

# T2 User Testing Execution

## Testing Conditions

Next Version(s) delivery Date	Author	Reviewed by
29/03/2023	ECB/4CB	

**Table 1:** Document log

## Contents

<b>1.</b>	<b>Introduction</b>	<b>3</b>
<b>2.</b>	<b>User Testing Conditions</b>	<b>4</b>
2.1	Temporary adaptations to the UT ToR principles	4
2.2	Testing campaigns	7
2.2.1	<i>Billing</i>	7
2.2.2	<i>Data Warehouse (DWH)</i>	7
2.2.3	<i>ECONSI</i>	7
2.3	Software limitations functionalities with open defects	7
<b>3.</b>	<b>Annexes</b>	<b>8</b>
	<b>Annex 1 – Open Defects</b>	<b>8</b>
	<b>Annex 2 – Minimum Reserve Requirement interests in User Testing Environment</b>	<b>14</b>

## 1. Introduction

The objective of this document is to provide an overview of the software limitations that are impacting T2 testing in User Testing environment, in such a way that parties involved in User Testing (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

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

## 2. User Testing Conditions

The date of the status presented below is 21/03/2023.

### 2.1 Temporary adaptations to the UT ToR principles

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, to ensure the successful propagation of data from and/loading in CRDM to CLM and RTGS systems.

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.

RTGS 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.

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.

T2-T2S synchronised standard day schedule
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	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	-	15:15	15:15
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

	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

## 2.2 Testing campaigns

### 2.2.1 Billing

The next billing cycle will start on 01/04/2023 and is planned for 5 weeks until 06/05/2023. The summary document will be shared soon with CBs.

### 2.2.2 Data Warehouse (DWH)

As of 22/03/2023, the business days data till 21/03/2023 are successfully loaded.

### 2.2.3 ECONSII

The ECONSII is opened on every Wednesday between 10:00 CET and 12:00 CET in the test environment for testing purposes.

### 2.2.4 NRO

The CRDM, CLM, RTGS and ECONSII Non-Repudiation of Origin (NRO) is activated in UTEST environment.

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>1</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.

## 2.3 Software limitations functionalities with open defects

This category includes the T2P functionalities impacted by open defects in UT:

- CRDM – 22 medium priority defects impact the CRDM functionalities
- CLM – 4 high priority and 9 medium priority defects impact the CLM functionalities
- RTGS - 5 high priority and 18 medium priority defects impact the RTGS functionalities
- DWH – 5 high and 5 medium priority defects impact the DWH functionalities
- BILL – 3 medium priority defects impact the BILL functionalities

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<sup>1</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.

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.

### 3. Annexes

#### Annex 1 – Open Defects

##### CRDM – 22 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery date
PBI000000226366	Medium	When querying the Party Audit Trail via reda.042, an error code received due to business rule DRRI001, even if the requestor belongs to the same party .  Business rule DRRI001 description: when performing a request to read an Audit Trail, the requestor must be authorised to access the requested data.	28/04/2023
PBI000000226604	Medium	Error 'X000' in Camt.026 preventing to query the account list via camt.025	28/04/2023
PBI000000226586	Medium	camt.010 ReturnLimit incorrectly includes a value in the tag CdtDbtInd	28/04/2023
PBI000000226582	Medium	ECONS access problem - lockout from date is incorrectly not considered during user check (CRDM)	Under analysis
PBI000000226469	Medium	Issue with CRDM Data propagation related to multi-currency	22/09/2023
PBI000000226500	Medium	Admin User receives time out in when approving special data change in CRDM (only applicable to PRODUCTION environment)	28/04/2023
PBI000000226484	Medium	Issue related to the setup of standing orders	28/04/2023
PBI000000226450	Medium	Issue in RTGS directory - Changes (deletions) are not reflected in the Delta report	31/03/2023
PBI000000226430	Medium	Closing date cannot be set for a RTGS Sub-Account	28/04/2023
PBI000000226356	Medium	Unable to set up the minimum reserve calculation due to business rule DCU1431	Under analysis
PBI000000226295	Medium	Before the fix, it is not possible to delete a Certificate DN due to wrong management of Access Right Management checks. As a workaround before the fix is deployed, the delete/restore action can	Under analysis



Problem ID	Priority	Business Description/Summary	Target delivery date
		be performed by relevant CB/Service Operator acting on behalf of requesting AS.	
PBI000000226255	Medium	Issue with acmt.026 AccountListReport . The Country of operation displayed is 'IT' for a query raised by "DE"	28/04/2023
PBI000000226253	Medium	Wrong business rule DCC4081 triggered on camt.024 – ModifyStandingOrder for Liquidity Transfer Order, containing Event Type C1P1 and C1P2. CRDM Object: Returned result: "Unknown Event Type"	28/04/2023
PBI000000226178	Medium	acmt.026 AccountListReport includes data which were not expected to be included.	28/04/2023
PBI000000225873	Medium	Not possible to change Account Monitoring Group	28/04/2023
PBI000000225752	Medium	No response on sent acmt.025 (only admi.007 with ICAA001 - The service cannot reply to the query request within the timeout limit)	28/04/2023
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	28/04/2023
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	28/04/2023
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"	28/04/2023
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	28/04/2023

Problem ID	Priority	Business Description/Summary	Target delivery date
		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)	
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	28/04/2023

#### CLM – 4 high and 9 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery date
PBI000000226569	High	Unexpected behaviour after rule based ceiling LT <Notes> : [T2 IAC-B MT-V.4.5.X.X] Unexpected behaviour after rule based ceiling LT	Under analysis
PBI000000226530	High	Incorrect interests calculated for accounts which are not part of the Minimum Reserve calculation: interests for Saturday and Sunday not included.	31/03/2023
PBI000000226509	High	Incorrect list of Minimum Reserve (Pool): participants holding minimum reserve indirectly by the pool leader displayed in the list, which is incorrect if they are not members of the pool.	Under analysis
PBI000000226201	High	Camt.005 query with search criteria (EndToEndId and date) triggers camt.006 with E118 - No data found	31/03/2023
PBI000000226524	Medium	Difference between camt.054 and camt.006 - End-to-End ID (for Type LCCS)	Under analysis
PBI000000226511	Medium	camt053 received from CLM has invalid format: missing MsgDefIdfr	31/03/2023
PBI000000226412	Medium	A rule-based liquidity transfer due to ceiling breach was triggered by a liquidity transfer while only payments should trigger it.	Under analysis
PBI000000226338	Medium	Task Overview Not Shown in Task Queue	28/04/2023
PBI000000226240	Medium	Error received while confirming a revoke	28/04/2023
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

Problem ID	Priority	Business Description/Summary	Target delivery date
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 – 5 high and 18 medium priority defects

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000226506	High	High/normal payments settled when they should not due to a reservation in RTGS for urgent payments.	31/03/2023
PBI000000226503	High	RTGS AS-A Blocking: disagree for AS-A Batch not processed. It is possible to repeat disagree in U2A. No change for 'Cash Transfer RTGS' even U2A shown task Operation Successful and the RTGS task is in status - 522 order failed - .	31/03/2023
PBI000000226465	High	camt.005 triggered the reception of an adm.007 1074 but the camt.006 was missing.	31/03/2023
PBI000000226297	High	Reported discrepancy between the IDs in camt.054 and camt.053. Issue will be fixed a code change.	31/03/2023
PBI000000226140	High	Rule Based Floor Standing Order not being executed	31/03/2023
PBI000000226750	Medium	Incorrect pacs.009 received from ESMIG (not schema compliant tag Ctry missing)	Under analysis
PBI000000226607	Medium	CAMT.047 for RTGS returns a null value due to the fact the urgent reservation is currently being used first for Standing Order LT settlement even though other liquidity reservations are available	Under analysis
PBI000000226481	Medium	CLM/RTGS: head.001.001.01 not valid for camt.047 with Error/Proprietary equals E018	31/03/2023
PBI000000226394	Medium	Sort functionality not working correctly in the 'Query Account Postings' screen	28/04/2023
PBI000000226300	Medium	Download Statement of Account - Field Business Date was empty, because less than 10 business days (starting from 31/01) were stored in the respective table and the GUI expected a minimum of 10 business days to be available when populating the drop-down box. This issue will automatically vanish after 14/02 since then enough business days have been accumulated and 10 individual business days are available in the respective table. Nevertheless, the planned fix will now ensure that the drop down box is populated with the available business days even if less than 10 of them are available.	28/04/2023
PBI000000226205	Medium	Sent camt.005 (with 'PDNG') only responded with camt.006 'E118' No data found even if payments available	28/04/2023

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000226191	Medium	T2 camt.053 UETR missing for pacs.004 IN & OUT	28/04/2023
PBI000000226128	Medium	Issues with pacs.004: 1) 'return identification' not included in the outbound message sent to the receiver and 2) Incorrect instruction ID in camt.053.	28/04/2023
PBI000000225894	Medium	The booking on the sub-account did not take place. The pain.998 was only rejected, when the AS closed the procedure	31/03/2023
PBI000000225713	Medium	pacs.002 received from T2 with incorrect OriginalMessage-NameIdentification	28/04/2023
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
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 – 5 high and 5 medium priority defects**

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000226677	High	Dynamic date not working in STA01 - Statement of Account report	Under analysis
PBI000000226575	High	Closed CRDM Instances not Included in DWH Report	Under analysis
PBI000000226456	High	IDC05 - Incorrect SoD/EoD balance and Peak IDC use	Under analysis
PBI000000226274	High	DWH - TRN03 report - long loading time and not possible to download the data	Under analysis
PBI000000226251	High	TRN01 - Field 'Message in XML-format' includes also the BAH which was not expected.	Under analysis
PBI000000226704	Medium	DWH report IDC.05 showing incorrect data	Under analysis
PBI000000226685	Medium	Problem with report STA01 - output is empty for any selected accounts/days.	Under analysis
PBI000000226514	Medium	DXE02 - Credit Based Only Flag	Under analysis
PBI000000226433	Medium	DWH Report PAR04 - insufficient data available on AS and settlement banks	Under analysis
PBI000000225228	Medium	UT - DWH – report STA01 - Search by amount not possible.	Under analysis

**BILL – 3 medium priority defects**

Problem ID	Priority	Business Description/Summary	Target delivery Date
PBI000000226667	Medium	Direct debit did not work for T2 Service for Billing period 1-5 March	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	31/03/2023
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.	31/03/2023

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

As from **08/02/2023** until further notice, the rates in the below overview will apply. The maintenance period for these interest rates is weekly (Wednesday till Tuesday)

MRIR minimum reserve interest rate: **2.50%**

MRP1 penalty rate type 1: **5.75%**

MRP2 penalty rate type 2: **8.25%**

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

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

ODIR overnight deposit interest rate: **2.50%**

MLIR marginal lending interest rate: **3.25%**

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