

# T2-T2S Consolidation

## User Testing Execution - Testing Conditions

Next Version(s) delivery Date	Author	Reviewed by
18/01/2023	ECB/4CB	

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## 1. Introduction

The T2 User Testing (UT) started on 01/12/2021 and prior to this test stage the software was tested by Central Banks in Central Bank Testing (CBT) and in the Eurosystem Acceptance Testing (EAT). Some software limitations were identified in the course of these test stages and these limitations will be gradually lifted during UT.

The objective of this document is to provide an overview of these limitations in such a way that parties involved in UT are informed, adapt their detailed testing plan accordingly and do not raise incidents on the documented limitations.

This overview will present the limitations in three categories:

1. Functionalities not yet released or delivered,
2. Functionalities delivered but still impacted by open defects, and
3. Functionalities delivered that the Eurosystem has not fully tested yet

The timeline and availability of other TARGET services (i.e. TIPS and T2S) for end-to-end testing with RTGS and CLM is provided in [User Testing Terms of Reference](#) (UT ToR)<sup>1</sup> published on the ECB website. Any temporary changes to the principles mentioned in the UT ToR will be listed in section 2.1 of this document. Also, in situation when any of the testing principle mentioned in UT ToR needs to be clarified/detailed with additional information, then these details will be included in section 2.2 of this document.

In addition to this fortnightly testing conditions document, starting from 14/02/2022, the particular testing conditions applicable in User Testing for the beginning of each testing day is being communicated on a daily basis by the National Service Desk.

Based on the request from the T2 Participants (T2Ps), the information on Minimum Reserve interests applied in User Testing Environment is now included in Annex 2 of this document.

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<sup>1</sup> The timeline specified for some of the activities (e.g. UT mandatory phase, UT operational testing, Contingency testing, Business day testing period and completion of User Testing execution) in the UT ToR published on the ECB website are to be adapted with the new Go-Live date of March 20, 2023. These details are included in section 2.2 of this document.

## 2. User Testing Conditions

The date of the status presented below is 10/01/2023.

### 2.1 Temporary adaptations to the UT ToR principles

As mentioned in the UT ToR (section 4.6), the Central Banks and the T2Ps shall follow the recommendation document (CLM/RTGS Reference Data / recommendations for setting up data in CRDM) for reference data, in order to ensure the successful propagation of data from and/loading in CRDM to CLM and RTGS systems.

With the deployment of the CR74 and CR75 on 01/04/2022, these recommendations are enforced by the system.

As of 18/07/2022, the schedule of the TARGET Services T2-T2S are aligned and hence the T2-T2S synchronised standard day schedule is followed from Monday-Thursday and T2-T2S Synchronised Release day schedule will be followed on Fridays when a deployment is scheduled.

As of 19/07/2022, the cut-off for Data Propagation is at 15:30 CET. Please refer below the T2-T2S Synchronised standard day and T2-T2S synchronised Release day schedule.

An additional, live timing schedule is foreseen to be applied in January 2023. The time period for applying and testing with Live Timing Schedule is provided in section 2.2.

T2-T2S synchronised standard day schedule

	CLM Standard & Synchronised Day	RTGS Standard & Synchronised Day	T2S Schedule
Start of RTGS RTS II and Settlement Window for Interbank and Customer Payments	-	06:30	-
DVP / Cash Settlement Restrictions cut-off			14:30
Collateral reimbursement (EUR)			15:00
Bilaterally Agreed Treasury Management (BATM) / CBO cut-off (EUR)			15:10
Cut-off for customer payments in T2	-	15:15	15:15
Inbound LTO cut-off for T2S / Optional Cash sweep (EUR) in T2S			
Cut-off for CLM RTS			
Cut-off for RTGS RTS II and Settlement window for Interbank and Customer Payments. Execution of Standing Orders after last settlement attempt	15:30	15:30	15:30
General cut-off for standing facilities	15:45	-	-
CB cut-off for standing facilities	16:10	-	-
<b>Change of business day</b>			
Start of day	16:15	16:15	16:15
Start of CLM RTS Feeds from CMS to T2S	16:30	-	16:30
Execution of standing orders in CLM			
Start of RTGS RTS I and Execution of Standing Orders in RTGS	17:00	17:00	-
Start of NTS / cash injection	-	-	17:15
End of Testing	19:00	19:00	19:00

T2-T2S synchronised Release day schedule
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	CLM Release Day	RTGS Release Day	T2S Release day
Start of RTGS RTS II and Settlement Window for Interbank and Customer Payments	-	06:30	-
DVP / Cash SR cut-off			13:00
Collateral reimbursement (EUR)			13:30
BATM / CBO cut-off (EUR)			13:40
Cut-off for customer payments in T2			
Inbound LTO cut-off for T2S / Optional Cash sweep (EUR) in T2S	-	13:45	13:45
Cut-off for CLM RTS			
Cut-off for RTGS RTS II and Execution of Standing Orders after last settlement attempt	14:00	14:00	-
General cut-off for standing facilities	14:15	-	-
CB cut-off for standing facilities	14:40	-	-
<b>Change of business day</b>			
Start of day	14:45	14:45	14:45
Start of CLM RTS Feeds from CMS to T2S	15:00	-	15:00
Execution of standing orders in CLM			
Start of RTGS RTS I and Execution of Standing Orders in RTGS	15:30	15:30	-
Start of NTS / cash injection	-	-	15:45
End of Testing	17:30	17:30	17:30

T2 - T2S Live Timing Schedule

	CLM Live Timing Schedule	RTGS Live Timing Schedule	T2S Live Timing Schedule
Start of RTGS RTS II and Settlement Window for Interbank and Customer Payments	-	02:30	-
DVP / Cash SR cut-off			16:00
Collateral reimbursement (EUR)			16:30
BATM / CBO cut-off (EUR)			17:40
Cut-off for customer payments in T2			
Inbound LTO cut-off for T2S / Optional Cash sweep (EUR) in T2S	-	17:00	17:45
Cut-off for CLM RTS			
Cut-off for RTGS RTS II and Execution of Standing Orders after last settlement attempt	18:00	18:00	-
General cut-off for standing facilities	18:15	-	-
CB cut-off for standing facilities	18:40	-	-
<b>Change of business day</b>			
Start of day	18:45	18:45	18:45
Start of CLM RTS	19:00	-	19:00
Feeds from CMS to T2S			
Execution of standing orders in CLM			
Start of RTGS RTS I and Execution of Standing Orders in RTGS	19:30	19:30	-
Start of NTS / cash injection	-	-	20:00
End of Testing	20:00	20:00	20:00

## 2.2 Complementary information to UT ToR

### **T2-T2S Consolidation project – timeline extended**

As published in the ECB website on 20/10/2022, the Governing Council of the ECB has decided to reschedule the launch of the new real-time gross settlement (RTGS) system and its central liquidity management model, T2 to 20 March 2023.

The key testing milestones are provided in the table below.

Testing milestones	Date
Software code freeze start	16/01/2023
LIVE Timing tests start (for 2 weeks, except for Fridays when Release day Schedule will be applied)	16/01/2023
<p>Second campaign for cross border tests (for 1 week)</p> <p><b>Objective:</b> The goal of this testing would be that the T2Ps perform different tests (domestic, cross-border and AS) simulating their normal activity in cross border mode.</p> <p><b>Reporting</b> The Central Banks are requested to submit the report to ECB by 01/02/2022 based on T2Ps' feedback on this cross-border test</p>	16/01/2023
Cut-off for the T2Ps to complete their testing including Mandatory test cases Testing, operational testing, contingency scenario Testing and Business day Testing activities.	27/01/2023
Migration Weekend Dress Rehearsal	03,04,05/02/2023

### 2.3 Software limitations - category 1 - functionalities not yet delivered

This category covers the functionalities not yet released to UT classified by service component (i.e. CLM, RTGS, DWH, etc.)

#### 2.3.1 CRDM

All CRDM functionalities are released.

The T2Ps are requested to follow the recommendations described in the document "CLM/RTGS Reference Data / recommendations for setting up data in CRDM" in order to avoid data inconsistencies that might hamper the business day processing which will be shared by the relevant National Service Desk (NSD).

#### 2.3.2 CLM

All CLM functionalities are released.

#### 2.3.3 RTGS

All RTGS functionalities are released.

As of 31/10, algorithms run as follows:

- Monday – Friday: Algos will run every 3min. First algo run at 18.50 hrs CET (+/- mins, dependent on SoD activities), last algo run before cut-off event (exact time depends on business day schedule).



- Order: Algo 2, Algo 3 run directly after Algo 2, Algo 4 run directly after Algo 3 run but only in case an AS settlement procedure B is available.)

Please note that in case of any algo disturbance during the day which requires an analysis by last level support team, algo-runs might be suspended for the current business day and will then only continue as of next business day.

#### **2.3.4 Billing**

The pre-existing issues in the DWH-BILL communication which couldn't be solved in time for the internal testing period impacted the correct loading of data in BILL and caused a delay in the completion of BILL internal testing. The T2 BILL testing campaign has started as planned on 09 January (taking note of the defects/restrictions mentioned in Annex 1) and will continue until 10 February 2023. The summary document for the BILL campaign has been shared with the CBs on 06/01/2023. The T2Ps were requested to raise the billable items starting from 09/01/2023, for the T2 BILL testing campaign.

#### **2.3.5 Data Warehouse (DWH)**

The DWH infrastructure and the daily load were delivered. As of 10/01/2023, the business days data till 09/01/2023 are successfully loaded. With the availability of infrastructure and the data in the environment, the T2Ps can configure and test the User defined reports.

Please refer to Annex 3 which includes the full view on DWH use cases available for testing for pre-defined reports and the delivery dates.

#### **2.3.6 NRO**

The CRDM Non-Repudiation of Origin (NRO) has been activated on 18/05/2022.

The CLM and RTGS NRO has been activated on 28/09/2022. The NRO functionality for ECONSII is active as of 08/09/2022.

The current indication is that no new version will be published ahead of the CSLD go live in March 2023. Nevertheless, in order to mitigate the risk of a new Ascertia GSD version being published (even on short notice) before March 2023, the T2Ps are recommended (not mandatory) to migrate to version 6.9.0.9 (despite 6.9.0.1 remaining supported until further notice).

The T2Ps shall complete the Go-Sign Desktop installation using the latest URL for SWIFT and SIA available in the published U2A qualified configurations document<sup>2</sup>. The [ESMIG guide](#) and the [FAQ 2.0](#) contains details on the technical NRO checks to be done by the server administrators and by the user.

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<sup>2</sup> See more information in

[https://www.ecb.europa.eu/paym/target/coco/shared/docs/ecb.esmigcoco221013\\_ESMIG\\_U2A\\_Qualified\\_Configurations\\_v1.3\\_4.en.pdf](https://www.ecb.europa.eu/paym/target/coco/shared/docs/ecb.esmigcoco221013_ESMIG_U2A_Qualified_Configurations_v1.3_4.en.pdf). Currently supported versions are 6.9.0.1 and 6.9.0.9.

### 2.3.7 ECONSII

The ECONSII is opened on every Thursdays between 09:00 and 13:00 in the test environment for testing purposes.

#### 2.4 Software limitations - category 2 – functionalities with open defects

This category includes the T2P functionalities delivered to UT but impacted by open defects:

- CRDM – No high priority and 8 medium priority defects impact the CRDM functionalities
- CLM – 3 high priority and 4 medium priority defects impact the CLM functionalities
- RTGS - 2 high priority and 10 medium priority defects impact the RTGS functionalities
- DWH – 3 high and 6 medium priority defects impact the DWH functionalities
- ECONS II – 2 medium priority defects impact the ECONS II functionalities
- BILL – 5 medium priority defects impact the BILL functionalities

The table in Annex 1 provides the list of all open high and medium priority defects. The annexes include business description and target delivery date of those open defects.

The high priority defects (PBIs) are marked by the Central Banks as mandatory for Go-Live and they will be fixed and tested before Go-Live. The Medium and Low priority defects will be fixed on best effort basis before go-live and will be scheduled for post go-live releases.

## 3. Annexes

### Annex 1 – Open Defects

#### CRDM – 8 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery date
PBI000000225752	Medium	No response on sent acmt.025 (only adm.007 with ICAA001 - The service cannot reply to the query request within the timeout limit)	Under analysis
PBI000000225545	Medium	Unable to remove a restriction (TPBO) from a party	Under analysis
PBI000000225506	Medium	Approval of a deletion action in 4 eyes mode is possible for a user without deletion privilege on the item to be revoked	Under analysis
PBI000000224841	Medium	It is not possible to subscribe to camt.025 as an optional answer to CRDM messages camt.024, camt.071, camt.011, camt.012 and camt.048	Under analysis

Problem ID	Priority	Business Description/Summary	Target delivery date
PBI000000224496	Medium	Deleting and re-creating the link between a Certificate DN and a user wrongly triggers business rule DRC0005 : "When performing a User Certificate DN creation request, there cannot be more than one active link between the same User and Certificate DN"	Under analysis
PBI000000224137	Medium	In case of lack of a Valid From field in the camt.024 sent to CRDM, CRDM correctly denies the creation of inconsistent Liquidity Transfer Orders having no starting validity date, but it incorrectly answers with a camt.025 containing a non-registered technical validation rule. The issue has a workaround i.e. inserting a value for the tag Document/ModfyStgOrdr/NewStgOrdrValSet/VldtyPrd/FrDt.	28/04/2023
PBI000000224023	Medium	In U2A functionality of Common->Services->Data Changes, there is the following issue: 1.a first user captures a data change -> this user is listed in data changes list 2. A 2nd User approves the data change --> only this user is in the data changes list  In addition the search for CRDM System user only gives result for items this user has approved or rejected as 2nd user. Only if the change is still pending its in the result list. The first user is only to be found in the details (This information should be in the result list too)	28/04/2023
PBI000000223399	Medium	Co-managed entity unable to modify/delete in a cross-border a previously created report configuration to receive its own camt.053 on its own BIC	Delivery after Go-Live (exact date tbc)

### CLM – 3 high and 4 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery date
PBI000000225698	High	Camt.003 for Minimum Reserve Fulfilment Query (MFRQ) does not work anymore.  The user did not receive the information regarding the AccountServicer which was requested. Only the Leader View for this party (and only in case the usage is allowed, i.e. the querying party is a CB or the AccountServicer is a co-managee fulfilling all necessary conditions) should be reported in the camt.004 response.	Under analysis
PBI000000225844	High	The camt.004 to provide the minimum reserve fulfilment data with code MRFQ did not contain the data of the co—managee as requested by the	13/01/2023

Problem ID	Priority	Business Description/Summary	Target delivery date
		minimum reserve fulfilment query (camt.003) by the co-manager or CB on behalf, even if all requirements according to specification are fulfilled.	
PBI000000225722	High	Cash transfer for an interest rate equal to 0.00% was created. The creation of cash transfer (pacs. 010) in case of an amount equal to zero (0.00%) is not expected (i.e. that no pacs.010 should be generated) and hence this current behaviour needs to be fixed,	13/01/2023
PBI000000225630	Medium	Connected payments for marginal lending reimbursement do not show the ML account as credit account in CLM U2A, details of cash transfer	28/04/2023
PBI000000225151	Medium	In the events list screen in CLM future events were marked as already triggered, however, the events had not been started.	28/04/2023
PBI000000225132	Medium	The List of Minimum Reserve (Pool) showed two Leading CLM Account Holder instead of just one.	28/04/2023
PBI000000225043	Medium	When a bank receives a camt.054 related to overnight deposit interest (ODIN , generated by CLM), it receives two references (End-to-End ID and Instruction ID) but if it consults CLM GUI, these fields are empty	28/04/2023

#### RTGS – 2 high and 10 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000225842	High	Algo 2 stuck - Ancillary System (AS) pre-processing was executed parallel to a Algo-run without a previous check so that subsequently the AS pre-processing is aborted and AS Batch could not settle.	13/01/2023
PBI000000225551	High	Delta set retrieval camt.006 with less information that first message of day	Retest failed-under analysis
PBI000000225713	Medium	pacs.002 received from T2 with incorrect OriginalMessage-NameIdentification	Under analysis
PBI000000225585	Medium	camt.006 includes different End-to-End ID	28/04/2023
PBI000000224889	Medium	Our AS participant uses procedure E. The AS file is visualized with the correct status - Queued (not Created). The AS batch status "Queued" is visible from screen List of AS batches. But the file is missing from screen List of status Overview of AS batches. In other words, the file is visible in one of the screens but missing from the other.	28/04/2023
PBI000000224590	Medium	Instruction for next agent is available in A2A in pacs.009 but not in U2A pacs.009 (in RTGS)	28/04/2023

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000224571	Medium	E001 for pacs.004 via U2A although all mandatory fields were filled.	28/04/2023
PBI000000224326	Medium	We have observed a PACS.008 message being rejected by T2 scheme with error code E012. However the BAH is correct. After further analysis, it was observed that this payment has code 'SBTI' in 'Local Instrument/Code', and if removed there is no more error. Conclusion: T2 is launching a wrong error code for this scenario.	28/04/2023
PBI000000224301	Medium	RTGS Sub-Account Liquidity: List of Settled Debit AS transfer orders: using the Display message button for one chosen pain.998 leads to a display of all camt.054 for all pain.998 instead of displaying only the related camt.054 message	28/04/2023
PBI000000222811	Medium	[U2a][pacs.004][schema code missing]U2A New Payment Return - scheme code requested although it should be optional	28/04/2023
PBI000000222766	Medium	[pacs.004][X00050: Invalid message] Pacs.004 not valid according to MyS message validation – ExchangeRate Following two ISO 20022 complex rules are missing: CrossElementComplexRule : ReturnedInstructedAmountAndExchangeRate1Rule CrossElementComplexRule : ReturnedInstructedAmountAndExchangeRate2Rule	28/04/2023
PBI000000225480	Medium	Earliest/Latest debit time of warehoused payment cannot be modified	Under analysis

### DWH – 3 high and 6 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000225683	High	DWH report IDC.05 showing incorrect data	Under analysis
PBI000000225667	High	Total MRR amount from MIR02 report is incorrect	Under analysis
PBI000000224744	High	Reports are embedded in the XML-structure in the CDATA-tag. Before embedding the data will be transformed to a BLOB. For this reason a retransformation is required. Please be aware that in case of DXE also a splitting of files is possible. In case of large reports more than one message will be received and tag page-indicator is then added.	Under analysis
PBI000000225750	Medium	DWH Report – STA01 - Missing E2E id (AS cash transfers)	Under analysis
PBI000000225574	Medium	Scheduled reports (here MIR01) was not received.	13/01/2023

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000225003	Medium	TRN01 report can be extracted in several ways, e.g.HTML or PDF. However, in the customer test the TRN01 pdf format did not include any data (in contrast to the HTML version).	Under analysis
PBI000000225228	Medium	UT - DWH – report STA01 - Search by amount not possible.	Under analysis
PBI000000225203	Medium	DWH MIR01 report - missing fields in CSV format (fields are present in the html format)	Under analysis
PBI000000225349	Medium	Several Events are not reported in report BDY01. They include T2RD, T2DP and CT02 for CLM, and RT02 for RTGS	Under analysis

### ECONS II – 2 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000225525	Medium	After an ECONS II test the participant has downloaded the account statement. In the statement some payments were included, where several information is missing like the amount.	Under analysis
PBI000000225402	Medium	We have sent a get account message (camt.003) to query a contingency account in ECONSII and we got back a camt.004 correctly but the displayed balance amount is have two more zeros than it should. So instead of 5mil it is displayed as 500mil	Under analysis

### BILL – 5 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000225729	Medium	In case of manual corrections on existing service item, the VAT configured by the CB for the interested service items is not taken into consideration by BILL. The VAT computed and inserted in the PDF and camt.077 is not correct. The issue is not present in case VAT are not used/configured by the CB.	Under analysis
PBI000000225727	Medium	In case a party is part of a Billing group, the service item RTGS Payment Order 5011 is not computed considering the total volume of the Billing group community. This causes wrong amounts in the PDF and camt.077 invoices for these Parties	Under analysis
PBI000000225653	Medium	An issue occurs when the service items RTGS Payment Order 5011 (with bands and digressive calculation method) is reported in the BILL camt.077 INV. Multiple tags, one for each band computed, are reported	Under analysis

Problem ID	Priority	Business Description/Summary	Target delivery Date
		instead of one single tag with the total quantity and the with total amount (no band splitting), as described in the section UDFS 3.1.2.3 of BILL UDFS.	
PBI000000225651	Medium	In case a party is part of a Billing group, a dedicated note should be present in the PDF, following the Invoice template part of the CR0036 Annexes. This note is missing. This issue does not affect the PDF and camt.077 generation and the amounts contained in the invoice.	Under analysis
PBI000000223102	Medium	The category for T2 service items related to AS must be turned from Account Management Services to Information Services for properly managed the aggregation and showing of the information.	Under analysis

## Annex 2 – Minimum Reserve Requirement interests in User Testing Environment

Starting 04 January 2023 till 07 February 2023, the following production values will be applied in T2 UTEST. The maintenance period for these interest rates is weekly (Wednesday till Tuesday).

MRIR minimum reserve interest rate: **2.00%**

MRP1 penalty rate type 1: **5.25%**

MRP2 penalty rate type 2: **7.75%**

EXIR excess reserve interest rate (exempt tier): **0%**

excess reserve interest rate (non-exempt tier): **0%**

ODIR overnight deposit interest rate: **2.00%**

MLIR marginal lending interest rate: **2.75%**

ERE - Excess reserve exemption factor: **0**

## Annex 3 – DWH delivery details

DWH.UC.BIL01	Data Warehouse	Consumption data	Available
DWH.UC.BIL02	Data Warehouse	Monitoring the invoice activity	Available
DWH.UC.BIL03	Data Warehouse	Audit of critical data	Available
DWH.UC.BIL04	Data Warehouse	Detailed consumption	Available
DWH.UC.BIL05	Data Warehouse	Detailed participation	Available
DWH.UC.INV01	Data Warehouse	reporting revenues	Available

DWH.UC.IDC03	Data Warehouse	credit line/IDC averages and maxima (account level)	Available
DWH.UC.IDC05	Data Warehouse	maximum of credit line used	Available
DWH.UC.DXE01	Data Warehouse	Party Reference Data Extraction	Available
DWH.UC.DXE02	Data Warehouse	Cash Account Reference Data Extraction	Available
DWH.UC.DXE03	Data Warehouse	Cash Account Aggregation Group File Specification	Available
DWH.UC.DXE04	Data Warehouse	Cash Account Balance and Liquidity File Specification	Available
DWH.UC.DXE05 <sup>3</sup>	Data Warehouse	Cash Transfers Orders/ Cash Transfers File Specification	Available
DWH.UC.DXE06	Data Warehouse	Business Day File Specification	Available
DWH.UC.TRN01	Data Warehouse	cash transfer (order) search and details	Available
DWH.UC.TRN02	Data Warehouse	monthly overview of domestic and cross-border payments	Available
DWH.UC.TRN04	Data Warehouse	cash transfers per time band and per CB	Available
DWH.UC.TRN05	Data Warehouse	monthly overview of cash transfer orders per party	Available
DWH.UC.TRN07	Data Warehouse	cash transfers between two accounts of different parties	Available
DWH.UC.TRN11	Data Warehouse	monthly value and volume of cash transfers between system entities	Available
DWH.UC.XML01	Data Warehouse	XML parsing camt.048 CLM	Available
DWH.UC.XML02	Data Warehouse	XML parsing camt.049 CLM	Available
DWH.UC.XML05	Data Warehouse	XML parsing camt.998 CLM	Available
DWH.UC.MIR01	Data Warehouse	minimum reserve information	Available
DWH.UC.MIR02	Data Warehouse	minimum reserve requirements per country	Available
DWH.UC.STA01	Data Warehouse	statement of account (single account)	Available
DWH.UC.STA02	Data Warehouse	statement of account (co-managed accounts)	Available
DWH.UC.STF01	Data Warehouse	standing facilities information	Available
DWH.UC.PAR01	Data Warehouse	critical participants	Available
DWH.UC.PAR02	Data Warehouse	list of active Direct and Indirect Participants according to RTGS Directory	Available

<sup>3</sup> Minimum extended scope planned for go-live, including a subset of additionally required reports.