



EUROPEAN CENTRAL BANK

EUROSYSTEM

General Information (Origin of Request)		
<input type="checkbox"/> User Requirements (URD) <input checked="" type="checkbox"/> Other User Functional or Technical Documentation (SYS)		
Request raised by: Eurosystem	Institute: 4CB	Date raised: 28/02/2019
Request title: Decommissioning LTSI, scope and definition of queries and reports and access specifications to Data Warehouse functionalities		Request ref. no: T2S 0699 SYS
Request type: Common	Classification: Maintenance	Urgency: Normal
1. Legal/business importance parameter: Medium		2. Market implementation efforts parameter: Low
3. Operational/Technical risk parameter: Medium		4. Financial impact parameter: No financial impact
Requestor Category: Eurosystem		Status: Allocated to a release

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:

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 the T2 Services and 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 all participants of T2 (CLM and RTGS) and T2S which means CBs and all other participants consisting of CSDs, Ancillary Systems, CSD Participants and Payment Banks. The user groups will be divided into normal and advanced users.

The data from T2 (CLM and RTGS) and 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
- GFS chapter 3.7 (please note that this chapter is referring to LTSI, STSI and LEA (Legal Archiving))

Proposed wording for the Change request:

Update of the respective chapters of the impacted documentation will be provided during implementation phase (1 March 2021).

UDFS

Chapter 1.1.5.5

~~Nota: 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

~~Nota: 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 In-formation 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
STATIC DATA			
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.
DYNAMIC DATA			
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.

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.

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
LCMM	
Instructions validation	
Status management	
Instruction matching	
Instructions maintenance	
Penalty Mechanism	
Settlement	
Standardisation and preparation to settlement	
Night-time Settlement	
Daytime Recycling and optimisation	
Daytime Validation, provisioning & booking	
Auto-collateralisation	
Liquidity Management	
Outbound Information Management	
NCB Business Procedures	
Liquidity Operations	
T2S Interface (as of June 2022 without Static Data Management, Communication for SDMG, Scheduler,	

<i>Billing</i>)			
	Communication		
	Outbound Processing		
	Inbound Processing		
Static Data Management (until June 2022)		Common Reference Data Management (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
Statistics and archive		Statistics and archive	
	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)
Information (until June 2022 containing reference data)		CRDM business interface (from R6.0 June 2022)	
	Report management		Report management
	Query management		Query management
			Communication
			Outbound Processing
			Inbound Processing
Operational Services			
	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		

Impact on major documentation		
Document	Chapter	Change
Impacted GFS chapter	Section 3.7.1 Section 3.7.2.2 Section 3.7.2.5. Section 3.7.5. The remaining chapters will be added during the implementation phase	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 The remaining chapters will be added during the implementation phase	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	Remove Section Part 5 and the Annex C bullet point. - Remove term "LTSI" in the bullet point "Annex D"
	Section 5	Remove the whole section
	Section 6.3.1	Remove the reference to LTSI screens
	Section 6.3.5	Remove the References to LTSI users and privileges
	From section 6.3.5.1 to section 6.3.5.56	Remove the first row of the table ("LTSI super user")
	Section 6.4.1	Remove the terms referring to the LTSI screens
	Section 6.4.4	Remove the whole section and sub-sections
	Will be added during the implementation phase	
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		
<p>DWH:</p> <p>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.</p> <p>22 predefined reports will be implemented in DWH.</p> <p>The DWH migration planning will be provided on 1st December 2020. The outstanding wording proposals for the SDD will be provided on 1st March 2021.</p>		
Impact on other TARGET Services and projects		
<p>No impact on ECMS. No impact on TIPS. No impact on CSLD.</p>		
Summary of project risk		
Security analysis		
No adverse effect has been identified during security assessment.		