfer status query.

The following advanced queries for Liquidity Transfers and Payment Transactions are available in U2A mode only:

- Advanced Liquidity transfer status query;
- Advanced Payment transaction status query.

[…]

4) § 2.7 Queries

[…]

Change Request form

The section covers the scenarios in which a TIPS Participant, Ancillary System or Instructing Party queries the system in order to obtain information related to the balance and the status of an account, the limit and the status of a CMB or the status of a previously submitted or received Instant Payment transaction or Recall Response. This process is characterized by six ~~four~~ different types of query:

- Account balance and status query;
- CMB limit and status query;
- Payment transaction status query.
- Advanced Payment transaction status query;
- Liquidity Transfer status query;~~.~~
- Advanced Liquidity Transfer status query.

[…]

Table 2 – Query permissions

Actor	Account Balance and Status Query	CMB Limit and Status Query	Payment Transaction Status Query and Advanced Payment Transaction Status Query	Liquidity transfer status query and Advanced Liquidity transfer status Query
[…]	[…]	[…]	[…]	[…]

[…]

The Account balance and status query allows the authorised actor to get the detailed information for one or multiple accounts, specifying the account identifiers.

Returned data for each account queried are:

- TIPS Participant or Ancillary System identifier;
- TIPS Account or TIPS AS Technical identifier;
- Current account balance;
- Currency linked to the account;
- Account status;
- Timestamp of the query.

If the Account balance and status query is triggered in U2A mode, the authorised actor can retrieve the following information concerning the last Payment Transaction or Liquidity Transfer settled on the relevant account:

- Transaction Identification;

- Settlement timestamp.

[…]

The Payment transaction status query allows the authorised actor to get the detailed information for one payment transaction, specifying as input parameter (i) the Originator Participant or Reachable Party BIC and (ii) the payment transaction reference.

Returned data for each Payment Transaction queried are:

- Originator BIC of the payment transaction;
- Beneficiary BIC of the payment transaction;
- Payment transaction reference;
- Payment transaction status;
- Amount of the payment transaction;
- Settlement timestamp (if available);
- Acceptance timestamp;
- Payment transaction reception timestamp[4];
- Payment transaction forwarding timestamp[5] (if available);
- Confirmation reception timestamp[6] (if available);
- Confirmation to the originator timestamp[7] (if available).

The Advanced Payment transaction status query allows the authorised actor to get detailed information for the payment transactions, based on the selected combination of the following search criteria:

- Originator BIC of the payment transaction;
- Beneficiary BIC of the payment transaction;
- Settlement business date;
- Lower bound of the search range for the Settlement Timestamp of the payment transaction;
- Upper bound of the search range for the Settlement Timestamp of the payment transaction;
- Lower bound of the search range for the Amount of the payment transaction;
- Upper bound of the search range for the Amount of the payment transaction;
- Cash Account;
- Transaction leg;
- Currency of the payment transaction;
- Lower bound of the search range for the Acceptance Timestamp of the payment transaction;
- Upper bound of the search range for the Acceptance Timestamp of the payment transaction;
- Status of the payment transaction;
- Error Code.

For each payment transaction, the following data shall be displayed on the list screen:

- Payment transaction reference;

[4] The timestamp when the payment transaction is received by TIPS from the originator participant

[5] The timestamp when the payment transaction is forwarded to the beneficiary participant

[6] The timestamp when the confirmation for a payment transaction is received by TIPS from the beneficiary participant

[7] The timestamp when the confirmation for a payment transaction is forwarded by TIPS to the counterpart

- Originator BIC of the payment transaction;
- Beneficiary BIC of the payment transaction;
- Acceptance Timestamp;
- Amount of the payment transaction;
- Settlement business date (if available);
- Status of the payment transaction;
- Error code (if available);
- Settlement Timestamp (if available);
- Transaction leg;
- Cash Account.

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).

The Advanced Liquidity transfer status query allows the authorised actor to get a list of liquidity transfers, specifying individually or in combination the following parameters as input:

- Debtor BIC of the liquidity transfer;
- Creditor BIC of the liquidity transfer;
- Cash Account;
- Liquidity transfer reference;
- Liquidity transfer status;
- Lower bound of the search range for the amount of the liquidity transfer;
- Upper bound of the search range for the amount of the liquidity transfer;
- Lower bound of the search range for the Business date;

- Upper bound of the search range for the Business date;
- Direction

For each liquidity transfer, the following data shall be displayed on the list screen:

- Liquidity transfer reference;
- Debtor BIC of the liquidity transfer;
- Creditor BIC of the liquidity transfer;
- Credited Cash Account;
- Debited Cash Account;
- Status of the liquidity transfer;
- Amount of the liquidity transfer;
- Settlement Date of the liquidity transfer.

[…]

5) § 2.7.1 Examples

[…]

For a detailed description of the (i) Payment transaction status query, (ii) Advanced Payment transaction status query, (iii) Liquidity Transfer status query and (iv) Advanced Liquidity Transfer status query U2A screens, the reader may refer to the User Handbook (see **Error! Reference source not found.**).

TIPS UHB v4.1.1

6) § 2.3 Overview of the Graphical User Interface

Table 3 – Functions available in TIPS GUI

Type	Description
Query	Account balance and status query
Query	CMB limit and status query
Query	Payment Transaction status query
Query	Liquidity Transfer status query
Query	Payment Transaction Advanced status query
Query	Liquidity Transfer Advanced status query
Local reference data	Blocking/Unblocking of a TIPS Participant or Ancillary System
Local reference data	Blocking/Unblocking of an account
Local reference data	Blocking/Unblocking of a CMB
Local reference data	Increase/Decrease of a CMB limit
Task Management	Task List
Liquidity management	Enter Liquidity transfer Order[8]

7) § 2.3.1.1 Homepage

The Screenshot shall be amended to show the GUI menu item including:

- *Payment Transaction*

8) § 2.3.1.3 Account

The Screenshot shall be amended to show the Account screen business logic, including "Last settlement information" item.

9) § 2.3.1.X Payment Transaction *(new section)*

A new section (and screenshot) shall be added for the Payment Transaction GUI screen and its business logic, including the "advanced search" item.

10) § 2.3.1.5 Liquidity Transfer

The screenshot shall be amended to include the "search" and "advanced search" items.

11) § 2.3.3.1 Menu Structure

The GUI menu is structured into ~~one~~ two hierarchical menu levels. The level is presented as a menu bar containing the menu items (TIPS Party, Account, Credit Memorandum Balance, Liquidity Transfer,

[8] Outbound liquidity transfers are allowed during the operating times of the respective RTGS.

Payment Transaction, Task List, Audit Trail) which are always visible on top of each screen. “Liquidity Transfer” and “Payment Transaction” menu items can be further navigated - the second menu level is accessible via mouse-over on the first-level menu item - in order to select the desired functionality (i.e. “Search” and “Advanced Search”). “Liquidity Transfer” and “Payment Transaction” menu items on the first menu level are structural subcategories. To access either “Search” screen or “Advanced Search” screen, the user shall click on the second menu level.

The Screenshot “Screenshot” shall be amended to show the GUI menu containing the revised menu items.

12) § 2.3.3.2 Screen Structure

The Screenshot “Screenshot with header elements” shall be amended to show the GUI menu containing the revised menu items.

The Screenshot of the Content Areas, shall be amended to show the Account list screen including the new button “Last settlement information”.

[…]

The TIPS GUI consists of the following types of screens, each with a different function:

- *Welcome* screen
- *Search/List* screen
- *Details* screen
- *Enter* screen

Welcome screen	The *welcome* screen is the entrance into the TIPS GUI. It also contains a ticker line providing the user with the latest information. The ticker is managed by the TIPS Operator.
Search/List screen	The *search/list* screen allows the user to query the TIPS database using a predefined set of search criteria. After executing a search, a list of data records matching the search criteria is displayed in a table. For the screens that allow advanced search criteria, the user can query the TIPS enhanced information database using a predefined set of search criteria. After executing a search, a list of data records matching the search criteria is displayed in a table. To select an entry from a list displayed on a search/list or list screen, click on the desired entry. The background colour of the table line changes to indicate the selected entry. The user can browse through the list using the table buttons. Furthermore, it is possible to arrange the search results in ascending or descending order by the columns shown. This does not trigger a refreshed query.
Details screen	In contrast to the *search/list* screen, the user can only access the *details* screens via the *search/list* screen. the user can find all possible ways of accessing the screen via other screens in the respective screen description within the screen reference part.
[…]	[…]

13) § 2.3.3.3 Field types and properties

On *search/list* and *enter* screens, users can enter information via input fields and select fields. Pre-filled information is displayed in read-only fields.

The description of the common field types and relevant properties follows below.

[...]

Select fields

[…]

Wildcards

A wildcard is a placeholder for characters and it represents any acceptable character or a set of them in a string. When specified in the field description, the user can use a wildcard in input fields in the advanced search screens to search for data widening the result to all the strings matching the pattern. TIPS accepts two possible values:

- ‘*’ that is a placeholder for one or more characters of the input value;
- ‘?’ that is a placeholder for exactly one character of the input value.

Examples

TIPS*: The result list contains all data records beginning with ‘TIPS’.

*Account: The result list contains all data records ending with ‘Account’.

TIP?: The result list contains all data records that have any acceptable character at the end of ‘TIP’, e.g. ‘TIPS’, ‘TIPT’, etc.

The wildcards are always usable in the fields reported before with the following restrictions:

- It is possible that to properly search with wildcards the user shall insert at least two or four characters. In this case, the minimum number of characters to be entered is reported in the field remarks;
- It is possible that a field does not allow wildcards; in this case, this is explicitly mentioned in the Remarks field.

[…]

Date

A Date type field has the following format: YYYY-MM-DD. There are four digits representing the year, two digits representing the month and two digits representing the day.

The default value of Date fields, unless differently specified, is BLANK.

The field Date is always linked to a calendar icon that opens a calendar where you can select a day. It is possible to insert a date writing in the field or using the calendar.

Time[9]

The Time type field has the following format: HH:MM:SS There are two digits representing the hour, two digits representing the minute and two digits representing the second.

Date Time[10]

A Date Time type field has the following format: YYYY-MM-DD HH:MM:SS. There are four digits representing the year, two digits representing the month, two digits representing the day, two digits representing the hour, two digits representing the minute and two digits representing the second. The field Date Time is always linked to a calendar icon that opens a calendar where you can select a day and a time. It is possible to insert a date and a time writing in the field or using the calendar.

14) § 4.1.1.2 Query account balance and status – Display screen

Context of Usage The lower part of the screen displays detailed information on the balance and the status of the Account. The Change Status button and the Last Settlement Information button are ~~is~~ not enabled until a successful inquiry is executed.

Screen Access […]

Privileges […]

Screenshot *The Screenshot shall be amended to show the dedicated button "last settlement information".*

Buttons

Change Status	This function enables the user, if provided with the needed privilege, to access the Account blocking screen. References for error messages: [ ]: - R008	
Last Settlement Information	This function enables the user to display a pop-up including the following information concerning the last settlement occurred on the relevant account.[11]	

9 The Time in the system refers to the CET/CEST zone.

10 The Time in the system refers to the CET/CEST zone.

11 The latest settlement information includes also postings originated by settlement activities also related to TIPS CMBs linked to the relevant account being displayed.

	- Transaction Identification (Identification of the originating Payment Transaction/Liquidity Transfer) - Settlement timestamp (the time at which the Payment Transaction/Liquidity Transfer was settled. Displayed format is: YYYY-MM-DD hh:mm:ss:µsµsµs)	

15) § 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.

The Liquidity Transfer status advanced query allows the authorised actor to get additional details on liquidity transfers than those obtained via the Liquidity Transfer status query. TIPS allows actors to query liquidity transfer orders available in the production system within the last three calendar months, in near-real time. The search results will provide a list of a maximum of e.g. 1.000.

[…]

16) § 4.1.3.3 Liquidity Transfer status – Advanced Search screen *(new section)*

Context of Usage

This screen contains the search criteria that can be used to retrieve the relevant information on liquidity transfer. The user can use multiple search criteria jointly in order to restrict the returned data set of liquidity transfers. The user can browse through the list using the table buttons. In order to reduce the risk of performance issues, in case of too loose search criteria that may lead to the retrieval of a large number of liquidity transfer orders, the inquiry will limit the displayed result to 100 liquidity transfers per page (e.g. up to a maximum of 10 pages).

Furthermore, the user can sort the results acting on each column of the table and, additionally, the user can exclude rows from the result set.

TIPS shall allow the Central Banks, TIPS Participants, Ancillary Systems and authorized Instructing Parties to query Liquidity Transfers, which match the selected search criteria.

This function is available in U2A mode only. As a general remark, liquidity transfers are eligible to be retrieved if the involved debited/credited account belongs to the data scope of the requestor.

Screen Access

- Liquidity Transfer >> Advanced *Search/List* Screen

Privileges

To use this screen, the following Privileges are needed:

- TIP_Query

Screenshot

Screenshot to be added

Field description

Advanced Query Liquidity Transfer: Search criteria	
Object	**Required Format**
Liquidity Transfer reference	camt.050 transaction Id Required format is: max. 35x characters.
Debtor BIC	Field where to enter the BIC of the Debtor Agent. Possible values are: - at least 4 and less than 11x characters followed by a wildcard character (*); - BIC11 without wildcard character. In case of Inbound LT this field shall be filled in with the BIC of the RTGS system.
Creditor BIC	Field where to enter the BIC of the Creditor Agent that could be the BIC of the Financial Institution on whose behalf the Liquidity Transfer is performed (only in case of intra-service liquidity transfers funding a TIPS AS technical account). Possible values are: - at least 4 and less than 11x characters followed by a wildcard character (*); - BIC11 without wildcard character.
Cash Account	Enter the number of the Cash Account. This field is mandatory if the user is neither a NCB user nor the Service Operator. Required format is: max. 34x characters. The field cannot contain wildcards if the user is neither a NCB user nor the Service Operator.
Direction	This field offers the possibility to restrict the result list to liquidity transfers either debiting or crediting the account (or both). Possible values: - Credit or Debit - Credit - Debit Default value: ‘Credit or Debit’
Status	Select the status of the liquidity transfer from the possible values: - All - Settled (default value) - Failed - Rejected
Amount From	This field offers the possibility to restrict the result list to liquidity transfers of amounts equal to or higher than the value entered in this field. The value entered in this field has to be lower than the value entered in the field ‘Amount To’.

Amount To	This field offers the possibility to restrict the result list to cash transfers of amounts smaller than or equal to the value entered in this field. The value entered in this field has to be higher than the value entered in the field 'Amount From'
Business date From	Field where to enter the lower bound for the business date of the liquidity transfers. Required format is: YYYY-MM-DD
Business date To	Field where to enter the upper bound for the business date of the liquidity transfers. Required format is: YYYY-MM-DD

Advanced Query Liquidity Transfer - List	
Liquidity Transfer reference	Shows the reference of the liquidity transfer order
Debtor BIC	Shows the BIC code of the of the Debtor Agent
Creditor BIC	Shows the BIC code of the Creditor Agent that can be also the BIC of the Financial Institution on whose behalf the Liquidity Transfer is performed (only in case of intra-service liquidity transfers funding a TIPS AS technical account).
Credited Cash Account	Shows the number of the credited cash account
Debited Cash Account	Shows the number of the debited cash account
Status	Shows the status of the liquidity transfer
Amount	Shows the amount of the liquidity transfer
Settlement Date	Show the settlement date of the liquidity transfer

Buttons

Search	This function enables the user to start a search according to the filled in criteria.
Reset	This function enables the user to set the fields to default value
Export	This function enables the user to export the result of the executed query in a csv-file. In addition to the exported result the following information is exported at the start of the file: name of the exported screen (including menu path), current date, name of the user who triggered the exporting, classification label 'RESTRICTED', timestamp of the export, defined search criteria (query parameters, if applicable).
New	This function enables the user to access the New Liquidity Transfer order screen.

17) § 4.1.4 Query Payment transaction

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

The Advanced Payment transaction status query allows the authorised actor to get additional details on payment transactions than those obtained via the Payment transaction status query. TIPS allows actors to query payment transactions in the production system within the last three calendar months, in near-real time.

[…]

18) § 4.1.4.3 Query Payment transaction - Advanced Search screen *(new section)*

Context of Usage	This screen contains the search criteria that can be used to retrieve the relevant information on payment transactions. The user can use multiple search criteria jointly in order to restrict the returned data set of payment transactions. The user can browse through the list using the table buttons. In order to reduce the risk of performance issues, in case of too loose search criteria that may lead to the retrieval of a large number of transactions, the inquiry will limit the displayed result to the most recent 100 payment transactions per page (e.g. up to a maximum of 10 pages). ~~However, in the event of payment transactions, which match to the selected search criteria, exceeding the abovementioned threshold the user will be informed by a pop-up that more results are available. Therefore, the user will have the possibility to refine the research by using (i) more restrictive or (ii) different search criteria.~~ Furthermore, the user can sort the results acting on each column of the table and, additionally, the user can exclude rows from the result set. TIPS shall allow the Originator Participant, the Instructing Party acting on behalf of the Originator Participant, the Beneficiary Participant and the Instructing Party acting on behalf of the Beneficiary Participant to query the status of payment transactions, which match the selected search criteria. This function is available in U2A mode only. In case the user is not entitled to view the data on the transactions looked up an error code is returned. As a general remark, each payment transaction is eligible to be retrieved if either the Originator BIC or the Beneficiary BIC (or both) belong to the data scope of the requestor.
Screen Access	l Payment transaction >> *Advanced Search/List* Screen
Privileges	To use this screen, the following Privileges are needed: l TIP_Query l TIP_QueryReachable
Screenshot	
	Screenshot to be added

Field description

Advanced Payment transaction status query - Search criteria	
Object	Required Format
Originator BIC	Field where to enter the debtor agent BIC ~~of the owner of the debited TIPS account. Format is BIC11.~~[12] Possible values are: ▪ at least 4 and less than 11x characters followed by a wildcard character (*); ▪ BIC11 without wildcard character. ~~References for error messages: [ ]:~~ ~~IR002~~
Beneficiary BIC	Field where to enter the creditor agent BIC ~~of the owner of the credited TIPS account. Format is BIC11.~~ Possible values are: ▪ at least 4 and less than 11x characters followed by a wildcard character (*); ▪ BIC11 without wildcard character. ~~References for error messages: [ ]:~~ ~~IR002~~
Settlement business date	Field where to enter the RTGS business date of the payment transaction as a lookup criterion. Required format is: YYYY-MM-DD
Settlement Timestamp From	This field offers the possibility to restrict the result list to payment transactions with settlement timestamp equal to or higher than the value entered in this field. Required format is: YYYY-MM-DD HH:MM:SS
Settlement Timestamp To	This field offers the possibility to restrict the result list to payment transactions with settlement timestamp smaller than or equal to the value entered in this field. Required format is: YYYY-MM-DD HH:MM:SS
~~Amount~~	~~Field where to enter the amount of the payment transaction as a lookup criterion.~~
Amount From	This field offers the possibility to restrict the result list to payment transactions of amounts equal to or higher than the value entered in this field. The value entered in this field has to be lower than the value entered in the field 'Amount To'.
Amount To	This field offers the possibility to restrict the result list to payment transactions of amounts smaller than or equal to the value entered in this field. The value entered in this field has to be higher than the

[12] To ensure harmonisation of wording, section 4.1.4.1 - Query Payment transaction - Search screen (TIPS UHB) will be amended accordingly.

	value entered in the field 'Amount From'
Cash Account	Enter the number of the Cash Account. This field is mandatory if the user is neither a NCB user nor the Service Operator. Required format is: max. 34x characters. The field cannot contain wildcards.
Transaction leg	This field offers the possibility to restrict the result list to payment transactions either debiting or crediting the account (or both). Possible values: ▌ Credit or Debit ▌ Credit ▌ Debit Default value: 'Credit or Debit'
Currency	Field where to enter the currency of the payment transaction as a lookup criterion, from the list of settlement currencies active in TIPS. Default value is EUR.
Acceptance Timestamp[13] From	Field where to enter the lower bound for the Acceptance timestamp of the instant payment. Required format is: YYYY-MM-DD hh:mm:ss
Acceptance Timestamp[Error! Bookmark not defined.] To	Field where to enter the upper bound for the Acceptance timestamp of the instant payment. Required format is: YYYY-MM-DD hh:mm:ss
Status	Select the status of the payment transaction from the possible values: I All I Settled (default value) I Failed I Rejected I Rejected by the Beneficiary I Expired
Error Code	Select the error code of the payment transaction from the possible values: I All (default value) I AB05 I AB06 I AB07 I AB08 I AB09 I AB10 I AC01

[13] Since the Acceptance Timestamp field is only relevant for the pacs.008 message, its usage as search criterion will limit the inquiry to the instant payment transactions only (i.e. excluding any recall answer).

	I AC03 I AC04 I AC06 I AG01 I AG02 I AG09 I AG10 I AG11 I AM02 I AM04 I AM05 I AM09 I AM23 I BE04 I MD07 I MS01 I MS02 I MS03 I TBL1 I TBL2 I CNOR I CUST I DNOR I NOAS I RR01 I RR02 I RR03 I RR04

Advanced Payment transaction status query - List	
Payment Transaction reference	Shows the reference of the payment transaction
Originator BIC	Shows the BIC code of the Originator Bank of the given payment transaction.
Beneficiary BIC	Shows the BIC code of the Beneficiary Bank of the given payment transaction.
Settlement business date	Shows the RTGS business date at which the transaction is settled. Displayed format is: YYYY-MM-DD The field is empty in case the transaction is not settled.
Settlement Timestamp	Shows the time at which the Payment Transaction was settled. Displayed format is: YYYY-MM-DD hh:mm:ss:µsµsµs. The field is empty in case the transaction is not settled.

~~Payment transaction a~~Amount	Shows the amount of the payment transaction.
~~Payment transaction c~~Currency	Shows the currency of the payment transaction
Transaction leg	This field shows the leg of the transaction from the possible values: - Credit or Debit - Credit - Debit
Acceptance Timestamp	Shows the Acceptance timestamp of the instant payment. Displayed format is: YYYY-MM-DD hh:mm:ss:μsμsμs
Status	Shows the status of the payment transaction from the possible values: - Settled - Failed - Rejected - Rejected by the Beneficiary - Expired
Error Code	Shows the error code of the payment ~~transaction from the possible values:~~. - ~~AB05~~ - ~~AB06~~ - ~~AB08~~ - ~~AG09~~ - ~~AM02~~ - ~~AM05~~ - ~~AM23~~ - ~~MS01~~ - ~~TBL1~~ - ~~TBL2~~ - ~~CNOR~~ - ~~DNOR~~ The field is empty in case the payment transaction is settled.

Buttons

Search	This function enables the user to retrieve the information on the selected payment transactions. ~~References for error messages: [ ]:~~ - ~~R010~~
Reset	This function enables the user to set the search criteria fields to their default values.
Export	This function enables the user to export the result of the executed query in a csv-file.

	In addition to the exported result the following information is exported at the start of the file: name of the exported screen (including menu path), current date, name of the user who triggered the exporting, classification label 'RESTRICTED', timestamp of the export, defined search criteria (query parameters, if applicable).

High level description of Impact:

The CR aims at (i) introducing an advanced LT query functionality and (ii) complementing the advanced payment transaction query functionality envisaged with TIPS-0026 by extending the filter criteria and results displayed. The new screens will rely on the new aggregation introduced by the Enhanced Information Database.

Impacts on other projects and products:

No impact is foreseen on other TARGET services:

- CSLD no impact
- ECMS no impact
- T2S no impact
- TARGET2 no impact

Outcome/Decisions:

L3 analysis - General Information	
Impact on TIPS	
Business Interface	
	A2A Interface
X	U2A Interface
Settlement Engine	
	Payment Transaction
	Liquidity Transfer
	Recall
Queries and Reports	
X	Queries

	Reports
Other functions	
	Local Reference Data Management
	Statistics
X	Complex Queries and Reports
	Mobile Proxy Look-up
Common Components	
	ESMIG
	CRDM
	Archiving
	Billing
	DMT
Operational Tools	
	SLA Reporting
	TMS
	Technical Monitoring
	Change Management
	Capacity Management
Infrastructure request	
	Application components impacted
	Application components not impacted
Operational activities	
	Business activities impacted
	Technical activities impacted
New functionalities	

Impact on documentation		
Document	**Chapter**	**Change**
TIPS UDFS	§ 1.2.5 Graphical user interface § 1.5.1 General concepts § 1.5.5.1 Queries § 2.7 Queries § 2.7.1 Examples	The new U2A Advanced Liquidity Transfer status query is added to the relevant chapters describing query functionalities. The Account balance and status query description is amended to include the possibility for the user to retrieve information concerning the last settlement on the relevant account. The list of data retrieved when a U2A Advanced Payment Transaction status query is performed has been enlarged.
TIPS UHB	§ 2.3 Overview of the Graphical User Interface § 2.3.1.1 Homepage § 2.3.1.3 Account § 2.3.1.X Payment Transaction (new section) § 2.3.1.5 Liquidity Transfer § 2.3.3.1 Menu Structure § 2.3.3.2 Screen Structure § 2.3.3.3 Field types and properties § 4.1.1.2 Query account balance and status – Display screen § 4.1.3 Query Liquidity transfer status § 4.1.3.3 Liquidity Transfer status – Advanced Search screen (new section) § 4.1.4 Query Payment transaction	New search/list screen for Advanced Liquidity Transfer status query. The new U2A Advanced Liquidity Transfer status query is added to the relevant chapters describing query functionalities. The list of data retrieved when a U2A Advanced Payment Transaction status query is performed has been enlarged. The Account balance and status query screen is enriched with a dedicated button that allows the user to retrieve information concerning the last settlement on the relevant account.

		The list of common field types and relevant properties has been enlarged with new items. The description of the menu has been amended to introduce a two hierarchical structure for Payment Transaction and Liquidity Transfer menu items.
Training documentation	FN.020_Access to TIPS FN.070_Query report and notifications	New Advanced Liquidity Transfers status query use case
Other documents		

Overview of the impact of the request on TIPS (L2 view)
Summary of functional, development, infrastructure, operational and security impacts
Summary of functional impact: - A new search/list screen for Advanced Liquidity Transfer status query is envisaged in order to meet the requirement of extending the research capability on liquidity transfer from the TIPS GUI. The new screen allows to using a combination of search criteria and it shows the list of liquidity transfers retrieved in "near-real" time. The query will allow performing historical queries, in near-real time, on liquidity transfers handled in TIPS within the last three calendar months and depending on the requestor's data scope. Taking into account the near real-time assumption, there might be a temporal gap in which, despite the liquidity transfer reached a final status in TIPS, it cannot immediately be retrieved from the Advanced liquidity transfer status query screen. - Additional criteria (to be used individually or in combination) and information provided are envisaged for the Advanced Payment transaction status query screen. A synergy with TIPS CR-0026 has to be taken into account, as they are both part of the same business scenario (i.e. advanced query/response on payment transactions). Therefore, it is suggested to envisage a possible joint deployment of CR-0026 and CR-0048 with the same batch.

- The existing account balance and status screen will be enriched with a dedicated button that would permit to retrieve information concerning the last settlement occurred on the relevant account.

- Additional functionalities (i.e. export data), field types and properties (i.e. the possibility to use wildcard, to sort query results and to exclude rows from the answer set) are envisaged for the search/list screen of the Advanced Liquidity Transfer status query and of the Advanced Payment transaction status query screen (that would be introduced in the first place with CR-0026).

Summary of application development impact:

The CR affects the TIPS-GUI component only. More into details, such a GUI will be subject to the following changes:

1. The new screen for “Advanced LT query” will be added. The new screen will allow users to get a list of LTs matching the filtering criteria and, selecting one of the entries in the list, to get the details of the LT.

2. The “Advanced Payments query” screen, to be implemented by the TIPS-CR-0026, will be enhanced to allow additional search criteria.

3. Enhance the already existing “Account Balance screen” to add a function (triggered by a button) to get additional information related to the last update of the account.

4. Add new functionalities for exporting data and to process query results, on the “Advanced LT query” and “Advanced Payments query” screens.

Summary of infrastructure impact:

Experience shows that changes with relevant development impacts always bring at least minimal infrastructural impacts; this is the case also for CR-0048. Minor infra impacts are expected to accommodate this change.

Summary of operational impact:

No operational impact.

Summary of security impact:

See Change Request analysis.