



EUROPEAN CENTRAL BANK

EUROSYSTEM

General Information (Origin of Request)		
<input checked="" type="checkbox"/> User Requirements (URD) or GUI Business Functionality Document (BFD) <input checked="" type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
Request raised by: Eurosystem	Institute: NCBs	Date raised: 28/02/2019
Request title: Make the mandatory automated cash sweep at 17:45 optional, produce general ledger file and automatically rebook failed liquidity transfers to original DCA		Request ref. no: T2S 0709 URD
Request type: Common	Classification: Scope Enhancement	Urgency: Normal
1. Legal/business importance parameter: Medium	2. Market implementation efforts parameter: Medium	
3. Operational/Technical risk parameter: Low	4. Financial impact parameter: No financial impact	
Requestor Category: Central Bank	Status: Implemented	

This Change Request is one of the T2S Change Requests related to the T2-T2S Consolidation Project. The tentative distribution of these Change Requests per functional area and T2S release is summarised in the table below (as of 2 November 2020):

	R4.0 (Jun 2020)	R4.2 (Nov 2020)	R5.0 (Jun 2021)	R5.2 (Nov 2021)	R6.0 (Jun 2022)	R6.2 (Nov 2022)
					T2S>ESMIG	
ESMIG (Connectivity)					CR-701	
CRDM (Reference data)	CR-719	CR-721	CR-704 CR-696		CR-705	
BILL (Billing)				CR-697	CR-706	
BDM (Business day)		CR-698			CR-707	
DWH (Historical data)					CR-699	
LEA (Legal archiving)					CR-700	
T2-T2S communication		CR-702 (ICL) CR-703 (camt.050)	CR-729			CR-734
Liquidity management			CR-708 (Outbound LT) CR-709 (Cash sweep)			
Maintenance window			CR-710			

Reason for change and expected benefits/business motivation:

TARGET Services are a number of services developed and operated by the Eurosystem which ensure the free flow of cash, securities and collateral across Europe.

These financial market infrastructure services include **T2** (for settling payments), **T2S** (for settling securities) and **TIPS** (a service for instant payments). All of them settle in central bank money.

T2-T2S Consolidation is a project to replace TARGET2 with a new RTGS system and to optimise liquidity management across all TARGET Services. In this context, the TARGET Consolidation project will introduce a new Central Liquidity Management component (CLM) to offer a centralised mechanism for the steering, monitoring and management of payment capacity. The tool will function via a main cash account (MCA) that participants can open with a central bank. This account will be linked to the participant's dedicated cash accounts (DCAs) for the new RTGS system, T2S and TIPS.

An important feature of the CLM is that any liquidity held on dedicated cash accounts (T2S, RTGS or TIPS) will be considered for minimum reserve requirements (including excess liquidity) and marginal lending purposes without the need to transfer the balances to the main cash account. This new agreed approach gives the option to keep balances in T2S DCAs at EoD and thus provides more flexibility in managing liquidity across the TARGET Services and eliminates the need for a mandatory automated cash sweep prior to the end of each business day.

The option of keeping balances in T2S DCAs at EoD will, at the same time, reduce the operational complexity and related risk of delays or failure in the mandatory automated cash sweep at the end of the business day.

In order to ensure that the cash balances will reflect the correct amount at the end of day an automatic rebooking mechanism would be needed. In exceptional conditions (i.e. if the RTGS is rejecting a liquidity transfer, e.g. due to the usage of an excluded or not valid RTGS Account), it could happen that the "RTGS leg" of the transfer cannot be executed, while the "T2S leg" was successfully executed. In this case the liquidity will be "trapped" on the transit account as the current T2S functionality does not envisage an automatic rebooking back to the DCA of the initiator. It is currently foreseen that such situation is managed manually, by reverting the liquidity transfer in T2S, involving contacts between the operational teams of T2S and of the respective RTGS System to secure the resolution process.

The aforementioned functionality aims at increasing the resilience and consistency between the different TARGET Services and common components. (TIPS has already this functionality, and the future RTGS system as well) This will be reached by implementing an automatic solution for these liquidity movements, as T2S should automatically generate internal liquidity transfers debiting the RTGS Dedicated Transit Account and crediting the Payment Bank DCA, in case of RTGS rejections for an outbound liquidity transfer order. This is similar to the functionality described in CR-693, which would become redundant if CR-709 was implemented.

Such immediate rebooking back to the relevant DCA (in case of RTGS rejection) will ensure that the transit accounts will be always in line.

DCA holders will not need to transfer the liquidity back to their relevant main cash account before the end of day in a mandatory basis. This in turn also means that it would no longer be necessary to transfer liquidity to the T2S DCA(s) at the beginning of each new settlement day. Moreover, they will also reduce the necessity of additional standing orders transferring liquidity from/to different TARGET Services.

Those that want to perform the cash sweep can still do so by configuring the relevant standing order and opt for triggering optional cash sweeps at 17:45 to make use of such cash sweeps. In this respect, CB may opt for triggering the optional cash sweep for their own CB's accounts.

By relaxing the constraints of mandatory automated cash sweep, T2S will decrease its operational risk related to the closure of the operational day in T2S.

As a consequence of this optionality, it has to be analysed whether the existing "Inbound liquidity transfer cut-off procedure" can be aligned to the other TARGET Services and thus moved to 18:00 and therefore will contribute to the harmonisation across services.

It is deemed essential that this CR is implemented not later than the go-live of the T2-T2S consolidation project in order to allow using the full benefits right from the start and to avoid unnecessary adaptation efforts for the users to bridge an interim period

Description of requested change:

The aim of this CR is to make the mandatory automated cash sweep for euro, that currently takes place at 17:45, optional. T2S DCA owners should have the possibility to opt out from (and re-opt in to) the optional cash sweep. This would not impact the existing optional cash sweep that takes place at 16:30.

For non-euro currencies for which there is still a need to sweep the liquidity back from T2S to the relevant RTGS system, the mandatory automated cash sweep in place can still be used.

At EoD, T2S shall generate and send a snapshot of the balances held in T2S DCAs at the EoD by means of a General Ledger as defined for all other TARGET Services (i.e. camt.053 with a new message usage) to CLM (or other potential RTGS systems for different T2S currencies than Euro).

In general the process of the General Ledger File will be split into two separate independent flows:

- The first flow will take care of the generation of the General Ledger File. This creation will be triggered by receiving a new event during the EoD phase which requires the completion of all cut-offs.
- The second flow will handle the communication between CLM and T2S.

- Upon the reception of a new event and a camt.019 (with code "STOP" – Stop sending Liquidity Transfers) sent by CLM, T2S will send a camt.025 with Code "CMPT" (Completed) to CLM to communicate that all liquidity transfers are final.
- After the successful completion of the first event a second new event will be triggered
- Upon the reception of this second event and a second camt.019 (with code "CHBD" – Change Business Day) sent by CLM the already produced General Ledger file will be sent to CLM.

A procedure has to be established in order to enable the T2S operator to resend the generated file manually in case the file cannot be sent to CLM (either due to issues on CLM side or issues on T2S side).

The separation of the sending of the General Ledger file from the generation of the file avoids interdependencies between the two services T2S and CLM and decreases potential blocking situations on T2S side.

T2S should automatically generate internal liquidity transfers debiting the RTGS Dedicated Transit account and crediting the DCA in case T2S receives an RTGS answer with the utilisation of RTGS Rejection for an outbound liquidity transfer order.

The related A2A reporting of this reversal Liquidity Transfer (camt.053 for cash related reports and camt.054 for real-time status updates on cash movements) should transport the following information to the involved parties (RTGS Dedicated Transit account holder and Payment Bank as owner of the credited DCA):

Reversal Indicator to indicate that the cash booking reverts a previous booking
Field Ntry/RvslInd could be used (currently pruned in camt.053 and camt.054)

For the generation of the General Ledger the T2S cash accounts have to be enhanced with additional attributes at the latest for the CSLD go-live.

Due to the fact that CR 709 will be implemented with Release 5.0 while CLM will go live in parallel with a later T2S Release, a switch-on/switch-off mechanism has to be implemented for this change request.

Submitted annexes / related documents:

Proposed wording for the Change request:

Framework Agreement Schedule 5

Pages 203, 213, 218

Mandatory cash sweep passages should contain a reference that mandatory cash sweep is not applicable for Euro.

URD

Mandatory cash sweep related requirements should contain a reference that mandatory cash sweep is not applicable for Euro.

Transfer of liquidity in the end-of-day period

Reference ID	T2S.03.180
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The "EOD" period shall include the automated liquidity transfer from the T2S non-euro-denominated dedicated cash accounts to the relevant RTGS accounts in the relevant RTGS systems.

In case of a contingency scenario when a T2S dedicated cash account balance cannot be swept to the RTGS system, T2S shall close the end-of-day period with liquidity remaining on the cash account. On the next business day the T2S dedicated cash account shall start with the end-of-day balance of the previous business day.

Cash Account Balances

Reference ID	T2S.10.110
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Cash balances track the amount of funds in a T2S dedicated cash account at a specific point in time. Cash positions shall support the tracking of historic balances. Cash balances in T2S dedicated cash accounts change through a transfer of funds to/from RTGS system or other account in the TARGET Services from/to the T2S dedicated cash

account, through the settlement of the cash leg of a securities settlement instruction, or a corporate action payment. Section 6.1.2 in chapter 6 of the user requirements provides details as to the type of transactions that change the balances in T2S dedicated cash accounts. Generally, an occurrence of a cash balance in a non-euro currency should be zero at the end of the day for previous business days, since T2S transfers the liquidity back to the relevant RTGS account. In case of a contingency scenario when a T2S non-euro-denominated dedicated cash account balance cannot be swept to the RTGS system, T2S shall close the end-of-day period with liquidity remaining on the cash account. On the next business day the T2S dedicated cash account shall start with the end-of-day balance of the previous business day. An occurrence stores the intraday balance for the current settlement day, but again, at the end of that day the balance will be zero generally because of the transfer of the remaining liquidity to the RTGS account.

T2S DCAs may be linked to a RTGS or to a MCA. Furthermore, a new attribute of the DCA entity will differentiate the "linked account type":

T2S Dedicated Cash Account

Reference ID	T2S.16.600
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The *T2S Dedicated Cash Account* entity shall specify the T2S dedicated cash accounts of payment/settlement banks in T2S.

The entity

- shall link the T2S dedicated cash account to the relevant RTGS account in case of non-euro currencies for the automated end-of-day reimbursement or to a MCA in CLM for euro currency;
- and shall provide the reference link to the payment/settlement bank or NCB that owns the account and the NCB as system entity that operates the account.

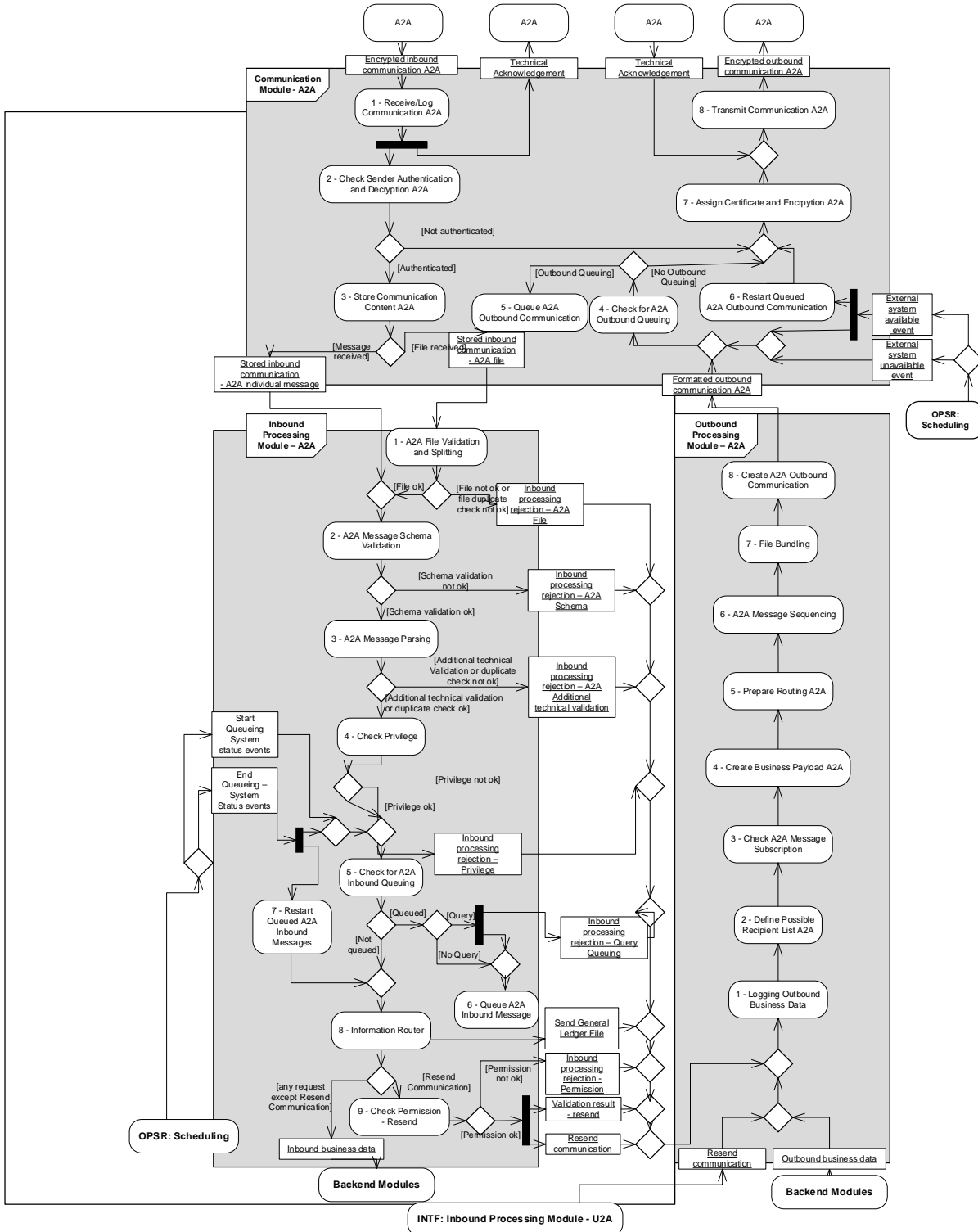
The NCBs shall define their account numbers themselves. T2S shall ensure that the account number is unique at the time of creation. It shall not be possible to modify the T2S dedicated cash account number.

Table 16-19 – List of Attributes for the Entity T2S Dedicated Cash Account

Attribute	Description
System Entity Identifier	This attribute shall specify the entity identifier of the NCB that operates the T2S dedicated cash account.
Party Identifier	This attribute shall be the unique technical party identifier of the payment bank that owns the T2S dedicated cash account.
T2S Dedicated Cash Account Identifier	This attribute shall specify the unique technical identifier of the T2S dedicated cash account in T2S.
T2S Dedicated Cash Account number	This attribute shall define the unique T2S dedicated cash account number. It is provided by the NCB (or party authorised) at the time of the dedicated cash account creation and should be in line with ISO20022 specifications for cash accounts. T2S shall check uniqueness of the provided account number.
Currency	This attribute shall specify the currency of the T2S dedicated cash account.
Floor Notification Amount	This attribute shall specify the lower threshold for notifying the cash manager. If the balance of the T2S dedicated cash account falls below this amount, then T2S immediately informs the liquidity manager of the account owner.
Ceiling Notification Amount	This attribute shall specify the upper threshold for notifying the cash manager. If the balance of the T2S dedicated cash account exceeds this amount, then T2S immediately inform the liquidity manager of the account owner.
Account Status	This attribute specifies the current business status of the T2S dedicated cash account (e.g. open or closed).
Opening Date	This attribute shall specify the date that the payment bank opens the T2S dedicated cash account.
Closing Date	This attribute shall specify the date that the payment bank closes the T2S dedicated cash account.
RTGS Account Number	This attribute shall specify the RTGS account <u>or the MCA</u> linked to the T2S dedicated cash account.
Linked Account Type	This attribute shall specify if the DCA is linked to a RTGS account or to a MCA.

GFS

3.2.1 General Introduction¹



3.2.2 Dynamic data managed by the domain²

Inbound Individual Message:

¹ Please note that the described functionality won't be available before CSLD go-live.

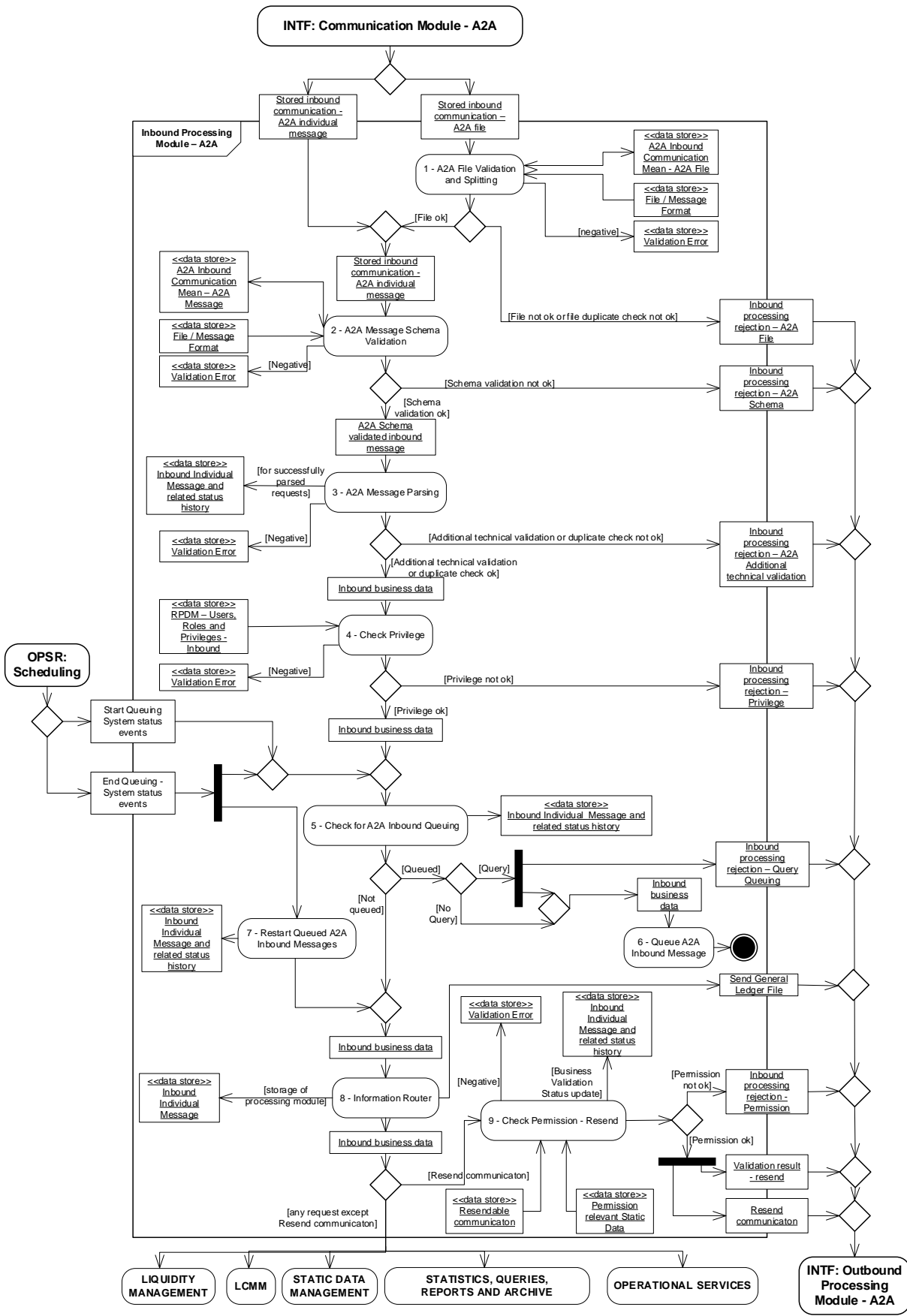
² Please note that the described functionality won't be available before CSLD go-live.

This entity is used to store the relevant information about a single inbound message after a positive technical message validation by the U2A Request Parsing function or by Message Parsing function. Also, the target Processing Module attribute as a result of the Information Router function is stored.

ATTRIBUTE	DESCRIPTION
Sender Message Reference	This attribute stores the identification of the message, which is delivered by the sender.
Entry Business Date	The attribute stores the business day, when T2S received the message.
Processing Module	<p>This attribute stores the module (component) to which the message is forwarded.</p> <p>Possible values are (exhaustive list):</p> <ul style="list-style-type: none"> - Inbound Processing Module (INTF) - <u>Outbound Processing Module (INTF)</u> - Outbound Information Management (LQMG) - Liquidity Operations (LQMG) - Query Management (SRQA) - Instruction Validation (LCMM) ...

3.2.4.2 Diagram of the module³

³ Please note that the described functionality won't be available before CSLD go-live.



3.2.4.3 Description of the functions of the module⁴
 8 – Information Router

MODULE	MESSAGE	FLOW (INTERNAL FORMAT)	REMARKS	URD REFERENCES
LQMG: Outbound Information Management	Receipt	RTGS answer		
		<u>CLM Request</u>		
LQMG: Liquidity Operations	Liquidity Credit Transfer	Immediate / inboundliquidity transfer	Immediate liquidity transfer originally coming from T2S actors or Inbound Liquidity Transfer coming from RTGS actors	{T2S.06.195}{T2S.13.083}{T2S.16.170}
		Liquidity transfer approval request	Only U2A	
...				
INTF: Outbound Processing Module	Resend communication	Resend communication		
		<u>Send General Ledger File</u>		

3.2.4.4 Description of the input/output of the module⁵

The Inbound Business Data flow described before is used as place holder for the various different businessflows, which have to be delivered to the back end modules (special case is the Resend Message flow and the General Ledger File flow, which is sent to the Outbound Processing Module.

FLOW	IN/OUT	DESCRIPTION	FROM	TO
....				
Resend communication	<u>OUT</u>	U2A or A2A initiation of the resending of an already sent A2A message or file		INTF: Outbound Processing Module

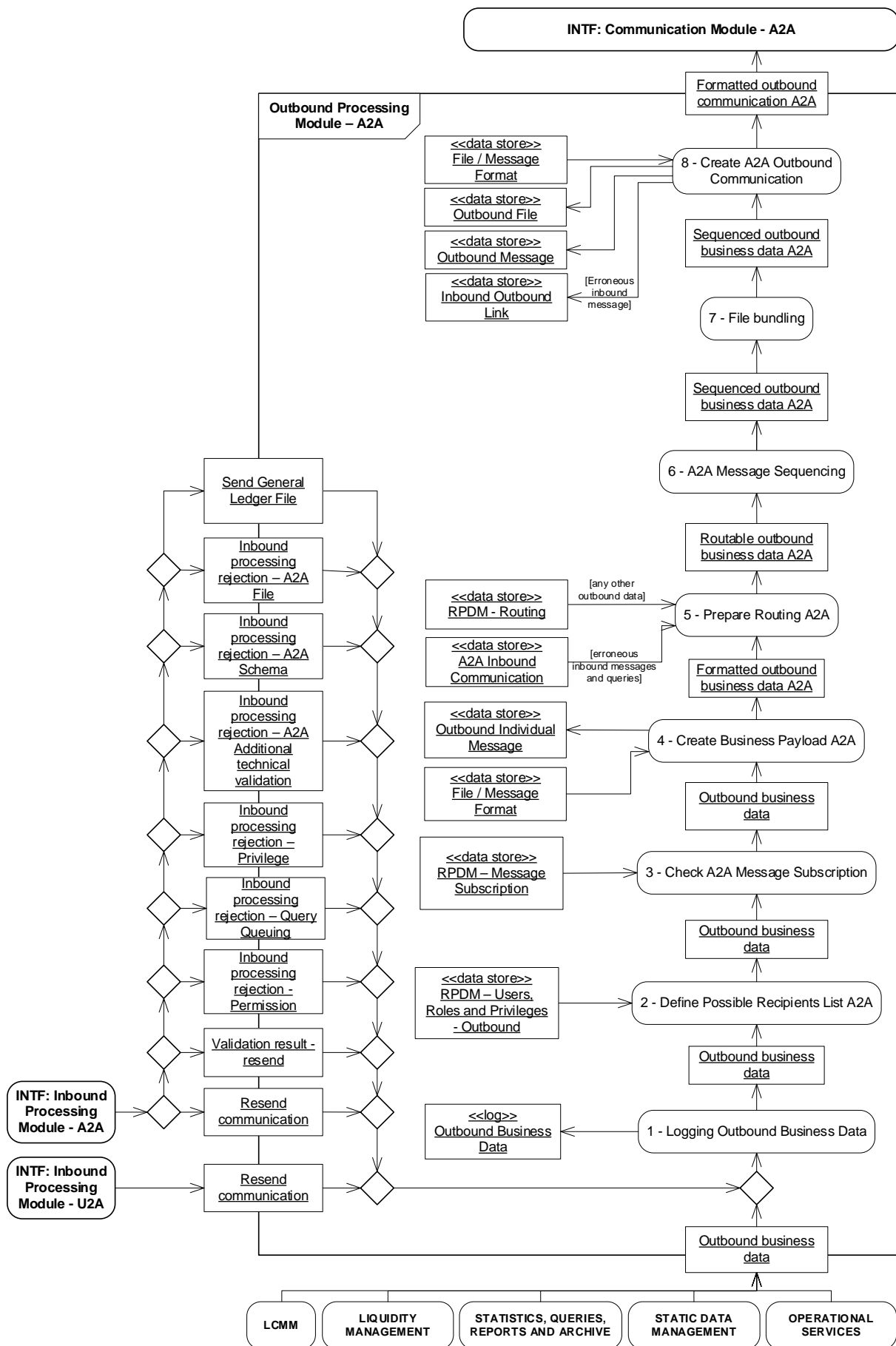
⁴ Please note that the described functionality won't be available before CSLD go-live .

⁵ Please note that the described functionality won't be available before CSLD go-live .

FLOW	IN/OUT	DESCRIPTION	FROM	TO
<u>Send General Ledger File</u>	<u>OUT</u>	Initiation of the sending of General Ledger File to CLM		INTF: Outbound Processing Module
RTGS answer	<u>OUT</u>			LOMG: Outbound Information Management
<u>CLM Request</u>	<u>OUT</u>			<u>LOMG:Outbound Information Management</u>
....				

3.2.5.2 Diagram of the module⁶

⁶ Please note that the described functionality won't be available before CSLD go-live.



3.2.5.3 Description of the functions of the module⁷

Outbound Processing Module – Application-to-Application mode

1 – Logging Outbound Business Data

This function receives:

- | The Outbound business data flows for the U2A and A2A mode from the processing modules (e.g. results on queries);
- | The Resend communication flow;
- | The error condition flows (e.g. Inbound processing rejections);
- | The *Send General Ledger* flow

It logs the Outbound business data flow in the log Outbound Business Data for short term traceability purposes.

4 – Create Business Payload A2A

MODULE	MESSAGE	FLOW (INTERNAL FORMAT)	REMARKS	URD REFERENCES
...				
LQMG: Outbound Information Management	Liquidity Credit Transfer	Outbound LiquidityTransfer	Includes rejection of Inbound Liquiditytransfer, Immediate liquidity transfer order	{T2S.06.060}

	Return Account	Information to T2SActor (here: Floor/Ceiling)		{T2S.06.233} {T2S.06.234} {T2S.13.086}
	<u>Receipt</u>	<u>Information to CLM</u>		
LQMG: Liquidity Operation	Liquidity Credit Transfer	Immediate / inboundliquidity transfer	Immediate liquidity transfer originally coming from T2S actors or Inbound Liquidity Transfer coming from RTGS actors	{T2S.06.195}{T2S.13.083}{T2S.16.170}

⁷ Please note that the described functionality won't be available before CSLD go-live.

3.6.1 General Introduction⁸

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Prepares the cash sweep for transfer of remaining liquidity available on T2S Dedicated Cash Accounts to the relevant RTGS accounts.

Starting with the go live of CLM T2S will not initiate an “automated cash sweep” for Euro denominated Dedicated Cash Accounts. T2S Users have the possibility to make use of a second optional cash sweep for their Euro denominated Dedicated Cash Accounts.

UDFS

1.4.4.4.5 Real-time settlement closure schedule⁹

DIAGRAM 65 - REAL-TIME SETTLEMENT CLOSURE SCHEDULE

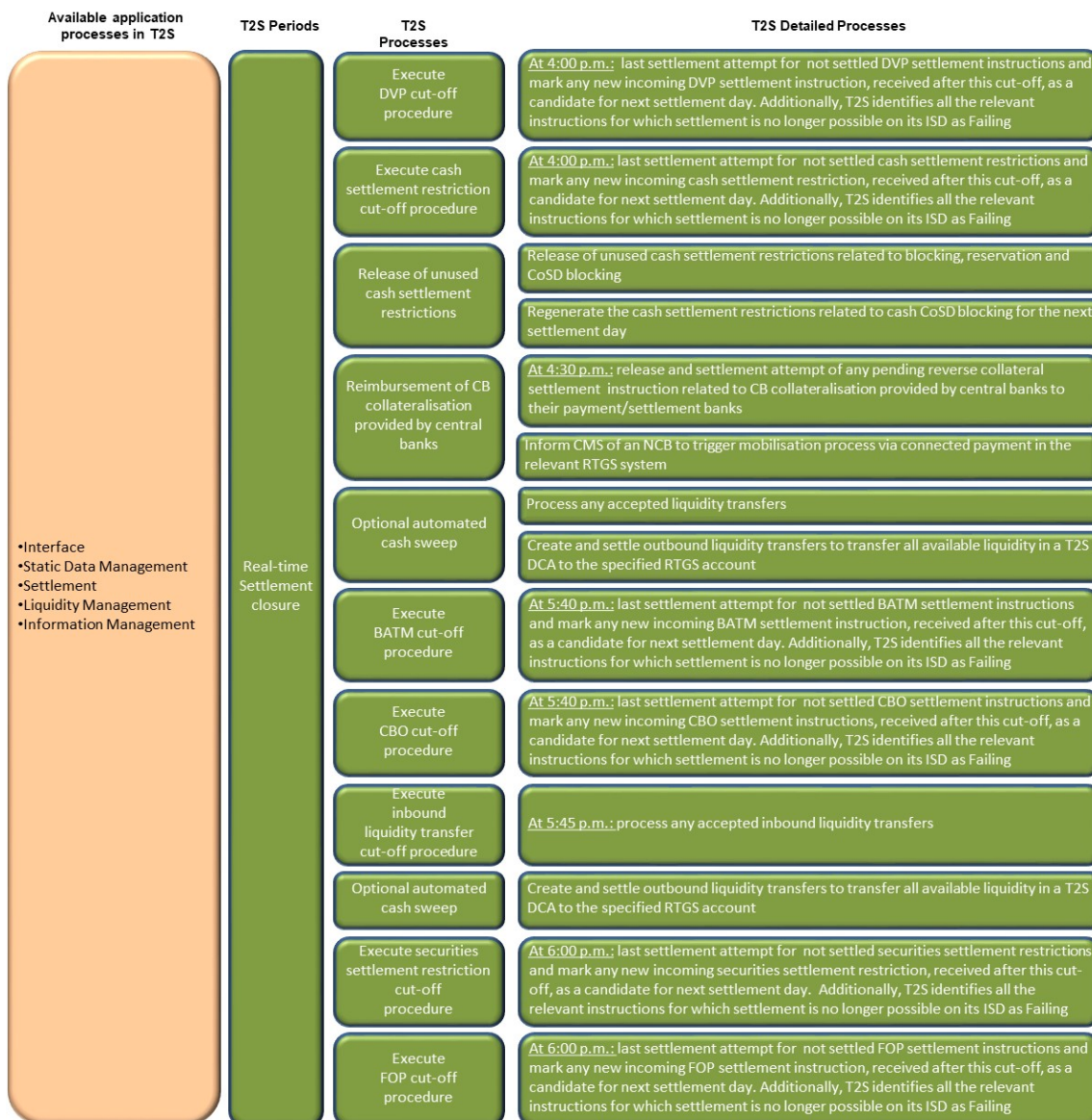


TABLE 103 - DEPENDENCIES DURING THE REAL-TIME SETTLEMENT CLOSURE

T2S DETAILED PRO-CESSES	TYPE OF DEPENDENCY	DESCRIPTION
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⁸ Please note that the described functionality won't be available before CSLD go-live.

⁹ Please note that the described functionality won't be available before CSLD go-live.

..		
Optional aAutomated cash sweep	Inbound liquidity transfer cut-off completed	This process starts after the completion of the execution of inbound liquidity transfer cut-off procedures.
..		

TABLE 104 - PROCESSES DURING THE REAL-TIME SETTLEMENT CLOSURE

T2S PROCESSES	DESCRIPTION OF THE PROCESSES
..	
Optional aAutomated cash sweep	<p>This period determines the start of the automated cash sweep.</p> <p>T2S creates cash sweep related liquidity transfers for the remaining cash of each T2S Dedicated cash account and central bank cash accounts to transfer it to the specified RTGS account. The automated cash sweep is completed when T2S detects no failed liquidity transfer or when the appropriate actions have been taken by the T2S operator.</p> <p>In parallel, T2S performs the following:</p> <ul style="list-style-type: none"> I Settlement of: <ul style="list-style-type: none"> – Settlement Instructions other than the ones for which cut-off is reached; – Securities Settlement Restrictions; I Execution of static data maintenance instructions; I Execution of Amendment Instructions, Cancellation Instructions and Hold/Release Instructions; I Generation of reports triggered by business or time events; I Responses to queries received via U2A or A2A.
..	

1.6.2.3 End of Day Cash Management¹⁰

1.6.2.3.1 Concept

End of day (EOD) Cash Management is the process of releasing unused cash restrictions, reimbursing pending intraday credits and transferring each balance deviating from zero at the end of a Settlement Day to a predefined RTGS account also referred to as “automated cash sweep” 317.

Starting with the go live of CLM T2S will not initiate an “automated cash sweep” for Euro denominated Dedicated Cash Accounts. T2S Users have the possibility to make use of a second optional cash sweep for their Euro denominated Dedicated Cash Accounts.

Footnote 317: Additionally the T2S user has the possibility to store standing orders in static data and opt for triggering optional cash sweep which will take place prior to the End of Day Cash Management “automated cash sweep”. For Euro denominated Dedicated Cash Accounts T2S Users have the possibility to make use of a second optional cash sweep. The set up and execution of the optional cash sweeps is not described in this chapter, but in section Liquidity Transfer [□ 570]

2.14.2.3 RTGS Status Management¹¹

[RTGS Rejection] In this case (implying that the liquidity transfer is not processed within the RTGS system) an “Information to T2S Actor (CB Info RTGS rejection/Invalid RTGS answer)” [□ 1091] Receipt [□ 1090] is sent to the respective CB indicating the error which occurred. Additionally an Internal Liquidity Transfer will be initiated to reverse the booking and credit the customers DCA which was debited in the underlying Outbound Liquidity Transfer.

2.17.2.3 Optional Cash Sweep¹²

¹⁰ Please note that the described functionality won't be available before CSLD go-live.

¹¹ Please note that the described functionality won't be available before CSLD go-live.

¹² Please note that the described functionality won't be available before CSLD go-live.

The T2S Actor has the possibility to opt for an optional cash sweep before the End of Day Liquidity Transfers takes place. This optional cash sweep is managed in the same way as the Standing and predefined Liquidity Transfers therefore no debit transfer is created in case a Central Bank account has a negative balance. Please refer Execution of Standing and Predefined Liquidity Transfer Orders from T2S to RTGS [□ 926]. For Euro denominated Dedicated Cash Accounts the T2S Actor has the possibility to make use of a second optional cash sweep shortly after the Liquidity Transfer Cut – off.

3.3.3.11 ModifyStandingOrderV06 (camt.024.001.06)

MESSAGE ITEM	DATA TYPE/CODE	BUSINESS RULES
Proprietary Document/ModifyStgOrder/NewStgOrder/ValSet/ExctnTp/Evt/Prtry	EventTypeCode_T2S_2	DCU4090 DCC4081 DCC4200 <u>DCC4210</u> DCU4081 DCU4200 <u>DCU4210</u> IIMP138

3.3.3.12 ReceiptV05 (camt.025.001.05) (page 1090)¹³

3.3.3.12.1 Overview and scope of the message¹⁴

This chapter illustrates the ReceiptV05 message.

The ReceiptV05 message is sent by T2S to a CB or directly connected T2S Party or an RTGS system (e.g. TARGET2) to confirm/reject the execution of a liquidity transfers from a T2S Dedicated Cash Account to a cash account in an RTGS system and vice versa, to inform about limit maintenance status /limit maintenance confirmation and standing/predefined order maintenance status and confirmation. It is also used to inform an RTGS system that all liquidity transfers in T2S are final.

This message is sent by T2S in the following message usages:

- Rejection;
- Accepted Liquidity Transfer;
- Information to T2S Actor – Liquidity transfer Status;
- Information to T2S Actor (CB Info RTGS rejection/Invalid RTGS answer);
- Information to RTGS system;
- Limit maintenance status and Limit maintenance confirmation;
- Liquidity transfers completed.

This message is received by T2S in the following case:

- RTGS Answer.

3.3.3.12.3 The message in business context (page 1091 ff.)¹⁵

In this example a Receipt is generated by T2S, e. g. as response to a Modify Limit message. The Limit request has been queued (LIMQ).

Message usage: Liquidity transfers completed

Specific message requirements

T2S sends an answer with the code “CMPT” (Completed) to an RTGS system after receiving a camt.019 with the code “STOP” (Stop sending liquidity transfers) to communicate that all liquidity transfers are final.

MESSAGE ITEM	DATA TYPE/ CODE	UTILISATION
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¹³ Please note that the described functionality won't be available before CSLD go-live.

¹⁴ Please note that the described functionality won't be available before CSLD go-live.

¹⁵ Please note that the described functionality won't be available before CSLD go-live.

<u>MessageIdentification</u> <u>Document/Rct/RctDtIs/OrgnlMsgId/Msgld</u>	<u>RestrictedFINXMax16Text</u>	<u>Msgld of the underlying</u> <u>camt.019</u>
<u>StatusCode</u> <u>Document/Rct/RctDtIs/ReqHdlg/StcCd</u>	<u>Max4AlphaNumericText</u>	<u>CMPT</u>

Message usage example: camt.025.001.05_T2S_LiquidityTransfersCompleted_Example.xml
In this example a Receipt with the code "CMPT" (Completed) is sent to the corresponding RTGS system.

3.3.3.16 BankToCustomerStatementV08 (camt.053.001.08) (page 1107 f.)¹⁶

3.3.3.16.1 Overview and scope of the message

This chapter illustrates the BankToCustomerStatementV08 message.

The *BankToCustomerStatementV08* message is sent by T2S to CBs or any parties authorised by them.

A statement of accounts is triggered by a business or time event and sent by T2S to transmit information on the cash balance of a CB or any of their participants.

BankToCustomerStatement includes the start-of-day balance, the end-of-day balance and as well cash movements which provide the identification of the underlying transactions. It contains information about the cash available on the different T2S dedicated cash accounts of NCB or payment bank.

The message is also used to send a General Ledger file containing a snapshot of the balances held in T2S DCAs at the EoD to an RTGS system.

In case the size of the message to be sent exceeds the maximum size of 32 MB the message will be split into several messages (Please see section Outbound traffic exceeding given size limitations [□ 993]).

This message is sent by T2S in the following message usages:

- Statement of accounts
- General Ledger file

These message usages are described in the section "The message in business context".

3.3.3.16.3 The message in business context ¹⁷

Message usage: Statement of accounts

Message example: camt.053.001.08_T2S_StatementOfAccounts_Example.xml

In this example Statement of Accounts is sent to a CB "NCBAAA20" for the T2S dedicated cash account "T2SDEDICATEDCASHACCOUNT3", Account owning party BIC is "PARTYA20". The Balance Date is: 2015-10- 13, the opening balance is: zero, Closing balance: 5000000.00 EUR.

Message usage: General Ledger file

Specific message requirements

T2S sends the General Ledger file to an RTGS system after receiving a camt.019 with the code "CHBD" (Change Business Day).

Message example: camt.053.001.06_T2S_GeneralLedgerFile_Example.xml

In this example a General Ledger file is sent to the corresponding RTGS system.

4.1 Index of Business Rules and Error Codes

BR NAME	DESCRIPTION	INBOUND MESSAGE	REPLY MESSAGE	CODE USE	REASON CODE	ERROR TEXT
DCC4210	<u>When performing a Liquidity Transfer Order Create request, Event Type Code 'OCS2' (second optional cash sweep) can only be linked to Cash Accounts in EUR.</u>	camt.024	camt.025		REJT	<u>OCS2 cannot be linked to a non-EUR account</u>

¹⁶ Please note that the described functionality won't be available before CSLD go-live.

¹⁷ Please note that the described functionality won't be available before CSLD go-live.

DCU4210	<u>When performing a Liquidity Transfer Order Update request, Event Type Code 'OCS2' (second optional cash sweep) can only be linked to Cash Accounts in EUR.</u>	camt.024	camt.025		REJT	<u>OCS2 cannot be linked to a non-EUR account</u>
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4.2.2 T2S Proprietary Codes¹⁸

EventTypeCode_T2S_2

CODE	NAME	DEFINITION
OCSW	End of day Liquidity Transfers - optional	End of day Liquidity Transfers – optional
OCS2	End of day Liquidity Transfers – optional2 EUR only	End of day Liquidity Transfers – optional2 EUR only

Impact on message documentation on MyStandards / Schemas:

camt.024:

Update of the datatype EventTypeCode_T2S_2 in /Document/ModfyStgOrdr/NewStgOrdrValSet/ExctnTp/Evt/Prtry with the new event name

camt.025

Add the following text to the T2S-Use of the element /Document/Rct/RctDtIs/ReqHdlg/StsCd:

“Communication with RTGS system status: 'CMPT': Answer to be send to an RTGS system after receiving a camt.019 with the code “STOP” (Stop sending liquidity transfers) to communicate that all liquidity transfers are final.”

camt.053

- /Document/BkToCstmrStmt/Stmt/Ntry/RvslInd: Unprune and set to optional. Add T2S-Use: “Reversal Indicator to indicate that the cash booking reverts a previous booking.”

The above-described Reversal Indicator will be included in the Statement of accounts after the implementation of this CR. The following changes on the camt.053 are done to enable the new message usage *General Ledger file*. They will not affect the existing message usage *Statement of accounts*.]

- /Document/BkToCstmrStmt/Stmt/Id: Add the following text to the existing T2S-Use: “In case of General Ledger filled with “T2S”.”
- /Document/BkToCstmrStmt/Stmt/CreDtTm: Change presence from mandatory to optional.
- /Document/BkToCstmrStmt/Stmt/FrToDt: Change presence from mandatory to optional.
- /Document/BkToCstmrStmt/Stmt/Acct/Ccy: Change presence from mandatory to optional.
- /Document/BkToCstmrStmt/Stmt/Acct/Ownr/CtryOfRes: Unprune and set to optional. Add T2S-Use: “Country code of cash account owner. Only used for General Ledger file.”
- /Document/BkToCstmrStmt/Stmt/Acct/Svcr: Change presence from mandatory to optional.
- /Document/BkToCstmrStmt/Stmt/TxsSummry: Unprune and set to optional.
- /Document/BkToCstmrStmt/Stmt/TxsSummry/TtlCdtNtries/Sum: Unprune and set to optional. Add T2S-Use: “Sum of credit entries for the reported cash account. Only used for General Ledger file.”
- /Document/BkToCstmrStmt/Stmt/TxsSummry/TtlDbtNtries/Sum: Unprune and set to optional. Add T2S-Use: “Sum of debit entries for the reported Cash Account. Only used for General Ledger file.”

camt.054:

Unprune the element /Document/BkToCstmrDbtCdtNtfctn/Ntfctn/Ntry/RvslInd (T2S-Use: “Reversal Indicator to indicate

¹⁸ Please note that the described functionality won't be available before CSLD go-live.

that the cash booking reverts a previous booking.”)

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2.4.1.4 Available Report - Statement of Accounts -Details Screen¹⁹

Postings	
Repetitive Block For Each Reported Dedicated Cash Account	
Date and Time of the Posting	Shows the date and the time when a booking took place. Displayed format is: YYYY-MM-DD hh:mm:ss
Posting Identifier	Shows the unique identification of a posting in T2S.
Debit Credit Indicator	Shows if an operation is a credit or a debit from the possible values: I + (for 'Credit') I - (for 'Debit')
<u>Reversal Indicator</u>	<u>Indicates whether or not the entry is the result of a reversal.</u>
...	...

UHB-Chapter 2.5.4.11 Standing/Predefined Liquidity Transfer Order – New/Edit Screen, page 835; 836²⁰

[...]

Event Type Code Select the type of event that triggers the liquidity transfer order from the drop-down menu.
If the time of the liquidity transfer order is specified, this field is not filled in.
References for error messages [2372]:
I DCC4081
I DCC4090
I DCC4200
I DCC4210
I DCU4081
I DCU4090
I DCU4010
I DCU4200
I DCU4210

[...]

¹⁹ Please note that the described functionality won't be available before CSLD go-live.

²⁰ Please note that the described functionality won't be available before CSLD go-live.

Submit This function enables you to create or edit a liquidity transfer order. Upon clicking on the submit button you will be asked to enter your PIN for digital signature purposes (NRO). With the entry of the PIN, T2S attaches a digital signature to the instruction entered by the T2S actor.

Next screen:
 I Standing/predefined liquidity transfer orders – search/
 list screen [820]
 References for error messages [2372]:
 I DCC4001
 I DCC4081
 I DCC4090
 I DCC4091
 I DCC4092
 I DCC4093
 I DCC4120
 I DCC4121
 I DCC4200
I DCC4210
 I DCU4001
 I DCU4003
 I DCU4010
 I DCU4030
 I DCU4081
 I DCU4090
 I DCU4091
 I DCU4092
 I DCU4093
 I DCU4130
 I DCU4140
 I DCU4141
 I DCC4800
 I DCU4800
 I DCU4200
I DCU4210

[...]

UHB-Chapter 2.5.4.15 T2S Dedicated Cash Accounts - Search/List Screen, page 856²¹

[...]

<u>Linked Account Type</u>	<u>Select the type of the linked account from the possible values:</u> <u>I All (default value)</u> <u>I Cash Account</u> <u>I External RTGS Account</u>
<u>External RTGS Linked Account Number</u>	Enter the number of the external RTGS account within the relevant RTGS system <u>or the number of the Main Cash Account</u> to which the T2S dedicated cash account is linked.

²¹ Please note that the described functionality won't be available before CSLD go-live.

Required format is: max. 35 characters (SWIFT-x)

References for error messages: [2415]

I DCD1085

I DCD1087

I DCD1207

[...]

UHB-Chapter 2.5.4.15 T2S Dedicated Cash Accounts - Search/List Screen, page 858²²

[...]

Linked Account Type Shows the type of the linked account from the possible values:

I Cash Account

I External RTGS Account

~~External RTGS~~
Linked Account
Number

Shows the account number of the external RTGS cash account within the relevant RTGS system or the account number of the Main Cash Account to which the T2S dedicated cash account is linked.

References for error messages: [2415]

I DCD1085

I DCD1087

I DCD1207

[...]

UHB-Chapter 2.5.4.15 T2S Dedicated Cash Accounts - Search/List Screen, page 861²³

[...]

Restore This function enables you to restore a previously deleted T2S dedicated cash account.

Next screen:

I T2S dedicated cash accounts – search/list screen

If the status of the selected T2S dedicated cash account is already set to 'Active' this function is not available.

References for error messages: [2415]

I DCD1001

I DCD1012

I DCD1013

I DCD1082

I DCD1083

I DCD1084

I DCD1085

I DCD1087

I DCD1207

I DCD1532

I DCD1555

[...]

²² Please note that the described functionality won't be available before CSLD go-live.

²³ Please note that the described functionality won't be available before CSLD go-live.

UHB-Chapter 2.5.4.16 T2S Dedicated Cash Account – Details Screen, page 865²⁴

[...]

Linked Account Type Shows the type of the linked account from the possible values:

I Cash Account

I External RTGS Account

External RTGS
Linked Account
Number

Shows the number of the external RTGS cash account within the relevant RTGS system or the account number of the Main Cash Account to which the T2S dedicated cash account is linked. References for error messages: [2538]

I DCD1085

I DCD1087

I DCD1207

[...]

UHB-Chapter 2.5.4.16 T2S Dedicated Cash Account - Details Screen, page 866²⁵

[...]

Restore This function enables you to restore a previously deleted T2S dedicated cash account.

Next screen:

I T2S dedicated cash accounts – search/list screen

If the status of the selected T2S dedicated cash account is already set to 'Active' this function is not available.

References for error messages: [2415]

I DCD1001

I DCD1012

I DCD1013

I DCD1082

I DCD1083

I DCD1084

I DCD1085

I DCD1087

I DCD1207

I DCD1532

I DCD1555

[...]

UHB-Chapter 2.5.4.17 T2S Dedicated Cash Account – New/Edit Screen, page 868; 869; 871²⁶

[...]

Opening Date* Enter the opening date of the T2S dedicated cash account or use the calendar icon.
Required format is: YYYY-MM-DD

²⁴ Please note that the described functionality won't be available before CSLD go-live.

²⁵ Please note that the described functionality won't be available before CSLD go-live.

²⁶ Please note that the described functionality won't be available before CSLD go-live.

The 'Opening Date' must be equal to or later than the current business date. [...]

References for error messages [2403]:

[I DCC1205](#)

[I DCC1400](#)

[I DCU1041](#)

[I DCU1208](#)

[I DCU1209](#)

[I DCU1213](#)

[I DCU1532](#)

The field is read-only if the opening date is in the past.

Closing Date

Enter the closing date of T2S dedicated cash account or use the calendar icon.

Required format is: YYYY-MM-DD

The 'Closing Date' must be equal to or later than the 'Opening Date' and the current business date.

References for error messages [2403]:

[I DCC1210](#)

[I DCC1532](#)

[I DCU1003](#)

[I DCC1400](#)

[I DCU1041](#)

[I DCU1208](#)

[I DCU1209](#)

[I DCU1210](#)

[I DCU1313](#)

[I DCU1532](#)

Linked Account Type

Shows the type of the linked account from one of the possible values:

[I Cash Account](#)

[I External RTGS Account](#)

This field is a select field in the new screen.

Currency

Select the currency of the T2S dedicated cash account from the drop-down menu.

References for error messages [2403]:

[I DCC1100](#)

[I DCC1207](#)

[I DCC1530](#)

[I DCC1531](#)

[I DCU1218](#)

~~External RTGS~~

Linked Account Number

You can choose to either enter the account number of the external RTGS cash account within the relevant RTGS system or the account number of the Main Cash Account to which the T2S dedicated cash account is linked or to select it from the suggested items in the drop-down menu.

References for error messages [2403]:

[I DCC1204](#)

[I DCC1206](#)

[I DCC1400](#)

I DCU1041
I DCU1208
 I DCU1206
 I DCU1207
 I DCC1207
I DCU1209

UHB-Chapter 2.5.4.17 T2S Dedicated Cash Account – New/Edit Screen, page 873-875²⁷

[...]

Submit

This function enables you to create or edit a T2S dedicated cash account.

Next screens:

I T2S dedicated cash account - details screen [862]

I CMB – new screen [788]

After a DCA creation request is completed, if the DCA has an account type equal to 'T2S Central Bank Account', a prompt is shown with the following request:

'Dedicated Cash Account Successfully created.

Do you want to configure the Credit Memorandum Balance now?'

If you click on the 'Yes' button, you are redirected to the CMB - new screen with the following prefilled items:

I T2S Dedicated Cash Account Number associated to the item;

I Primary CMB set to TRUE;

I MB BIC matching rule – wildcard pattern: BIC-8 of the new DCA – Party BIC;

I CMB BIC matching rule – inclusion mode: INCLUSIVE.

References for error messages [2403]:

I DCC1001

I DCC1024

I DCC1025

I DCC1100

I DCC1101

I DCC1103

I DCC1204

I DCC1205

I DCC1206

I DCC1207

I DCC1208

I DCC1209

I DCC1210

I DCC1212

I DCC1300

I DCC1400

I DCC1530

I DCC1531

I DCC1532

²⁷ Please note that the described functionality won't be available before CSLD go-live.

- I DCC1555
- I DCC1800
- I DCU1001
- I DCU1003
- I DCU1024
- I DCU1030
- I DCU1041
- I DCU1101
- I DCU1206
- I DCU1207
- I DCU1208
- I DCU1209
- I DCU1210
- I DCU1211
- I DCU1212
- I DCU1213
- I DCU1216
- I DCU1217
- I DCU1218
- I DCU1219
- I DCU1220
- I DCU1300
- I DCU1313
- I DCU1532
- I DCU1800

[...]

UHB-Chapter 6.4.2.178 Standing/Predefined Liquidity Transfer Order – New/Edit Screen, page 2372²⁸

[...]

<u>DCC4210</u>	<u>I Event Type Code field</u> <u>I Submit button</u>	<u>OCS2 cannot be linked to a non-EUR account</u>	<u>When performing a Liquidity Transfer Order Create request, Event Type Code 'OCS2' (second optional cash sweep) can only be linked to Cash Accounts in EUR.</u>
----------------	--	---	---

[...]

<u>DCU4210</u>	<u>I Event Type Code field</u> <u>I Submit button</u>	<u>OCS2 cannot be linked to a non-EUR account</u>	<u>When performing a Liquidity Transfer Order Update request, Event Type Code 'OCS2' (second optional cash sweep) can only be linked to Cash Accounts in EUR.</u>
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[...]

UHB-Chapter 6.4.2.191 T2S Dedicated Cash Account – Details Screen, page 2402²⁹

[...]

²⁸ Please note that the described functionality won't be available before CSLD go-live.

²⁹ Please note that the described functionality won't be available before CSLD go-live.

DCD1087	<u>I Linked Account Number field</u> <u>I Restore button</u>	<u>Unknown linked Cash Account</u>	<u>When performing a Cash Account restore request the Linked Account of the T2S Dedicated Cash Account, T2S Central Bank Account or T2S Dedicated Transit Account to be restored, if it refers to a Cash Account, must be an existing Cash Account (respectively a Main Cash Account, CLM Central Bank Account/Central Bank ECB Account or CLM Dedicated Transit Account for T2S) in CRDM.</u>
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[...]

UHB-Chapter 6.4.2.192 T2S Dedicated Cash Account – New/Edit Screen, page 2405; 2410³⁰

[...]

DCC1204	<u>I Linked Account Number field</u> <u>I Submit button</u>	<u>Invalid linked account</u>	<u>When performing a Cash Account create request to create a T2S Dedicated Cash Account, T2S Dedicated Transit Account or T2S Central Bank Account, if the Linked Account refers to a Cash Account it must be an existing and active Cash Account (respectively a Main Cash Account, CLM Dedicated Transit Account for T2S or CLM Central Bank Account/Central Bank ECB Account) that is open in the relevant validity period in CRDM.</u>
...			
DCC1207	<u>I RTGS Account field</u> <u>Linked Account Number field</u> <u>I Submit button</u> <u>I Currency field</u>	<u>Invalid Currency code</u>	<u>When performing a T2S dedicated cash account create request the external RTGS linked account, regardless of type, must have the same currency code of the T2S dedicated cash account.</u>
...			
DCC1400	<u>I Submit button</u>	<u>MCA must be set up over correct validity period</u>	<u>When performing a T2S Dedicated Cash Account Create request, if the Owner Party is also specified as a CLM Account Holder in CRDM, they must have at least one active and open MCA at all times.</u>

[...]

DCU1041	<u>I Opening Date field</u> <u>I Closing Date field</u> <u>I Linked Account Number field</u> <u>I Submit button</u>	<u>Opening/Closing Date not consistent with linked Cash Account</u>	<u>When performing a T2S Dedicated Cash Account update request, any update of the Opening Date and Closing Date must be consistent with the validity period of its Linked Account.</u>
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³⁰ Please note that the described functionality won't be available before CSLD go-live.

DCU1206	<u>I RTGS Account field</u> <u>Linked Account Number field</u> <u>I Submit button</u>	Invalid External RTGS Account	When performing a T2S dedicated cash account update request, the <u>linked account, when it refer to an external RTGS cash account, when specified, must refer to an existing and open instance in T2S.</u>
DCU1207	<u>I RTGS Account field</u> <u>Linked Account Number field</u> <u>I Submit button</u>	Invalid External RTGS Account	When performing a T2S dedicated cash account update request, <u>if the linked account references an the external RTGS account it must have the same currency code of the T2S dedicated cash account.</u>
DCU1208	<u>I Opening Date field</u> <u>I Closing Date field</u> <u>I Linked Account Number field</u> <u>I Submit button</u>	<u>Invalid linked account</u>	When performing a T2S Dedicated Cash Account update request, <u>if the Linked Account references another Cash Account it must have the same currency code of the Cash Account being updated.</u>
DCU1209	<u>I Opening Date field</u> <u>I Closing Date field</u> <u>I Linked Account Number field</u> <u>I Submit button</u>	<u>Invalid linked account</u>	When performing a Cash Account update request on the <u>Linked Account, Opening Date and/or Closing Date of a T2S Dedicated Cash Account, T2S Dedicated Transit Account or T2S Central Bank Account, and the Linked Account Type is "Cash Account", the Linked Account must refer to an existing Cash Account instance in CRDM with the correct type which is open throughout the specified validity period of the Cash Account being updated.</u> <u>For T2S DCA the Linked Account must be a Main Cash Account; for T2S Dedicated Transit Account it must be a CLM Dedicated Transit Account for T2S; for T2S Central Bank Account it must be a CLM Central Bank Account or Central Bank ECB Account. Account) that is open in the relevant validity period in CRDM.</u>

[...]

UHB-Chapter 6.4.2.193 T2S Dedicated Cash Account – Search/List Screen, page 2418³¹

[...]

DCD1087	<u>I Linked Account Number field</u> <u>I Restore button</u>	<u>Unknown linked Cash Account</u>	When performing a Cash Account restore request the <u>Linked Account of the T2S Dedicated Cash Account, T2S Central Bank Account or T2S Dedicated Transit Account to be restored, if it refers to a Cash Account, must be an existing Cash Account (respectively a Main Cash Account, CLM Central Bank Account/Central Bank ECB Account or CLM Dedicated Transit Account for T2S) in CRDM.</u>
---------	---	------------------------------------	--

³¹ Please note that the described functionality won't be available before CSLD go-live.

[...]

High level description of Impact:

Outcome/Decisions:

- * CRG on the 20 March 2019: The CRG agreed to launch the preliminary assessment of CR-709.
- * CSG on the 13 June 2019: The CSG proposed to reclassify CR-709 as necessary with the practical effect that their costs (estimate: 500-900kEUR) are borne by the T2-T2S Consolidation project instead of the T2S community.
- * MIB on the 18 June 2019: The MIB has approved to reclassify CR-709 as necessary as proposed by the CSG with the practical effect that their costs (estimate: 500-900kEUR) are borne by the T2-T2S Consolidation project instead of the T2S community.
- * CRG on the 4 July 2019: The CRG has agreed to recommend CR-709 for authorisation by the Steering Level.
- * CRG on the 8 October 2019: The CRG confirmed its earlier recommendation that the T2S Steering Level should authorise CR-709.
- * PMG on the 15 October 2019: The PMG proposed the allocation of the CR for R5.0.
- * AMI-SeCo on 16 October 2019: The AMI-SeCo agreed with the recommendation of the CRG.
- * 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 November 2019: The MIB authorised CR-709.
- * CRG on 22 January 2020: The CRG took note of the detailed assessment results of CR-709 and agreed to recommend its implementation 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 and identified an operational impact.
- * CSG on 5 February 2020: The CSG approved the inclusion of CR-709 in R5.0.
- * NECSG on 10 February 2020: The NECSG approved the inclusion of CR-709 in T2S R5.0.
- * MIB on 13 February 2020: The MIB approved the inclusion of CR-709 in the scope of R5.0 without discussion.
- * CRG on 26 May 2020: The CRG agreed to the proposed SDD updates and confirmed its earlier recommendation to the PMG to implement CR-709 in T2S R5.0.
- * OMG on 3 June 2021: the OMG confirmed the earlier operational assessment of CR-709

Preliminary assessment:

- **Impacted modules:** INTF, REM, LQMG, SETT

- **Findings:**

The creation of the GL file represents a new functionality to be introduced to T2S Report Management. This new functionality is subject to the CR detailed assessment where the analysis will reveal whether existing T2S Report Management functionalities can be re-used, at least to a certain extent, for the new GL functionality. In this respect a re-use of existing T2S functionalities could lead to a deviation from the CLM UDFS resulting in an editorial change. Otherwise, the financial impact will be very high, resulting in decreased implementation likelihood. The following aspects have to be considered:

- Currently Report Configurations in T2S can only be set up per party – in level 2 (CB) as system entity wide report covering the data scope of this CB only. Using this standard functionality would result in one GL file per CB and currency which is not the requirement from CLM (one GL file per service/component).
- Reports can only be sent to parties within the same system entity as the party owning the data. For reports, no specific routings can be set up, reports are always sent to the default route. Since GL files need to be sent to CLM the standard functionality can't be used.
- Also currency-specific routing is currently not possible in Report Management – but would be required in order to send GL files in currencies other than EUR to the respective addressee instead to CLM

These issues have to be analysed during the detailed assessment and could result in a high development impact in case the standard Report Management functionality can't be used for GL generation.

Additionally, the generation of a GL file covering ALL DCAs in T2S is surely severely impacting the performance of the already cramped EoD process and could lead to a significant delay in the overall process.

Concerning the capability of queries and reports (especially the Cash Forecasts) to cope with overnight balances on T2S DCAs: already with CR-0562 (Overnight liquidity balance on the T2S Dedicated Cash Account in case of contingency scenario) all relevant queries and reports were adapted to deliver correct results in case of overnight balances on T2S DCAs.

The CR PA, including the financial impact assessment, is based on the assumption that the existing operational day and reporting mechanisms of T2S can be re-used for triggering the creation of the General Ledger file.

The existing T2S communication and triggering of events shall be re-used to start the process of the generation of the general ledger file although CLM UDFS foresees a different procedure for triggering the General Ledger file which is derived from the interaction between TARGET2 and TIPS. Nevertheless, it seems possible to use the current mechanisms of T2S without having noticeable impact on the technical procedures of CLM.

If it is required to use the communication process described in CLM UDFS the financial impact assessment will increase from high to very high.

In addition, this would bear the risk of a blockage of T2S in case CLM could not send the triggering of the generation of the General Ledger file.

As requested, it has been analysed whether the existing liquidity transfer cut-off can be aligned to the other TARGET Services and thus moved to 18:00.

The analysis revealed that a postponement to 18:00 leads to various implications on the start and especially duration of the End of day phase and its reporting what could further lead to a delay of the business day change. Therefore the liquidity cut-off will remain at 17:45.

- **Release Allocation:**

Targeted T2S R5.0 has been confirmed, might be subject to change with result of CR Detailed Assessment

- **Open issues/ questions to be clarified by the originator:**

Open issues mentioned in the findings

EUROSYSTEM ANALYSIS – GENERAL INFORMATION

T2S Specific Components		Common Components (from T2S R6.0 Jun 2022)
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			
X	Outbound Information Management		
X	NCB Business Procedures		
	Liquidity Operations		
T2S Interface (as of June 2022 without Static Data Management, Communication for SDMG, Scheduler, Billing)			
X	Communication		
X	Outbound Processing		
X	Inbound Processing		
Static Data Management		Common Reference Data Management	
	Party data management		Party data management
	Securities data management		Securities data management
X	Cash account data management	X	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	
X	Statistical information		Short term statistical information
X	Legal archiving		Legal archiving
			Data Warehouse
Information (until June 2022 containing reference data)		CRDM business interface	
X	Report management		Report management
X	Query management		Query management
			Communication
		X	Outbound Processing
		X	Inbound Processing
Operational Services			
	Data Migration (T2S DMT)		Data Migration (CRDM DMT)
	Scheduling		Business Day Management
			Business Day Management business interface
X	Billing		Billing
			Billing business interface
	Operational Monitoring		Operational and Business Monitoring

Impact on major documentation		
Document	Chapter	Change
Impacted GFS chapter	3.2.1 General Introduction	Update of diagram
	3.2.2 Dynamic data managed by the domain	Add INTF OUP as receiving module
	3.2.4.2 Diagram of the module Update of diagram	Update of diagram
	3.2.4.3 Description of the functions of the	Update of the table

	<p>module 8 – Information Router 3.2.4.4 Description of the input/output of the module</p> <p>3.2.5.2 Diagram of the module</p> <p>3.2.5.3 Description of the functions of the module Outbound Processing Module – Application-to-Application mode 1 – Logging Outbound Business Data</p> <p>4 – Create Business Payload A2A</p> <p>3.6.1 General Introduction</p>	<p>Update of the table</p> <p>Update of diagram</p> <p>Introduce new flow</p> <p>Introduce new flow</p> <p>Insert an explanation that the automated cash sweep will not be used for Euro denominated accounts with the go-live of CLM and that for Euro denominated cash accounts a second optional cash sweep will be possible.</p>
Impacted UDFS chapter	<p>1.4.4.4.5 Real-time settlement closure schedule</p> <p>Diagram 65 Table 103 Table 104</p> <p>1.6.2.3 End of Day Cash Management 1.6.2.3.1 Concept</p> <p>2.14.2.3 RTGS Status Management</p> <p>2.17.2.3 Optional Cash Sweep</p> <p>3.3.3.12 ReceiptV04 (camt.025.001.04)</p> <p>3.3.3.16 BankToCustomerStatementV06 (camt.053.001.06)</p> <p>4.2.2 T2S Proprietary Codes</p>	<p>Specify optional nature of automated cash sweep within the diagram and tables.</p> <p>Insert an explanation that the automated cash sweep will not be used for Euro denominated accounts with the go-live of CLM.</p> <p>Insert information that upon reception of an RTGS rejection an internal liquidity transfer for rebooking will be triggered</p> <p>Provide a short paragraph that for Euro denominated cash accounts a second optional cash sweep will be possible.</p> <p>Introduction of a new message usage with Code “CMPT” (Completed)</p> <p>Introduction of a new message usage for the General Ledger file</p> <p>Adding the new event name to the datatype EventTypeIdCode_T2S_2</p>
Additional deliveries for Message Specification	<p>Message documentation for camt.024</p> <p>Message documentation for camt.025</p> <p>Message documentation for camt.053</p> <p>Message documentation for camt.054</p>	<p>Update of the datatype EventTypeIdCode_T2S_2 Upload to MyStandards</p> <p>Creation of an example for the new message usage Upload to MyStandards</p> <p>Update of the schema and creation of an example for the new message usage Update of existing example Upload to MyStandards</p> <p>Update of the schema Upload to MyStandards</p>

	<p>Message documentation for camt.024 (CSLD)</p> <p>Message documentation for camt.019</p> <p>Message documentation for camt.019 (CSLD/BDM)</p> <p>Message documentation for camt.019 (CSLD/T2)</p>	<p>Update of the datatype EventTypeCode_T2S_2 Upload to MyStandards</p> <p>Update of the message specification to cover the interaction between CLM and T2S (new usage as inbound message and new codes)</p> <p>Alignment of message specification to the T2S changes</p> <p>Alignment of message specification to the T2S changes</p>
UHB	<p>2.5.4.11 Standing/Predefined Liquidity Transfer Order – New/Edit Screen</p> <p>2.5.4.15 T2S Dedicated Cash Accounts – Search/List screen</p> <p>2.5.4.16 T2S Dedicated Cash Account – Details screen</p> <p>2.5.4.17 T2S Dedicated Cash Account – New/Edit screen</p> <p>2.4.1.4 Available Report - Statement of Accounts -Details Screen</p> <p>6.4.2.178 Standing/Predefined Liquidity Transfer Order – New/Edit Screen</p> <p>6.4.2.191 T2S Dedicated Cash Account – Details Screen</p> <p>6.4.2.192 T2S Dedicated Cash Account – New/Edit Screen</p> <p>6.4.2.193 T2S Dedicated Cash Account – Search List Screen</p>	<p>Screens should be amended in order to be able to visualize Main Cash Accounts (MCA) linked to T2S Dedicated Cash Accounts. An additional attribute (Linked account type) will allow to distinguish between accounts linked to an External RTGS Account and to an MCA. Update the description</p> <p>Alignment of References for Error Messages for new business rules.</p>

Links with other requests

Links	Reference	Title
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OVERVIEW OF THE IMPACT OF THE REQUEST ON THE T2S SYSTEM AND ON THE PROJECT

Summary of functional, development, infrastructure and migration impacts

The mandatory cash sweep for EUR will become obsolete. With the introduction of this change, the event for triggering the mandatory cash sweep for Euro (GOLT EUR) should not be scheduled anymore. Thus, the mandatory cash sweep for that currency is prevented.

A new event to configure Standing/Predefined Orders for will be created which is only usable for EUR denominated accounts. The event will be similar to the OCSW and should replace the GOLT (EUR) in the daily schedule. This new Optional Cash sweep will also be linked to a Liquidity Transfer check (CLTS) as currently done for the mandatory cash sweep. In case CLTS detects not executed Liquidity Transfers the Business Day is stopped as today. The foreseen name for this new event is OCS2 and will only be usable for standing/predefined orders debiting EURO denominated accounts.

Liquidity Management will receive a camt.019 through the INTF which will initiate a check in LQMG if all Liquidity Transfers have a final status. As soon as all Liquidity Transfers are final LQMG will answer the camt.019 request with a camt.025 message which will be routed through the INTF towards CLM.

Liquidity Management will introduce an automatic rebooking mechanism. Upon reception of an RTGS rejection Liquidity Management will initiate an internal Liquidity Transfer debiting the RTGS Dedicated Transit Account and crediting the DCA of the initially attempted outbound Liquidity Transfer. These rebooked LTs also need to be checked for final settlement status in order to proceed with the sending of the camt.025 to CLM. The BankToCustomerStatement (camt.053) and BankToCustomerDebitCreditNotification (camt.054) will be enriched with a new optional field indicating that an entry is the result of a reversal.

The general ledger file creation and the transmission related to it should not be subject to pricing.

The T2S Dedicated Cash Account List Query and T2S Dedicated Cash Account Reference Data Query will be enhanced to show the MCA numbers (if DCA is linked to an MCA) and the Linked Account Type attribute which shows, whether the DCA is linked to an External RTGS account or to an MCA.

For Statement of Accounts Report (camt.053) optional field indicating that an entry is the result of a reversal will be

introduced.

The General Ledger file will **not** be produced by Report Management, instead, a new process will be implemented. Upon receipt of a new event during EoD the General ledger file will be generated with information about all balances held on all T2S Dedicated Cash Accounts in T2S. Requirements and format description can be found in CLM UDFS (currently finalized version 2.0) chapters 9.4.2 and 9.4.3 as well as in the message description for camt.053 in chapter 14.3.14 and linked usage guideline in MyStandards in collection "CLM_GENERIC_GeneralLedger" for camt.053.

The produced General ledger file (one camt.053 message containing all T2S DCAs) will be sent to CLM.

The General Ledger File will be generated in SETT module and stored in INTF. The General Ledger File will not be accessible via GUI and can't be queried using the admi.005 message as it is neither generated nor stored in REM.

Introduction of the communication process between T2S and CLM. Therefore, one new flow between INTF and LQMG and one new flow between INTF INP and INTF OUP for incoming camt.019 will be introduced.

The first camt.019 will be sent to LQMG and LQMG will answer with a camt.025. In this respect, a new inbound and outbound flow needs to be implemented.

The second camt.019 will trigger the sending of the general ledger file to CLM. Therefore, a new flow will be handed over from the INT INP to the INTF OUP in relation to the second inbound camt.019

A new check needs to be implemented to guarantee that the camt.053 is only sent out when the camt.019 is available. In case the camt.019 will arrive later as the camt.053 flow the camt.053 flow must be buffered.

It will be possible to configure T2S Dedicated Cash Accounts through the CRDM interface to link them to CLM Main Cash Accounts (instead of External RTGS Accounts) and to set up minimum reserve configurations. In line with this, the T2S SDMG GUI will be amended to allow visualizing the account numbers of these MCAs.

A new business rule on Liquidity Transfer Orders will control the assignment of the second optional cash sweep event only to euro accounts.

The camt.019 message specifications will be updated to handle the interaction between T2 and T2S for the generation and sending of the General Ledger file.

The general ledger are not subject to billing. STSI consider any communication (file or message) sent from Interface to parties different from T2S Operator in all the invoices. All the information sent internally among TARGET Services and common component must not be passed to STSI as billable information, except those currently billed, e.g. camt.050 from CLM or sese.023 from local CMS and later ECMS.

The assumption is that the files and messages exchanged between T2S and CLM, mentioned in this CR, are not passed as billable items from INTF to STSI.

Since the CR will be released with Release 5.0 while the Go-live of CSLD will be with a later T2S release, for the interim period it will be ensured that:

- The mandatory Cash Sweep will still be applied in PROD
- The General Ledger file will not be produced and sent out in PROD.

Main cost drivers:

- Implementation of completely new process for the creation of the general ledger file and the mapping in the camt.053 ISO report and the communication process between T2S and CLM via camt.019 and camt.025/camt.053.
- Necessary updates of the software regarding the optional cash sweep for EUR and the differentiation between mandatory cash sweep for non-EUR.
- Interface impact, implementation of new business rule and camt.019 adaptation.

Summary of project risk

To minimise the risk for the CSLD go-live 4CB recommend the execution of user tests with T2 in the timeframe of T2S R5.0.

Security analysis

No adverse effect has been identified during security assessment.