



TESTING ACTIVITIES FOR THE SSP RELEASE V11.0

Introduction

With reference to the [Eurosystem communication](#) on the content of the SSP release 11.0 as published on the ECB/TARGET2 Website on 26 September 2016, the present document specifies the testing requirements as well as the testing procedures applicable to this release. As mentioned in this former Eurosystem communication, the release 11.0 contains 3 new change requests affecting users requesting interoperability testing. Business day testing is also required for the Ancillary systems that will propose Instant payment settlement services, to verify the good functioning of their back-office application connected to TARGET2.

Changes as part of the release 11.0 and impact from SWIFT FIN standards release 2017

- CR-767: Instant payment Settlement in TARGET2-adaptation of ASI procedure 6 integrated
- CR-772 (SWIFT FIN standard release 2017 adaptation): new fields in payments user header in the context of GPI initiative (additional information below in the “Adaptation to SWIFT standards 2017”)¹.
- CR-759: Handling of leading and trailing blanks and “/” in A2A and U2A attributes (adaptation to T2S CR-576)

Requirements applicable to the testing activities for release 11.0, scheduled from 11 September until 3 November 2017

The Eurosystem defined the following test requirements for existing TARGET2 users as part of their recertification for the new release:

¹ Therefore, the CUST environment will be operated in “FUTURE” mode for some weeks to allow the users to test the new features (see test calendar)

- *Connectivity test:* TARGET2 participants will perform connectivity testing to verify the compliance with the forthcoming² ICM compatibility matrix (cfr annex 2).
- *Interoperability tests:* the Eurosystem defined which of these test cases are mandatory or conditional (cfr annex 3).
- *Business day tests:* A 3-week slot is foreseen to run business day testing tests. The Ancillary systems settling Instant payments with the new ASI procedure 6 real-time are invited to test their system with TARGET2 ASI/PM, possibly with other Ancillary system running also the ASI procedure 6 real-time, when inter-AS accounts will be defined in the respective Instant payment systems.. The organisation of such test is left to the individual Central Banks.
- *Free testing:* Users will have the possibility to run free tests in non-certification mode from the 11 September 2017 till the go live.

The test calendar for release 11.0 is presented in annex 1.

Bugs planned to be fixed

The Eurosystem is also planning to fix a number of pending bugs. The list of bugs which has an impact on users is provided below and should be seen as preliminary. Users will receive confirmation in due time of the correction of these bugs when the necessary tests have been successfully concluded.

Internal reference	Module ³	Bug description
PBI000000200689	PM	Mismatching between payments and MT950
PBI000000200714	SD	missing new branches for existing BICs in the update of the T2DIR
PBI000000200880	ICM	Reserve management screen - total of the end of day balance previous day not displayed in the RM screen
PBI000000201046	ICM	current balances for RM group members missing in screen Display Minimum Reserve

Test procedures: reminder

In general the structure of the tests, their organisation, the applicable procedures as well as the reporting lines will be kept identical to those previously in place for testing. In particular this means that:

² updated matrix will be published soon

³ PM=payment module, SD=Static data, ASI=Ancillary system interface, RM= Reserve management, IBP=Internet based participant, SF=Standing facilities, HAM=home account module, UHB=User handbook, CN =Contingency Network

- Users are invited to contact their respective Central Bank for any query related to their certification, to clarify the test requirements relevant to them and to report on their test results.
- Volume limitations exist in term of numbers of FIN or XML messages that users can send to the SSP.
- The test & training system follow either a restricted operating time (i.e. test timing) or an extended operating time (i.e. live/live20 timing). Information about the operating times is provided together with the testing calendar.
- Users will be given the possibility to run their certification activities in either current or future SWIFTNet FIN mode. Information about the SWIFTNet FIN mode is provided together with the testing calendar.
- Before being delivered to the users' community, the new SSP release will be thoroughly tested by the Eurosystem to ensure its compliance with the release specification.

For further information on the test procedures, please refer to the "Guide for TARGET2 User Testing".

ANNEX 1: TEST CALENDAR RELEASE 11.0

Week number/dates	34-35-36	36	37	38	39	40	41	42	43	44	45	46
	21/8-7/9	11/9-15/9	18/9-9	25/9-29/9	2/10-6/10	9/10-13/10	16/10-20/10	23/10-27/10	30/10-3/11	6/11-10/11	13/11-17/11	20/11

Testing phases	Acceptance testing by CBs of Release 11.0 new features impacting users	Connectivity/Interoperability tests					Business day ⁴	Adjustments if needed	Frozen period	Go-live of the release 11.0 on 13/11	Go-live of the SWIFT Strds 2017
		Free testing									
Operating timing	Live20 till 1/9, then Test timing	Test	Test	Test	Test	Test	Test	Test	Test	Test	N/A
SWIFT FIN mode	FU	CU ⁵	FU	FU	FU	FU	FU	FU	FU	FU	N/A

⁴ To allow more flexibility some business day testing might be organised by CBs already before the end of the connectivity/interoperability testing

⁵ One week in Current mode is required to test the configuration that will be running in the production environment from the 13 till 17 November 2017

ANNEX 2: LIST OF CONNECTIVITY TESTING APPLYING TO TARGET2 USERS⁶

Test-ID	Function	Type	Applicable to
CON-ICM	Access to ICM (for PM, HAM, SF and RM)	MAND	DP, AS, HAM SWIFT-based and internet-based participants
CON-PM1	Access to PM by sending an Interbank payment	MAND	DP, MAP (SWIFT-based participant only)
CON-HAM	Access to HAM as HAM account holder by sending an Interbank payment	COUS	HAM
CON-CBC	Access to HAM as CB customers by sending an Interbank payment	COUS	CBC (SWIFT-based participant only)

⁶ As defined in the Guide for User testing

ANNEX 3: LIST OF INTEROPERABILITY TEST CASES APPLYING TO TARGET2 USERS

As part of their certification to the new SSP release, existing users need to consider the test cases⁷ listed in the two tables below. While mandatory test cases always have to be run, conditional test cases only have to be run if applicable to the user.

The first table lists the new interoperability test cases, which were created or modified in the context of the new SSP release 11.0 (related to the GPI initiative new CUG and ASI procedure 6 real-time).

Test case	Function	Test category	Applicable to ⁸
Test cases linked to GPI initiative			
IOP-PM-115b	Receipt of a T2 GPII customer payment (MT103) from a direct participant	MAND	DP, MAP
IOP-PM-125b	Receipt of a T2 GPII customer payment (MT103+) from a direct participant	MAND	DP, MAP
IOP-PM-137B	Receipt of a T2 GPII interbank payment (MT202COV) from a direct participant	COUS	DP, MAP
Test cases linked to procedure real-time(6RT)			
IOP-AS-6RT-600	Successful settlement from the start of night-time settlement till the end of the daylight settlement	COUS	AS running ASI6RT
IOP-AS-6RT-610	Current order A2A on behalf of SB successful	COUS	AS running ASI6RT

⁷ A further description of the interoperability test cases can be found in the Annex 2 of the Guide to TARGET2 User Testing, published on the TARGET2 Website of the ECB.

⁸ DP: Direct participant
 MAP: Multi Adresse participant
 HAMP : HAM participant
 CBC : CB Customer
 AS: Ancillary system
 SB: Settlement Bank in an ancillary system using ASI
 GoA Mgr: Group of Account Manager
 Co Mgr: Co-manager

IOP-AS-6RT-630	Current order A2A on behalf of SB rejected due to lack of funds	COUS	AS running ASI6RT
IOP-AS-CROSS-600	Successful sending Cross-AS settlement from procedure 6RT to another 6RT	COUS	AS running ASI6RT
IOP-AS-CROSS-610	Successful sending Cross-AS settlement from procedure 6RT to an AS procedure 6 Interfaced	COUS	AS running ASI6RT
IOP-AS-CROSS-620	Successful reception Cross-AS settlement from procedure 6RT to another 6RT	COUS	AS running ASI6RT
IOP-AS-CROSS-630	Successful reception Cross-AS settlement from procedure 6 Interfaced to AS procedure 6RT	COUS	AS running ASI6RT
IOP-AS-SB-6RT-600	Current order A2A on behalf of SB successful	COUS	AS running ASI6RT
IOP-AS-SB-6RT-610	Current order A2A from SB successful	COUS	SB of ASI6RT
IOP-AS-SB-6RT-620	Current order A2A from SB unsuccessful due to lack of funds	COUS	SB of ASI6RT
IOP-AS-SB-6RT-630	Current order MT202 from SB successful	COUS	SB of ASI6RT
IOP-AS-SB-6RT-650	Current order MT202 from SB unsuccessful due to lack of funds	COUS	SB of ASI6RT
IOP-AS-SB-6RT-660	Current order U2A from SB successful	COUS	SB of ASI6RT
IOP-AS-SB-6RT-670	Standing order setup in U2A	COUS	SB of ASI6RT
IOP-AS-SB-6RT-680	Standing order setup in A2A	COUS	SB of ASI6RT

IOP-AS-SB-6RT-690	GetStandingOrder	COUS	SB of ASI6RT
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The second table lists all the existing interoperability test cases (i.e. those set up in the context of the TARGET2 migration), which have to be repeated in the context of each new SSP release as regression tests.

Test case	Function	Test category	Applicable to
IOP-PM-040	ICM consultation of a TARGET2 entry	MAND	DP, MAP
IOP-PM-110	Sending of a customer payment (MT103) to a direct participant using the routing information of the T2 directory	MAND	DP, MAP
IOP-PM-115	Receipt of a customer payment (MT103) from a direct participant	MAND	DP, MAP
IOP-PM-120	Sending of a customer payment (MT103+) to a direct participant using the routing information of the T2 directory	MAND	DP, MAP
IOP-PM-125	Receipt of a customer payment (MT103+) from a direct participant	MAND	DP, MAP
IOP-PM-130	Sending of an interbank payment (MT202) to a direct participant using the routing information of the T2 directory	MAND	DP, MAP
IOP-PM-135	Receipt of an interbank payment (MT202) from a direct participant	MAND	DP, MAP
IOP-PM-140	Sending of a direct debit message (MT204) to a direct participant using the routing information of the T2 directory	COUS	DP, MAP

IOP-PM-145	Receipt of a direct debit message (MT204) from a Central Bank	COUS	DP, MAP
IOP-PMB-120	Back-up contingency payment in favour of EURO1	COUS	DP involved in EURO1 settlement
IOP-T2SI-010	Sending of a T2/T2S Liquidity transfer via ICM from RTGS account to DCA	COUS	DP, MAP
IOP-T2SI-015	Sending of a T2/T2S Liquidity transfer via ICM from RTGS account to a non-existing DCA	COUS	DP, MAP
IOP-T2SI-020	Sending of a Liquidity transfer via XML from RTGS account to DCA	COUS	DP, MAP
IOP-T2SI-040	Sending of a Liquidity transfer via MT202 from RTGS account to DCA	COUS, MAND for VAS	DP (VAS), GoA Manager (VAS)
IOP-T2SI-050	Pull of a Liquidity transfer via ICM from T2S DCA account to T2 RTGS account	COUS, MAND for VAS	DP (VAS), GoA Manager (VAS)
IOP-T2SI-060	Pull of a Liquidity transfer via XML from T2S DCA to T2 RTGS account	COUS; MAND for VAS	DP (VAS), GoA Manager (VAS)
IOP-T2SI-070	Pull of a Liquidity transfer via MT202 from T2S DCA to T2 RTGS account	COUS; MAND for VAS	DP (VAS), GoA Manager (VAS)
IOP-PMB-130	Back-up contingency payment in favour of STEP2	COUS	DP involved in STEP2 pre-funding
IOP-PML-110	Reservation of liquidity for highly urgent payments during the day (current)	COUS	DP, MAP
IOP-PML-120	Reservation of liquidity for urgent	COUS	DP, MAP

	payments during the day		
IOP-PML-130	Cancellation of liquidity reserved for highly urgent payments during the day	COUS	DP, MAP
IOP-PML-140	Cancellation of liquidity reserved for urgent payments during the day	COUS	DP, MAP
IOP-PML-810	Reservation of liquidity for highly urgent payments during the day (virtual account)	COUS	GoAMgr for virtual account
IOP-PML-820	Reservation of liquidity for urgent payments during the day (virtual account)	COUS	GoAMgr for virtual account
IOP-PML-830	Cancellation of liquidity reserved for highly urgent payments during the day (virtual account)	COUS	GoAMgr for virtual account
IOP-PML-840	Cancellation of liquidity reserved for urgent payments during the day (virtual account)	COUS	GoAMgr for virtual account
IOP-PMQ-010	Get a list of transactions (A2A mode) (PM)	COUS	DP, MAP
IOP-PMQ-020	Get a delta set of transactions "new matching items" (A2A mode) (PM)	COUS	DP, MAP
IOP-PMQ-030	Get a delta set of transactions "modified items" (A2A mode) (PM)	COUS	DP, MAP
IOP-PMQ-040	Get a delta set of transactions "deleted items" (A2A mode) (PM)	COUS	DP, MAP
IOP-HAM-810	Sending of an customer payment (MT103) to another CB customer (same CB)	COUS	CBC
IOP-HAM-830	Sending of an interbank payment (MT202) to another CB customer (different CB)	COUS	CBC

IOP-HAM-840	Sending of an interbank payment (MT202) to PM (different participant, same CB)	COUS	CBC
IOP-HAM-850	Receipt of a customer payment (MT103+) from another CB customer (same CB)	COUS	CBC
IOP-HAM-860	Receipt of a customer payment (MT103) from a PM participant (same CB)	COUS	CBC
IOP-HAM-870	Receipt of an interbank transfer (MT202) from another CB customer (same CB)	COUS	CBC
IOP-AS-200	Real Time Settlement (no optional mechanism)	COUS	AS (SP2)
IOP-AS-210	Real Time Settlement – bilateral balances	COUS	AS (SP2)
IOP-AS-220	Real Time Settlement - multilateral balances	COUS	AS (SP2 with technical account)
IOP-AS-300	Liquidity Transfer initiated by AS	COUS	AS (SP3 with RTGS accounts)
IOP-AS-310	Bilateral Settlement (batch)	COUS	AS (SP3 with RTGS accounts)
IOP-AS-320	Bilateral Settlement (batch) multilateral balances	COUS	AS (SP3 with technical account)
IOP-AS-325	Bilateral Settlement (batch) unsuccessful settlement – multilateral balances	COUS	AS (SP3 with technical account)
IOP-AS-330	Bilateral Settlement (batch) – bilateral balances	COUS	AS (SP3 with mirror account)

IOP-AS-410	Standard Multilateral settlement (batch) interfaced model	COUS	AS (SP4 with/without guarantee account)
IOP-AS-510	Simultaneous multilateral settlement (batch)	COUS	AS (SP5 (with/without guarantee account))
IOP-AS-INTF-610	Settlement with dedicated liquidity - interfaced model	COUS	AS (SP6 daylight interfaced settlement)
IOP-AS-INTF-620	Settlement with dedicated liquidity - interfaced model	COUS	AS (SP6 night-time interfaced model).
IOP-AS-CROSS-620	Cross-AS settlement from interfaced AS to interfaced AS	COUS	AS1 proc.6 using Cross-DVP settlement interfaced to interfaced