| General Information (Origin of Request) | | |
|---|---|---|
| ☐ User Requirements (URD) <br> ☒ Other User Functional or Technical Documentation (SYS) | | |
| **Request raised by:** Deutsche Bundesbank on behalf of the German T2S NUG | **Institute:** Central Bank | **Date raised:** 12/07/2016 |
| **Request title:** Enhance Cash Forecast Query and Report to display CORP related cash movements separately | | **Request ref. no:** T2S 0629 SYS |
| **Request type:** Common | **Classification:** Scope enhancement | **Urgency:** Normal |
| **1. Legal/business importance parameter:** Low | | **2. Market implementation efforts parameter:** Low |
| **3. Operational/Technical risk parameter:** Low | | **4. Financial impact parameter:** Medium |
| **Requestor Category:** Central Bank | | **Status:** Implemented |

**Reason for change and expected benefits/business motivation:**
A T2S payment bank, in the role of a "main paying agent" needs to provide CeBM in a DCA at a pre-defined time, to allow CORP settlement without negative impact on other market participants. If the main paying agent does not fund the DCA in due time, the corporate event may not settle in time, hence this CORP figure is of significant importance.

This CORP information is also very useful for all receivers of cash proceeds resulting from corporate actions in order to have a proper understanding how the cash amount to be projected is "built" up. Firstly the treasurer needs to know at what time he can expect cash credits resulting from corporate actions (according to the CAJWG standards this cannot be later than 12h00 local time); the treasurer is then able to consider the cash proceeds in the funding requirements for regular settlement, i.e. decreased funding. Secondly, the payment bank uses the CARL functionality to transfer the received cash automatically to the linked RTGS account. These cash credits cannot be used for any settlement on the DCA. Without the separate CORP information the cash forecast would not reflect the actual funding requirements.

The cash amount to be debited and/ or credited on the respective DCA(s) can have a significant impact based on the amount of CORP bookings.
Currently, the T2S cash forecast does not differentiate between CORP related activities and other settlement. This differentiation should be introduced in order to provide more granular information. This change request shall cover the A2A and U2A cash forecast query and the cash forecast report.
_____

**Description of requested change:**
Even if the Cash Forecast information is aligned in A2A (report/ query) and in U2A (query), i.e. CR 540 ("Alignment of U2A and A2A cash forecast information"), the amount of expected debits and expected credits of all cash movements is not sufficient to identify a critical custody-driven funding demand for a Main Paying Agent.

Therefore the Cash Forecast shall be enhanced by displaying in addition to the above mentioned sum of debit/ sum of credit, a "thereof CORP related debits/ CORP related credits" for the Settlement Instructions (i.e. four figures). So the Cash Forecast should include the following positions:
- Sum of debits
  - Sum of debits, thereof debits (non CORP)
  - Sum of debits, thereof CORP related debits
- Sum of credits
  - Sum of credits, thereof credits (non CORP)
  - Sum of credit, thereof CORP related credits

CORP should then include only instructions with a securities transaction type code "CORP". All other securities transaction type codes, e.g. "TRAD", "CLAI" and "TRAN", should be part of the "non CORP" position.

These changes are foreseen for U2A impacting the following screens
- Cash Forecast – Search / List screen
- Cash Forecast – Details

and for A2A impacting the following messages:
- For the Cash Forecast Query Response – camt.004
- For the Cash Forecast Report ( Current Settlement Day Cash Information Report and Following Settlement Day Cash Forecast Report) – camt.0521

The same information should be available for the counterparty/ own instructions status "on hold"/ "released" in case of implementing CR 630*.

Finally, after implementing both related CRs the cash forecast (report and query) should contain in A2A and U2A:
- Sum of debits:
  - thereof debits (non CORP) – Counterparty and/ or own instructions on hold[2]
  - thereof debits (non CORP)– Counterparty and own instruction released[3]
  - thereof CORP related debits – own instructions on hold
  - thereof CORP related debits – own instructions released
- Sum of credits:
  - thereof credits (non CORP) – Counterparty and/ or own instructions on hold
  - thereof credits (non CORP)– Counterparty and own instructions released
  - thereof CORP related credits – Counterparty instructions on hold
  - thereof CORP related credits – Counterparty instructions released

* There is a dependency to the related change request CR0630 "Enhance Cash Forecast Query and Report to display expected aggregated cash movements, with separate status Hold or Released".

_____

**Submitted annexes / related documents:**

_____

**Proposed wording for the Change request:**
**UDFS:**

1.6.4.4.3 Query management process

| QUERY TYPE | INITIATION VIA GUI (U2A MODE) | INITIATION VIA XML MESSAGES (A2A MODE) |
|---|---|---|
| … | … | … |
| Transactional Data Audit Trail List Query | x | |
| … | … | … |
| SME Growth Market | x | |
| Liquidity Information Query | | x |

**1.6.5.7.6 Billing data collection process**

Table 203 A2A queries and Business Items

---

[1] Currently the information about corporate actions is available only after the start of new business day. So it is assumed that in case the corporate action information is not yet available the respective fields should provide 0.
[2] This figure considers Settlement Instructions that have the status "on hold".
[3] This figure considers Settlement Instructions that don't have the status „on hold" – so their status is „released".

| Query Name | Business Item |
|---|---|
| **….** | **…..** |
| Limit Utilisation Query | Limit |
| Liquidity Information Query | T2S dedicated cash account |
| Liquidity Transfer Order Detail Query | Standing or Predefined Liquidity Transfer Order |

2.18.3 Inbound and outbound messages

| QUERY TYPE | INPUT | | | | | |
|---|---|---|---|---|---|---|
| | ISO MESSAGE | ISO CODE | ISO MESSAGE/MESSAGE USAGE | ISO CODE | ISO MESSAGE/MESSAGE USAGE | ISO CODE |
| ... | | | | | | |
| Cash Forecast Query | GetAccount [ 1042] | camt.003.001.06 | ReturnAccount [ 1049] / "Cash Forecast query response" [ 1050] | camt.004.001.07 | ReturnAccount [ 1049] / "Cash Forecast query response" [ 1050] | camt.004.001.07 |
| Liquidity Information Query | GetAccount [ 1042] | camt.003.001.07 | ReturnAccount [ 1105] / "Liquidity Information Query Response" | camt.004.001.08 | ReturnAccount [ 1049] / "Liquidity Information Query Response" [ 1050] | camt.004.001.08 |
| Limit Query | GetLimit [ 1078] | camt.009.001.05 | ReturnLimit [ 1082] / "Limit Query Response" [ 1083] | camt.010.001.07 | ReturnLimit [ 1082] / "Limit Query Response" [ 1083] | camt.010.001.07 |

3.3.3.1 GetAccountV06 (camt.003.001.06) [UDFS 5.0 page 1042]
This message is sent to T2S to make the following types of queries:
- T2S Dedicated Cash Account Balance Query;
- Cash Forecast Query;
- Outstanding Auto Collateralisation Credit Query;

- T2S Overall Liquidity Query;
- Liquidity Information Query.

3.3.3.1.2 The T2S-specific schema [UDFS 5.0 page 1042 f.]

| MESSAGE ITEM | DATA TYPE/ CODE | BUSINESS RULES |
|---|---|---|
| […] | | |
| SearchCriteria<br><br>Document/GetAcct/AcctQryDef/AcctCrit/NewCrit/SchCrit | CashAccountSearchCriteria5 | IIMP004 [☐ 1698]<br><br>IIMP005 [☐ 1698]<br><br>IIMP006 [☐ 1698]<br><br>IIMP007 [☐ 1699]<br><br>IIMP019 [☐ 1703]<br><br>IIMP024 [☐ 1704]<br><br>IIMP151 |
| […] | | |

3.3.3.1.3 The message in business context [UDFS 5.0 page 1044 ff.]
[…] In this example an OutstandingAutoCollateralisationCreditQuery with search criteria Party BIC of the Credit Consumer, Parent BIC of the Credit Consumer is sent to T2S.

*Query Type: Liquidity Information Query*
This query type enables the sender (only CLM) to request information about the available liquidity of one or more T2S Dedicated Cash Accounts.

The following attributes can be used to restrict the query. If a field is not specified the user query returns all information consistent with the access rights:
- T2S Dedicated Cash Account Number;
- T2S Settlement Currency.

Specific message requirements
To query T2S for information about the available liquidity the field RequestType must be filled as described in the table. If the optional search criteria block is used, the occurrence of the below listed fields has to be fulfilled.

| MESSAGE ITEM | DATA TYPE/ CODE | UTILISATION |
|---|---|---|
| Identification<br><br>Document/GetAcct/MsgHdr/ReqTp/Prtry/Id | QueryType2Code_T2S_1 [☐ 2087] | LQIN |
| Identification<br><br>Document/GetAcct/AcctQryDef/AcctCrit/NewCrit/SchCrit/AcctId/EQ/Othr/Id | RestrictedFINX2Max34Text | T2S Dedicated Cash Account Number |
| Currency<br><br>Document/GetAcct/AcctQryDef/AcctCrit/NewCrit/SchCrit/Ccy | ActiveOrHistoricCurrencyCode | Currency |

Query type example: camt.003.001.07_T2S_LiquidityInformationQuery_Example.xml

In this example a Liquidity Information Query with search criteria T2S Dedicated Cash Account Number and

<u>Currency is sent to T2S.</u>


3.3.3.2  ReturnAccountV08 (camt.004.001.08)                                          5


[UDFS 5.0 page 1049]
This message is sent by T2S in the following message usages:
- […]
- T2S Overall Liquidity Query Response;
- <u>Liquidity Information Query Response;</u>
- Information to T2S Actor – Floor notification;



*Message usage: Cash Forecast Query Response* (UDFS 5.0 p. 1052 ff.)
Specific message requirements
When T2S sends a Cash Forecast Query Response message, the field RequestType is filled with
"CASF" code. The returned business data is listed below:

| MESSAGE ITEM | DATA TYPE/ CODE | UTILISATION |
|---|---|---|
| […] | […] | […] |
| Proprietary<br><br>Document/RtrAcct/RptOrErr/<br><br>AcctRpt/AcctOrErr/Acct/MulBal/Tp/Prtry | T2SCashBalanceCodes_T2S_1<br><br>[□ 2095] | Balance type code specifying<br><br>the nature of the balance:<br><br>CRAC, LTCA, PCCA, SICA,<br><br>SUPA, TCCA, SIDA, <u>CNCR,</u><br><br><u>CCOR, CNCH, CCOH, DNCR,</u><br><br><u>DCOR, DNCH, DCOH</u> |
| […] | […] | […] |

The message usage example is provided jointly with changes stemming from CR-0630.

Message usage example: camt.004.001.07_T2S_CashForecastQueryResponse_Example.xml (UDFS 5.0 p. 1054 f.)

This example illustrates a Cash Forecast Query Response which reports on balances of available cash on the T2S Dedicated Cash Account, Outstanding Intraday Credit and liquidity transfer orders and settlement instructions which would be effective on the available cash balance on the T2S Dedicated Cash Account, with the following values:

- TCCA (available balance): 6.000.000 (Credit)
- CRAC (outstanding credit): 70.000.000 (Debit)
- LTCA (sum of all debiting liquidity transfer orders): 20.000.000
- SICA (sum of all crediting settlement instructions): 30.000.000
- <u>CNCR (Crediting Settlement instructions, thereof non CORP released): 10.000.000</u>
- <u>CCOR (Crediting Settlement instructions, thereof CORP released): 8.000.000</u>
- <u>CNCH (Crediting Settlement instructions, thereof non CORP on hold): 4.000.000</u>
- <u>CCOH (Crediting Settlement instructions, thereof CORP on hold): 8.000.000</u>
- SIDA (sum of all debiting settlement instructions): 10.000.000
- <u>DNCR (Debiting Settlement instructions, thereof non CORP released): 3.000.000</u>
- <u>DCOR (Debiting Settlement instructions, thereof CORP released): 1.000.000</u>
- <u>DNCH (Debiting Settlement instructions, thereof non CORP on hold): 2.000.000</u>
- <u>DCOH (Debiting Settlement instructions, thereof CORP on hold): 4.000.000</u>
- PCCA (projected balance): TCCA+SICA-LTCA-SIDA: 6.000.000 (Credit)
- SUPA (Sum of projected balance + amount of outstanding intraday credit): 64.000.000 (Debit)

3.3.3.2.3 The message in business context [UDFS 5.0 page 1050 ff.]

This example illustrates an Outstanding Auto-Collateralisation Credit Query informing about the Auto-collateralisation limit set by a CB and Auto-collateralisation limit utilisation for two T2S Dedicated Cash Accounts and the sum positions for all accounts.

*Message usage: Liquidity Information Query Response*
<u>This message usage informs the sender on the available liquidity of one or more T2S Dedicated Cash Accounts. This query returns information on T2S Dedicated Cash Accounts that match the specified selection parameters. The following information is delivered:</u>
- <u>T2S Dedicated Cash Account number;</u>
- <u>Currency;</u>
- <u>Cash balance on T2S Dedicated Cash Account;</u>
- <u>Value of the available collateral in T2S;</u>
- <u>Value of the outstanding auto-collateralisation amount in T2S per T2S Dedicated Cash Account.</u>

Specific message requirements
When T2S sends a Liquidity Information Query Response message, the field RequestType is filled with "LQIN" code. The returned business data is listed below:

| MESSAGE ITEM | DATA TYPE/ CODE | UTILISATION |
|---|---|---|
| Identification<br><br>Document/RtrAcct/MsgHdr/ReqTp/Prtry/Id | QueryType2Code_T2S_2 [□ 2088] | LQIN |
| Identification<br><br>Document/RtrAcct/RptOrErr/AcctRpt/AcctId /Othr/Id | RestrictedFINX2Max34Text | T2S Dedicated Cash<br><br>Account Number |
| Currency<br><br>Document/RtrAcct/RptOrErr/AcctRpt/AcctO rErr/Acct/Ccy | ActiveOrHistoricCurrencyCode | Currency |
| Amount<br><br>Document/RtrAcct/RptOrErr/AcctRpt/AcctO rErr/Acct/MulBal/Amt | RestrictedFINImpliedCurrencyAnd Amount | Amount of the balance type specified in the Tp/Prtry tag |
| CreditDebitIndicator<br><br>Document/RtrAcct/RptOrErr/AcctRpt/AcctO rErr/Acct/MulBal/CdtDbtInd | CreditDebitCode | Credit or debit indicator |
| Proprietary<br><br>Document/RtrAcct/RptOrErr/AcctRpt/AcctO rErr/Acct/MulBal/Tp/Prtry | T2SCashBalanceCodes_T2S_1 [□ 2095] | Balance type code specifying the nature of the balance:<br><br>ACCA, ACLV, CRAC |

When T2S sends a Liquidity Information Query Response message (error response), the field RequestType is filled with "LQIN" code by T2S. The returned business data is listed below.

| MESSAGE ITEM | DATA TYPE/ CODE | UTILISATION |
|---|---|---|
| Identification<br><br>Document/RtrAcct/MsgHdr/ReqTp/Prtry/Id | QueryType2Code_T2S_2 [□ 2088] | LQIN |
| Proprietary<br><br>Document/RtrAcct/RptOrErr/OprlErr/Err/Prt ry | Max4AlphaNumericText | T2S specific error code as specified in the error code table |
| Description<br><br>Document/RtrAcct/RptOrErr/OprlErr/Desc | RestrictedFINXMax140Text | Textual description in addi-tion to the reported T2S specific error code |

Message usage example: camt.004.001.08_T2S_LiquidityInformationQueryResponse_Example.xml

This example illustrates a Liquidity Information Query Response informing about the balances on the T2S Dedicated Cash Accounts, the value of the available collateral in T2S and the value of the outstanding auto-collateralisation amount in T2S.

Message usage: Information to T2S Actor – Floor Notification

3.3.3.15 BankToCustomerAccountReportV06 (camt.052.001.06)
The following message usage examples are provided jointly with changes stemming from CR-0630.

Message usage example:
camt.052.001.06_T2S_CurrentSettlementDayCashInformationReport_Example.xml
(UDFS 5.0 p. 1120)
In this example a Current Settlement Day Cash Information Report is sent to a CB (NCBBICTS) or Payment bank (TSSPARTYA20). The T2S Dedicated Cash Account (T2S30000099) is nominated in EUR, the current settlement day is: 2013-10-13.
  • CASH (cash balance): 1.000.000 (Credit)
  • PCAS (projected cash balance): 100.000 (Credit)
  • AOIC (amount of outstanding intraday credit): 300.000 (Debit)
  • SPCA (total sum projected cash balance and outstanding intraday credit): 200.000 (Debit)
  • AVLD (available liquidity transfers): 400.000 (Debit)
  • AVSC (available settlement instructions crediting): 250.000
  • CNCR (Crediting Settlement instructions, thereof non CORP released): 100.000
  • CCOR (Crediting Settlement instructions, thereof CORP released): 30.000
  • CNCH (Crediting Settlement instructions, thereof non CORP on hold): 80.000
  • CCOH (Crediting Settlement instructions, thereof CORP on hold):  40.000
  • AVSD (available settlement instructions debiting): 750.000
  • DNCR (Debiting Settlement instructions, thereof non CORP released): 300.000
  • DCOR (Debiting Settlement instructions, thereof CORP released): 250.000
  • DNCH (Debiting Settlement instructions, thereof non CORP on hold): 110.000
  • DCOH (Debiting Settlement instructions, thereof CORP on hold): 90.000

Message usage example:
camt.052.001.06_T2S_FollowingSettlementDayCashInformationReport_Example.xml
(UDFS 5.0 p. 1121)
In this example a Following Settlement Day Cash Forecast Report is sent to a CB (NCBBICTS) or Payment Bank (TSSPARTYA20). The T2S Dedicated Cash Account (T2S30000099) is nominated in EUR, the current settlement day is: 2013-10-14.
  • CASH (cash balance): 1.000.000 (Credit)
  • PCAS (projected cash balance): 100.000 (Credit)
  • AOIC (amount of outstanding intraday credit): 0,00 10
  • SPCA (total sum projected cash balance and outstanding intraday credit): 100.000 (Credit)
  • AVLD (available liquidity transfers): 400.000 (Debit)
  • AVSC (available settlement instructions crediting): 250.000
  • CNCR (Crediting Settlement instructions, thereof non CORP released): 100.000
  • CCOR (Crediting Settlement instructions, thereof CORP released): 30.000
  • CNCH (Crediting Settlement instructions, thereof non CORP on hold): 80.000
  • CCOH (Crediting Settlement instructions, thereof CORP on hold):  40.000
  • AVSD (available settlement instructions debiting): 750.000
  • DNCR (Debiting Settlement instructions, thereof non CORP released): 300.000
  • DCOR (Debiting Settlement instructions, thereof CORP released): 250.000
  • DNCH (Debiting Settlement instructions, thereof non CORP on hold): 110.000
  • DCOH (Debiting Settlement instructions, thereof CORP on hold): 90.000

**4.1 Index of Business Rules and Error Codes**

Add the new business rules

| BR NAME | DESCRIPTION | INBOUND MESSAGE | REPLY MESSAGE | CODE USE | REASON CODE | ERROR TEXT |
|---|---|---|---|---|---|---|
| … | … | … | … | … | … | … |
| IIMP151 | For the user query "Liquidity Information Query" the following search criteria are allowed:<br>- T2S dedicated cash account number<br>- Currency | camt.003 | camt.004 | | I079 | While referring to the query 'Liquidity Information Query (LQIN)', the selected search criteria are invalid. |

## 4.2.2 T2S proprietary codes

QueryType2Code_T2S_1

| CODE | NAME | DEFINITION |
|---|---|---|
| […] | | |
| CASF | Cash Forecast Query | specifies the requested return criteria for cash forecast query |
| LQIN | Liquidity Information Query | specifies the requested return criteria for liquidity information query |
| OACC | Outstanding Auto-Collateralisation Credit Query | specifies the requested return criteria for outstanding auto-collateralisation credit query |
| […] | | |

QueryType2Code_T2S_2

| CODE | NAME | DEFINITION |
|---|---|---|
| […] | | |
| FLAM | Floor Amount | specifies the definition of the floor amount |
| LQIN | Liquidity Information Query | specifies the requested return criteria for liquidity information query |
| OACC | Outstanding Auto-Collateralisation Credit Query | specifies the requested return criteria for outstanding auto-collateralisation credit query |

| [...] | | |
|---|---|---|

T2SCashBalanceCodes_T2S_1

| CODE | NAME | DEFINITION |
|---|---|---|
| [...] | | |
| ACLU | Auto-collateralisation Utilisation | Auto-collateralisation limit utilisation |
| ACLV | Available Collateral Value | Value of the available collateral in T2S |
| CCLB | Client-collateralisation Limit | Client-collateralisation limit set by a payment/settlement bank |
| [...] | | |

**Impact on message documentation on MyStandards / schema:**
camt.003.001.07:
- GetAcct/MsgHdr/ReqTp/Prtry/Id: Add code "LQIN" to datatype QueryType2Code_T2S_1
- GetAcct/MsgHdr/ReqTp/Prtry/Id: Add the following text to the existing T2S-Use: Liquidity Information Query (LQIN) (for CLM only) T2S Dedicated Cash Account Number, T2S Settlement Currency
- GetAcct/AcctQryDef/AcctCrit/NewCrit/SchCrit: Add business rule IIMP151

camt.004.001.08:
- RtrAcct/MsgHdr/ReqTp/Prtry/Id: Add code "LQIN" to datatype QueryType2Code_T2S_2
- RtrAcct/MsgHdr/ReqTp/Prtry/Id: Add the following text to the existing T2S-Use: Liquidity Information Query (LQIN) (for CLM only) T2S Dedicated Cash Account number, T2S settlement currency, Amount of the balance type, Credit or debit indicator, Balance type code
- RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/MulBal/Tp/Prtry: Add the following codes to the datatype T2SCashBalanceCodes_T2S_1: ACLV: Value of the available collateral in T2S; , CNCR, CCOR, CNCH, CCOH, DNCR, DCOR, DNCH and DCOH

camt.052:
/Document/BkToCstmrAcctRpt/Rpt/TxsSummry/TtlNtriesPerBkTxCd/BkTxCd/Prtry/Cd: Add the new bank transaction codes CNCR, CCOR, CNCH, CCOH, DNCR, DCOR, DNCH and DCOH

**UHB**:
2.3.1.1 Cash Forecast – Search List Screen
**Screenshot:** to be added later (not available yet)
**Field Description:** The new fields listed below are to be added in the field description of the 'Cash Forecast - List' table

| Cash Forecast - List | |
|---|---|
| **Cash Balance** | |
| ... | ... |
| Impacted - Crediting Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to corporate actions which are on hold[1], credit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the |

| | decimal part. |
|---|---|
| Impacted - Crediting Corporate Settlement Instructions Released | Shows the sum of the settlement instructions related to corporate actions which are released[2], credit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| Impacted - Crediting Non-Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to non-corporate actions which are on hold[1], credit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| Impacted - Crediting Non-Corporate Settlement Instructions Released | Shows the sum of the settlement instructions related to corporate actions which are released[2], credit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| Impacted - Debiting Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to corporate actions which are on hold[1], debit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. The pending reverse collateral movements are excluded from this sum. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| Impacted - Debiting Corporate Settlement Instructions Released | Shows the sum of the settlement instructions related to corporate actions which are released[2], debit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. The pending reverse collateral movements are excluded from this sum. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| Impacted - Debiting Non-Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to non-corporate actions which are on hold[1], debit a T2S dedicated cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast. The pending reverse collateral movements are excluded from this sum. Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| Impacted - Debiting Non-Corporate | Shows the sum of the settlement instructions related to non-corporate actions which are released[2], debit a T2S dedicated |

| | |
|---|---|
| Settlement Instructions Released | cash account of the party and have an intended settlement date earlier than or equal to the intended settlement date used for the calculation of the cash forecast.<br>The pending reverse collateral movements are excluded from this sum.<br>Provision of '99999...99' in case oversizing occurs in the integer part. Truncation of decimals in case oversizing occurs in the decimal part. |
| … | … |

1 'On Hold' includes CSD Hold, Party Hold, CSD Validation Hold, CoSD Hold, and not Partially Released
2 'Released' includes also Partially Released

2.3.1.2 Cash Forecast - Details Screen
**Screenshot:** to be added later (not available yet)
**Field Description:** The new fields listed below are to be added in the field description of the 'Cash Forecast per T2S Dedicated Cash Account' table

| Cash Forecast per T2S Dedicated Cash Account | |
|---|---|
| … | … |
| **Cash Balance** | |
| … | … |
| Impacted - Crediting Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to corporate actions which are on hold[1], credit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast. |
| Impacted - Crediting Corporate Settlement Instructions Released | Shows the sum of the settlement instructions related to corporate actions which are released[2], credit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast. |
| Impacted - Crediting Non-Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to non-corporate actions which are on hold[1], credit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast. |
| Impacted - Crediting Non-Corporate Settlement Instructions Released | Shows the sum of the settlement instructions related to non-corporate actions which are released[2], credit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast. |
| Impacted - Debiting Corporate Settlement Instructions On hold | Shows the sum of the settlement instructions related to corporate actions which are on hold[1], debit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast.<br>The pending reverse collateral movements are excluded from this sum. |
| Impacted - Debiting Corporate Settlement Instructions Released | Shows the sum of the settlement instructions related to corporate actions which are released[2], debit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast.<br>The pending reverse collateral movements are excluded from this sum. |

| | |
|---|---|
| <u>Impacted - Debiting Non-Corporate Settlement Instructions On hold</u> | <u>Shows the sum of the settlement instructions related to non-corporate actions which are on hold[1], debit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast.</u><br><u>The pending reverse collateral movements are excluded from this sum.</u> |
| <u>Impacted - Debiting Non-Corporate Settlement Instructions Released</u> | <u>Shows the sum of the settlement instructions related to non-corporate actions which are released[2], debit the T2S dedicated cash account and have an intended settlement date earlier than or equal to the date used for the calculation of the cash forecast.</u><br><u>The pending reverse collateral movements are excluded from this sum.</u> |
| … | … |

1 'On Hold' includes CSD Hold, Party Hold, CSD Validation Hold, CoSD Hold, and not Partially Released
2 'Released' includes also Partially Released

2.4.1.3 Available Report - Current Settlement Day Cash Information (Following Settlement Day Cash Forecast) Report - Details Screen

| **Expected Postings** | |
|---|---|
| **Repetitive Block For each Reported Dedicated Cash Account** | |
| Posting Type | Shows the type of posting to be settled until end of day (or to be effective for the forecast day) from the possible values:<br>**I** Debiting valid and eligible settlement instructions (i.e. matched and ready for settlement)<br>**I** <u>Debiting Settlement instructions, thereof non CORP released</u><br>**I** <u>Debiting Settlement instructions, thereof non CORP on hold</u><br>**I** <u>Debiting Settlement instructions, thereof CORP released</u><br>**I** <u>Debiting Settlement instructions, thereof CORP on hold</u><br>**I** Crediting valid and eligible settlement instructions (i.e. matched and ready for settlement)<br>**I** <u>Crediting Settlement instructions, thereof non CORP released</u><br>**I** <u>Crediting Settlement instructions, thereof non CORP on hold</u><br>**I** <u>Crediting Settlement instructions, thereof CORP released</u><br>**I** <u>Crediting Settlement instructions, thereof CORP on hold</u><br>**I** Debiting liquidity transfer orders |
| Number of Expected Postings | Shows the number of expected postings. |

**GFS:**

4.1.5 QU: Queries

| ID | CRITERIA | | | REPRESENTAT IVE USE CASE |
| --- | --- | --- | --- | --- |
| | COMMUNICATI ON MODE | QUERY CATEGORY | QUERY TYPE | |
| 221 | A2A | Cash Accounts | T2S Overall Liquidity Query | 221 |
| 222 | A2A | Cash Accounts | Cash Forecast Query | 222 |
| 222a | A2A | Cash Accounts | Liquidity Information Query | 222a |
| 223 | A2A | Cash Accounts | Limit Query | 223 |

_____

**High level description of Impact:**

_____

**Outcome/Decisions:**
* CRG meeting of 6 September 2016: The CRG indicated that the Change Request cannot yet be considered mature from a content point of view and therefore, it is not yet ready for its preliminary assessment.
* CRG meeting on 26 October 2016: The CRG agreed that the Change Request can be considered mature from a content point of view and therefore, it is ready for its preliminary assessment. The 4CB preliminary assessment would be based on the assumption that the CR-629 is implemented along with the Change Request T2S-0630-SYS (Enhance Cash Forecast Query and Report to display expected aggregated cash movements, with separate status Hold or Released).
* CRG on 10 November 2016: The CRG recommended the launch of the preliminary assessment of the Change Request in a written procedure from 4 to 10 November 2016.
* OMG on 02 December 2016: During a written procedure from 11 November 2016 to 02 December 2016, the Operations Managers Group did not identify any blocking operational impact of the Change Request
* CRG meeting on 12/13 December 2016: The CRG took note of the T2S functionalities/modules impacted by the Change Request following the 4CB preliminary assessment, however that a redesign of the cash forecast is necessary to implement this functionality. Furthermore, there are synergies with the Change Request T2S-0540-URD (Alignment of U2A and A2A cash forecast information), T2S-0556-SYS (Modification of cash forecast for the current and following business day after DVP cut-off) and T2S-0630-SYS (Enhance Cash Forecast Query and Report to display expected aggregated cash movements, with separate status Hold or Released) therefore, a joint implementation would be favourable.
* PMG on the 15 October 2019: The PMG proposed the allocation of the CR for R5.0.
* CSG on 25 October 2019: The CSG authorised the CR for allocation to a T2S release.
* NECSG on 28 October 2019: The NECSG authorised the CR for allocation to a T2S release.
* MIB on 8 October 2019: The MIB authorised the CR.
* CRG on 22 January 2020: The CRG took note if the results of the detailed assessment and agreed to recommend the implementation of CR-629 in R5.0 to the PMG.

* PMG on 23 January 2020: The PMG recommended the CR for approval by the T2S Steering Level and on its inclusion in R5.0.

* OMG on 30 January 2020: The OMG completed the operational assessment of the CR.

* CSG on 5 February 2020: The CSG approved the inclusion of CR-629 in R5.0.

* NECSG on 10 February 2020: The NECSG approved the inclusion of CR-629 in T2S R5.0.

\* MIB on 13 February 2020: The MIB approved the inclusion of CR-629 in the scope of R5.0.

\* CRG on 26 May 2020: The CRG agreed to the proposed UDFS and UHB updates resulting from CR-629, and confirmed its earlier recommendation to the PMG to implement CR-629 in T2S R5.0.

\* CRG on 17 September 2020: the CRG agreed to the inclusion of a new cash query to be used by CLM.

\* OMG on 29 September 2020: The OMG confirmed their earlier operational assessment of CR-629.

\* OMG on 27 January 2021: The OMG confirmed their earlier operational assessment of CR-629.

_____

**Preliminary assessment:**

Impacted functionality/module: U2A, A2A, SETT

To be considered:

All of the cash forecast CRs which are deemed necessary by the CRG (CR 540, CR 556, CR 629, CR 630) should be implemented in one go in order to make use of synergies.

No further functional, technical and risk related issues have been identified beyond the elements already described in the Change Request.

| EUROSYSTEM ANALYSIS – GENERAL INFORMATION | |
|---|---|

| T2S Specific Components | | Common Components | |
|---|---|---|---|
| **LCMM** | | | |
| | Instructions validation | | |
| | Status management | | |
| | Instruction matching | | |
| | Instructions maintenance | | |
| | Penalty Mechanism | | |
| | | | |
| **Settlement** | | | |
| X | Standardisation and preparation to settlement | | |
| | Night-time Settlement | | |
| | Daytime Recycling and optimisation | | |
| | Daytime Validation, provisioning & booking | | |
| | Auto-collateralisation | | |
| | | | |
| **Liquidity Management** | | | |
| | Outbound Information Management | | |
| | NCB Business Procedures | | |
| | Liquidity Operations | | |
| | | | |
| **T2S Interface** *(as of June 2022 without Static Data Management, Communication for SDMG, Scheduler, Billing)* | | | |
| X | Communication | | |
| | Outbound Processing | | |
| | Inbound Processing | | |
| | | | |
| **Static Data Management** *(until Nov 2021)* | | **Common Reference Data Management** *(from PROD R5.2 Nov 2021)* | |
| | Party data management | | Party data management |
| | Securities data management | | Securities data management |
| | Cash account data management | | Cash account data management |
| | Securities account data management | | Securities account data management |
| | Rules and parameters data management | | Rules and parameters data management |
| | | | |
| **Statistics and archive** | | **Statistics and archive** | |
| | Statistical information (until Nov 2021) | | Short term statistical information |
| | Legal archiving (until Nov 2021) | | Legal archiving (from PROD R5.2) |
| | | | Data Warehouse (from PROD R5.2) |
| | | | |
| **Information** *(until June 2022 containing reference data)* | | **CRDM business interface** *(from PROD R6.0 June 2022)* | |
| X | Report management | | Report management |
| X | Query management | | Query management |
| | | | Communication |
| | | | Outbound Processing |
| | | | Inbound Processing |
| | | | |
| **Operational Services** | | | |
| | Data Migration (T2S DMT) | | Data Migration (CRDM DMT, from PROD R5.2) |
| | | | |
| | Scheduling (until Nov 2021) | | Business Day Management (from PROD R5.2) |
| | | | Business Day Management business interface (from PROD R6.0) |
| | | | |
| | Billing (until June 2022) | | Billing (from PROD R5.2) |
| | | | Billing business interface (from PROD R6.0) |
| | | | |
| | Operational Monitoring | | Operational and Business Monitoring |

| Impact on major documentation | | |
|---|---|---|
| **Document** | **Chapter** | **Change** |
| Impacted GFS chapter | | |
| Impacted UDFS chapter | 1.6.5.7.6 Billing data collection process<br>3.3.3.1 GetAccountV06 (camt.003.001.06) | Update of table 203 |
| | 3.3.3.2 ReturnAccountV07 (camt.004.001.07) | Add chapter for the usage Liquidity Information Query |
| | 3.3.3.15 BankToCustomerAccountReportV06 (camt.052.001.06) | Update of the description for the usage Cash Forecast Query Response<br>Add chapter for the usage Liquidity Information Query |
| | 4.2.2 T2S proprietary codes | Update of the description for the usages Current Settlement Day Cash Information Report and Following Settlement Day Cash Forecast Report<br><br>Adding the new codes |
| Additional deliveries for Message Specification | Message documentation for camt.003 | Update of the schema and adding the Liquidity Information Query message usage example<br>Upload to MyStandards |
| | Message documentation for camt.004 | Update of the schema and the Cash Forecast Query Response message usage example and adding the Liquidity Information Query Response message usage example |
| | Message documentation for camt.052 | Update of the schema and the Current Settlement Day Cash Information Report and Following Settlement Day Cash Forecast Report message usage examples<br>Upload to MyStandards |
| UHB | 2.3.1.1 Cash Forecast – Search List Screen | Update the description |
| | 2.3.1.2 Cash Forecast - Details Screen | Update the description |
| | 2.4.1.3 Available Report - Current Settlement Day Cash Information (Following Settlement Day Cash Forecast) Report - Details Screen | Update the description |
| Other documentations | | |
| Links with other requests | | |
| T2S-0630-SYS, T2S-0556-SYS | | |

**OVERVIEW OF THE IMPACT OF THE REQUEST ON THE T2S SYSTEM AND ON THE PROJECT**

Summary of functional, development, infrastructure and migration impacts

This CR aims at providing separately information related to CORP and to non-CORP instructions in A2A and U2A.

Cash Forecast Query U2A/A2A should display separately CORP related cash movements.
To be debited (SI) non CORP
To be debited (SI) CORP
To be credited (SI) non CORP
To be credited (SI) CORP

For Current Settlement Day Cash Information Report and Following Settlement Day Cash Forecast Report (camt.052) CORP and non CORP credit cash movements will be introduced.
Cash Forecast Detail and Cash Forecast Search+List screens should display separately information related to 'CORP' instructions and information related to 'non-CORP' instructions

Messages:
Update of message schema for camt.003, camt.004 and of message usage example for the Cash Forecast Query Response. Also adding a new example to camt.003 and camt.004.
Update of message schema for camt.052 and of message usage examples for the Current Settlement Day Cash Information Report and Following Settlement Day Cash Forecast Report

Main cost drivers:
I introduction of the separation of the CORP and non-CORP instructions in the related query and reports and the update of the related A2A messages.

| Summary of project risk |
|---|
|  |

| Security analysis |
|---|
| No adverse effect has been identified during security assessment. |

target | T2S

**23 December 2019**

# Cost assessment on Change Requests

| **T2S-0629-SYS – Enhance Cash Forecast Query and Report to display CORP related cash movements separately** | | | |
|---|---|---|---|
| One-off | Assessment costs*<br> - Preliminary<br> - Detailed | 2,000.00<br>10,000.00 | Euro<br>Euro |
| One-off | Development costs | 259,363.49 | Euro |
| Annual | Operational costs<br><br> - Maintenance costs<br><br> - Running costs | <br><br>22,953.17<br><br>0.00 | <br><br>Euro<br><br>Euro |

*The relevant assessment costs will be charged regardless of whether the CR is implemented (Cf. T2S Framework Agreement, Schedule 7, par. 5.2.3).