

ECB
DG-MIP/MIS
EAT Team

EAT execution status

TIPS Contact Group

9th Meeting on 28 August 2018

Eurosystem Acceptance Testing for TIPS

- EAT stage is to provide the MIB with an independent assessment on the quality of the TIPS service and its compliance with URD and UDFS, before the start of the Pilot testing phase.
- The ECB EAT team is in charge of preparing and conducting the functional tests on TIPS for the EAT on behalf of the Eurosystem.
- EAT execution for TIPS divided in three phases following the development cycles:



- EAT is executed in the EAC TIPS dedicated environment connected to the ECB testing infrastructure via NSP (only for testing purposes).

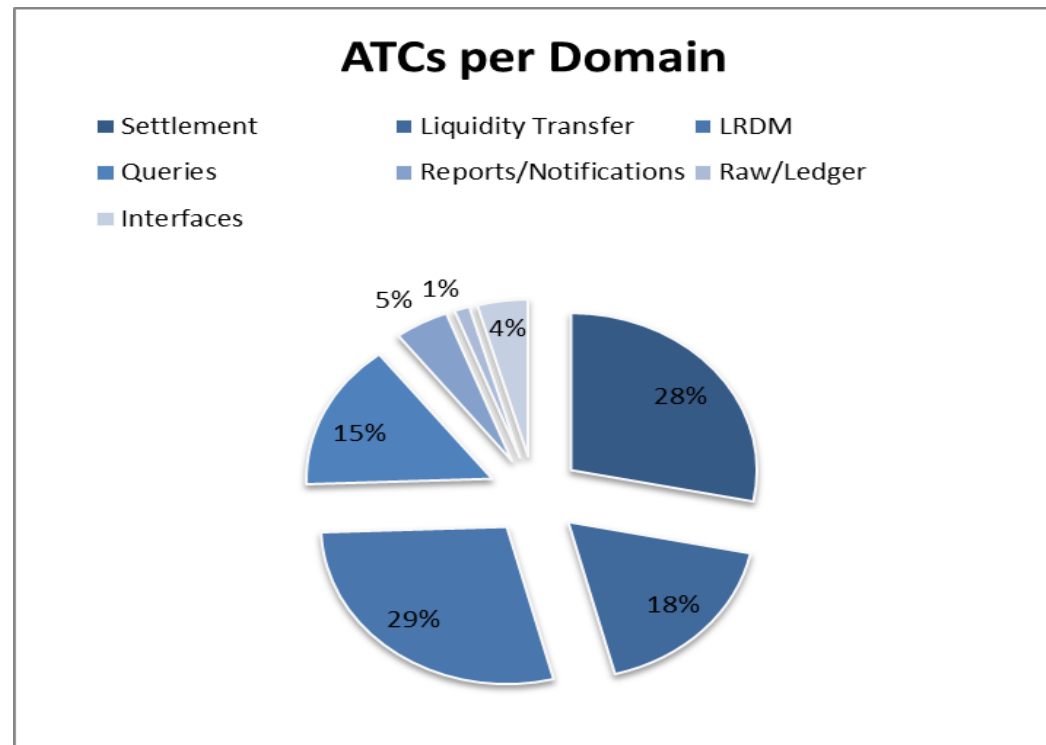
EAT3 scope

- **EAT3 covered**

- the regression tests (EAT1+EAT2) with the full software platform
- non-core functionalities (e.g. reports and the general ledger file)
- TIPS GUI

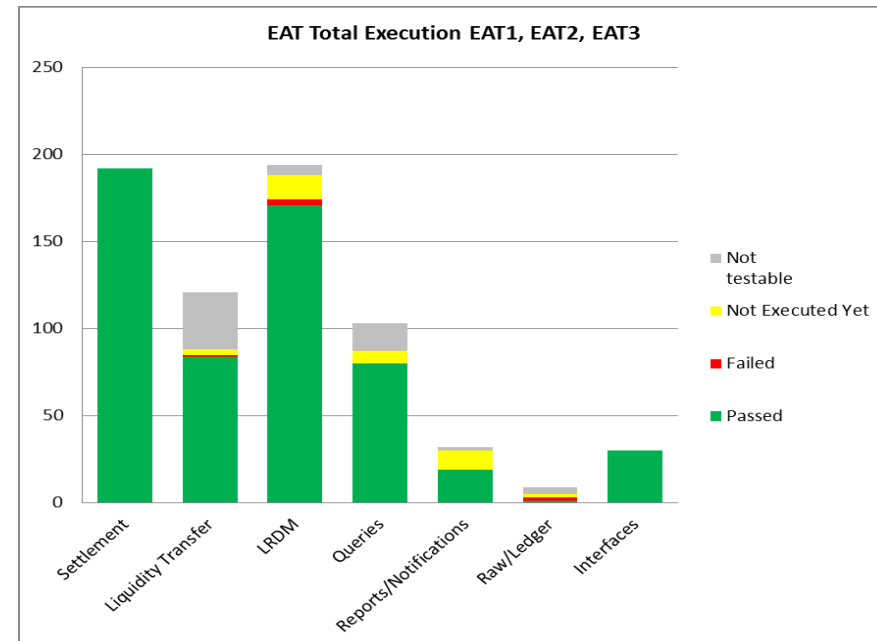
- The cumulative views on Requirements and Atomic Test Cases are shown below:

Domain	#URD	#ATCs	%total ATCs
Settlement	73	192	28.19%
Liquidity Transfer	16	121	17.77%
LRDM	27	194	28.49%
Queries	8	103	15.12%
Reports/Notifications	19	32	4.70%
Raw/Ledger	8	9	1.32%
Interfaces	30	30	4.41%
Total	181	681	



EAT cumulative testing execution status

Domain	#ATCs testable	Passed	%	Failed	%	Not Executed Yet	%
Settlement	192	192	100%	0	0%	0	0%
Liquidity Transfer	88	84	95%	1	1%	3	3%
LRDM	188	171	91%	3	2%	14	7%
Queries	87	80	92%	0	0%	7	8%
Reports/Notifications	30	19	63%	0	0%	11	37%
Raw/Ledger	5	1	20%	2	40%	2	40%
Interfaces	30	30	100%	0	0%	0	0%
Total	620	577	93%	6	1%	37	6%



93% of the testable test cases were passed

6 Test cases are failed

37 Test cases (6%) are still to be executed:

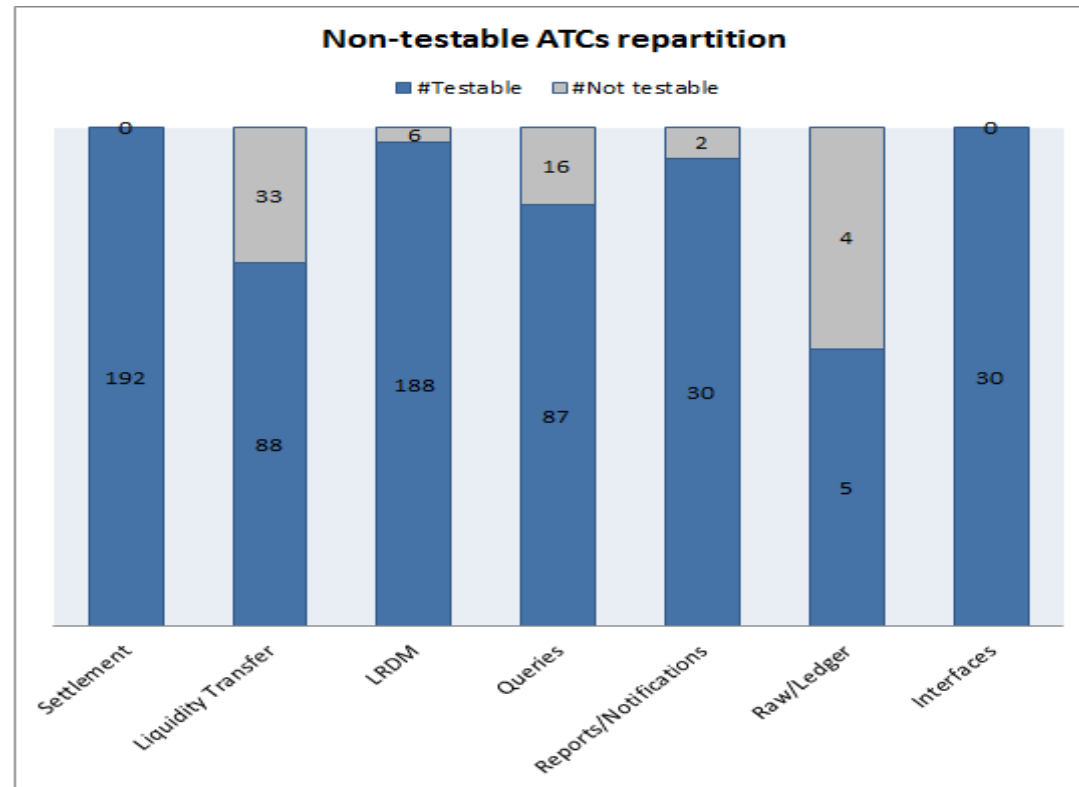
- 3 test cases in the Liquidity Transfer domain
- 14 in the LRDM domain
- 7 in the Query domain
- 13 in the Raw data/General Ledger/Report and Notification

The most of non executed test cases are related to the TIPS GUI: the initial setup of CRDM and of the reference data needed to access to the TIPS GUI, required more time than expected.

A **clarification note** will be issued by the Service Provider.

Non-testable requirements/test cases

Domain	#ATCs	#Testable	#Not testable	%Not testable
Settlement	192	192	0	0.00%
Liquidity Transfer	121	88	33	27.27%
LRDM	194	188	6	3.09%
Queries	103	87	16	15.53%
Reports/Notifications	32	30	2	6.25%
Raw/Ledger	9	5	4	44.44%
Interfaces	30	30	0	0.00%
Total	681	620	61	

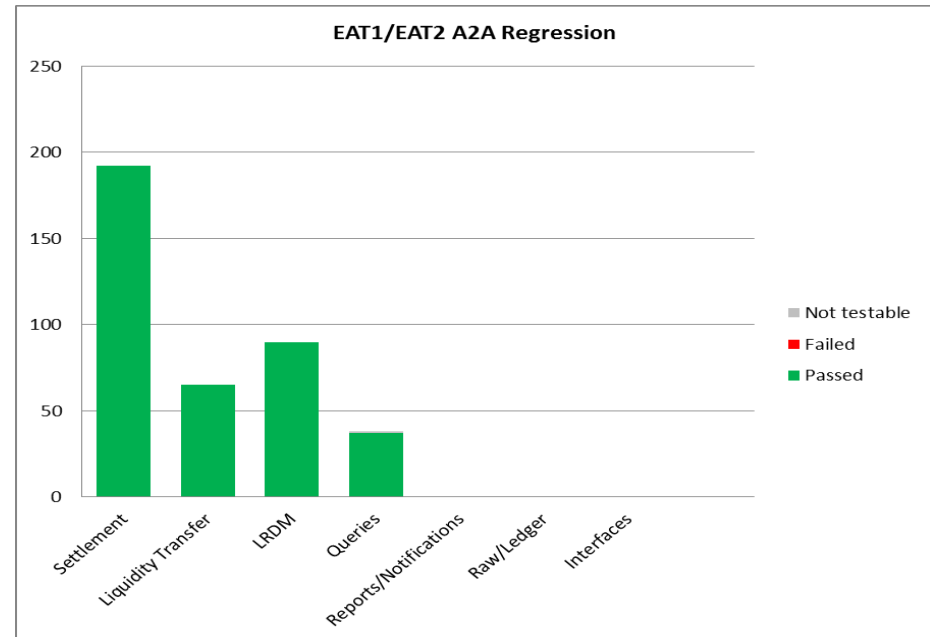


61 test cases have been classified as “not-testable” mainly for two reasons:

- Requirements/test cases that require a RTGS connected to EAT TIPS testing environment EAC. Not testable since no RTGS is connected to EAC.
- Requirements/test cases pertain to the TIPS Operator and therefore could not be executed by the EAT.

EAT3 non regression results

Domain	#ATCs	#ATCs EAT1/EAT2 Regression A2A	Passed	%	Failed	%	Not testable	%
Settlement	192	192	192	100.00%	0	0.00%	0	0.00%
Liquidity Transfer	121	65	65	100.00%	0	0.00%	0	0.00%
LRDM	194	90	90	100.00%	0	0.00%	0	0.00%
Queries	103	38	37	97.37%	0	0.00%	1	2.63%
Reports/Notifications	32						0	
Raw/Ledger	9						0	
Interfaces	30						0	
Total	681	385	384	99.74%	0	0.00%	1	0.26%



- Overall, 384 A2A non regression **test cases** were re-executed **successfully**.

EAT CRDM

- CRDM delivery was planned to be delivered on 31/07
- The initial EAT approach (ATA) was therefore anticipating only a partial completion by EAT3 milestone

Domain	#ATCs	Passed	%	Failed	%	Not Executed Yet	%
CRDM	127	124	97.64%	0	0.00%	3	2.36%

- Overall, 98% of the testable requirements/test cases were successfully executed
- Still 3 test cases to run
- There are also 37 not testable requirements/test cases linked to TIPS operators (EAT can not execute these test cases) and generic requirements that are also included in more specific requirements.
- A clarification note will be prepared by Service Provider on the way to correctly configure CRDM data for TIPS

Conclusion

- **EAT team has given the green light to the MIB for the start of the Pilot testing:**
 - All critical **functional test cases** for the start of the pilot testing have been **executed successfully**;
 - No defects with high criticality have been discovered during EAT;
 - A **resolution timeline** for all discovered defects with medium or low criticality is **available**;
 - A system test exit meeting took place on 21/8/2018 where the ECB and the 4CB jointly agreed that the test stage has been completed successfully along with the criteria given above.
- **A clarification note** will be prepared by the TIPS service provider on the way to correctly configure CRDM reference data for TIPS
- EAT team will **finalise** EAT team will finalise the testing of the few remaining CRDM and U2A test cases for TIPS.

Thank you for the attention!

The EAT team can be contacted
via the TIPS Project team

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www.ecb.europa.eu/paym

 **ECB: market infrastructure and payments**

Appendix A - Testing domains

- SETT - Settlement domain, (chapter 3 of URD) covering three sub-domains: (a) instant payments, (b) recalls and (c) investigation process
- LQMG - Liquidity management domain (chapter 4 of URD) all functionalities pertaining to liquidity transfers from and to a RTGS.
- LRDM - Local reference data management domain (chapter 5 of URD) all functionalities linked to the creation, update, deletion of static data needed for TIPS.
- QURY - Query domain (chapter 7 of URD), covering queries on account balances, CMB limits and payment transaction status.
- REPT - Report domain (chapter 6 of URD), all functionalities linked to the generation of statements of account turnover and statement of accounts.
- INTF - Interface domain (chapter 8 of URD), general requirements for communication with the TIPS platform in both U2A and A2A modes.
- OTHR - Other domain (chapter 9 of URD), other functionalities, namely raw data, general ledger and list of participants.