



EUROPEAN CENTRAL BANK

EUROSYSTEM

<b>General Information (Origin of Request)</b>		
<input type="checkbox"/> User Requirements (URD)		
<input checked="" type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
<b>Request raised by:</b> Eurosystem	<b>Institute:</b> 4CB	<b>Date raised:</b> 28/02/2019
<b>Request title:</b> Decommissioning LTSI, scope and definition of queries and reports and access specifications to Data Warehouse functionalities		<b>Request ref. no:</b> T2S 0699 SYS
<b>Request type:</b> Common	<b>Classification:</b> Maintenance	<b>Urgency:</b> Normal
<b>1. Legal/business importance parameter:</b> Medium		<b>2. Market implementation efforts parameter:</b> Low
<b>3. Operational/Technical risk parameter:</b> Medium		<b>4. Financial impact parameter:</b> No financial impact
<b>Requestor Category:</b> Eurosystem		<b>Status:</b> 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)
					<b>T2S&gt;ESMIG</b>	
ESMIG (Connectivity)					<a href="#">CR-701</a>	
CRDM (Reference data)	<a href="#">CR-719</a>	<a href="#">CR-721</a>	<a href="#">CR-704</a> <a href="#">CR-696</a>		<a href="#">CR-705</a>	
BILL (Billing)				<a href="#">CR-697</a>	<a href="#">CR-706</a>	
BDM (Business day)		<a href="#">CR-698</a>			<a href="#">CR-707</a>	
DWH (Historical data)					<a href="#">CR-699</a>	
LEA (Legal archiving)					<a href="#">CR-700</a>	
T2-T2S communication		<a href="#">CR-702 (ICL)</a> <a href="#">CR-703 (camt.050)</a>	<a href="#">CR-729</a>			<a href="#">CR-734</a>
Liquidity management			<a href="#">CR-708 (Outbound LT)</a> <a href="#">CR-709 (Cash sweep)</a>			
Maintenance window			<a href="#">CR-710</a>			

**Reason for change and expected benefits/business motivation:**

Within the scope of the T2/T2S consolidation as one of the Common Components a consolidated data warehouse is in development.

The consolidated data warehouse will combine historical data deriving from different T2 components (CLM and RTGS) and T2S for reporting purposes. In order not to disrupt data analysis after the migration from TARGET2 to new T2 services historical data from already existing data warehouses (LTSI for T2S, CRSS for TARGET2) will be migrated. Referring to CRG telco 07/05/2018 (written procedure) and 30/05/2018 a list of 22 predefined DWH queries and reports from the former LTSI report pool is agreed:

- BSIQ.00 - Individual Settlement detailed query
- BSIQ.01 - Multi-criteria search of a set of Settlement Instructions
- BSIQ.02 - Individual Restriction detailed Query
- BSIQ.03 - Multi-criteria search of a set of Settlement Restrictions
- BSIQ.04 - Multi-criteria search of a set of Liquidity Transfers
- BSIQ.05 - Multi-criteria search of a set of Business Cancellations
- BSIQ.06 - Multi-criteria search of a set of Amendment Instructions
- BSIQ.07 - Multi-criteria search of a set of Hold and Release Instructions

BSIR.00 - T2SDCA - Finalised Matched Instructions  
BSIR.01 - Securities Account: Finalised Matched Instructions  
BSIR.02 - T2SDCA: Detailed Finalised Matched Settlement Instructions  
BSIR.03 - Securities Account: Detailed Finalised Matched Settlement Instructions  
BSIR.04 - T2SDCA: Follow-up by time slot of Settlement Activity  
BSIR.05 - T2SDCA: Comparison of Settlement activity between two time periods  
COLL.01 - Securities Accounts: Follow-up by time slot of Settled Collateralisation Instructions  
CMBR.00 - Journaling of Limit Utilisations of Primary CMB  
CPST.00 - T2SDCA: Follow-up by time slot of Cash Postings  
LIQU.00 - Liquidity Transfers  
REAL.00 - Detailed Realignment and Other Technical Instructions  
REST.00 - Detailed Cash Restrictions  
REST.01 - Detailed Securities Restrictions  
SPST.00 - Securities Account: Follow-up by time schedule of Securities Postings

These will be available in the consolidated data warehouse after Go Live of the consolidation project.

Following a CRG written procedure (refer to CRG telco on 30 May 2018), 4CB confirmed the list of queries that will be migrated to the consolidated warehouse and provided feedback that pre-formatted operational reports would not be affected by the decommissioning of the T2S Long Term Statistical Information (LTSI) module.

A user requirement for the consolidated data warehouse is to provide access to the data at the next business day (business day +1). LTSI provides access to the data after 3 calendar months. Details about the current features of LTSI can be found in the T2S General Functional Specifications (v6.0 pp.532-ff)

**Description of requested change:**

Once the consolidated data warehouse will be able to provide all historical data from T2S, the LTSI will be decommissioned. Therefore all references to LTSI will be removed from all scope defining documents. Additionally respective references to the consolidated DWH will be added to these documents. A new chapter has to be introduced to the UDFS to inform about the data warehouse and its features.

The future queries and reports should be accessible via U2A for Central Banks and CSDs in T2S. The user groups will be divided into normal and advanced users.

The data from T2S is available and accessible for the user at the next business day (business day +1). The choice of queries and reports will be based on the fact that in the future data warehouse, advanced users will be able to use predefined reports, adapt predefined reports and create additional reports. Normal users will be able to request and schedule predefined queries and reports. Predefined queries and reports can be customised with a fixed number of parameters, whereupon the parameter values are selectable via DWH GUI.

**Submitted annexes / related documents:**

For decommissioning of LTSI the following scope defining documents were identified as impacted (non-exhaustive list):

- UDFS chapters 1.1.5.5 and 1.6.5.5
- UHB chapter 5 (see T2S\_0699\_SYS\_Annex\_2\_UHB.docx)
- GFS chapter 3.7 (please note that this chapter is referring to LTSI, STSI and LEA (Legal Archiving))

**Proposed wording for the Change request:**

## UDFS

## Chapter 1.1.5.5

~~Note: the archiving management application process deals also with history management. This process stores all non-messages related information, for a period of 10 years, in an online long term statistical repository, accessible by all authorized T2S actors after 90 days.~~

## Chapter 1.6.5.5

~~Note: the archiving management application process deals also with history management. This process stores all non-messages related information, for a period of 10 years, in an online long term statistical repository, accessible by all authorized T2S actors after 90 days.~~

## GFS

## Chapter 2.3.6.1

[...] In the present document, ~~both one scope (short term) are~~ is covered by the single Statistical Information module.  
[...]

## Chapter 3.7.1

Static and transactional data ~~older than three months as of the last business day~~ with data revision and history stand in the long-term statistical data store (LTSI) of the Statistical Information module DWH.

## Chapter 3.7.2.2

[...] It stores information on accounts (including position changes and event information), on instructions and on queries and reports (including volumes generated)

Add footnote at the end of the sentence: The latter is not applicable for DWH

These statistics are based on a “long term” repository storing detailed business data with their final status. These statistics are available on T2S static and transactional data ~~older than three months as of the last business day~~, and for a 10-year period, which shall be configurable. The ~~Long Term Statistical Information repository (LTSI) DWH~~ stores settlements having reached the “final” status (e.g. for settlements: only for “cancelled” or “settled” statuses), based on a settlement-related archive. It gives users friendly access ~~and provides a correct answering time for a multi-billion settlement based unique database~~

[...] In the present document, ~~both one scopes (short term and long term) are~~ is covered by the single Statistical Information module.

[...] ~~Both~~ The “short term” and the “long term” data repository ~~ies are~~ is based on the following components:

Chapter 3.7.2.3

The Extraction, Transformation and Loading function is triggered at the end of day, by an EOD Statistical Information event, to load on a daily basis the relevant data into the “short term” ~~and “long term”~~ repositories.

Chapter 3.7.2.5

DATA	DATA ENTITIES	ACCESS MODE	COMMENT
<b>STATIC DATA</b>			
Static Data	All	Read	Data extracted from all domains of T2S for statistical purposes
Long-term Data	To be defined	Read/Write	History of static data older than three months.
<b>DYNAMIC DATA</b>			
Dynamic Data	All	Read	Data extracted from all domains of T2S for statistical purposes
Short-term Data	To be defined	Read/Write	Statistical data up to three months.
Long-term Data	To be defined	Read/Write	Statistical data older than three months.

UHB

The updates to the UHB are described in *T2S\_0699\_SYS\_Annex\_2\_UHB.docx*

**High level description of Impact:**

**Outcome/Decisions:**

- \* CRG on the 20 March 2019: The CRG has agreed to launch the preliminary assessment of CR-699.
- \* CRG on the 8 October 2019: The CRG agreed to recommend the updated CR-699 for authorisation by the T2S Steering Level.
- \* AMI-SeCo on 16 October 2019: The AMI-SeCo agreed with the recommendation of the CRG.
- \* MIB on 8 November 2019: The MIB authorised the CR.
- \* PMG on 27 March 2020: The PMG proposed to allocate this CR to T2S release 6.0.
- \* CRG on 10 November 2020: the CRG agreed to recommend the inclusion of CR-699 in R6.0.
- \* OMG on 11 November 2020: the OMG identified an operational impact of CR-699 in R6.0.
- \* PMG on 12 November 2020: the PMG agreed to the inclusion of CR-699 in the scope of R6.0.
- \* CSG on 27 November 2020: the CSG approved the inclusion of CR-699 in R6.0.
- \* NECSG on 27 November 2020: the NECSG approved the inclusion of CR-699 in R6.0.
- \* MIB on 21 December 2020: the MIB approved the inclusion of CR-699 in the scope of R6.0.
- \* PMG on 19 January 2022: the PMG agreed to recommend de-scoping CR-699 from R6.0.
- \* MIB on 02 February 2022: the MIB approved the de-scoping of CR-699 from R6.0, subject to recommendation by CSG and NECSG
- \* PMG on 19 January 2022: The PMG proposed to allocate this CR to T2S release 6.2.
- \* CRG on 28 February 2022: the CRG agreed to recommend the inclusion of CR-699 in R6.2
- \* OMG on 01 March 2022: the OMG identified no operational impact of CR-699 in R6.2.
- \* PMG on 01 March 2022: the PMG agreed to the inclusion of CR-699 in the scope of R6.2.
- \* CSG on 02 March 2022: the CSG approved the de-scoping of CR-699 from R6.0 and its inclusion in R6.2.
- \* NECSG on 02 March 2022: the NECSG approved the de-scoping of CR-699 from R6.0 and its inclusion in R6.2.
- \* MIB on 14 March 2022: the MIB approved the inclusion of CR-699 in the scope of R6.2.
- \* CRG on 29 August 2022: the CRG agreed to recommend the de-scoping of CR-699 from R6.2 and its inclusion in R2023.JUN.
- \* PMG on 31 August 2022: the PMG agreed to the de-scoping of CR-699 from R6.2 and its inclusion in R2023.JUN.
- \* CSG on 07 September 2022: the CSG approved the de-scoping of CR-699 from R6.2 and its inclusion in R2023.JUN.
- \* NECSG on 07 September 2022: the NECSG approved the de-scoping of CR-699 from R6.2 and its inclusion in R2023.JUN.
- \* MIB on 16 September 2022: the MIB approved the de-scoping of CR-699 from R6.2 and its inclusion in R2023.JUN.
- \* PMG on 26 May 2023: the PMG agreed to deploy CR-699 in a deactivated mode within R2023.JUN.
- \* CSG on 1 June 2023: the CSG approved the deployment of CR-699 in a deactivated mode within R2023.JUN.
- \* NECSG on 1 June 2023: the NECSG approved the deployment of CR-699 in a deactivated mode within R2023.JUN.
- \* MIB on 31 May 2023: the MIB approved the deployment of CR-699 in a deactivated mode within R2023.JUN.

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**Preliminary Assessment:**

- **Impacted modules: LTSI, DWH (from June 2022), SETT**
- **Release Allocation:** Targeted T2S R6.0 has been confirmed , might be subject to change with result of CR Detailed Assessment
- **Findings:**
  - Migration to the consolidated DWH will be executed in a two-step approach for the decommissioning of LTSI - for CSLD in November 2021, for T2S in June 2022 with T2S Release 6.0. Several L2 parties have already pointed out that availability of T2S data in the consolidated DWH should also be D+1 as for the data of all other components instead of 3 months in order for inter-component reports to deliver correct results.

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

OMEGA Templates		
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Impact on major documentation		
Document	Chapter	Change
Impacted GFS chapter	Section 2.3.6.1 Section 3.7.1 Section 3.7.2.2 Section 3.7.2.3 Section 3.7.2.5. Section 3.7.5.	Removal of all the references related to: - the Long Term Statistical Information repository (LTSI) - the time after which the LTSI data can be accessed (after 90 days or 3 calendar months)
Impacted UDFS chapter	Section 1.1.5.5 Section 1.6.5.5	Remove the reference to the "online long term statistical repository, accessible by all authorized T2S actors after 90 days"
Additional deliveries for Message Specification		
UHB	Section 1.1.2  Section 5  Section 6.3.1  Section 6.3.5  From section 6.3.5.1 to section 6.3.5.56  Section 6.4.1  Section 6.4.4	Remove Section Part 5 and the Annex C bullet point. - Remove term "LTSI" in the bullet point "Annex D"  Remove the whole section  Remove the reference to LTSI screens  Remove the References to LTSI users and privileges  Remove the first row of the table ("LTSI super user")  Remove the terms referring to the LTSI screens  Remove the whole section and sub-sections

Links with other requests			
Links	Reference	Title	

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

**Summary of functional, development, infrastructure and migration impacts**

**DWH:**

LTSI will be decommissioned in June 2022 and the consolidated DWH will take over. Therefore the Interfaces between the T2S modules and LTSI will be decommissioned and new Interfaces with consolidated DWH must be established.

22 predefined reports will be implemented in DWH.

The DWH migration planning will be provided on 1<sup>st</sup> December 2020.

**Impact on other TARGET Services and projects**

No impact om ECMS. No impact on TIPS. No impact on CSLD.
<b>Summary of project risk</b>
<b>Security analysis</b>
No adverse effect has been identified during security assessment.