Change Request form

target | TIPS
services

General Information (Origin of Request)		
☒ User Requirements Document (URD)		
☒ Other User Functional or Technical Documentation (SYS)		
☐ Other TIPS Documentation (OTD)		
(*to be filled in by CoG*)		
Request raised by: 4CB	**Date raised:** 31/07/2019	
Request title: TIPS adaptations for the interaction with CLM	**Name of Central Bank:** 4CB	**Request ref. no:** TIPS 0025 URD
Categorisation of changes		
1. Functional/technical importance parameter: High		**4. Legal importance parameter:** Low
2. Operational importance parameter: High		**5. Financial importance parameter:** Low
3. Stakeholder importance parameter: High		
Status: Allocated to a Release		

Description of requested change:

TIPS provides settlement services in euro Central Bank Money. For this reason, TIPS interacts with TARGET2 for the following three main purposes:

- Liquidity Transfer management (i.e., for injection and repatriation of liquidity from/to the RTGS);
- Closure of the RTGS System (e.g., for RTGS maintenance window or banking holiday);
- Change of business date in the RTGS System (e.g. to trigger the TIPS EoD reports and the General Ledger).

In the view of T2-T2S Consolidation go-live, the current interface between TIPS and TARGET2 has to be enhanced in order to have a smooth migration.

The enhanced interface will also be used for the communication with any other RTGS system.

For the above mentioned reasons, TIPS shall be adapted with regards to the following high level functionalities:

- Interaction with CLM;
- Migration of the General Ledger format from flat-file to XML (i.e. via camt.053 GL);
- Configuration change for the RTGS system (e.g. T2-CLM Distinguished Name, Authorization checks for Liquidity Transfer in 'Pull' mode, etc.);
- Alignment of the message schema for camt.050 (LiquidityCreditTransfer) to the registered ISO version in order to ensure compatibility with CLM.

Targeting the T2-T2S Consolidation project (CSLD) go-live, the above adaptations will allow:

- Liquidity transfers between CLM Accounts and TIPS DCAs (in both directions);

- Direct liquidity transfers from TIPS DCAs to RTGS Accounts (technically implemented via CLM, i.e. through a CLM transit account);

- The Liquidity transfers exchanged via the internal interface between TIPS and CLM have to be legally archived in the new Legal Archiving (LeA) common component. For this purpose, TIPS has to be adapted in order to deliver to the LeA component the messages listed below:

    o camt.050

    o camt.025

The following list of accounts would be reachable by liquidity transfers from TIPS:

RTGS

- RTGS CB Account
- DCA
- RTGS Sub accounts

CLM

- CLM CB Account
- MCA
- Overnight deposit account

As the objective of CSLD is to optimize the liquidity management across all TARGET Services, TIPS shall be adapted in order to allow TIPS DCA holders to instruct Liquidity Transfers from TIPS DCAs to T2S Accounts (i.e. T2S DCAs, CB Accounts). Having this possibility will allow liquidity managers to manage their cash balances across all TARGET Services in a harmonized way.

Furthermore, in order to leverage on the features developed with the new T2-CLM, the T2-CLM - TIPS interface will be enriched with an additional functionality in order to allow users to retrieve from TIPS a consolidated view of the accounts under their responsibility. This functionality will be implemented in the form of an improvement of the existing Account Balance and Status Query in order to allow querying the balance of multiple accounts with one query. In other terms the query would receive as input a list of account numbers and return the following information in output:

- The balance of each TIPS DCA provided as input.

The maximum number of accounts that can be queried at the same time is set to 100 TIPS DCAs in one query.

_____

Reason for change and expected benefits/business motivation:

In order for TIPS to continue working as required, the decommissioning of TARGET2 forces several adaptations on TIPS side due to the introduction of the interface between TIPS and the T2-CLM specific component.

target | TIPS
services

_____

Submitted annexes / related documents:

_____

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

TIPS UDFS

1) <u>Introduction</u>

[…]

- Actors may use to interact in A2A mode with TIPS. Each message specification includes the following elements:

  o Reference name and identifier – e.g. LiquidityCreditTransfer (camt.050.001.04<u>5</u>)

  o List of fields included in the message. Each field specification includes the following elements:

[…]

2) <u>§1.5.3.1 Inbound Liquidity Transfer</u>

[…]

Subsequently, it changes to *Settled* status once TIPS settles the full amount of the order. Inbound liquidity transfers involve messages LiquidityCreditTransfer (camt.050.001.04<u>5</u>) and Receipt (camt.025.001.04<u>5</u>) as well as BankToCustomerDebitCreditNotification (camt.054.001.06) for credit notifications and ReturnAccount (camt.004.001.07) if the account ceiling threshold is exceeded.

[…]

3) <u>§1.5.3.2 Outbound Liquidity Transfer</u>

[…]

Outbound liquidity transfers can be performed in U2A as well as A2A mode, involving messages LiquidityCreditTransfer (camt.050.001.04<u>5</u>), Receipt (camt.025.001.04<u>5</u>), BankToCustomerDebitCreditNotification (camt.054.001.06) for debit notifications and ReturnAccount (camt.004.001.07) if the account floor threshold is exceeded.

[…]

4) <u>§1.6.1 TARGET2 and other RTGS Systems</u>

1.6.1. ~~TARGET2~~ <u>T2</u> and other RTGS Systems

This sub-section describes all the needed interactions between TIPS and the RTGS systems.

TIPS is designed to be multi-currency and to provide settlement in euro and non-euro Central Bank Money.

[…]

- the moment of change of Business Date in the relevant RTGS system, in order to start the creation of reports and the General Ledger ~~file~~ message.

[…]

The following sub-sections provide detailed information on these three main interactions, with specific reference to ~~TARGET2~~ T2-CLM.

5) §1.6.1.3 Change of business date of the RTGS System

The change of business date of the RTGS System is a key point for TIPS. When informed about the change of business date, TIPS prepares the data for the balances of the business date operations and for the General Ledger ~~file~~ message. The designed interaction between TIPS and the relevant RTGS System aims at avoiding any possible discrepancy from TIPS and RTGS System data that may come from the presence of pending Liquidity Transfers in either direction.

[…]

6) TIPS takes the snapshot of the balances and sends the General Ledger ~~file~~ message to the RTGS System;

[…]

6) §1.6.1.4 TIPS General Ledger

In the specific case of the RTGS for euro, TIPS provides a general ledger file to ~~TARGET2~~ T2-CLM for accounting and Reserve Management purposes.

7) §1.6.1.4.1 TIPS General Ledger production

When ~~TARGET2~~ T2-CLM starts its End-of-Day process, it sends a ReturnBusinessDayInformation to TIPS, in order to inform the latter that no more liquidity transfers are accepted by ~~TARGET2~~ T2-CLM and TIPS starts to finalise all pending liquidity transfers towards ~~TARGET2~~ T2-CLM.

After the finalisation of the pending liquidity transfers, TIPS confirms it with the delivery of a Receipt (camt.025) to ~~TARGET2~~ T2-CLM.

After that and upon request via ReturnBusinessDayInformation from ~~TARGET2~~ T2-CLM, TIPS generates and provides a general ledger ~~file~~ message based on "TIPS EoD account balances" data related to the business day that just elapsed and that ~~TARGET2~~ T2-CLM uses to build and provide general ledgers to the Central Banks.

8) §1.6.1.4.2 Content

The general ledger ~~for euro~~ contains all accounts in euro held in TIPS, including the transit account denominated in euro.

TIPS sends to ~~TARGET2~~ T2-CLM a single ~~not compressed flat file~~ camt.053 General Ledger message containing statements ~~records~~ without a particular order.

TIPS delivers general ledger data that fulfil the following condition: the sum of all balances of the TIPS accounts denominated in euro (excluding the transit account for euro) must be equal to the balance on the transit account for that currency in absolute value.

9) §1.5.6.1 Raw data for Archiving

TIPS provides the following information for the Archiving:

- Message signing and content of the settlement messages: FI To FI Customer Credit Transfer, Payment Return, Liquidity transfer, FI To FI Payment Status Report sent from the Beneficiary side to TIPS;

- transactional data (payment transactions, status messages, liquidity transfers);

- incoming camt.050 and camt.025 messages received on the internal interface with the RTGS system for euro.

10) §1.6.4 Archiving

The Archiving component provides features that allow the archiving of legally relevant data for regulatory purposes. Instant Payment transactions, Liquidity Transfers, incoming camt.050 and camt.025 received on the internal interface with the RTGS system for euro, status message data and reference data are archived for a period of exactly ten years. Authentication and security data are archived for a period of exactly three months.

Please refer to section 1.7.3 "Archiving management" for details on how to access archived data.

11) §1.7.3 Archiving management

TIPS provides raw data to the Archiving shared service on a daily basis, as described in 1.6.4 "Archiving".

The TIPS Operator is responsible for the retrieval of the archived information upon Central Bank request. The Central Bank can also request the retrieval of archived data on behalf of one of their TIPS Actors.

TIPS Operator is allowed to retrieve archived Instant Payment transaction, Liquidity Transfers, incoming camt.050 and camt.025 messages received on the internal interface with the RTGS system for euro, status message data and reference data for a period of exactly ten years. Moreover, TIPS Operator shall be able to retrieve archived authentication and security data for a period of exactly three months.

Change Request form

12) §2.1. Message routing

Table 1 – Network services

Data Exchange	Inbound transfer services	Outbound transfer services
Instant Payment transactions	Instant messaging	Instant messaging
Inbound/Outbound Liquidity transfers	Instant messaging	Instant messaging
Investigations	Instant messaging	Instant messaging
Queries	Instant messaging	Instant messaging
Recall	Instant messaging	Instant messaging
Notifications	n/a	Instant messaging
Reports (push)	n/a	File-based, store-and-forward
Raw data ~~and data for General Ledger~~	n/a	File transfer to RGTS system~~TARGET2~~
<u>General Ledger</u>	<u>n/a</u>	<u>Instant messaging to the RTGS system</u>

13) §2.7. Queries

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~~ <u>one or multiple</u> account<u>s</u> or to the limit and the status of ~~a~~ <u>one or multiple</u> CMB<u>s</u> <u>(up to a maximum of 100 instances)</u>. This process is characterized by four different types of query

[…]

The Account balance and status query allows the authorised actor to get the detailed information for one <u>or multiple</u> account<u>s</u>, specifying the TIPS account identifier<u>s</u>.

Returned data <u>for each account queried</u> are:

- TIPS Participant identifier;
- TIPS account identifier;
- Current account balance;
- Currency linked to the account;
- Account status;
- Timestamp of the query.

Change Request form

The CMB limit and status query allows the authorised actor to get the detailed information for one <u>or multiple</u> CMB<u>s</u>, specifying as input parameters the TIPS CMB identifiers.

Returned data <u>for each CMB queried</u> 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.

Table 2 – Account Balance Status query steps

Step	Involved messages	Involved actors	Description
1	GetAccount	Participant or Instructing Party as sender TIPS as receiver	TIPS receives an incoming Query from the Participant or Instructing Party. Technical validation, check of mandatory fields and authentication checks have already been successfully executed.
2		TIPS	TIPS successfully executes the checks: - Access Rights check; - Instructing Party authorised for queries; - ~~Account or CMB existence.~~ - <u>Query uniformity check.</u> See 4.1- Business Rules for details.
2e	ReturnAccount	TIPS as sender Participant or Instructing Party as receiver	TIPS unsuccessfully executes one of the checks of step 2. At the first negative check the system stops and sends a message to the Participant or Instructing Party – same DN of the sender – containing the proper error code.

Change Request form

Step	Involved messages	Involved actors	Description
3		TIPS	TIPS performs the following checks for each instance of ~~on the value of~~ the field "Account or CMB Identifier" of the GetAccount message (Account/CMB existence) : - for Account balance and status query, TIPS verifies that the value corresponds to an account type "TIPS Account" in the table "Cash Accounts" and if the Participant or Instructing Party is authorised to query on it based on the query permission (see Query permissions table). - for CMB limit and status query, TIPS verifies that the value corresponds to a CMB in the table "CMB" and if the Participant or Instructing Party is authorised to query on it based on the query permission (see Query permissions table). The system selects also the TIPS Account linked to the CMB; See 4.1- Business Rules for details.
3e	ReturnAccount	TIPS as sender Participant or Instructing Party as receiver	For all Account/CMB contained in the GetAccount message TIPS unsuccessfully executes one of the checks of step 3. ~~At the first negative check~~ ~~t~~The system stops and sends a message to the Participant or Instructing Party – same DN of the sender – containing the proper error code for each accounts/CMBs requested.
4		TIPS	TIPS retrieves the data corresponding to the submitted query and its input parameters. For accounts/CMBs for which one of the checks of step 3 has been unsuccessfully executed, the proper error code is reported.
5	ReturnAccount	TIPS as sender Participant or Instructing Party as receiver	The system sends a message to the Participant or Instructing Party – same DN of the query sender – containing the query results.

Change Request form

14) §3.3.1 List of messages

In the following table, messages are grouped by ISO 20022 business domain.

Table 3 – List of messages

ISO Message	Message Name	Scenario
Payments Clearing and Settlement		
[…]	[…]	[…]
camt.019.001.067	ReturnBusinessDayInformation	Reports and queries
camt.025.001.045	Receipt	Liquidity Management Reference data maintenance
camt.029.001.03	ResolutionOfInvestigation	Recall
camt.050.001.045	LiquidityCreditTransfer	Liquidity Management
[…]	[…]	[…]

15) §3.3.2.2.7 LiquidityCreditTransfer (camt.050.001.04) aligned to the registered ISO version

3.3.2.2.7 LiquidityCreditTransfer (camt.050.001.045)

The Liquidity Credit Transfer message is used in TIPS in order to instruct inbound and outbound liquidity transfers to/from RTGS Systems to fund accounts of TIPS Participants or repatriate money in the related RTGS System.

Authorised technical user (RTGS System) can send inbound liquidity transfers from the corresponding RTGS to TIPS. In case the validation is successful TIPS transfers the requested amount from the (technical) transit account to the TIPS account.

Participants or Instructing Parties acting on behalf of Participants can trigger outbound liquidity transfers in TIPS using a liquidity transfer order message.

Table 4 – LiquidityCreditTransfer (camt.050.001.045)

Field Name	Description	XML path	Mand.	TIPS Usage
Message Identifier	Identification of the message	GetAcct/MsgHdr/MsgId	Yes	
[…]	[…]	[…]	[…]	[…]

16) §3.3.2.2.5 Receipt (camt.025.001.04) aligned to the camt.050.001.05, in order to manage the references length.

3.3.2.2.5   Receipt (camt.025.001.04~~5~~)

The Receipt message is used in TIPS in different business cases related to Liquidity Credit Transfer area and CMB limit modification. […]

.

Table 5 – Receipt (camt.025.001. 04~~5~~)

Field Name	Description	XML path	Mand.	TIPS Usage
Message Identifier	Identification of the message	Rct/MsgHdr/MsgId	Yes	Only schema validation is performed.
[…]	[…]	[…]	[…]	[…]

17) §3.3.2.2.2 ReturnAccount (camt.004.001.07) multiplicity changed to allow to query multiple Accounts/CMBs.

3.3.2.2.2   ReturnAccount (camt.004.001.07)

This message is sent by TIPS to the interested Participant or Instructing Party in the following business cases:

- Account Balance and Status Query response;
- CMB Limit and Status Query response;
- Query response error;
- Account Floor and Ceiling notifications;
- CMB Floor and Ceiling notifications.

The message content differs depending on the business case. All the optional fields which are out of the related table will not be included in the message.

Table 6 – Account Balance and Status Query response

Field Name	Description	XML path	Mand.	TIPS Usage
Message Identifier	Identification of the message assigned by TIPS	RtrAcct/MsgHdr/MsgId	Yes	
Timestamp of the Query	Timestamp assigned when retrieval of	RtrAcct/MsgHdr/CreDtTm	Yes	

Change Request form

Field Name	Description	XML path	Mand.	TIPS Usage
	records has been performed			
Original Query Message Identifier	Identification of the originating query message	RtrAcct/MsgHdr/OrgnlBizQry/MsgId	Yes	Field is filled with originating Message Identfier when the camt.004 is a query response.
TIPS Account Identifier	Account identifier retrieved from reference data repository	RtrAcct/RptOrErr/AcctRpt/AcctId/Othr/Id	Yes	
Fields reported for account for which no errors are triggered				
Currency	Currency for which the returned account is issued	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/Ccy	Yes	
TIPS Participant Identifier	BIC code of the account owner	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/Ownr/Id/OrgId/AnyBIC	Yes	Field is always filled when the camt.004 is a response for Account Balance and Status query
Current Balance	Current balance of the account	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/MulBal/Amt	Yes	The balance is the sum of unreserved and reserved balances
Credit Debit Indicator	Specifies if balance is below or above zero	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/MulBal/CdtDbtInd	Yes	As negative balances are not foreseen, only the value "CRDT" is expected
Account Status	Status details for the retrieved account	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/MulBal/RstrctnTp	No	This message component is included only if the account is blocked
Restriction Type Identification	Restriction Type identifier applied to the account	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/MulBal/RstrctnTp/Tp/Id	Yes	Restriction Type code. If not provided, this field must be filled with "BLCK"
Processing Type	Specifies the processing type for the restriction type applied to the account	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/MulBal/RstrctnTp/PrcgTp/Cd	Yes	Filled with "BLCK"

Change Request form

Field Name	Description	XML path	Mand.	TIPS Usage
Fields reported for account for which at least one error is triggered				
Business Error	Specifies the error occurred when processing the originating query message	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/BizErr/Err/Prtry	Yes	
Business Error Description	Provides with additional error description	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/BizErr/Desc	No	

Table 7 – CMB Limit and Status Query response

Field Name	Description	XML path	Mand.	TIPS Usage
Message Identifier	Identification of the message assigned by TIPS	RtrAcct/MsgHdr/MsgId	Yes	
Timestamp of the Query	Timestamp assigned when retrieval of records has been performed	RtrAcct/MsgHdr/CreDtTm	Yes	
Original Query Message Identifier	Identification of the originating query message	RtrAcct/MsgHdr/OrgnlBizQry/MsgId	Yes	Field is filled with originating Message Identifier when the camt.004 is a query response.
TIPS Account Identifier	Account identifier retrieved from reference data repository	RtrAcct/RptOrErr/AcctRpt/AcctId/Othr/Id	Yes	
Fields reported for CMB for which no errors are triggered				
Currency	Currency of the account linked to the returned CMB	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/Ccy	Yes	
TIPS Participant Identifier	BIC code of the CMB user	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/CurBilLmt/CtrPtyId/FinInstnId/BICFI	Yes	
TIPS CMB Identifier	Identification of the CMB	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/Nm	Yes	Field is always filled
CMB Limit	Limit amount of the CMB for the counterparty	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/CurBilLmt/LmtAmt	Yes	

Change Request form

Field Name	Description	XML path	Mand.	TIPS Usage
Credit Debit Indicator	Specifies if limit which has been set up for the CMB is below or above zero	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/CurBilLmt/CdtDbtInd	Yes	
CMB Headroom	Dynamic headroom of the CMB limit	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/CurBilLmt/BilBal/amt	Yes	
Credit Debit Indicator	Specifies if the current headroom for the CMB is below or above zero	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/CurBilLmt/BilBal/CdtDbtInd	Yes	As negative limits are not foreseen, only the value "CRDT" is expected
CMB Status	Specifies the status of the CMB	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/Acct/CurBilLmt/BilBal/Tp/Cd	No	This field is filled only if the CMB is blocked. It must be filled with one of the following values: - "BLCK" (Blocked for credit and debit) - "CRDT" (Blocked for credit) - "DBIT" (Blocked for debit)
Fields reported for CMB for which at least one error is triggered				
Business Error	Specifies the error occurred when processing the originating query message	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/BizErr/Err/Prtry	Yes	
Business Error Description	Provides with additional error description	RtrAcct/RptOrErr/AcctRpt/AcctOrErr/BizErr/Desc	No	

18) §3.3.2.2.4 ReturnBusinessDayInformation (camt.019.001.067)

Table xx – ReturnBusinessDayInformation (camt.019.001.067)

Field Name	Description	XML path	Mand.	TIPS Usage
System Status	Status of the RTGS System	RtrBizDayInf/RptOrErr/BizRpt/BizDayOrErr/BizDayInf/SysSts/Sts/Prtry/Id	Yes	Status change of the RTGS System.
System Currency	RTGS interested currency	RtrBizDayInf/RptOrErr/BizRpt/BizDayOrErr/BizDayInf/SysInfPerCcy/SysCcy	Yes	Currency for which the RTGS status is changed.

Change Request form

19) §4.1 Business Rules

Business process	BR Name	Check ID	Input Fields and parameters	Business check	Error codes	Error Description
[...]	[...]	[...]	[...]	[...]	[...]	[...]
Queries business process	Query uniformity check	070002	Account or CMB Identifier Account User	In case of multiple instances are present in the camt.003 message as search criteria, TIPS verifies that: - all instances of Account or CMB Identifier correspond to an account type "TIPS Account" in the table "Cash Accounts"; OR - all instances of Account or CMB Identifier corresponds to a CMB in the table "CMB".	in case of an uneven set of requests: business error RJCT, error code MS01	Account balance and CMB limit are not allowed in the same message.
[...]	[...]	[...]	[...]	[...]	[...]	[...]

20) TIPS UDFS Annex

Message schema for the following messages:

- camt.050.001.05 (new example needed)

- camt.025.001.04 (to be used internally between TIPS and T2-CLM)

- camt.025.001.05 (to be used externally between TIPS and customers) (new example needed)

- admi.007.001.01

- camt.003.001.06

- camt.004.001.07

- camt.019.001.07

- camt.053.001.08 (General Ledger) (new example needed)

TIPS UHB

21) §1.2.3 TARGET2 and other RTGS systems

Change Request form

1.2.3 ~~TARGET2~~ T2 and other RTGS systems

Liquidity in TIPS is provided from an external RTGS system (~~TARGET2~~ T2 for the euro). TIPS can retain the liquidity when the RTGS system is closed, provided that it collects the balances of all its accounts into a "snapshot" and communicates it to the RTGS system at the end of the business day of the RTGS system.

It is possible to transfer liquidity between an RTGS account and a TIPS account[1], and the owner of the RTGS Account does not need to be the same as the owner of the TIPS Account

[..]

Since TIPS can keep the liquidity in its accounts while ~~TARGET2~~ T2 is closed and considering that the balances of the TIPS accounts are, from a legal perspective, considered to be in the jurisdiction of ~~TARGET2~~ TARGET, TIPS prepares snapshots of the balances during the ~~TARGET2~~ T2-CLM component end of day procedure, ensuring that no liquidity transfers are pending confirmation from ~~TARGET2~~ T2-CLM component. The same procedure is foreseen for any other RTGS system connected to TIPS.

22) §3 Initial setup

TIPS Service needs a series of Common Reference data that are used by TIPS but maintained and stored in a dedicated tool, the Common Reference Data Management (CRDM) component. The CRDM allows users to setup and maintain reference data that is shared by multiple Eurosystem services such as TIPS, ~~TARGET2~~T2 and T2S[2] and propagates such data to the relevant services. The description of the CRDM is out of scope of this document: the following paragraphs will be devoted to a general description of the objects that are created in the CRDM in order to understand how to use them in the TIPS service.

23) §3.1.3 Initial setup

Participants represent entities that are eligible for participation in ~~TARGET2~~TARGET ~~(but do not necessarily own a TARGET2~~T2 ~~Payments Module (PM) account)~~. They are identified by a BIC11 in TIPS and hold TIPS Accounts. [...]

24) §3.5.4 System parameters

The system parameters are configured by the TIPS Operator in the CRDM and propagated to TIPS once a day at 17h00 CET, shortly before the business day change of ~~TARGET2~~ the T2-CLM component.

---

[1] TIPS accounts in euro are in the legal perimeter of ~~TARGET2~~ TARGET, they are opened by the responsible Central Bank and have to be dedicated to the settlement of instant payments in TIPS.

[2] The reference data of ~~TARGET2~~T2 and T2S is not part of CRDM for the time being.

Change Request form

25) §4.4.1 Liquidity Transfer functionality

This section describes the processing of an Outbound Liquidity Transfer order sent by a Central Bank, a Participant or an Instructing Party acting on behalf of the Participant in order to transfer liquidity from a TIPS Account to an <u>Credited</u>~~RTGS~~ Account <u>(e.g. RTGS account for non euro-currency LT, T2 account for euro LT or T2S DCA)</u>. Central Banks shall be able to initiate an Outbound Liquidity Transfer even if the closing date of the TIPS Account is exceeded and regardless of the TIPS account's blocking status.

[…]

26) §4.4.1.1 Liquidity Transfer - New screen

- Screenshot to be updated

Field description

Liquidity Transfer	
Object	**Required Format**
Debtor BIC	Field where to enter the BIC of the owner of the TIPS Account to be debited. Format is BIC11. References for error messages: [)]: IL002
Debtor TIPS Account	Field where to enter the TIPS Account to be debited. Format is max. 34 characters (SWIFT-x). References for error messages: [)]: IL002
Creditor BIC	Field where to enter the BIC11 of the owner of the RTGS Account to be credited. Format is BIC11. References for error messages: [)]: IL001
Creditor ~~RTGS~~ Account	Field where to enter the ~~RTGS~~ Account <u>(e.g. RTGS account for non euro-currency LT, T2 account for euro LT or T2S DCA)</u> to be credited. Format is max. 34 characters (SWIFT-x). References for error messages: [)]: IL001
[…]	[…]

TIPS Training documentation

27) The following TIPS training documentation should be amended in order to reflect changes foreseen by this change request:

- 01. TIPS Project v1.0

Change Request form

- 02. FN.010_TIPS overview_v1.2_0

- 03. FN.020_Access to TIPS_v1.2_0

- 06.FN.050_Liquidity management_v1.2_0

- 07. FN.060_Reference data management_v1.2_1

- 09. TIPS User Training -Adaptations to TARGET2 in view of TIPS

- 12. TIPS Registration of TIPS Reference Data

- 13. TIPS Information Guide for TARGET2 users - Update in view of TIPS

ESMIG UDFS
28) §1.5.3.2 Technical message validation for TIPS

Table 8 - Cross-field validations for TIPS

ISO Code	Field/Group	Check to be performed	X-Path	ERROR Code	Output message
[...]	[...]	[...]	[...]	[...]	[...]
pacs.028.001.01	Original Message Name Identification Creditor Agent	Original Message Name Identification = "camt.056.001.01" and Creditor Agent not specified.	FIToFIPmtStsReq/OrgnlGrpInf/OrgnlMsgNmId FIToFIPmtStsReq/TxInf/OrgnlTxRef/CdtrAgt/FinInstnId/BICFI	MS01	pacs.002.001.03
camt.050.001.045	Creditor Account Type	This field must not be included in the request. The message will be rejected in that case.	LqdtyCdtTrf/LqdtyCdtTrf/CdtrAcct/Tp	L099	camt.025.001.045
camt.050.001.045	Debtor Account Type	This field must not be included in the request. The message will be rejected in that case.	LqdtyCdtTrf/LqdtyCdtTrf/DbtrAcct/Tp	L099	camt.025.001.045
camt.050.001.045	Settlement Date	This must be included in outgoing Credit Transfer. It	LqdtyCdtTrf/LqdtyCdtTrf/SttlmDt	L099	camt.025.001.045

Change Request form

ISO Code	Field/Group	Check to be performed	X-Path	ERROR Code	Output message
		must be filled with the stored RTGS business date.			

_____

High level description of Impact:

_____

Outcome/Decisions:

Change Request form

L3 analysis - General Information		
Impact on TIPS		
Business Interface		
x	A2A Interface	
x	U2A Interface	
Settlement Engine		
	Payment Transaction	
x	Liquidity Transfer	
	Recall	
Queries and Reports		
x	Queries	
x	Reports	
Common Components		
x	ESMIG	
	CRDM	
	Archiving	
	Billing	
	DMT	
Operational Tools		
	SLA Reporting	
	TMS	
	Technical Monitoring	
	Change Management	
	Capacity Management	
Infrastructure request		
	Application components impacted	

Change Request form

	Application components not impacted		
Operational activities			
	Business activities impacted		
	Technical activities impacted		
New functionalities			
Impact on documentation			
Document	**Chapter**		**Change**
- TIPS UDFS, TIPS UHB and Message versions updated.	- Introduction;		- Wording amended;
	- §1.5.3. 1 Inbound Liquidity Transfer		- Message versions updated;
	- §1.5.3. 2 Outbound Liquidity Transfer		- Message versions updated;
	- §1.5.6.1 Raw data for archiving		- Wording amended;
	- §1.6.1 TARGET2 and other RTGS Systems		- Wording amended;
	- §1.6.1.3 Change of business date of the RTGS System		- Wording amended;
	- §1.6.1.4 TIPS General Ledger		- Wording amended;
	- §1.6.1.4.1 TIPS General Ledger production		- Wording amended;
	- §1.6.1.4.2 Content		- Wording amended;
	- §1.6.4 Archiving		- Wording amended;
	- §1.7.3 Archving management		- Wording amended;
	- §2.1. Message routing		- Wording amended;
	- §2.7. Queries		- Wording amended;
	- §3.3.1 List of messages		- Change of the query cardinality.

Change Request form

		Message version updated;
	- §3.3.2.2.7 LiquidityCreditTransfer (camt.050.001.04)	- Message version updated;
	- §3.3.2.2.5 Receipt (camt.025.001.04)	- Multiplicity changed; Table amended in order to support the possibility to report multiple accounts/CLM.
	- §3.3.2.2.2 ReturnAccount (camt.004.001.07)	
	- §3.3.2.2.4 ReturnBusinessDayInform ation (camt.019.001.07)	- Update for the addition of the currency; Message version increased to V07 in order to be aligned to the registered version.
	- §4.1 Business Rules	- Business rule added.
	- §1.2.3 TARGET2 and other RTGS systems	- Wording amended;
	- §3 Initial setup	- Wording amended;
	- §3.1.3 Initial setup	- Wording amended;
	- §3.5.4 System parameters	- Wording amended;
	- §4.4.1 Liquidity Transfer functionality	- Wording amended;
	- §4.4.1.1 Liquidity Transfer - New screen	- Wording amended for the possibility to perform Liquidity Transfer.
ESMIG UDFS	- §1.5.3.2 Technical message validation for TIPS	- Message versions updated.
Training documentation	- 01. TIPS Project v1.0	- Updated for TARGET2 references;
	- 02. FN.010_TIPS overview_v1.2_0	- Updated for TARGET2 references;
	- 03. FN.020_Access to TIPS_v1.2_0	- Updated for TARGET2 references;
	- 06.FN.050_Liquidity management_v1.2_0	

Change Request form

	- 07. FN.060_Reference data management_v1.2_1	- Updated for TARGET2 references;
	- 09. TIPS User Training - Adaptations to TARGET2 in view of TIPS	- Updated for TARGET2 references;
	- 12. TIPS Registration of TIPS Reference Data	- Updated for TARGET2 references;
	- 13. TIPS Information Guide for TARGET2 users - Update in view of TIPS	- Updated for TARGET2 references;
		- Updated for TARGET2 references;
Other documents	xsd specifications and examples: - TIPS_camt.050.001.05	- Migrated to the registered ISO version – references extended to 35x, BIC pattern aligned to the one used by CLM and T2S due to the harmonization process;
	- CLM-TIPS_camt.025.001.04	- Internal message exchanged with CLM: references extended to 35x in order to support camt.050;
	- TIPS_camt.025.001.05	- External message exchanged with customers. References extended to 35x in order to support camt.050; migrated to the registered ISO version in order to be aligned with camt.050;
	- ESMIG_admi.007.001.01	- Aligned to the ESMIG specifications (only a version change);
	- TIPS_camt.003.001.06	

Change Request form

	- TIPS_camt.004.001.07	- Multiplicity extended to 100 in order to support the multiple query;
	- TIPS_camt.019.001.07	- Multiplicity extended to 100 in order to support the multiple query;
	- TIPS_camt_053.001.08_ GL	- Currency added in order to support different flows for RTGS-TIPS interaction currency dependent; Message version increased to V07 in order to be compliant to the registered version. - General Ledger specifications compliant with CLM ones.

Change Request form

Overview of the impact of the request on TIPS (L2 view)
Summary of functional, development, infrastructure, operational and security impacts

Summary of functional impact:

In order to interact with the new T2-CLM component foreseen by the CSLD project, TIPS should be adapted in order to allow the interaction with T2-CLM and to optimize the liquidity management across all TARGET Services. This is realized with a configuration change for the RTGS system (e.g. T2-CLM Distinguished Name, etc), a new customization of the A2A messages and with an update of the Liquidity Transfer screen (U2A). This Change Request allows for the execution of queries on multiple accounts to retrieve their balances in a single response (up to 100 accounts in the same request). Additionally, for the communication with the RTGS system the current General Ledger flat file format will be maintained until the T2-T2S project Go-Live. However, the new format, which makes use of a camt.053 ISO message is introduced.

Moreover, taking into account the migration to the new Legal Archiving (LeA) common component, TIPS shall deliver to LeA the incoming messages (i.e. camt.050 and camt.025) which are received by TARGET2 (and in future from CLM) on the internal interface.

An update of the TIPS functional documentation is required in the following areas:

- TIPS UDFS;

- TIPS UHB;

- ESMIG UDFS

- Message schema for camt.050, camt.025, camt.019, camt.003, camt.004, admi.007 and related message example (if needed);

- TIPS Training material (adaptation of the current presentations due to the terminology to be used for the EURO RTGS).

Summary of application development impact:

A. General Ledger: transformed from flat file to A2A message (camt.053). New and old functionalities must coexist.

B. EoD processing must be currency-dependant.

C. Configuration change for the RTGS system (T2-CLM Distinguished Name, Authorization checks for Liquidity Transfer in 'Pull' mode)

D. Alignment of the message schema for camt.050/camt.025 (LiquidityCreditTransfer) to the registered ISO version in order to ensure compatibility with CLM

Change Request form

E. Account Balance and Status Query: the function will return the balance of multiple accounts with one query (up to 100).

Summary of infrastructure impact:

It is possible to implement the change without any additional hardware or software; some reconfiguration of existing assets is expected.

Summary of operational impact:

The CR implementation will require a set of modifications with respect to the operational procedures and reference data configuration. In particular, it will be needed a change of the procedure managing general ledger provisioning in case of issues. The configuration new reference data will be put in place to handle the possibility to perform liquidity transfers between CLM/RTGS accounts and TIPS DCAs. No impact is envisaged, instead, in the running phase.

Summary of security impact:

See Change Request analysis.