

EUROSYSTEM



General Information (Origin of Request)         □ User Requirements (URD)         ⊠ Other User Functional or Technical Documentation (SYS)				
Request raised by: 4CB	Request raised by: 4CB         Institute:         Date raised: 24/04/2017			
Request title: Long Term Statistical Information improvements and performance optimisation (Phase 1) Request ref. no: T2S-0660-SYS				
Request type: Common		Urgency: Normal		
1. Legal/business importance parameter:	High	2. Market imp	plementation efforts parameter: Low	
3. Operational/Technical risk parameter: Low		4. Financial impact parameter: No cost impact		
Requestor Category: 4CB		Status: Autho	prised at steering level	

# Reason for change and expected benefits/business motivation:

Since the first migration wave, users may encounter different types of issues related to performance when using the predefined queries and reports available for end users on the Long Term Statistical Information (LTSI) module.

When refreshing queries or reports the execution times can exceed those defined within the SLA and the results can take time to be displayed.

When launching the reports, the lists of values prompted for selection cannot be refreshed entirely. Indeed, the prompts appear as a list of business values which are not displayed in their entirety. As a result the user is not able to select the value he is looking for.

In addition, this list of values can take time to be refreshed during the selection phase prior to accessing the results. This can be adapted to improve the performance of the presentation of the list of values.

Moreover, queries or reports can retrieve very large numbers of records. These may result in very large reports that may contain hundreds of pages. This is also the case for advanced users creating new reports using the "free queries" service. This can lead to the generation of big queries resulting in performance issues on the business database and SAP BI server (the reporting platform).

The following improvements are proposed, focused on the reporting aspects (LTSI predefined queries and reports) in order to:

- Secure and stabilise the LTSI platform
- Enhance the user experience of the LTSI offering/services
- Improve the performance and reduce the delays as encountered today

The changes needed do not impact data extraction, data feeding or data staging which will remain unchanged.

	INTF	LQMG LCMM		SCHD
Lor	ng Term Statistica	al Information	/	
D	ata Groups			
	Settlement Instructions	Cash Management Balance and postings	Securities Management Positions and Postings	Settlement Restrictions
	Realignments and	Limits and CMB		Cash and Securities
0	Collateralization	Li	iquidity	
uerie	es and reports		fined Reports	Free queries
	Predefined Queries splay detailed data	Aggregate	d at day level	rice queries

#### Description of requested change:

The requested changes on the LTSI reporting are split into two distinct change requests. This allows, in a first phase, to respond to issues experienced by end users preventing them from fully exploiting the LTSI reporting service. The second phase concerns improvements to enhance the user experience which are of higher complexity and require a more substantial implementation effort.

This change request represents the first phase of the changes.

In order to reduce performance issues, improve the user experience and the service offered to the end users the following types of improvements are proposed:

- **Report results**: Performance improvements will ensure that results are delivered in a timely manner allowing for the full exploitation of the resulting data
- Simplification of report prompts: Allow users to find the proper full business words (i.e. business values). Current prompts ask for technical identifier values that are not known by the users. Future prompts will be based on business values known by the users (e.g. Securities Technical Identifier -> ISIN). Includes the replacement of the related technical identifiers by business values within the corresponding report outputs.
- **Report content**: An alignment of wording used throughout the queries and reports
- Report list review: Alignment of UHB and LTSI Access Right Management

The table below describes the changes proposed in phase 1 as described in this 1<sup>st</sup> CR.

ltem	Improvement Type	Description	Predefined Queries	Predefined Reports
1	Reports results	<ul> <li>Change report design by transposing row and columns to allow better use, data export (Excel, csv).</li> </ul>	x	

2	Reports prompts simplification	<ul> <li>Replace technical identifier by business code/reference for predefined queries and reports within report prompts and resulting output.</li> <li>When list of value are used, modify the prompt to allow user to fill in or add new prompt in</li> </ul>	x	X
		addition to List Of Values.		
3	Reports content	Unify terms used in reports	х	x
4	Reports list review	<ul> <li>Remove reports from UHB not available to end users.</li> </ul>	N/a	N/a

# Impacted Reports and Queries

The reports impacted by this change request are listed below:

Queries/Reports	Report	Description		
	BSIQ.00	Individual Settlement detailed Query		
	BSIQ.01	Multi criteria search of a set of Settlement Instructions		
	BSIQ.02	Individual Restriction detailed Query		
Predefined Queries	BSIQ.03	Multi criteria search of a set of Settlement Restrictions		
Fredenned Queries	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: Finalized Matched Instructions (drillable)		
	BSIR.01	Securities Account: Finalized Matched Instructions (drillable)		
	BSIR.02	T2SDCA: Detailed Finalized Matched Settlement Instructions (drillable)		
	BSIR.03	Securities Account: Detailed Finalized Matched Settlement Instruction (drillable)		
	BSIR.04	T2SDCA: Follow-up by time slot of Settlement activity (drillable)		
	BSIR.05	T2SDCA: Comparison of Settlement activity between two time periods (not drillable)		
Predefined Reports	BSIR.06	Cash Settlement: Follow up of actual settlement date of Finalized Settlement Instructions		
	CMBR.00	Journaling and Limits Utilisations of Primary CMB		
	CMBR.01	Journaling and Limit Utilisation of Secondary CMB		
	COLL.00	T2SDCA: Follow up by time slot of Settled Collateralization Instructions		
	COLL.01	Securities accounts: Follow up by time slot of Settled Collateralization Instructions		
	COLL.02	T2SDCA: Settled or Cancelled(user, system or manual) Collateralization instructions		

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
XREP.00	T2SDCA: Matched Cancelled Settlement Instructions (drillable) (TC+PC)
XREP.01	Securities account: Matched Cancelled Settlement Instructions (drillable) (TC+PC)
XREP.02	Finalized Non Matched Cancellations (drillable)

#### Submitted annexes / related documents:

# Proposed wording for the SYS Change request:

#### **UHB V2.3**

1. <u>Report results</u>: Change the report design by transposing rows and columns to allow for better use, including for data exports (Excel, csv).

We propose to change the design of all predefined queries (BSIQ.XX, see Impacted Reports and Queries table below) by transposing the rows and columns in the query results. The corresponding business values will also replace the technical identifiers in the predefined queries.

This will allow an improved readability and visibility of the results and greater usability of the results when exported in Excel or csv format.

	List of Settlement Instructions : 1701120071034382;1701110071010896								
	BSI Settlement Instruction Reference				1	1701110071010896 17		701120071034382	
	<b>Receiving Depository Tech</b>	nical Identifier				200009340		606020	
Current	Delivering Depository Tech	nnical Identifier	r			200009386		606020	
BSIQ.xx	T2S Delivering Party Tech	nical Identifier				200009387		200002840	
	T2S Receiving Party Techn	T2S Receiving Party Technical Identifier				200009341		618205	
design	LCMM Sending Party Technical Identifier					900000		900000	
	LCMM Instructing Party Technical Identifier					200009387		618205	
	TRS Business Settlement Transaction External Identifier					117000797946000		117000798303000	
	List of Settlement Ins	tructions : 1	701120071	034382;170	11100710	10896			_
Future BSIQ.XX	BSI Settlement Instruction Reference	Receiving Depository Technical Identifier	Delivering Depository Technical Identifier	T2S Delivering Party Technical Identifier	T2S Receiving Party Technical Identifier	Party Technical	Party	TRS Business Settlement Transaction External Identifier	T F S T E
design	1701110071010896	200009340	200009386		200009341		200009387	117000797946000	
	1701120071034382	606020	606020	200003387	618205	900000	618205	117000798303000	

UHB section <u>5.2.8. Querying</u>

List screen screenshots for all sub sections must be replaced.

2. <u>Report prompts simplification</u>: Replace technical identifiers by business codes/references for predefined queries and reports.

We need to replace the prompts currently using technical identifiers by business codes (values known by users;

e.g. Securities Technical Identifier -> ISIN) for predefined queries and reports.

Prompts	3 ×
Prompts Summary	Securities (optional)
<ul> <li>Intended Settlement Date From</li> <li>Intended Settlement Date To</li> <li>Business Day From</li> <li>Business Day To</li> <li>Datagroup Origin</li> <li>Settlement Currency Code</li> <li>Securities</li> <li>ISIN</li> <li>Approval Status</li> <li>Transaction Type Code</li> <li>Settlement Transaction Category</li> <li>Settlement Status</li> <li>Cancellation Status</li> <li>Hold History Status</li> </ul>	Type values here         Refresh Values         Securities Technical Iden         260000         362001         362003         362004         362021         362022         362031         362032         January 23, 2017 11:42:08         AM GMT +01:00
* Required prompts	OK Cancel

UHB sections "5.2.2 Cash Management" thru "5.2.11 Securities Management" (search screen sections).

<u>**Report prompts simplification:**</u> modify the prompts, when list of value are used, to allow users to fill in or add new prompts in addition to the List Of Values (LOV).

Prompts set up with list of values need to be enhanced due to technical performance (data volume) in predefined queries and reports. It can occur that the list proposed is not completely refreshed and users may not be able to select the value they are looking for. The corresponding business values will also replace the technical identifiers in the resulting report output.

In order to improve this situation, the LOV criteria will be modified as follows:

- Add a field to allow users to provide values in addition to the LOV
- Or completely remove the LOV and only allow users the ability to provide the values.

Prompts	3 ×
Prompts Summary	ISIN (optional)
<ul> <li>* Display Account By ID</li> <li>* Query Level CSD</li> <li>* ID/Number</li> <li>Entry Date From</li> <li>Entry Date To</li> <li>Intended Settlement Date From</li> <li>Intended Settlement Date From</li> <li>Business Day From</li> <li>Business Day To</li> <li>Datagroup Origin</li> <li>Settlement Currency Code</li> <li>Securities</li> <li>ISIN</li> <li>Approval Status</li> <li>Transaction Type Code</li> </ul>	Refresh Values 😵 🄌 To see the content of the list, click the Refresh values button. List Of Value for ISIN code
* Required prompts	OK Cancel

UHB document: sections "5.2.2 Cash Management" thru "5.2.11 Securities Management" (search screen sections).

3. Report contents: Harmonise terms used in reports

Harmonise the terms used in predefined queries and reports and throughout the UHB:

• "Data group" will replace "Data group origin", "Data sub-group" and "subgroup"

• "Counterparty" will replace "Counterpart"

#### UHB sections

- 5.2.5.1 and 5.2.5.2 BSIR00
- 5.2.5.3 and 5.2.5.4 BSIR01
- 5.2.5.5 and 5.2.5.6 BSIR02
- 5.2.5.7 and 5.2.5.8 BSIR03
- 5.2.5.9 and 5.2.5.10 BSIR04
- 5.2.5.11 and 5.2.5.12 BSIR05
- 5.2.7.1 and 5.2.7.2 LIQU00
- 5.2.8.1 and 5.2.8.2 BSIQ00
- 5.2.8.3 and 5.2.8.4 BSIQ01
- 5..2.9.1 and 5.2.9.2 REAL00

4. Report list review: Remove reports not available to end users from the UHB

The following reports are specified in the UHB although they are not available to end users:

- TRANOO, TRANO1, TRANO2, TRANO3, TRANO4, TRANO5
- XREP03 and XREP04.

Reports of type TRAN are reports based on transactions. Users are not authorised to access information about transactions.

XREP03 and XREP04 are reports restricted for internal use and not for T2S participants. T2S participants only have access to their dedicated reports XREP.00/XREP.01/XREP.02.

Therefore these reports must be removed from the UHB.

UHB document: section "5.2.12 Transactions Entity Follow-up"

# High level description of Impact:

# **Outcome/Decisions:**

\* CRG meeting on 24 April 2017: The CRG recommended the Change Request for detailed assessment and asked the 4CB to check the feasibility to deliver the Change Request as part of the T2S Release 2.0 in principle subject to a final check via the CRG in a written procedure.

\* CRG on 3 May 2017: During the CRG written procedure from 25 April to 3 May 2017, it was agreed to make some minor changes for completeness.

\* Operational Mangers Group on 4 May 2017: During a written procedure from 26 April - 4 May 2017, the Operations Managers Group did not identify any blocking operational impact of the Change Request.

\* Advisory Group on Market Infrastructures for Securities and Collateral (AMI-SeCo) on 12 May 2017: Following a written procedure from 8 to 12 May 2017, the AMI-SeCo was in favour of launching the detailed assessment on the Change Request.

\* CSD Steering Group on 15 May 2017: Following a written procedure from 8 to 15 May 2017, the CSD Steering Group was in favour of launching the detailed assessment on the Change Request.

\* CRG teleconference on 20 July 2017: The CRG recommended the approval of the Change Request and its inclusion in the T2S Release 2.0.

\* Operational Mangers Group on 27 July 2017: Following a written procedure from 20 - 27 July 2017, the Operations Managers Group reconfirmed that the Change Request does not have any blocking operational impact \* Project Mangers Group meeting on 1 September 2017: The Project Managers Group was in favour of adding the Change Request to Release 2.0 from a planning perspective.

\* Advisory Group on Market Infrastructures for Securities and Collateral (AMI-SeCo) on 7 September 2017: Following a written procedure from 4 to 7 September 2017, the AMI-SeCo was in favour of approving the Change Request and its inclusion in T2S Release 2.0.

\* CSD Steering Group on 8 September 2017: Following a written procedure from 4 to 8 September 2017, the CSG adopted the resolution to approve the Change Request and its inclusion in T2S Release 2.0.

	Static data management	Interface		
	Party data management	Communication		
	Securities data management	Outbound processing		
	T2S Dedicated Cash account data	Inbound processing		
	management			
	Securities account data management			
	Rules and parameters data			
	management			
	Settlement	Liquidity management		
Impact On	Standardisation and preparation to settlement	Outbound Information Management		
T2S	Night-time Settlement	NCB Business Procedures		
125	Daytime Recycling and optimisation	Liquidity Operations		
	Daytime Validation, provisioning & booking	LCMM		
	Auto-collateralisation	Instructions validation		
	· ·	Status management		
	Operational services	Instruction matching		
	Data Migration	Instructions maintenance		
	Scheduling	Statistics, queries reports and archive		
	Billing	Report management		
	Operational monitoring	Query management		
		x Statistical information		
		Legal archiving		
	All modules (Infrastructure request)			
	No modules (infrastructure request)			
	Business operational activities			
	Technical operational activities			

# EUROSYSTEM ANALYSIS - GENERAL INFORMATION

Impact on major documentation					
Document	Chapter	Change			
Impacted					
GFS chapter					
Impacted UDFS					
chapter					
Additional					
deliveries for					
Message Specification					
UHB	<ul> <li>- 5.2.6.7 XREP.03 - T2S instructions entities follow-up for Settlement Instructions – Search Screen</li> <li>- 5.2.6.8 XREP.03 - T2S instructions entities follow-up for Settlement Instructions – List Screen</li> <li>- 5.2.6.9 XREP.04 - Securities Account: T2S Instructions Entities follow-up for Settlement Instructions – Search Screen</li> <li>- 5.2.6.10 XREP.04 - Securities Account: T2S Instructions Entities follow-up for Settlement Instructions – List Screen</li> <li>- 6.4.4.51 TRAN.00 - T2SDCA: Percentage of numbers and original amounts of finalised internal T2S Transactions Entities - List Screen</li> <li>- 6.4.4.52 TRAN.00 - T2SDCA: Percentage of numbers and original</li> </ul>	The chapters which reference the reports XREP03, XREP04, TRAN00, TRAN01, TRAN02, TRAN03, TRAN04, and TRAN05 have to be deleted from the UHB.			

amounts of finalised internal T2S	
Transactions Entities - Search Screen	
- 6.4.4.53 TRAN.01 - Securities Account:	
Percentage of numbers and original	
quantities of finalised internal T2S	
Transactions Entities - List Screen	
- 6.4.4.54 TRAN.01 - Securities Account:	
Percentage of numbers and original	
quantities of finalised internal T2S	
•	
Transactions Entities - Search Screen	
- 6.4.4.55 TRAN.02 - T2SDCA: Follow-up	
of number of finalised T2S Transactions	
Entities - List Screen	
- 6.4.4.56 TRAN.02 - T2SDCA: Follow-up	
of number of finalised T2S Transactions	
Entities - Search Screen	
- 6.4.4.57 TRAN.03 - T2SDCA: Follow-up	
of original amount of finalised T2S	
Transactions Entities - List Screen	
- 6.4.4.58 TRAN.03 - T2SDCA: Follow-up	
of original amount of finalised T2S	
Transactions Entities - Search Screen	
- 6.4.4.59 TRAN.04 - Securities Account:	
Follow-up of number of finalised T2S	
Transactions Entities - List Screen	
- 6.4.4.60 TRAN.04 - Securities Account:	
Follow-up of number of finalised T2S	
Transactions Entities - Search Screen	
- 6.4.4.61 TRAN.05 - Securities Account:	
Follow-up of original quantities of finalised	
T2S Transactions Entities - List Screen	
- 6.4.4.62 TRAN.05 - Securities Account:	
Follow-up of original quantities of finalised	
T2S Transactions Entities - Search	
Screen	
- 6.4.4.69 XREP.03 - T2S Instructions	
Entities follow-up for Settlement	
Instructions – List screen	
- 6.4.4.70 XREP.03 - T2S Instructions	
Entities follow-up for Settlement	
Instructions – Search screen	
- 6.4.4.71 XREP.04 - Securities Account:	
T2S Instructions Entities follow-up for	
Settlement Instructions – List Screen	
- 6.4.4.72 XREP.04 - Securities Account:	
T2S Instructions Entities follow-up for	
Settlement Instructions – Search Screen	
- 5.2.2.1 CPST - T2SDCA: Follow-up by	
time slot of Cash Postings - Search	
Screen	
- 5.2.4.1 COLL.00 - T2SDCA: Follow-up	Changes for reports BSIR00, BSIR01, BSIR02,
by time slot of Settled Collateralisation	BSIR03, BSIR04, BSIR05, LIQU00, BSIQ00, BSIQ01, BSIQ02, BSIQ03, BSIQ04, BSIQ05
Instructions - Search Screen - 5.2.4.3 COLL.01 - Securities Accounts:	BSIQ01, BSIQ02, BSIQ03, BSIQ04, BSIQ05, BSIQ06, BSIQ07, REAL00:
Follow up by time slot of Settled	<ul> <li>The Screenshots which contain T2S</li> </ul>
Collateralisation Instructions - Search	Internal References (technical identifier
Screen	values) have to be replaced by new

<ul> <li>6. 2.4.5 COLL.02 - T2SDCA: Settled or Cancellate (usar, system or manual) Cancellate (usar, system or manual) Grane</li> <li>7. 2.5.5 BSIR.00 - T2SDCA: Finalised Matched Instructions - Search Second</li> <li>8. 5. 2.5.5 BSIR.00 - T2SDCA: Finalised Matched Instructions - List Screen</li> <li>7. 5. 2.5.5 BSIR.01 - Second</li> <li>7. 5. 2.5.5 BSIR.02 - T2SDCA: Enalised Matched Instructions - List Screen</li> <li>7. 5. 2.5.5 BSIR.02 - T2SDCA: Detailed Finalised Matched Settlement Instructions</li> <li>8. Search Screen</li> <li>6. 2.5.5 BSIR.02 - T2SDCA: Detailed Finalised Matched Settlement Instructions</li> <li>9. 5. 2.5.5 BSIR.02 - T2SDCA: Detailed Finalised Matched Settlement Instructions</li> <li>9. 5. 2.5.5 BSIR.03 - Securities Account: Detailed Finalised Matched Settlement Instructions - Search Screen</li> <li>6. 2.5.7 BSIR.04 - T2SDCA: Follow-up by time slot of Settlement activity Search Screen</li> <li>6. 2.5.7.1 BSIR.04 - T2SDCA: Follow-up by time slot of Settlement activity between two time periods - Search Screen</li> <li>5. 2.8.4 BSIQ.03 - Individual Settlement detailed Query - List Screen</li> <li>5. 2.8.4 BSIQ.03 - Individual Restriction detailed Query - List Screen</li> <li>5. 2.8.4 BSIQ.03 - Multi-criteria search of a set of Settlement Restrictions - List screen</li> <li>5. 2.8.4 BSIQ.03 - Multi-criteria search of a set of Settlement Restrictions - List screen</li> <li>5. 2.8.1 BSIQ.04 - Multi-criteria search of a set of Settlement Restrictions - List Screen</li> <li>5. 2.8.1 BSIQ.04 - Multi-criteria search of a set of Settlement Restrictions - List Screen</li> <li>5. 2.8.1 BSIQ.04 - Multi-criteria search of a set of Businees Cancellations - Scarch Screen</li> <li>5. 2.8.1 BSIQ.04 - Multi-criteria search of a set of Businees Cancellations - Scarch Screen</li> <li>5. 2.8.1 BSIQ.05 - Multi-criteria search of a set of Businees Cancellations - Scarch Screen</li> <li>5. 2.8.1 BSIQ.06 - Multi-criteria search</li> <li>5. 2.8.1 BSIQ.06 - Multi-criteria search</li> <li>5. 2.8.1 BSIQ.06 - Multi-crite</li></ul>
of a set of Business Cancellations - List

	Screen		
	- 5.2.8.13 BSIQ.06 - Multi-criteria search		
	of a set of Amendment Instructions -		
	Search Screen		
	- 5.2.8.14 BSIQ.06 - Multi-criteria search		
	of a set of Amendment Instructions - List		
	Screen		
	- 5.2.8.15 BSIQ.07 - Multi-criteria search		
	of a set of Hold and Release Instructions -		
	Search Screen		
	- 5.2.8.16 BSIQ.07 - Multi-criteria search		
	of a set of Hold and Release Instructions		
	- List Screen		
	- 5.2.9.1 REAL.00 - Detailed Realignment		
	and Other Technical Instructions - Search		
	Screen		
	- 5.2.9.2 REAL.00 - Detailed Realignment		
	and Other Technical Instructions – List		
	Screen		
	- 5.2.11.1 SPST.00 Securities Account:		
	Follow up by time schedule of securities		
	Postings - Search Screen		
External training			
materials			
Other			
documentations			
Links with other rec			
Linke	Peference	Title	
-	Reference		
OVERVIEW OF THE IM	PACT OF THE REQUEST ON THE T2S SYSTEM AND	ON THE PROJECT	
Overview of the IM Summary of function	PACT OF THE REQUEST ON THE T2S SYSTEM AND onal, development, infrastructure and migratio	on the project n impacts	
Overview of the IM Summary of function The solution will be	PACT OF THE REQUEST ON THE T2S SYSTEM AND onal, development, infrastructure and migratio based on the modification of the predefined	on the project n impacts eports and queries:	
OVERVIEW OF THE IM Summary of function The solution will be • Transpos	PACT OF THE REQUEST ON THE T2S SYSTEM AND onal, development, infrastructure and migratio based on the modification of the predefined ition: The results of the execution of predefin	on the project n impacts eports and queries: ed queries will be displayed	
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OVERVIEW OF THE IM Summary of function The solution will be Transpose Simplification in addition	PACT OF THE REQUEST ON THE T2S SYSTEM AND onal, development, infrastructure and migratio based on the modification of the predefined ition: The results of the execution of predefin ation of the prompts: Business codes/referen- to the list of values. The "Display account by	on THE PROJECT n impacts reports and queries: ed queries will be displayed nces will be proposed. Fre " criterion will be deleted. S	e input will be possible
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