

TIPS CERTIFICATION TEST CASES

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INTRODUCTION

This document contains the certification test approach and a detailed description of test cases for the certification testing of TIPS participants.

1 CERTIFICATION TEST APPROACH

The set of test cases in this document are mandatory for the certification of TIPS Participants and are applicable based on the intended functionality used by each TIPS Participants in Production.

TIPS Participants must run the following tests:

- PSPs already in Production that will commence funding an Ancillary System must only perform the test related to participants of an Ancillary System (i.e. one case only, in section 2.2)
- A new PSP who will not have a relationship with an Ancillary System must only perform the cases envisaged for TIPS DCA owners, all gathered in section 2.1
- New PSPs that will use an Ancillary System must perform the complete set of PSP certification tests (all cases of section 2.1, plus one case of section 2.2)
- Ancillary Systems must perform the set of AS tests (e.g. defunding of the AS Technical Account), all gathered in section 2.2
- PSPs (including PSPs that will use an Ancillary System) must perform the set of test cases in section 2.3 (applicable to TIPS Participant PSP) to process cross-currency payments for the associated TIPS account
- PSPs acting as Leg Entry PSP and/or Leg Exit PSP must perform the tests applicable to Leg Entry PSP/ Leg Exit PSP (test cases in section 2.3) to have the cross-currency flag activated and/or the record in the mapping table (for CR-0065) in order to accept cross-

currency payments for the associated TIPS account, as well as interested in the usage of the cross-currency functionality as Leg Entry PSP

Participants must progress logically through the tests and attach all the evidence gathered in the certification testing template.

These tests are not an exhaustive set of test cases for participants. In some cases, the National Central Bank (NCB) may provide a set of authorisation test cases to be carried out. The tests must be carried out in the TIPS Certification Test environment (UTEST).

Participants may carry out the tests and submit the evidence at any stage during their testing period. During this period the participants may be asked to report on their progress.

The certification must be completed before the end of User Testing in order for the new participant to progress to TIPS production. The new participant could perform the certification in two steps:

- 1) to certify for the receipt of instant payments as beneficiary PSP and
- 2) to certify for sending of instant payments originator PSP.

The Participants will submit the evidence (screenshots and files) to their National Service Desk, which will issue the TIPS certificate after the successful evaluation of the provided evidence.

2 CERTIFICATION TEST CASES

Test ID	System	Connectivity Mode	Test Case name	Relevant for
1	TIPS	U2A	Blocking/Unblocking of a TIPS CMB	TIPS Participant (PSP)
2	TIPS	U2A	Send a liquidity transfer from TIPS to CLM	TIPS Participant (PSP)
3	TIPS	A2A	Send an instant payment message (pacs.008); show a payment success message (pacs.002)	TIPS Participant (PSP)

4	CRDM	U2A	Set up a report configuration and receive the report	TIPS Participant (PSP)
5	TIPS	A2A	Accept an instant payment (pacs.002); show updated balance (camt.004)	TIPS Participant (PSP)
6	TIPS	A2A	Send a Recall (camt.056)	TIPS Participant (PSP)
7	TIPS	A2A	Accept a Recall (pacs.004); show updated balance (camt.004)	TIPS Participant (PSP)
8	TIPS	A2A	Send an Investigation (pacs.028); show payment success message (pacs.002)	TIPS Participant (PSP)
9	TIPS	U2A	Update Limit	TIPS Participant (PSP)
10	TIPS	A2A	Update Limit	TIPS Participant (PSP)
11	TIPS	U2A	Send a liquidity transfer from TIPS to RTGS	TIPS Participant (PSP)
12	TIPS	U2A	Querying transactions via U2A	TIPS Participant (PSP)
13	TIPS	A2A/U2A	PSP funding AS technical account	TIPS Participants having a business relationship with an Ancillary System
14	TIPS	A2A/U2A	Ancillary System defunding AS technical account	Ancillary System
15	TIPS	A2A/U2A	Processing of instant payment between two participants of two different Ancillary Systems	Ancillary System
16	TIPS	A2A/U2A	Processing of instant payment between a participant of an Ancillary System and a TIPS participant	Ancillary System
17	TIPS	A2A/U2A	Processing of recall answer between two participants of two different Ancillary Systems	Ancillary System
18	TIPS	A2A/U2A	Processing of recall answer between a participant of an Ancillary System and a TIPS participant	Ancillary System
19a	TIPS	A2A	[CR-0064] Send a cross-currency instant payment message with the Leg-Exit PSP as instructed agent; show a payment	TIPS Participant (PSP) as Originator

			success message	
19b	TIPS	A2A	[CR-0065] Send a cross-currency instant payment message with the Leg-Exit PSP as instructed agent; show a payment success message	TIPS Participant (PSP) as Originator
20	TIPS	A2A	Accept an instant payment from the Leg-Entry PSP; show updated balance	TIPS Participant (PSP) as Beneficiary
21	TIPS	A2A	Send an Investigation for cross currency transaction; show payment success message	TIPS Participant (PSP) as Originator
22	TIPS	A2A	[CR-0064 only] Send a cross-currency instant payment message as Leg Entry PSP; show a payment success message	Leg Entry PSP
23a	TIPS	A2A	Accept an instant payment as Leg Exit PSP; show updated balance (CR-0064)	Leg Exit PSP
23b	TIPS	A2A	Accept an instant payment as Leg Exit PSP; show final confirmation after completion of the cross-currency transaction (CR-0065)	Leg Exit PSP
24	TIPS	A2A	[CR-0065 only] Authorise a transaction as Entry Leg PSP (in the destination currency)	Leg Entry PSP
25	TIPS	U2A	Querying cross-currency payment transactions via U2A	TIPS Participant (PSP)
26	TIPS	A2A	Reject an instant payment (pacs.002);	TIPS Participant (PSP) as Beneficiary / Leg Exit PSP / Leg Entry PSP

2.1 Test cases where no AS Technical Account is involved

TIPS_CERT_01 - Blocking of a TIPS CMB

Test ID	TIPS_CERT_01
Test case name	Blocking/Unblocking of a TIPS CMB
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	U2A
Description	The CMB can be blocked/unblocked for crediting and/or debiting directly in TIPS and the relevant data changes will be taken into account in real-time on a 24/7/365 basis. The operations can be carried out by an authorised user of the TIPS Actor holding the Account, of the Central Bank of the TIPS Participant holding the Account, of the Instructing Party authorised by the TIPS participant or by an authorised user of the TIPS Operator (only in contingency situations).
Prerequisite	The relevant Account or the Party holding the Account are not blocked. The CMB has been set up in CRDM and already propagated to TIPS.
Expected results	Depending on the chosen option, the CMB status takes one of the values: Blocked for debiting; Blocked for crediting; Blocked for crediting/debiting.
Test evidence	Screenshots of blocking and unblocking
Relevant documentation	TIPS UHB 4.2.3.2 CMB Blocking – Change Status Screen

TIPS_CERT_02 - Send a liquidity transfer from TIPS to CLM

Test ID	TIPS_CERT_02
Test case name	Send a liquidity transfer from TIPS to CLM
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	U2A
Description	TIPS supports Central Bank Money liquidity transfers between accounts denominated in the same currency from TIPS to CLM.
Prerequisite	The Actor is entitled to launch the Outbound Liquidity Transfer.
Expected results	The submitted Liquidity Transfer is settled and the balance of the concerned account is adjusted accordingly.
Test evidence	Screenshots
Relevant documentation	TIPS UHB 4.4.1.1 Liquidity Transfer – New screen, 4.1.1.1 Query account balance and status – Search screen

TIPS_CERT_03 - Send an instant payment message; show a payment success message

Test ID	TIPS_CERT_03
Test case name	Send an instant payment message (pacs.008); show a payment success message (pacs.002)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	<p>The settlement process begins with an Instant Payment transaction message (pacs.008) submitted by the Originator side to TIPS. After several validity checks, if no errors are detected the beneficiary side shall respond to TIPS with a beneficiary reply, confirming the payment (pacs.002)</p> <p>Consequently, TIPS will settle the reserved amount, removing the cash posting and updating the cash balances of the Originator and Beneficiary Participant accounts.</p> <p>The payment confirmation (pacs.002) is sent to the originator participant.</p>
Prerequisite	The originator participant has the necessary cash balance on the account to be debited.
Expected results	The Originator has successfully sent an instant payment message (pacs.008) and has received from TIPS the confirmation message (pacs.002) sent back by the Beneficiary when accepting the payment.
Test evidence	A copy of pacs.008 and pacs.002 messages
Relevant documentation	<p>TIPS UDFS 3.3.2.1.3 FIToFICustomerCreditTransfer (pacs.008.001.08)</p> <p>TIPS UDFS 3.3.2.1.1FIToFIPaymentStatusReport (pacs.002.001.10)</p>

TIPS_CERT_04 - Set up a report configuration and receive the report

Test ID	TIPS_CERT_04
Test case name	Set up a report configuration and receive the report
Applicable to	TIPS Participant (PSP)
Application	CRDM
Connectivity mode	U2A/A2A
Description	Create a new report to receive specific information about dynamic or reference data through a predefined report. Each report is periodically created.
Prerequisite	The report configuration was not set up already.
Expected results	The system confirms the creation of the configuration
Test evidence	Screenshot of the configuration setup and of the report
Relevant documentation	CRDM UHB 2.3.4.7 Report Configuration – New/Edit Screen, 2.3.4.6 Report Configuration – Details Screen

TIPS_CERT_05 - Accept an instant payment; show updated balance

Test ID	TIPS_CERT_05
Test case name	Accept an instant payment (pacs.002); show updated balance (camt.004), TIPS MEPT header of pacs.002 or in camt.053)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	<p>Once the instant payment transaction was forwarded by TIPS to the Beneficiary participant, the last one should reply with a confirmation message (pacs.002) within a standard, configurable timeout period and after that receive from TIPS a confirmation message (pacs.002) as a final confirmation for processing of the pacs.002 received from the Beneficiary participant.</p> <p>After receiving a final confirmation message (pacs.002) from TIPS, the Beneficiary can query the system (camt.003) to get updated information on the account balance, check the balance in TIPS MEPT header of pacs.002 or reconcile the balance when report camt.053 is received</p>
Prerequisite	An instant payment has been sent to the participant. And the Participant has configured reception of report.
Expected results	Participant has received a pacs.002 final confirmation message from TIPS and optionally camt.004 or camt.053 report message showing the updated balance.
Test evidence	A copy of pacs.002 showing TIPS MEPT header, a copy of camt.004 or camt.053
Relevant documentation	<p>TIPS UDFS 3.3.2.1.1 FIToFIPaymentStatusReport (pacs.002.001.10)</p> <p>TIPS UDFS 3.3.2.2.2 ReturnAccount (camt.004.001.07)</p>

TIPS_CERT_06 - Send a Recall

Test ID	TIPS_CERT_06
Test case name	Send a Recall (camt.056)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	The Originator Participant or Instructing Party of a previously settled Instant Payment transaction (the Recall Assigner) can send to TIPS a specific recall message in order to request the return of funds previously settled.
Prerequisite	The Assigner has previously settled an Instant Payment.
Expected results	TIPS has forwarded the recall request related to a formerly settled Instant Payment transaction to the relevant recipient.
Test evidence	A copy of camt.056
Relevant documentation	TIPS UDFS R2024.NOV 3.3.2.2.15 FIToFIPaymentCancellationRequest (camt.056.001.08)

TIPS_CERT_07 - Accept a Recall; show updated balance

Test ID	TIPS_CERT_07
Test case name	Accept a Recall (pacs.004); show updated balance (camt.004, TIPS MEPT header of pacs.004 or in camt.053)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	In case a Recall is accepted by the Assignee, the Payment Return message (pacs.004) is sent by the Assignee Participant as a confirmation for a Recall instructed by the Assigner Participant. After processing the request, TIPS forwards the Payment Return message (pacs.004) to the Assigner Participant. The Assignee Participant can query the system to get information on the account balance and status (camt.003), check the balance in TIPS MEPT header of pacs.004, or reconcile the balance when report camt.053 is received.
Prerequisite	A Recall has been sent from an Originator party who previously settled an Instant Payment.
Expected results	<p>The Payment Return message (pacs.004) is sent by the Assignee who accepts the recall request</p> <p>The Assignee Participant can query the system to get information on the account balance and status (camt.003), check the balance in TIPS MEPT header of pacs.004, or reconcile the balance when report camt.053 is received.</p>
Test evidence	A copy of pacs.004 message showing TIPS MEPT header (which is sent by Assignee), camt.004 or camt.053

Relevant documentation	TIPS UDFS 3.3.2.1.2 PaymentReturn (pacs.004.001.09) TIPS UDFS 3.3.2.2.2 ReturnAccount (camt.004.001.07)
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TIPS_CERT_08 - Send an Investigation; show payment success message

Test ID	TIPS_CERT_08
Test case name	Send an Investigation (pacs.028); show payment success message (pacs.002)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	The Participant can start the investigation process on a previously instructed Instant Payment Transaction. The Payment Status Request message (pacs.028) allows instructing TIPS for retrieving the status of a previously submitted Instant Payment Transaction.
Prerequisite	An Instant Payment transaction has been already submitted and processed by TIPS.
Expected results	The participant is able to initiate an investigation process and the system will return a payment status report message (pacs.002).
Test evidence	A copy of pacs.028 and of pacs.002
Relevant documentation	TIPS UDFS 3.3.2.1.4 FIToFIPaymentStatusRequest (pacs.028.001.03) TIPS UDFS 3.3.2.1.1 FIToFIPaymentStatusReport (pacs.002.001.10)

TIPS_CERT_09 - Update Limit

Test ID	TIPS_CERT_09
Test case name	Update Limit

Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	U2A
Description	Participants can update the limit related to CMB falling under their data scope. When a CMB limit is modified, the headroom of the CMB is updated accordingly.
Prerequisite	The Participant is allowed to adjust the CMB limit.
Expected results	The CMB limit is displayed with the new amount.
Test evidence	Screenshot
Relevant documentation	CRDM UHB 2.3.2.5 Limit – New/Edit Screen

TIPS_CERT_10 - Update Limit

Test ID	TIPS_CERT_10
Test case name	Update Limit
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	Participants can request an immediate change (camt.011) to the allowed Limit on a specific account for a CMB user.
Prerequisite	The Participant is allowed to adjust the CMB limit.
Expected results	The new limit was applied to CMB and the Participant has received a Modify Limit message (camt.025).

Test evidence	A copy camt.011 and camt.025 message
Relevant documentation	TIPS UDFS 3.3.2.2.5 ModifyLimit (camt.011.001.07) TIPS UDFS 3.3.2.2.7 Receipt (camt.025.001.05)

TIPS_CERT_11 - Send a liquidity transfer from TIPS to RTGS

Test ID	TIPS_CERT_11
Test case name	Send a liquidity transfer from TIPS to RTGS
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	U2A
Description	TIPS supports Central Bank Money liquidity transfers between accounts denominated in the same currency from TIPS to an RTGS System.
Prerequisite	The Actor is entitled to launch the Outbound Liquidity Transfer.
Expected results	The submitted Liquidity Transfer is settled and the balance of the concerned account is adjusted accordingly.
Test evidence	Screenshots
Relevant documentation	TIPS UHB 4.4.1.1 Liquidity Transfer – New screen, 4.1.1.1 Query account balance and status – Search screen

TIPS_CERT_12 - Querying transactions via U2A

Test ID	TIPS_CERT_12
Test case name	Querying payment transactions via U2A
Applicable to	TIPS Participant (PSP)

Application	TIPS
Connectivity mode	U2A
Description	<p>The participant launches queries on search screen and get detailed information on the status of the relevant payment transaction in display screen.</p> <p>The participant launches queries on Advanced search screen/list screen and get detailed information on the status of the relevant payment transaction in display screen and afterwards, export the results.</p>
Prerequisite	The Actor has required privileges. Along with this, the actor has sent or received several instant payments during the last days/months (depending on the tested timeframe).
Expected results	The participant is able to see the relevant payment transaction in display screen and able to export the result.
Test evidence	Screenshots and the exported file
Relevant documentation	TIPS UHB 4.1.4.1 Query Payment transaction – Search screen, 4.1.4.2 Query Payment transaction – Display screen, 4.1.4.3 Query Payment transaction – Advanced Search/List screen, 4.1.4.4 Advanced Payment transaction query – Display screen

2.2 Test cases where an AS Technical Account is involved

TIPS_CERT_13 - PSP funding AS technical account

Test ID	TIPS_CERT_13
Test case name	PSP funding AS technical account (Intra-service liquidity transfer from a TIPS DCA to an AS Technical account)
Applicable to	TIPS Participants who have a business relationship with an Ancillary System

Application	TIPS
Connectivity mode	A2A/U2A
Description	<p><u>U2A</u></p> <p>In the TIPS GUI the user accesses the screen Liquidity Transfer and fills out the mandatory fields in order to transfer liquidity from its TIPS DCA (debited) to the AS technical account (credited).</p> <p><u>A2A</u></p> <p>A Liquidity Credit Transfer message (camt.050) is sent to TIPS in order to transfer liquidity from the participant's TIPS DCA to the AS technical account. This liquidity transfers from the TIPS DCAs to the AS Technical accounts can be instructed by the Ancillary Systems who are allowed to send the LT from the TIPS DCA on behalf of the PSP.</p>
Prerequisite	<p>There is balance on the TIPS DCA.</p> <p>TIPS DCA and the AS Technical account are denominated in the same currency.</p> <p>The PSP subscribed for the receipt of camt.054 – BankToCustomerDebitCreditNotification message for debit notification.</p> <p>PSPs who wish to have an AS perform this test on their behalf must ensure that they have granted the liquidity manager role to the AS.</p> <p>In this case, the Ancillary System is acting on behalf of the PSP who funds the AS Technical Account. The user must have the relevant privileges to transfer liquidity from its TIPS DCA to the AS technical account via TIPS GUI, and to query the Liquidity Transfer status. Information on privileges can be found in the UDFS.</p>
Expected results	The TIPS DCA is debited as the AS technical account is credited by the amount specified on the TIPS GUI or on the camt.050 message.

	<p><u>U2A</u></p> <p>The user can verify that the TIPS DCA balance has decreased in the TIPS DCA screen in the TIPS GUI.</p> <p><u>A2A</u></p> <p>The PSP, or the AS technical account owner if he instructed the LT on behalf of the PSP, receives a camt.025 – Receipt message reporting a “RCON” Status Code confirming the execution of the LT. The PSP receives also a camt.054 as debit notification.</p>
Test evidence	<p><u>U2A</u></p> <p>Screenshot of the TIPS GUI Liquidity Transfer status (via Query Liquidity transfer status screen), showing that the Liquidity Transfer has been successfully executed.</p> <p><u>A2A</u></p> <p>Attachment of the camt.025 – Receipt message in xml format.</p>
Relevant documentation	<p>TIPS UHB . – 4.4.1 Liquidity Transfer functionality</p> <p>TIPS UHB – 5.1.1 Query Account Balance and Status</p> <p>TIPS UHB – 4.1.3 Query Liquidity transfer status</p>

TIPS_CERT_14 - Ancillary System defunding AS technical account

Test ID	TIPS_CERT_14
Test case name	Ancillary System defunding AS technical account (Intra-service liquidity transfer from an AS Technical account to a TIPS DCA)
Applicable to	Ancillary System
Application	TIPS
Connectivity	A2A/U2A

mode	
<p>Description</p>	<p><u>U2A</u></p> <p>In the TIPS GUI the user accesses the screen Liquidity Transfer and fills out the mandatory fields in order to transfer liquidity from an Ancillary System technical account (debited) to a TIPS DCA (credited).</p> <p><u>A2A</u></p> <p>A Liquidity Credit Transfer message (camt.050) is sent to TIPS in order to transfer liquidity from the Ancillary System technical account to a participant's TIPS DCA.</p>
<p>Prerequisite</p>	<p>There is a balance on the AS Technical account.</p> <p>TIPS DCA and the AS Technical account are denominated in the same currency.</p> <p>The Ancillary System subscribed for the receipt of camt.054 – BankToCustomerDebitCreditNotification message for debit notification.</p> <p>The user of the Ancillary System has the relevant role to transfer liquidity from the Ancillary System technical account to a TIPS DCA, and to query the Liquidity Transfer status. Information on privileges can be found in the UDFS.</p>
<p>Expected results</p>	<p>The TIPS DCA is credited as the Ancillary System technical account is debited by the amount specified on the TIPS GUI or on the camt.050 message.</p> <p><u>U2A</u></p> <p>The AS user can verify that the AS Technical Account balance has decreased in the Query Account balance screen in the TIPS GUI.</p> <p><u>A2A</u></p> <p>A camt.025 – Receipt message reporting a “RCON” Status Code confirming the execution of the LT is received by the Ancillary System</p>

	together with a camt.054 - BankToCustomerDebitCreditNotification message as debit notification.
Test evidence	<p><u>U2A</u></p> <p>Screenshot of the TIPS GUI Liquidity Transfer status (via Query Liquidity transfer status screen), showing that the Liquidity Transfer has been successfully executed.</p> <p><u>A2A</u></p> <p>Attachment of the camt.025 – Receipt message in xml format.</p>
Relevant documentation	<p>TIPS UHB – 4.4.1 Liquidity Transfer</p> <p>TIPS UHB – 5.1.1 Query Account Balance and Status</p> <p>TIPS UHB – 4.1.3 Query Liquidity transfer status</p>

TIPS_CERT_15 - Processing of instant payment between two participants of two different Ancillary Systems

Test ID	TIPS_CERT_15
Test case name	Processing of instant payment between two participants of two different Ancillary Systems
Applicable to	Ancillary System
Application	TIPS
Connectivity mode	A2A / U2A
Description	<ol style="list-style-type: none"> 1. PSP A sends a SCT Inst instruction to the Ancillary System A (A2A). The instant payment's beneficiary is PSP B, operating via Ancillary System B. 2. After internal checking, Ancillary System A sends the instant payment to TIPS.

Prerequisite	<p>PSP A is a participant in Ancillary System A and uses its technical account for settling instant payments.</p> <p>PSP B is a participant in Ancillary System B and uses its technical account for settling instant payments.</p> <p>PSP A has funds in the Ancillary System A technical account.</p> <p>PSP A is allowed to send instant payments.</p> <p>User of PSP A has necessary privileges for querying on the instant payment status in the TIPS GUI (if the user plans to use the TIPS GUI for the providing of evidences). Information on privileges can be found in the UDFS.</p>
Expected results	<p>Instant payment is successfully settled.</p> <p>Ancillary System A's technical account is debited.</p> <p>Ancillary System B's technical account is credited.</p> <p>The Ancillary Systems receive the pacs.002 from TIPS confirming the settlement on their technical accounts.</p>
Test evidence	<p><u>U2A</u></p> <p>Screenshot of the TIPS GUI instant payment screen, showing the details of the instant payment between the technical accounts with status "settled".</p> <p><u>A2A</u></p> <p>Attachment of the Payment Status Report message (pacs.002) from TIPS to the Ancillary System, in xml format.</p>
Relevant documentation	<p>TIPS UHB – 4.1.4 Query Payment transaction</p> <p>TIPS UDFS – 3.3.2.1.3 FIToFICustomerCreditTransfer (pacs.008.001.08)¹</p>

¹ If PSP A plans to use pacs.008 for the SCT Inst instruction

	TIPS UDFS – 3.3.2.1.1 FIToFIPaymentStatusReport (pacs.002.001.10)
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TIPS_CERT_16 - Processing of instant payment between a participant of an Ancillary System and a TIPS participant

Test ID	TIPS_CERT_16
Test case name	Processing of instant payment between a participant of an Ancillary System and a TIPS participant
Applicable to	Ancillary System
Application	TIPS
Connectivity mode	A2A / U2A
Description	<ol style="list-style-type: none"> 1. PSP A sends an SCT Inst instruction to the respective Ancillary System (Ancillary System A) in A2A. The instant payment's beneficiary is PSP B. 2. After internal checking, Ancillary System A sends the instant payment to TIPS.
Prerequisite	<p>PSP A is a participant in Ancillary System A and uses its technical account for settling instant payments.</p> <p>PSP B is a TIPS Participant with a TIPS DCA and settles its instant payments through their own TIPS DCA.</p> <p>PSP A has funds in the Ancillary System A technical account.</p> <p>PSP A is allowed to send instant payments.</p> <p>User of PSP A has necessary privileges for querying on the instant payment status in the TIPS GUI (if the user plans to use the TIPS GUI for the providing of evidences). Information on privileges can be found in the UDFS.</p>

Expected results	<p>Instant payment is successfully settled.</p> <p>Ancillary System A's technical account is debited.</p> <p>PSP B's TIPS DCA position is updated (credited).</p> <p>Ancillary System A and PSP B receive a Payment Status Report message (pacs.002) from TIPS stating the successful settlement of the instant payment.</p>
Test evidence	<p><u>U2A</u></p> <p>Screenshot of the TIPS GUI instant payment screen, showing the details of the instant payment between the technical account and the TIPS DCA with status "settled".</p> <p><u>A2A</u></p> <p>Attachment of the Payment Status Report message (pacs.002) received by the Ancillary System from TIPS, in xml format.</p>
Relevant documentation	<p>TIPS UHB – 4.1.4 Query Payment transaction</p> <p>TIPS UDFS – 3.3.2.1.3 FIToFICustomerCreditTransfer (pacs.008.001.08)²</p> <p>TIPS UDFS – 3.3.2.1.1 FIToFIPaymentStatusReport (pacs.002.001.10)</p>

TIPS_CERT_17 - Processing of recall answer between two participants of two different Ancillary Systems

Test ID	TIPS_CERT_17
Test case name	Processing of recall answer between two participants of two different Ancillary Systems
Applicable to	Ancillary System

² If PSP A plans to use pacs.008 for the SCT Inst instruction

Application	TIPS
Connectivity mode	A2A / U2A
Description	<ol style="list-style-type: none"> 1. PSP A sends a recall request to the respective Ancillary System (Ancillary System A) in A2A 2. After internal checking, Ancillary System A sends the recall request to TIPS. 3. After validation, TIPS sends the recall request to Ancillary System B. 4. After internal checking, Ancillary System B sends the recall request to PSP B for answering. 5. PSP B answers positively to the recall request to Ancillary System B, agreeing upon the refund. 6. Ancillary System B sends pacs.004 to Ancillary System A and Technical account B is debited and A credited
Prerequisite	<p>PSP A is a participant in Ancillary System A and uses its technical account for settling instant payments.</p> <p>PSP B is a participant in Ancillary System B and uses its technical account for settling instant payments.</p> <p>PSP A is the originator of a previously settled instant payment with PSP B.</p> <p>PSP B has funds in the Ancillary System B technical account.</p>
Expected results	<p>The Instant payment (refund) is successfully settled.</p> <p>Ancillary System A's technical account is credited.</p> <p>Ancillary System B's technical account is debited.</p> <p>Ancillary System A receives pacs.004 and Ancillary System B receive a Payment Status Report message (pacs.002) stating the successful</p>

	settlement of the instant payment.
Test evidence	<p><u>U2A</u></p> <p>Screenshot of the TIPS GUI instant payment screen, showing the details of the instant payment from Ancillary System B Technical account to Ancillary System A Technical account with status “settled”.</p> <p><u>A2A</u></p> <p>Attachment of the payment return pacs.004 message received by Ancillary System A, in xml format.</p>
Relevant documentation	<p>TIPS UHB – 4.1.4 Query Payment transaction</p> <p>TIPS UDFS – 3.3.2.2.15 FIToFIPaymentCancellationRequest (camt.056.001.08)³</p> <p>TIPS UDFS – 3.3.2.1.1 FIToFIPaymentStatusReport (pacs.002.001.10)</p> <p>TIPS UDFS – 3.3.2.1.2 PaymentReturn (pacs.004.001.09)</p>

TIPS_CERT_18 - Processing of recall answer between a participant of an Ancillary System and a TIPS participant

Test ID	TIPS_CERT_18
Test case name	Processing of recall answer between a participant of an Ancillary System and a TIPS participant
Applicable to	Ancillary System
Application	TIPS
Connectivity mode	A2A / U2A

³ If PSP A plans to use camt.056 for the recall request

Description	<ol style="list-style-type: none"> 1. PSP A sends a recall request to the respective Ancillary System (Ancillary System A) in A2A. 2. After internal checking, Ancillary System A sends recall request to TIPS. 3. After validation, TIPS sends the recall request to PSP B. 4. PSP B answers positively to the recall request, agreeing upon the refund. 5. The recall is settled
Prerequisite	<p>PSP A is a participant in Ancillary System A and uses its technical account for settling instant payments.</p> <p>PSP B has a TIPS DCA for settling instant payments.</p> <p>PSP A is the originator of a previously settled instant payment with PSP B.</p> <p>PSP B has funds in its TIPS DCA.</p>
Expected results	<p>The Instant payment (refund) is successfully settled.</p> <p>Ancillary System A's technical account is credited.</p> <p>PSP B's TIPS DCA is debited.</p> <p>Ancillary System A receives the payment return message pacs.004 and PSP B receive a Payment Status Report message (pacs.002) stating the successful settlement of the instant payment.</p>
Test evidence	<p><u>U2A</u></p> <p>Screenshot of the TIPS GUI instant payment screen, showing the details of the instant payment between the PSP B TIPS DCA and the Ancillary System A Technical account with status "settled".</p> <p><u>A2A</u></p> <p>Attachment of the Payment return message (pacs.004) received by Ancillary System A from TIPS, in xml format.</p>

Relevant documentation	<p>TIPS UHB – 4.1.4 Query Payment transaction</p> <p>TIPS UDFS – 3.3.2.2.15 FIToFIPaymentCancellationRequest (camt.056.001.08)⁴</p> <p>TIPS UDFS – 3.3.2.1.2 PaymentReturn (pacs.004.001.09)</p> <p>TIPS UDFS – 3.3.2.1.1 FIToFIPaymentStatusReport (pacs.002.001.10)</p>
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⁴ If PSP A plans to use camt.056 for the recall request

2.3 Test cases for cross-currency transactions

TIPS Participant (PSP)

TIPS_CERT_19a – [CR-0064] Send a cross-currency instant payment message with the Leg-Exit PSP as instructed agent; show a payment success message

Test ID	TIPS_CERT_19
Test case name	Send an instant payment message (pacs.008.XCY) filling the instructed agent/intermediary agent field with the Leg Exit PSP (Direct or Indirect); show a payment success message (pacs.002.XCY).
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	<p>The settlement process begins with an Instant Payment transaction message (pacs.008.XCY) submitted by the Originator side to TIPS.</p> <p>The Instant Payment transaction can be sent to a directly connected Leg Exit PSP (Instructed agent) or as indirectly connected Leg Exit PSP (Intermediate agent).</p> <p>After several validity checks, if no errors are detected the Leg Exit PSP shall respond to TIPS with a beneficiary reply, confirming the payment (pacs.002.XCY)</p> <p>Consequently, TIPS will settle the reserved amount, removing the cash posting and updating the cash balances of the Originator Participant and Leg Exit PSP accounts.</p> <p>The payment confirmation (pacs.002.XCY) is sent to the originator</p>

	participant.
Prerequisite	The originator participant has the necessary cash balance on the account to be debited. The cross-currency flag is activated for the for the Leg Exit PSP
Expected results	The Originator has successfully sent an instant payment message (pacs.008.XCY) and has received from TIPS the confirmation message (pacs.002.XCY) sent back by the Leg Exit PSP when accepting the payment
Test evidence	A copy of pacs.008.XCY and pacs.002.XCY messages
Relevant documentation	TIPS UDFS 3.3.2.1.10 FIToFICustomerCreditTransfer (pacs.008.001.08) TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10)

TIPS_CERT_19b – [CR-0065] Send a cross-currency instant payment message with the Leg-Exit PSP as instructed agent; show a payment success message

Test ID	TIPS_CERT_19
Test case name	Send an instant payment message (pacs.008.XCY) filling the instructed agent field with the Leg Exit PSP (Direct or Indirect); show a payment success message (pacs.002.XCY)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	<p>The settlement process begins with an Instant Payment transaction message (pacs.008.XCY) submitted by the Originator side to TIPS.</p> <p>The Instant Payment transaction can be sent to a directly connected Leg Exit PSP (Instructed agent) or as indirectly connected Leg Exit PSP (Intermediate agent).</p> <p>At the completion of the whole cross-currency transaction, TIPS will settle the reserved amount, removing the cash posting and updating</p>

	<p>the cash balances of the Originator Participant and Leg Exit PSP accounts.</p> <p>The payment confirmation (pacs.002.XCY) is sent to the originator participant.</p>
Prerequisite	<p>The originator participant has the necessary cash balance on the account to be debited. The cross-currency flag is activated for the final Beneficiary and for the Leg Exit PSP. The Mapping table is filled with the Leg Entry PSP associated to the interested currencies or the Leg Entry PSP is reported in the pacs.008.XCY</p>
Expected results	<p>The Originator has successfully sent an instant payment message (pacs.008.XCY) and has received from TIPS the confirmation message (pacs.002.XCY) at the completion of the whole cross-currency transaction</p>
Test evidence	<p>A copy of pacs.008.XCY and pacs.002.XCY messages</p>
Relevant documentation	<p>TIPS UDFS 3.3.2.1.10 FIToFICustomerCreditTransfer (pacs.008.001.08)</p> <p>TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10)</p>

TIPS_CERT_20 – Accept an instant payment from the Leg-Entry PSP; show updated balance

Test ID	TIPS_CERT_20
Test case name	Accept an instant payment (pacs.002.XCY); show updated balance (camt.004), TIPS MEPT header of pacs.002 or in camt.053)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	<p>Once the instant payment transaction was forwarded by TIPS to the Beneficiary participant, the last one should reply with a confirmation message (pacs.002.XCY) within a standard, configurable timeout period and after that receive from TIPS a confirmation message (pacs.002.XCY) as a final confirmation for processing of the pacs.002.</p> <p>After receiving a final confirmation message (pacs.002.XCY) from TIPS, the Beneficiary can query the system (camt.003) to get updated information on the account balance, check the balance in TIPS MEPT header of pacs.002 or reconcile the balance when report camt.053 is received</p>
Prerequisite	An instant payment has been sent to the participant. And the Participant has configured reception of report. The cross-currency flag is activated for the Beneficiary PSP

Expected results	Participant has received a pacs.002 final confirmation message from TIPS and optionally camt.004 or camt.053 report message showing the updated balance.
Test evidence	A copy of pacs.002 showing TIPS MEPT header, a copy of camt.004 or camt.053
Relevant documentation	TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10) TIPS UDFS 3.3.2.2.2 ReturnAccount (camt.004.001.07)

TIPS_CERT_21 – Send an Investigation for cross currency transaction; show payment success message

Test ID	TIPS_CERT_21
Test case name	Send an Investigation (pacs.028.XCY); show payment success message (pacs.002.XCY)
Applicable to	TIPS Participant (PSP)
Application	TIPS
Connectivity mode	A2A
Description	The Participant can start the investigation process on a previously instructed Instant Payment Transaction. The Payment Status Request message (pacs.028) allows instructing TIPS for retrieving the status of a previously submitted Instant Payment Transaction.
Prerequisite	An Instant Payment transaction has been already submitted and processed by TIPS. The cross-currency flag is activated for the Beneficiary and for the Leg Exit PSP
Expected results	The participant is able to initiate an investigation process, and the

	system will return a payment status report message (pacs.002.XCY).
Test evidence	A copy of pacs.028.XCY and of pacs.002.XCY
Relevant documentation	TIPS UDFS 3.3.2.1.11 FIToFIPaymentStatusRequest (pacs.028.001.03) TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10)

Additional test cases for Leg Exit PSP/Leg Entry PSP

TIPS_CERT_22 – [Leg Entry PSP] [CR-0064 only] Send a cross-currency instant payment message as Leg Entry PSP; show a payment success message

Test ID	TIPS_CERT_22
Test case name	Send an instant payment message (pacs.008.XCY); show a payment success message (pacs.002.XCY)
Applicable to	Leg Entry PSP
Application	TIPS
Connectivity mode	A2A
Description	<p>After receiving the confirmation of the settlement of the Leg Exit transaction, the settlement process continues with an Instant Payment transaction message (pacs.008.XCY) submitted by the Leg Entry PSP to TIPS.</p> <p>The Instant Payment transaction can be sent to a directly connected Leg Entry PSP (Instructing agent) or as indirectly connected Leg Leg Entry PSP (Previous instructing agent).</p> <p>After several validity checks, if no errors are detected the beneficiary side shall respond to TIPS with a beneficiary reply, confirming the payment (pacs.002.XCY)</p> <p>Consequently, TIPS will settle the reserved amount, removing the cash posting and updating the cash balances of the Beneficiary Participant (credited) and Leg Entry PSP (debited) accounts.</p> <p>The payment confirmation (pacs.002.XCY) is sent to Leg Entry PSP.</p>
Prerequisite	The originator participant has the necessary cash balance on the account to be debited. The cross-currency flag is activated for the Beneficiary

Expected results	The Leg Exit PSP has successfully sent an instant payment message (pacs.008.XCY) and has received from TIPS the confirmation message (pacs.002.XCY) sent back by the Beneficiary when accepting the payment.
Test evidence	A copy of pacs.008.XCY and pacs.002.XCY messages
Relevant documentation	TIPS UDFS 3.3.2.1.10 FIToFICustomerCreditTransfer (pacs.008.001.08) TIPS UDFS 3.3.2.1.9FIToFIPaymentStatusReport (pacs.002.001.10)

TIPS_CERT_23a – [Leg Exit PSP] Accept an instant payment as Leg Exit PSP; show updated balance [CR-0064]

Test ID	TIPS_CERT_23
Test case name	Accept an instant payment (pacs.002.XCY); show updated balance (camt.004), TIPS MEPT header of pacs.002 or in camt.053)
Applicable to	Leg Exit PSP
Application	TIPS
Connectivity mode	A2A
Description	<p>Once the instant payment transaction was forwarded by TIPS to the Leg Exit PSP participant, the last one should reply with a confirmation message (pacs.002.XCY) within a standard, configurable timeout period and, at the end of the OLO transaction, receive from TIPS a confirmation message (pacs.002.XCY) as a final confirmation of the successful Leg Exit transaction.</p> <p>After receiving a final confirmation message (pacs.002.XCY) from TIPS, the Leg Exit PSP can query the system (camt.003) to get updated information on the account balance, check the balance in TIPS MEPT header of pacs.002 or reconcile the balance when report camt.053 is received</p>
Prerequisite	An instant payment has been sent to the participant. And the participant

	has configured reception of report. The cross-currency flag is activated for the Leg Exit PSP
Expected results	Participant has received a pacs.002 final confirmation message from TIPS and optionally camt.004 or camt.053 report message showing the updated balance.
Test evidence	A copy of pacs.002 showing TIPS MEPT header, a copy of camt.004 or camt.053
Relevant documentation	TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10) TIPS UDFS 3.3.2.2.2 ReturnAccount (camt.004.001.07)

TIPS_CERT_23b – Accept an instant payment as Leg Exit PSP; show final confirmation after completion of the cross-currency transaction [CR-0065]

Test ID	TIPS_CERT_23
Test case name	Accept an instant payment (pacs.002.XCY); show updated balance (camt.004), TIPS MEPT header of pacs.002 or in camt.053.
Applicable to	Leg Exit PSP
Application	TIPS
Connectivity mode	A2A
Description	<p>Once the instant payment transaction was forwarded by TIPS to the Leg Exit PSP participant, the last one should reply with a confirmation message (pacs.002.XCY) within a standard, configurable timeout period and, at end of the whole cross-currency transaction, receive from TIPS a confirmation message (pacs.002.XCY) as a final confirmation for processing of the pacs.002 received from the Beneficiary participant.</p> <p>After receiving a final confirmation message (pacs.002.XCY) from TIPS, the Leg Exit PSP can query the system (camt.003) to get updated information on the account balance, check the balance in TIPS MEPT header of pacs.002 or reconcile the balance when report</p>

	camt.053 is received
Prerequisite	An instant payment has been forwarded to the Leg Exit PSP by TIPS. And the participant has configured reception of report. The cross-currency flag is activated for the Beneficiary and for the Leg Exit PSP
Expected results	Participant has received a pacs.002 final confirmation message from TIPS after the completion of the full cross-currency transaction and optionally camt.004 or camt.053 report message showing the updated balance.
Test evidence	A copy of pacs.002 showing TIPS MEPT header, a copy of camt.004 or camt.053
Relevant documentation	TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10) TIPS UDFS 3.3.2.2.2 ReturnAccount (camt.004.001.07)

TIPS_CERT_24 – [Leg Entry PSP] [CR-0065 only] Authorise a transaction as Entry Leg PSP (in the destination currency)

Test ID	TIPS_CERT_24
Test case name	Authorises the transaction by sending back to TIPS a message (pacs.008.XCY) as reply to the forwarded pacs.008 to seek authorisation to proceed for a cross-currency LKT settlement model transaction; show a payment success message (pacs.002.XCY)
Applicable to	Leg Entry PSP
Application	TIPS
Connectivity mode	A2A
Description	After receiving the confirmation of the reservation of funds of the non-Leg Exit transaction, the settlement process continues with an Instant Payment transaction message (pacs.008.XCY) submitted by the Leg Entry PSP to TIPS.

	<p>The Instant Payment transaction message can be sent from a directly connected Leg Entry PSP (Instructing agent) or as indirectly connected Leg Leg Entry PSP (Previous instructing agent).</p> <p>After several validity checks, if no errors are detected, the final beneficiary of the whole cross currency transaction shall respond to TIPS with a beneficiary reply, confirming the payment (pacs.002.XCY)</p> <p>Consequently, TIPS will settle the reserved amount, removing the cash posting and updating the cash balances of the Originator Participant , the non-Leg Exit PSP, the Leg Entry PSP and final beneficiary accounts.</p> <p>The payment confirmation (pacs.002.XCY) is sent to Leg Entry PSP.</p>
Prerequisite	The originator participant has the necessary cash balance on the account to be debited. The cross-currency flag is activated for the final beneficiary. The mapping table includes the Leg Entry PSP for the routing, ad-hoc or default entry, , or it is specified in the pacs.008 of the payment initiator of the whole cross-currency transaction.
Expected results	The Leg Entry PSP has successfully sent an instant payment message (pacs.008.XCY) and has received from TIPS the confirmation message (pacs.002.XCY) sent back by the Beneficiary when accepting the payment.
Test evidence	A copy of pacs.008.XCY and pacs.002.XCY messages
Relevant documentation	<p>TIPS UDFS 3.3.2.1.10 FIToFICustomerCreditTransfer (pacs.008.001.08)</p> <p>TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10)</p>

TIPS_CERT_25 - Querying cross-currency payment transactions via U2A

Test ID	TIPS_CERT_12
Test case name	Querying cross-currency payment transactions via U2A (Advanced Cross-currency Payment transaction query)
Applicable to	TIPS Participant (PSP)

Application	TIPS
Connectivity mode	U2A
Description	The participant launches queries on the “Advanced Cross-currency Payment transaction query” screen and gets detailed information on the status of the relevant payment transaction in display screen and afterwards, export the results.
Prerequisite	The Actor has required privileges. Along with this, the actor has sent or received several instant payments during the last days/months (depending on the tested timeframe).
Expected results	The participant is able to see the relevant payment transaction in display screen and able to export the result.
Test evidence	Screenshots and the exported file
Relevant documentation	TIPS UHB 4.1.4.5 Query Payment transaction – Advanced Cross-currency Search/List screen

TIPS_CERT_26 – Reject an instant payment

Test ID	TIPS_CERT_20
Test case name	Reject an instant payment (pacs.002);
Applicable to	TIPS Participant (PSP) as Beneficiary / Leg Exit PSP / Leg Entry PSP
Application	TIPS
Connectivity mode	A2A
Description	Once the cross-currency instant payment transaction was forwarded by TIPS to the Leg Exit PSP/ Leg Entry PSP/ Beneficiary participant, the last one should reply with a

	rejection message (pacs.002.XCY) within a standard, configurable timeout period. After rejecting the transaction, the Leg Exit PSP/ Leg Entry PSP/ Beneficiary can query the system (camt.003) to check that no changes occurs on the account balance,
Prerequisite	An instant payment has been sent to the participant. The cross-currency flag is activated to receive the cross-currency transaction
Expected results	Participant has sent a rejection pacs.002 message and optionally camt.004 message showing the unchanged balance.
Test evidence	A copy of pacs.002, a copy of camt.004
Relevant documentation	TIPS UDFS 3.3.2.1.9 FIToFIPaymentStatusReport (pacs.002.001.10) TIPS UDFS 3.3.2.2.2 ReturnAccount (camt.004.001.07)

Annex – TIPS cross-currency change requests (CR-0064 and CR-0065)

CR-0064 ([TIPS-0064-URD - Adaptation of TIPS for the settlement of cross-currency transactions - based on OCT Inst scheme](#)) - This change request introduces an optional new process flow for cross-currency settlement based on the One-Leg Out Instant Credit Transfer (OCT Inst) scheme. It also adds a "Cross-Currency Attribute" to the Common Reference Data Management (CRDM).

CR-0065 ([TIPS-0065-URD - Enhanced Linked Transaction model for cross-currency in TIPS](#)) - This change request implements a more sophisticated Enhanced Linked Transaction (LKT) settlement model for cross-currency transactions, also based on the One-Leg Out Instant Credit Transfer (OCT Inst) scheme. The new model enables the automatic orchestration of the entire end-to-end payment cycle for TIPS-hosted currencies, thereby reducing reliance on "out-of-band" orchestration by Entry/Exit-Leg PSPs.