

# TARGET2 Test Guideline

## Authorisation for new participants



Test guideline for participants via the Deutsche Bundesbank

Entity responsible: Deutsche Bundesbank

Author: National Service Desk



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	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

## List of versions

Version	Date	Author	Description of modification
1.0	1 June 2012	Thomas Weitzel	Document creation
1.1	28 November 2012	National Service Desk	Amendment
1.2	12 April 2013	National Service Desk	Amendment
1.3	30 September 2014	National Service Desk	Amendment
1.4	1 June 2015	National Service Desk	Complete revision
1.5	1 May 2017	Mark Peiffer	Complete revision
1.6	13 November 2017	National Service Desk	Update (Release 11.0 + T2S)
1.7	19 November 2018	National Service Desk	Update (Release 12.0 + TIPS)
1.8	12 February 2019	National Service Desk	Update (Release 12.1)
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1.10	16 April 2021	National Service Desk	Update (Release 14.1)

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## 1 Purpose of the document

This document describes the framework and conditions for test activities relating to the authorisation procedure for TARGET2 participants via the Deutsche Bundesbank. The test cases described are those which must be completed as a precondition for certification as a new participant in the relevant TARGET service. A detailed description of all test cases can be found in Annex 2 to the “Guide to TARGET2 user testing”, which is published on our website:

<https://www.bundesbank.de/en/tasks/payment-systems/target2/information-for-participants/customer-tests-releases>

Bundesbank	Tasks	Statistics	Service	Press	Publications	Career
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      - Reference documents
      - Customer tests / Releases**
      - Compensation Scheme

### Customer tests / Releases

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
- > Guide to TARGET2 user testing
- > Guide to TARGET2 user testing
- > TARGET2-Releases



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#### Guide to TARGET2 user testing

The “Guide to TARGET2 user test testing”, which the Bundesbank compiles, outlines the framework conditions and prerequisites for test activities as well as the procedure to qualify for participation in TARGET2-Bundesbank.

#### National test concept

-  **TARGET2 Test Guidelines, Version 1.9**  
Authorisation for new participants  
01.01.2020 | 1 MB, PDF
-  **TARGET2 Test Guidelines, Version 1.9**  
Release tests  
30.08.2019 | 1 MB, PDF
-  **Temporary TARGET2 timing adaptation to T25 timing (2)**  
13.01.2016 | 81 KB, PDF
-  **Application of T2 standard CUST timing all days of the week**  
71 KB, PDF

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## 2 Organisation of the test phase

### 2.1 Contact details

The following points of contact are available at the Bundesbank.



Test administration and monitoring, technical issues and problems with the communication infrastructure (ICM), registration, certification	National Service Desk TARGET2 Tel.: +49 (0)69 9566 8870 Fax: +49 (0)69 9566 508870 Email: <a href="mailto:targetservices-test@bundesbank.de">targetservices-test@bundesbank.de</a>	
Technical hotline for problems with setting up internet access	Tel.: +49 (0)69 9566 4044 Email: <a href="mailto:IA_Support@bundesbank.de">IA_Support@bundesbank.de</a>	
Customer service teams (KBS)		
Berlin	+49 (0)30 3475 2929	<a href="mailto:KBS-BBB@bundesbank.de">KBS-BBB@bundesbank.de</a>
Düsseldorf	+49 (0)211 874 2929	<a href="mailto:KBS-NRW@bundesbank.de">KBS-NRW@bundesbank.de</a>
Frankfurt am Main	+49 (0)69 2388 2929	<a href="mailto:KBS-H@bundesbank.de">KBS-H@bundesbank.de</a>
Hamburg	+49 (0)40 3707 2929	<a href="mailto:KBS-HMS@bundesbank.de">KBS-HMS@bundesbank.de</a>
Hanover	+49 (0)511 3033 2929	<a href="mailto:KBS-BNS@bundesbank.de">KBS-BNS@bundesbank.de</a>
Leipzig	+49 (0)341 860 2929	<a href="mailto:KBS-STH@bundesbank.de">KBS-STH@bundesbank.de</a>
Mainz	+49 (0)6131 377 2929	<a href="mailto:KBS-RS@bundesbank.de">KBS-RS@bundesbank.de</a>
Munich	+49 (0)89 2889 2929	<a href="mailto:KBS-BY@bundesbank.de">KBS-BY@bundesbank.de</a>
Stuttgart	+49 (0)711 944 2929	<a href="mailto:KBS-BW@bundesbank.de">KBS-BW@bundesbank.de</a>

Each participant is requested to designate a contact person as “test manager” using the registration form “Contact Items” (form 1015, I-1015, 5015 or I-5015); this person’s details will be saved in the TARGET2 master data.

### 2.2 Reporting and certification

Participants must document all successfully run tests and provide evidence in the form of a screenshot. Please send the screenshots by email to [targetservices-test@bundesbank.de](mailto:targetservices-test@bundesbank.de), stating your BIC and the relevant test ID.

Once the mandatory tests have been successfully completed, participants will receive a certificate of completion of the test cases in the form of a PDF document.

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### 2.3 Test times

The TARGET2 test environment is, in principle, available on all TARGET2 business days during the *day trade phase* (from 07:15 to 15:30 CE(S)T).

The overview below shows the timing of the individual phases of a business day in the test environment.

Phases of a business day in the TARGET2 test environment		
Name	Times	Comments
	Monday-Friday	
Prepare daylight operations	07:00-07:15	Execution of standing orders for “highly urgent” and “urgent” reservations.
Day trade phase	07:15-15:30	Payment processing and ancillary system settlement (settlement procedures 1-6).
Cut-off time for MT 103 customer payments (Customer cut-off time)	14:00	MT 103 submitted after 14:00 or MT 103 already submitted but still in the queue will be rejected by the system.
Cut-off time for MT 202 bank-to-bank payments (Interbank cut-off time)	15:30	MT 202 submitted after 15:30 or MT 202 already submitted but still in the queue will be rejected by the system.
End of business day	15:30-16:15	Ends 15 minutes later on the last day of the minimum reserve (MR) maintenance period.
Start of new business day	16:15-16:30	Starts 15 minutes later on the last day of the MR maintenance period.
Liquidity provisioning for night-time settlement	16:30-17:00	Starts 15 minutes later on the last day of the MR maintenance period, but ends by 17:00 at the latest.
Night-time settlement	17:00-19:00 (Mon-Thu) 17:00-17:30 (Fri)	Ancillary system settlement; settlement procedure 6.
Technical maintenance	19:00-07:00	No customer activity.

Source: Guide to TARGET2 user testing.  
All times in CET/CEST.

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## 2.4 Available BICs

A special TARGET2 test directory is provided for routing payments. Each direct participant is registered in this directory with its own test BIC. HAM account holders are not published in the TARGET2 (test) directory. The TARGET2 test directory also contains the Bundesbank's test BICs (please refer to the table).

**The Bundesbank's customer simulator is available for receiving SWIFT MT messages. It mirrors the messages addressed to BIC ZYBLDEF0XXX and sends them back to the submitter.**

**This requires the following codeword to be entered in field 72:**



**/REC/ECHOTGTn (n=enter a number between 1 and 9 (number of mirrored events)).**

**More information on how to fill in fields can be found in Chapter 4.4.**

BIC	BIC addressee	Description
ZYEEDEF0XXX	ZYEEDEF0XXX	Direct participant test bank 1
ZYEHDEF0XXX	ZYEEDEF0XXX	Indirect participant to test bank 1
ZYEIDDEF0XXX	TRGTXEP0LVP	Direct internet-based participant test bank 6
ZYBLDEF0XXX	ZYBLDEF0XXX	Direct participant (serves as customer simulator)
ZYEEDEF0321	ZYEEDEF0321	HAM participant test bank 4

The TARGET2 Single Shared Platform uses the following technical BICs

BIC	Description
TRGTXEP0XXX	(1) Sender BIC in back-up payments initiated by a direct participant  (2) Sender BIC in payments initiated in the HAM by a co-manager  (3) Sender BIC in SWIFT messages transmitted from the test environment using SWIFTNet FIN with no Y-copy (MT 900 / MT 910)
TRGTXEH0XXX TRGTXE20XXX TRGTXE30XXX	Sender BICs in SWIFT messages transmitted from the test environment using SWIFTNet FIN with no Y-copy (MT 940 / MT 950)
TRGTXEH0XXX	Sender BIC in MT 202 simplified payments initiated in the HAM by a co-manager
TRGTXEP0LVP	(1) Sender BIC in payments initiated by internet-based participants (2) Receiver BIC in payments to be transmitted to internet-based participants
TRGTXEP0T2S	Receiver BIC for payments to T2S

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### 3 Tests to be completed by new participants

#### 3.1 General information

In order to prepare for direct participation in TARGET2 via the Deutsche Bundesbank, the described test activities are carried out to check whether:

- any software that has been developed by the direct participant itself or provided by a third party functions properly;
- outgoing payment messages from the direct participant can be generated in and sent from the participant's own back-office application without error;
- incoming messages for the direct participant can be processed by the participant's own back-office application without error;
- the participant's access to the TARGET2 services via the ICM functions correctly.

New direct participants are only admitted to TARGET2 live operations if the specifications laid down in the TARGET2 User Detailed Functional Specifications (UDFS) have been met and the procedural requirements have been fulfilled in both technical and specialist terms. To this end, a two-stage test procedure is carried out. The connectivity tests must have first been successfully completed before the technical tests can begin. This prevents infrastructure problems from hindering the technical tests. The technical tests encompass the payment settlement process.

When recording payments to other direct or indirect participants, we ask that you note the respective test ID in the payment references for the test case shown.

Certification is granted once the entire test programme has been completed.



#### 3.2 Participation via SWIFT

Participation via SWIFT services is the standard access route for direct participation. Participants can use all of the Bundesbank's TARGET2 services via communication through the SWIFT network or web-based access to the ICM.

Please ensure that you have carried out the following before you commence with the test phase.

- SWIFT e-ordering for testing
- RMA exchange (for CUG PM with TRGTXEP0XXX and/or for CUG HAM with TRGTXEH0XXX)
- Defining the RBAC roles for users (at least CUINFOTE)



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### 3.3 Participation via internet access

Unlike in the case of participation via SWIFT, participation via internet access does not allow for the automatic sending and receipt of transactions. Outgoing payments can be recorded in the ICM, while incoming payments are displayed in the ICM in SWIFT format. Owing to this technical restriction, we recommend that access via the internet should only be used for payment volumes of up to around ten transactions per business day. When determining the volume, the transactions effected using any ancillary systems (RPS SEPA-Clearer, RPS, CBF, etc.) should also be taken into account.

For internet-based participants, the technical BIC TRGTXEP0LVP serves as a SWIFT address.

In order to ensure that this BIC is automatically addressed by the test user when mirroring the payment, the test BIC of the internet-based participant must be entered as the beneficiary in the payment instruction (in MT 103/MT 103 STP in field 57A; in MT 202 in field 57A or 58A).

Please note the following:

Even if you, as an internet-based participant, have requested the single control principle (RBAC role LVMANATE) for access to the ICM, MT 103/MT 103 STP and MT 202/MT 202 COV are generally sent in accordance with the dual control principle. Please make sure when applying for the tokens that the required forms are submitted for at least two people.



### 3.4 Scope of the tests

The mandatory tests for the certification comprise the following test cases.

Connectivity tests

Test ID	Description
CON-T2-SWIFT-ICM	Access to the information and control module (ICM)
CON-T2-INTERNET-ICM	Access to the information and control module (ICM)
CON-T2-A2A	Sending a T2 A2A message via Interact
CON-T2-FIL	Sending a file via Fileact using A2A
CON-T2-PM1	Access to the payments module (PM)
CON-T2-HAM	Access to the home accounting module (HAM)
CON-T2-ECONS I	Access to ECONS I via GUI

**The test case CON-T2-PM1 is not relevant for internet-based PM participants.**

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Technical tests on the payments module via SWIFT access (PM SWIFT) and via internet-based access (PM Internet)



Test ID	Description
IOP-PM-010	Downloading (pull mode) the T2 directory (full version)
IOP-PM-040	Query T2 directory in the ICM
IOP-PM-110	Sending an MT 103 to a direct participant
IOP-PM-115a	Receiving an MT 103 from a direct participant
IOP-PM-120	Sending an MT 103 STP to a direct participant
IOP-PM-125a	Receiving an MT 103 STP from a direct participant
IOP-PM-130	Sending an MT 202 to a direct participant
IOP-PM-135	Receiving an MT 202 from a direct participant
IOP-PM-210	Sending an MT 103 to an indirect participant
IOP-PM-215	Receiving an MT 103 from an indirect participant
IOP-PM-220	Sending an MT 103 STP to an indirect participant
IOP-PM-225	Receiving an MT 103 STP from an indirect participant
IOP-PM-230	Sending an MT 202 to an indirect participant
IOP-PM-235	Receiving an MT 202 from an indirect participant
IOP-PM-330/335	Receiving an MT 940 / MT 950 (SWIFT) or downloading an account statement MT 940 (Internet)

**The test case IOP-PM-010 is not relevant for internet-based PM participants.**

Technical tests on the payments module via SWIFT access (with unpublished T2 BIC - PM account light SWIFT)

Test ID	Description
IOP-PM-040	Query T2 directory in the ICM
IOP-PM-130	Sending an MT 202 to a direct participant
IOP-PM-135	Receiving an MT 202 from a direct participant
IOP-PM-330/335 <sup>1</sup>	Receiving an MT 940 / MT 950

<sup>1</sup> Alternative, depending on the chosen account statement format.

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Technical tests on the payments module via internet-based access  
(with unpublished T2 BIC - PM account light internet)

Test ID	Description
CON-T2-INTERNET-ICM	Access to the information and control module (ICM)
IOP-PM-130	Sending an MT 202 to a direct participant
IOP-PM-135	Receiving an MT 202 from a direct participant
IOP-PM-330	Downloading an account statement MT 940

Technical tests on the home accounting module via SWIFT access (HAM SWIFT)

Test ID	Description
IOP-HAM-110	Sending an MT 202 to another HAM account
IOP-HAM-120	Sending an MT 202 to a PM account
IOP-HAM-190/195 <sup>1</sup>	Receiving an MT 940 / MT 950

Technical tests on the home accounting module via internet-based access (HAM Internet)

Test ID	Description
IOP-HAM-110	Sending an MT 202 to another HAM account
IOP-HAM-120	Sending an MT 202 to another PM account
IOP-HAM-190	Downloading an account statement MT 940



Technical tests for co-managers of HAM accounts (HAM without)

Test ID	Description
IOP-HAM-620	Sending an MT 202 to another PM account
IOP-HAM-625	Sending an MT 202 to a PM account of the co-manager
IOP-HAM-690/695 <sup>1</sup>	Receiving an MT 940 / MT 950

Technical tests for DCA holders in T2S

Test ID	Description
IOP-T2SI-010	Sending a liquidity transfer from T2 to T2S via the ICM
IOP-T2SI-020	Sending a liquidity transfer from T2 to T2S by means of XML messages <sup>2</sup>
IOP-T2SI-130	Setting up a standing order to transfer liquidity to T2S (ICM)

<sup>2</sup> Only where an A2A connection exists (in which case, IOP-T2SI-010 is non-mandatory).

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Technical tests for the use of value added services (VAS)

Test ID	Description
IOP-T2SI-040	Liquidity transfer from T2 to T2S by means of MT 202
IOP-T2SI-050	Liquidity transfer from T2S to T2 via the ICM
IOP-T2SI-060	Liquidity transfer from T2S to T2 by means of XML messages <sup>3</sup>
IOP-T2SI-070	Liquidity transfer from T2S to T2 by means of MT 202



Technical tests for the use of TIPS

Test ID	Description
IOP-TIPS-100a	Liquidity transfer from T2 to TIPS with LM link via the ICM
IOP-TIPS-170a	Initiating a liquidity transfer from TIPS with LM link via the ICM
IOP-TIPS-200	Monitoring the available liquidity on the TIPS DCA (ICM)
IOP-TIPS-210	Monitoring TIPS DCAs that are linked with a T2 account via the ICM

Technical tests for the use of ECONS I

Test ID	Description
IOP-ECONS-PM-010	Sending a payment in ECONS I to a direct participant
IOP-ECONS-PM-060	Receiving an MT 940 / MT 950 from ECONS I
IOP-ECONS-PM-070	Downloading an account statement when using ECONS I over several days

<sup>3</sup> Only where an A2A connection exists (in which case, IOP-T2SI-050 is non-mandatory).

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## 4 Test content

### 4.1 Connectivity tests

The connectivity tests check whether the technical connection to the ICM and the individual modules is correct.

Test ID: **CON-T2-SWIFT-ICM**  
 Function: Access to the ICM  
 Time: Available permanently

Requirements:

#### SWIFT participants:

- Registered for TARGET2
- Registered for SWIFTNet, including registration in CUG TARGET2
- RMA exchange with TRGTXEP0XXX
- SWIFT interface installed

Contents: SWIFT participants:  
 Participant calls up the following URL  
<https://trgt-papss-cust.ssp.browse.swiftnet.sipn.swift.com/com>

Test ID: **CON-T2-Internet-ICM**  
 Function: Access to the ICM  
 Time: Available permanently

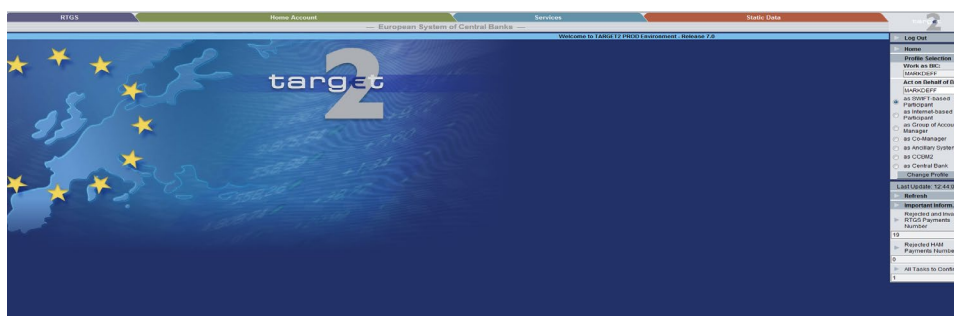
Requirements:

#### Internet-based participants:

- Registered for TARGET2
- Token received, receipt confirmed and activated by Banca d'Italia
- Technical requirements pursuant to ICM User Handbook I fulfilled

Contents: Internet-based participants:  
<https://trgt-papss-cust.target2ssp.eu>

Result: The system displays the start screen for the ICM



**Test ID:** CON-T2-PM-1  
**Function:** Access to the payments module via the ICM  
**Type:** Mandatory for SWIFT participants  
**Time:** Available permanently

**Requirements:**

- Registered for TARGET2
- Registered for SWIFTNet, including registration in CUG TARGET2 (PM)
- SWIFT interface installed



**Contents:** Participant sends an MT 202 with retroactive value date to itself (Y-copy, field :103: TGT).

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant
:32A	Retroactive date as value date
:58A	BIC of direct T2 participant pursuant to T2 directory

**Result:** Participant receives an MT 019 with error code D1 (retroactive value date not permissible).

**Test ID:** CON-T2-HAM  
**Function:** Access to the home accounting module via the ICM  
**Type:** Mandatory for HAM participants  
**Time:** Available permanently

**Requirements:**

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For SWIFT participants:

- Registered for TARGET2 and SWIFTNet, including registration in CUG TARGET2 (HAM)
- SWIFT interface installed
- RMA exchange with TRGTXEH0XXX

For internet-based participants:

- Token received, receipt confirmed and activated by Banca d'Italia
- Technical requirements pursuant to ICM User Handbook fulfilled
- Registered for TARGET2

Contents: Participant sends an MT 202 with same value date to itself (no Y-copy, no TGT in field 103 -> **applies to SWIFT participants**). The internet-based participant creates an MT 202 via the ICM with a SWIFT-compliant reference in field 20.

For SWIFT participants:

Field	Description
Sender:	BIC of direct participant
Recipient:	TRGTXEH0XXX
:32A	Current date as value date
:58A	BIC of direct T2 participant pursuant to T2 directory

Result: Participant receives an MT 019 with error code XI00 (sender and recipient must be different). Participant receives an MT 202 from HAM with information in field 72 /REJT/20.

Internet-based participants:

Result: Settlement of the recorded MT 202 message.

Test ID: **CON-T2-A2A**



Function: Sending a T2 A2A message via Interact

Type: Optional (mandatory when used in production)

Time: Available permanently

Contents: Participant sends an XML file via Interact.

Result: The message is successfully sent to TARGET2, the sender receives a confirmation.

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**Test ID:** CON-T2-FIL  
**Function:** Sending a T2 A2A message via FileAct (store and forward)  
**Type:** Optional (mandatory when used in production)  
**Time:** Available permanently

**Contents:** Participant sends an XML file via FileAct.

**Result:** The message is successfully sent to TARGET2, the sender receives a confirmation.



**Test ID:** CON-T2-ECONS1  
**Function:** Access to ECONS I (U2A)  
**Type:** Mandatory for ECONS I users  
**Time:** Whilst ECONS I is activated

**Contents:** Access to ECONS I via GUI  
<https://trgt-cm-cust.ssp.browse.swiftnet.sipn.swift.com>

**Result:**





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## 4.2 Technical tests – payments module (PM SWIFT)

Test ID: **IOP-PM-010**

Function: Downloading full version of the TARGET2 directory (pull mode)

Type: Only mandatory for PM SWIFT participants

Time: Available permanently

Contents: Participant starts downloading the full version via SWIFTNetFileAct (service “trgt sfpapss!p”, request type “reda.xxx.target2.dirfull”).

Result: Participant receives the full version of the T2 directory via SWIFTNet.

Test ID: **IOP-PM-040**

Function: Query TARGET2 directory in the ICM

Type: Mandatory for SWIFT participants

Time: Available permanently

Contents: Participant opens the T2 directory via Static Data > Participation > TARGET2-Dir. Participant chooses a modification flag and enters a test BIC in the field “Participant BIC”. The system displays the information required once the filter button has been selected.

Result: The system displays the information required.

Test ID: **IOP-PM-110**

Function: Sending an MT 103 (customer payment) to another direct participant

Type: Only mandatory for PM SWIFT participants

Time: 07:15 to 14:00

Requirements:

- Access to the ICM tested successfully
- Sufficient funds on the PM account

Contents: Participant sends a Y-copy of an MT 103 to another direct participant with priority “normal” via SWIFT.

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of another direct participant (BIC addressee) or TRGTXP0LVP for internet-based participants
:103	TGT

Field	Description
:113	First digit (banking priority): N
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:57A	Recipient's BIC
:59	Customer account number and BIC
:71A	Details of charges

**Result:** The system displays the executed MT 103 as “settled” in the ICM.  
The PM account is debited.



RTGS				Services			
Payments & Messages	Liquidity	Limits & Reservations	Ancillary Systems	Credit Transfer			
RTGS : Payments and Messages : Select Payment							
Pos	Priority	Transaction Reference	MT	Debit Account (BIC)	Credit Account (BIC)	Amount (EUR)	Payment Status
<input type="checkbox"/>	N	IOP-PM-110	103	▶ ZYEIDDEF0700	▶ ZYBLDEF0	1.00	Settled
<input type="checkbox"/>	N	IOP-PM-110-1	103	▶ ZYEIDDEF0700	▶ ZYEEDEF0	1.00	Settled
<input type="checkbox"/>	N	IOP-PM-210	103	▶ ZYEIDDEF0700	▶ ZYEEDEF0	1.00	Settled
<input type="checkbox"/>	N	IOP-PM-110 1	103	▶ ZYBLDEF0	▶ ZYEIDDEF0700	1.00	Settled

**Test ID:** **IOP-PM-115a**  
**Function:** Receiving an MT 103 (customer payment) from another direct participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 14:00

**Contents:** Participant receives a Y-copy of an MT 103 from another direct participant via SWIFT. The GPI fields 121 (UETR) and 111 are shown in the SWIFT message.

**Result:** The system displays the executed MT 103 as “settled” in the ICM.  
The PM account is credited.  
The MT 103 has been received and processed correctly.

**Test ID:** **IOP-PM-120**  
**Function:** Sending an MT 103 STP to another direct participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 14:00  
**Contents:** Participant sends a Y-copy of an MT 103 STP to another direct participant with priority “normal” via SWIFT.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of another direct participant (BIC addressee) or TRGTXEP0LVP for internet-based participants
:103	TGT
:113	First digit (banking priority): N
:119	STP (straight-through processing)
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:52A	BIC of ordering institution
:57A	BIC of account-holding bank (dir. Participant)
:59	IBAN (22 digits) and BIC
:71A	Details of charges

**Result:** The system displays the executed MT 103 STP as “settled” in the ICM. The PM account is debited.



**Test ID:** **IOP-PM-125a**  
**Function:** Receiving an MT 103 STP from another direct participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 14:00

**Contents:** Participant receives a Y-copy of an MT 103 STP from another direct participant via SWIFT. The GPI fields 121 (UETR) and 111 are shown in the SWIFT message.

**Result:** The system displays the executed MT 103 STP as “settled” in the ICM. The PM account is credited. The MT 103 STP has been received and processed correctly.

**Test ID:** **IOP-PM-130**  
**Function:** Sending an MT 202 (bank-to-bank payment) to another direct participant  
**Type:** Mandatory for SWIFT participants  
**Time:** 07:15 to 15:30

**Contents:** Participant sends a Y-copy of an MT 202 to another direct participant via SWIFT.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	BIC of direct participant or TRGTXEP0LVP
Recipient:	BIC of another direct participant (BIC addressee) or TRGTXEP0LVP for internet-based participants
:103	TGT
:113	First digit (banking priority): N
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:52A	BIC of ordering institution
:58A	BIC of direct T2 participant pursuant to T2 directory

**Result:** The system displays the executed MT 202 as “settled” in the ICM. The PM account is debited.

**Test ID:** **IOP-PM-135**

**Function:** Receiving an MT 202 (bank-to-bank payment) from another direct participant

**Type:** Mandatory for SWIFT participants

**Time:** 07:15 to 15:30

**Contents:** Participant receives a Y-copy of an MT 202 from another direct participant via SWIFT. The GPI fields 121 (UETR) and 111 are shown in the SWIFT message.

**Result:** The system displays the executed MT 202 as “settled” in the ICM. The PM account is credited. The MT 202 has been received and processed correctly.



**Test ID:** **IOP-PM-210**

**Function:** Sending an MT 103 (customer payment) to an indirect participant

**Type:** Only mandatory for PM SWIFT participants

**Time:** 07:15 to 14:00

**Contents:** Participant sends a Y-copy of an MT 103 to an indirect participant via SWIFT.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant (via which the indirect participant participates) BIC addressee in the T2 directory
:103	TGT
:113	First digit (banking priority): N
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:52A	BIC of ordering institution
:57A	BIC of indirect participant
:59	Account number of customer
:71A	Details of charges

**Result:** The system displays the executed MT 103 as “settled” in the ICM.  
The PM account is debited.



**Test ID:** **IOP-PM-215**  
**Function:** Receiving an MT 103 (customer payment) from an indirect participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 14:00

**Contents:** Participant receives a Y-copy of an MT 202 from an indirect participant via SWIFT. The GPI fields 121 (UETR) and 111 are shown in the SWIFT message.

**Result:** The system displays the executed MT 103 as “settled” in the ICM.  
The PM account is credited.  
The MT 103 has been received and processed correctly.

**Test ID:** **IOP-PM-220**  
**Function:** Sending an MT 103 STP to an indirect participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 14:00

**Contents:** Participant sends a Y-copy of an MT 103 STP to another indirect participant via SWIFT.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant (via which the indirect participant participates) BIC addressee in the T2 directory
:103	TGT
:113	First digit (banking priority): N
:119	STP (straight-through processing)
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:52A	BIC of ordering institution
:57A	BIC of indirect T2 participant pursuant to T2 directory
:59	IBAN (22 digits) and BIC
:71A	Details of charges

**Result:** The system displays the executed MT 103 STP as “settled” in the ICM.  
The PM account is debited.



**Test ID:** **IOP-PM-225**  
**Function:** Receiving an MT 103 STP from an indirect participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 14:00

**Contents:** Participant receives a Y-copy of an MT 103 STP from an indirect participant via SWIFT. The GPI fields 121 (UETR) and 111 are shown in the SWIFT message.

**Result:** The system displays the executed MT 103 STP as “settled” in the ICM. The PM account is credited.  
The MT 103 STP has been received and processed correctly.

**Test ID:** **IOP-PM-230**  
**Function:** Sending an MT 202 (bank-to-bank payment) to an indirect participant  
**Type:** Only mandatory for PM SWIFT participants  
**Time:** 07:15 to 15:30

**Contents:** Participant sends a Y-copy of an MT 202 to another indirect participant via SWIFT.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant (via which the indirect participant participates) BIC addressee in the T2 directory
:103	TGT
:113	First digit (banking priority): N
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:52A	BIC of ordering institution
:58A:	BIC of indirect T2 participant pursuant to T2 directory

**Result:** The system displays the executed MT 202 as “settled” in the ICM.  
The PM account is debited.

**Test ID:** **IOP-PM-235**

**Function:** Receiving an MT 202 (bank-to-bank payment) from an indirect participant

**Type:** Only mandatory for PM SWIFT participants

**Time:** 07:15 to 15:30

**Contents:** Participant receives a Y-copy of an MT 202 from an indirect participant via SWIFT. The GPI fields 121 (UETR) and 111 are shown in the SWIFT message.

**Result:** The system displays the executed MT 202 as “settled” in the ICM.  
The PM account is credited.  
The MT 202 has been received and processed correctly.

**Test ID:** **IOP-PM-330/335**



**Function:** Receiving an account statement MT 940 (IOP-PM 330) or  
MT 950 (IOP-PM 335) for the PM account

**Type:** Mandatory for SWIFT participants

**Time:** After 15:30

**Contents:** Participant receives the account statement for its PM account.

**Result:** SWIFT participants receive an MT 940 / MT 950 automatically at the end of the business day.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

### 4.3 Technical tests – home accounting module (HAM SWIFT)

**Test ID:** IOP-HAM-110  
**Function:** Sending an MT 202 (simplified) to a HAM account at the same central bank  
**Type:** Mandatory for SWIFT participants  
**Time:** 07:15 to 15:30

**Requirements:**

- Access to the ICM tested successfully
- Sufficient funds on the HAM account

**Contents:** Participant sends an MT 202 (simplified) to another HAM account.



Field	Description
Sender:	BIC of direct HAM participant
Recipient:	TRGTXEH0XXX
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:58A	BIC of another HAM participant

**Result:** The system indicates that the HAM account has been debited in the ICM. The system displays the executed MT 202 as “final” in the ICM.

**Test ID:** IOP-HAM-120  
**Function:** Sending an MT 202 (simplified) to a PM account of another participant at the same central bank  
**Type:** Mandatory for SWIFT participants  
**Time:** 07:15 to 15:30

**Contents:** Participant sends an MT 202 (simplified) to a PM account of another participant without “TGT” in field 103 (no Y-copy).



	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	BIC of direct HAM participant
Recipient:	TRGTXEH0XXX
:121	Unique end-to-end transaction reference number (UETR)
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:57A	MARKDEF0XXX
:58A	BIC of another PM participant pursuant to specification

**Result:** The system indicates that the HAM account has been debited in the ICM.  
The system displays the executed MT 202 as “final” in the ICM.

**Test ID:** **IOP-HAM-190/195**

**Function:** Receiving an account statement MT 940 (IOP-HAM-190) or  
MT 950 (IOP-HAM-195) for the HAM account

**Type:** Mandatory for SWIFT participants

**Time:** After 15:30

**Contents:** Participant receives the account statement for its HAM account.

**Result:** SWIFT participants receive an MT 940 / MT 950 automatically at the end of  
the business day.

#### 4.4 Technical tests – payments module (PM Internet)

The Bundesbank's customer simulator is available for receiving SWIFT MT messages pursuant to Chapter 2.4. It mirrors the incoming message and sends it back to the submitter.

Sample for recording a payment to be mirrored

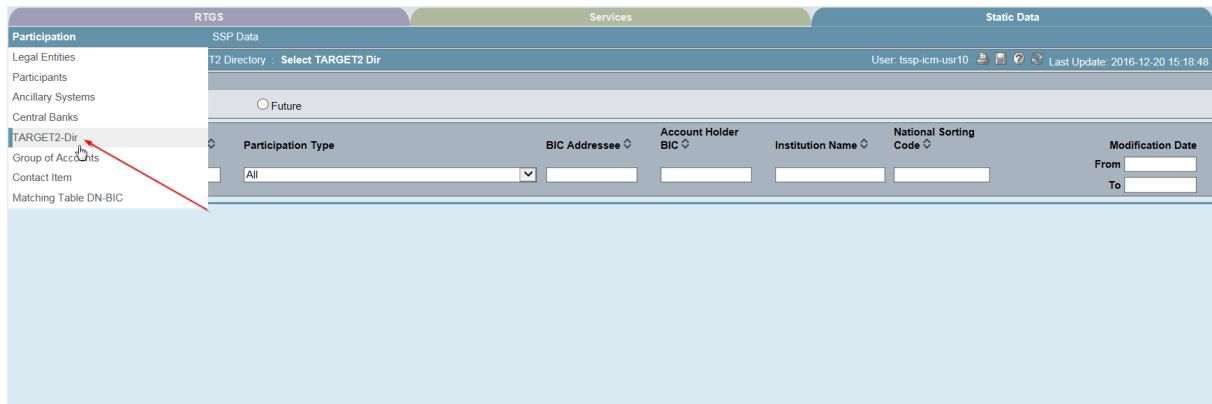
Mandatory fields			
Field	Option	Field Name	Content
:113		Receiver Bank Priority	BIC: [ZYBLDEF0XXX] [Normal]
:20		TRN	[IOP-PM-115]
:23B		Bank Operation Code	[CRED]
:32A		Value Date/ Currency/ Amount	Date: [2017-01-03] Currency: EUR Amount: [10.15]
:50	[K]	Ordering Customer	Account Number: [123456] Name: [Test] Address 1: [ ] Address 2: [ ] Address 3: [ ]
:52	A	Ordering Institution	BIC: [ZYEIFDF0700]
:59	[ ]	Beneficiary Customer	Account Number: [123465789] Name: [Test] Address 1: [ ] Address 2: [ ] Address 3: [ ]
Conditional fields - Amount and Charges			
Field	Option	Field Name	Content
:33B		Currency/ Instructed Amount	Currency: EUR Amount: [10.15]
:36		Exchange Rate	[ ]
:71A		Details of Charges	[OUR]
:71F	+	Senders Charges	Currency: [ ] Amount: [ ]
:71G		Receivers Charges	Currency: [ ] Amount: [ ]
Optional Fields			
Field	Option	Field Name	Content
:13C	+	Time Indication Code	Code: [ ] Time(hhmm): [ ] Sign: [ + ] Offset(hhmm): [ ]
:23E	+	Instruction Code	Code: [ ] Additional Info.: [ ]
:26T		Transaction Type Code	Type: [ ]
:53	[ ]	Sender's Correspondent	
:54	[ ]	Receiver's Correspondent	
:55	[ ]	Third Reimbursement Institution	
:56	[ ]	Intermediary Institution	
:57	A [ ]	Account with Institution	C/D Ident.: [ ] Account Number: [654321] BIC: [ZYEIFDF0700]
:70	+	Remittance Information	[ ]
:72	+	Sender to Receiver Information	[/REC/ECHOTGT1]
:77B	+	Regulatory Reporting	[ ]

Enter own BIC here

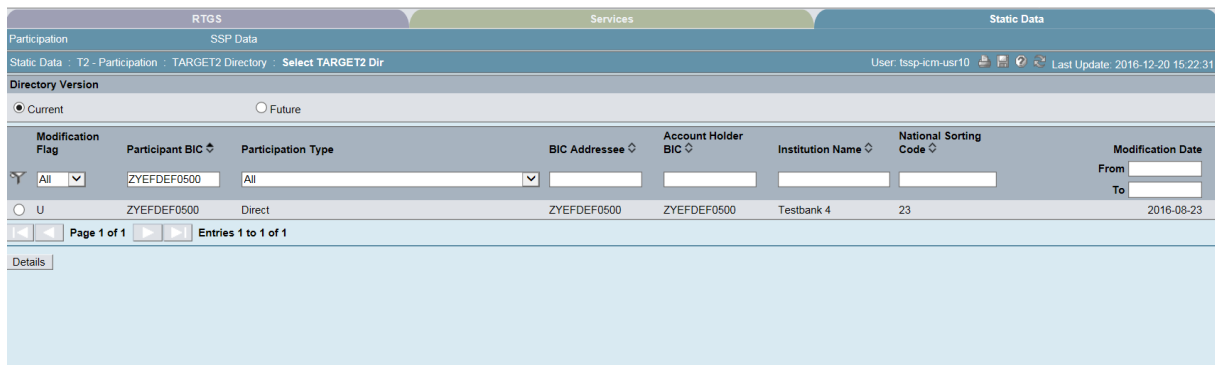
Codeword required

Test ID: **IOP-PM-040**  
 Function: Query TARGET2 directory in the ICM  
 Type: Only mandatory for PM Internet-based participants  
 Time: Available permanently

Contents: Participant opens the T2 directory via Static Data > Participation > TARGET2-Dir. Participant chooses a modification flag and enters a test BIC in the field "Participant BIC". The system displays the information required once the filter button has been selected.



**Result:** The system displays the information required.



Modification Flag	Participant BIC	Participation Type	BIC Addressee	Account Holder BIC	Institution Name	National Sorting Code	Modification Date
U	ZYEFDEF0500	Direct	ZYEFDEF0500	ZYEFDEF0500	Testbank 4	23	2016-08-23

**Test ID:** **IOP-PM-110**

**Function:** Sending an MT 103 (customer payment) to another direct participant

**Type:** Only mandatory for PM Internet-based participants



**Time:** 07:15 to 14:00

**Requirements:**

(applies to all of the following test cases)

- Access to the ICM tested successfully
- Sufficient funds on the PM account

**Contents:** Participant creates an MT 103 to another direct participant with priority "normal" in the ICM (see next page).

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
Sender:	Own BIC of direct participant (see field 52)
Recipient:	BIC of another direct participant
:113	First digit (banking priority): N
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:57	Receiver BIC (see "optional fields")
:59	Account number of customer
:71A	Details of charges

**Result:** The system displays the executed MT 103 as "settled" in the ICM.  
The PM account is debited.

RTGS				Services			
Payments & Messages		Liquidity	Limits & Reservations		Ancillary Systems	Credit Transfer	
RTGS : Payments and Messages : Select Payment							
Pos	Priority	Transaction Reference	MT	Debit Account (BIC)	Credit Account (BIC)	Amount (EUR)	Payment Status
<input type="checkbox"/>	N	IOP-PM-110	103	▶ ZYEIDEF0700	▶ ZYBLDEF0	1.00	Settled
<input type="checkbox"/>	N	IOP-PM-110-1	103	▶ ZYEIDEF0700	▶ ZYEEDEF0	1.00	Settled
<input type="checkbox"/>	N	IOP-PM-210	103	▶ ZYEIDEF0700	▶ ZYEEDEF0	1.00	Settled
<input type="checkbox"/>	N	IOP-PM-110 1	103	▶ ZYBLDEF0	▶ ZYEIDEF0700	1.00	Settled





Sample for recording an MT 103 payment to be mirrored

Payments & Messages	Liquidity	Limits & Reservations	Ancillary Systems	Credit Transfer
RTGS : Credit Transfer : Enter MT103				User: [ ]
<b>- Mandatory fields</b>				
Field	Option	Field Name	Content	
:113		Receiver	BIC: ZYBLDEF0XXX	
		Bank Priority	Normal	
:20		TRN	IOP-PM-110	
:23B		Bank Operation Code	CRED	
:32A		Value Date/ Currency/ Amount	Date: 2017-01-03 Currency: EUR Amount: 1.11	
:50	K	Ordering Customer	Account Number: / 123456 Name: Test Address 1: [ ] Address 2: [ ] Address 3: [ ]	
:52	A	Ordering Institution	BIC: ZYEIDEF0700	
:59		Beneficiary Customer	Account Number: / 123465789 Name: Test Address 1: [ ] Address 2: [ ] Address 3: [ ]	
<b>- Conditional fields - Amount and Charges</b>				
Field	Option	Field Name	Content	
:33B		Currency/ Instructed Amount	Currency: EUR Amount: 1.11	
:36		Exchange Rate	[ ]	
:71A		Details of Charges	OUR	
:71F	+	Senders Charges	Currency: [ ] Amount: [ ]	
:71G		Receivers Charges	Currency: [ ] Amount: [ ]	
<b>+ Optional Fields</b>				
Submit   Save selected Field options   Select Template   Save As Template				
<b>- Optional Fields</b>				
Field	Option	Field Name	Content	
:13C		Time Indication Code	Code: [ ] Time(hhmm): [ ] Sign: [ ] Offset(hhmm): [ ]	
:23E		Instruction Code	Code: [ ] Additional Info.: [ ]	
:26T		Transaction Type Code	Type: [ ]	
:53		Sender's Correspondent	[ ]	
:54		Receiver's Correspondent	[ ]	
:55		Third Reimbursement Institution	[ ]	
:56		Intermediary Institution	[ ]	
:57	A	Account with Institution	C/D Ident.: / [ ] Account Number: / [ ] BIC: ZYEIDEF0700	
:70		Remittance Information	[ ]	
:72		Sender to Receiver Information	/REC/ECHOTGT2	
:77B		Regulatory Reporting	[ ]	

Check recording

Reserve Management	Standing Facilities	Administration		
Services : Administration : Task Queue : Select Task Queue				
Module	Kind of Task	Record ID	Amount (EUR)	Status
RTGS	All	[ ]	[ ]	To confirm
<input checked="" type="checkbox"/> RTGS	MT103	IOP-PM-110	1.11	To confirm
Page 1 of 1   Entries 1 to 1 of 1				
Details   Save Selection   Load Selection   Default Selection				

Please note that a second user must check the recording of payments via the "Credit Transfer" function.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

The check recording is to be carried out via the Services tab under Administration > Task Queue. The recorded payments can be found in the RTGS module.

Test ID: **IOP-PM-115a**  
Function: Receiving an MT 103 (customer payment) from another direct participant  
Type: Only mandatory for PM Internet-based participants  
Time: 07:15 to 14:00

Contents: Participant checks in the ICM whether it has received an MT 103 from another direct participant.

Result: The system displays the executed MT 103 as “settled” in the ICM.  
The PM account is credited.



Sample of a recorded and mirrored payment

RTGS : Payments and Messages : Select Payment										
Pos	Priority	Transaction Reference	MT	Debit Account (BIC)	Credit Account (BIC)	Amount (EUR)	Payment Status	Earliest Debit Time	Lates	
<input type="checkbox"/>	N	IOP-PM-115	103	▶ ZYEIDEF0700	▶ ZYBLDEF0	10.15	Settled			
<input type="checkbox"/>	N	IOP-PM-115 1	103	▶ ZYBLDEF0	▶ ZYEIDEF0700	10.15	Settled			
Total Value of entries (EUR)				20.30						
Page 1 of 1 Entries 1 to 2 of 2										

Test ID: **IOP-PM-120**  
Function: Sending an MT 103 STP to another direct participant  
Type: Only mandatory for PM Internet-based participants  
Time: 07:15 to 14:00

Contents: Participant records an MT 103 STP to another direct participant with priority “normal” in the ICM.  
An IBAN must be entered in field 59.

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of another direct participant
:113	First digit (banking priority): N
:119	STP (straight-through processing)
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:52A	BIC of ordering institution

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Field	Description
:57A	BIC of account-holding bank (dir. Participant)
:59	Customer's IBAN (22 digits) and name
:71A	Details of charges

**Result:** The system displays the executed MT 103 STP as "settled" in the ICM. The PM account is debited.

**Test ID:** IOP-PM-125a  
**Function:** Receiving an MT 103 STP from another direct participant  
**Type:** Only mandatory for PM Internet-based participants  
**Time:** 07:15 to 14:00

**Contents:** Participant checks in the ICM whether it has received an MT 103 STP from another direct participant.

**Result:** The system displays the executed MT 103 STP as "settled" in the ICM. The PM account is credited.

### Sample for recording an MT 103 STP payment to be mirrored

RTGS : Credit Transfer : Enter MT103+

- Mandatory fields			
Field	Option	Field Name	Content
:113		Receiver	BIC: ZYBLDEF0XXX
:119		Bank Priority	Normal
		Validation Flag	STP
:20		TRN	IOP-PM-125
:23B		Bank Operation Code	CRED
:32A		Value Date/ Currency/ Amount	Date: 2017-01-03   Currency: EUR   Amount: 12.50
:50	K	Ordering Customer	Account Number: 123456 Name: Test Address 1: Address 2: Address 3:
:52	A	Ordering Institution	BIC: ZYEIDEF0700
:59		Beneficiary Customer	Account Number: / 22-stellige IBAN Name: Test Address 1: Address 2: Address 3:
- Conditional fields - Amount and Charges			
Field	Option	Field Name	Content
:33B		Currency/ Instructed Amount	Currency: EUR   Amount: 12.50
:36		Exchange Rate	
:71A		Details of Charges	OUR
:71F	+	Senders Charges	Currency:   Amount:
:71G		Receivers Charges	Currency:   Amount:
- Optional Fields			
Field	Option	Field Name	Content
:13C		Time Indication Code	Code:   Time(hhmm):   Sign: +   Offset(hhmm):
:23E		Instruction Code	Code:   Additional Info.:
:26T		Transaction Type Code	Type:
:53		Sender's Correspondent	
:54		Receiver's Correspondent	
:55		Third Reimbursement Institution	
:56		Intermediary Institution	
:57	A	Account with Institution	C/D ident.:   Account Number:   BIC: ZYEIDEF0700
:70	+	Remittance Information	
:72	+	Sender to Receiver Information	/REC/ECHOTGT2
:77B	+	Regulatory Reporting	

Test ID: **IOP-PM-130**

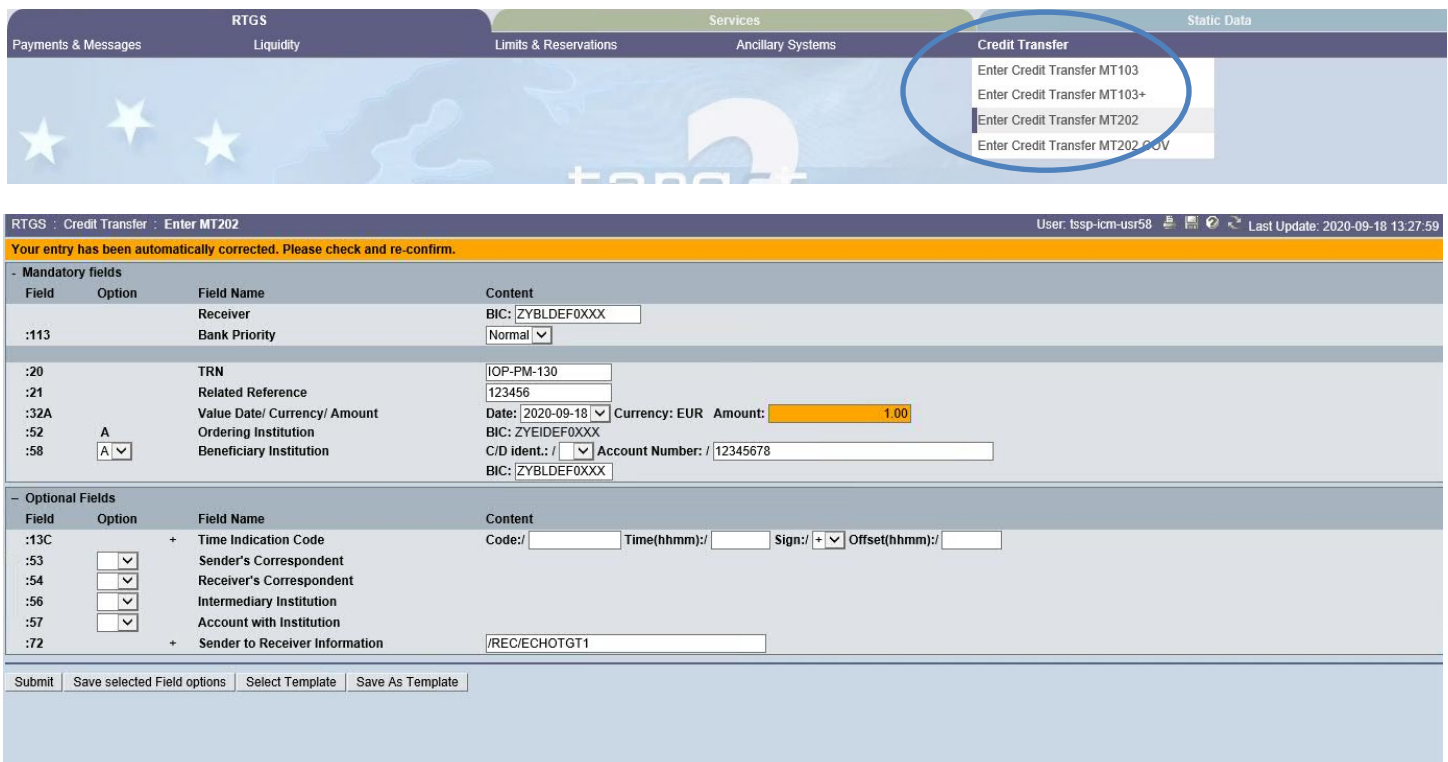
Function: Sending an MT 202 (bank-to-bank payment) to another direct participant. The use of the [Bundesbank customer simulator \(Chapter 2.4\)](#) is suited to this scenario. It can be used to mirror the messages addressed to BIC ZYBLDEF0XXX, which means that submitted messages are sent back to the submitter. Tip: Use the customer simulator to execute IOP-PM-135, as it can also act as the sender of an MT 202 message.

Type: Mandatory for internet-based participants

Time: 07:15 to 15:30

Contents: Participant records an MT 202 to another direct participant in the ICM. This is possible under RTGS → Credit Transfer → Enter Credit Transfer MT 202.

### Credit transfer



The screenshot shows the TARGET2 interface with the 'Credit Transfer' menu highlighted. Below it, the 'Enter MT202' form is displayed, showing mandatory and optional fields for a credit transfer transaction.

**Mandatory fields:**



Field	Option	Field Name	Content
:113		Receiver	BIC: ZYBLDEF0XXX
		Bank Priority	Normal
:20		TRN	IOP-PM-130
:21		Related Reference	123456
:32A		Value Date/ Currency/ Amount	Date: 2020-09-18   Currency: EUR   Amount: 1.00
:52	A	Ordering Institution	BIC: ZYEIDF0XXX
:58	A	Beneficiary Institution	C/D ident.: /   Account Number: 12345678   BIC: ZYBLDEF0XXX

**Optional Fields:**

Field	Option	Field Name	Content
:13C	+	Time Indication Code	Code:/   Time(hhmm):/   Sign:/ +   Offset(hhmm):/
:53		Sender's Correspondent	
:54		Receiver's Correspondent	
:56		Intermediary Institution	
:57		Account with Institution	
:72	+	Sender to Receiver Information	/REC/ECHOTGT1

Buttons: Submit | Save selected Field options | Select Template | Save As Template



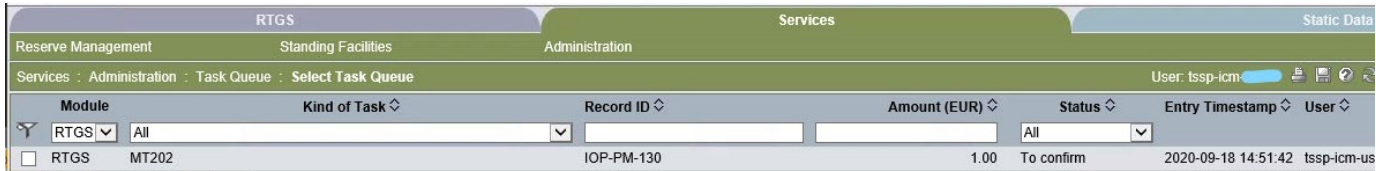
	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Please complete the corresponding fields of the MT 202 as follows:

Field	Description
Sender:	BIC of direct participant (its own BIC)
Receiver:	BIC of another direct participant (BIC of test bank/BIC addressee in the T2 directory)
:113	Normal (banking priority)
:20	Transaction reference number (TRN) – Please enter the test case ID here
:21	Reference of ordering institution (freely selectable)
:32A	Value date, currency code, amount
:52A	BIC of ordering institution
:58A	BIC of direct T2 participant pursuant to T2 directory (identical to receiver's BIC)
:72 (optional)	Can be completed if customer simulator is to be used (see <a href="#">Chapter 2.4</a> )

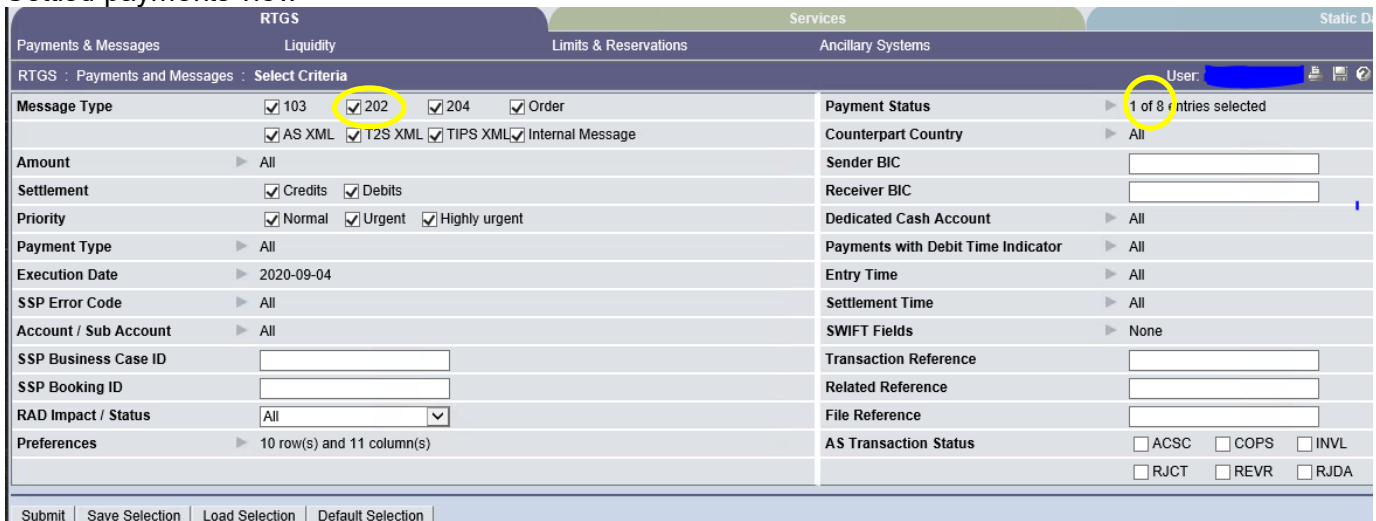
**Result:** Following successful recording of the MT 202, the payment must then be approved using the dual control principle via Services → Administration → Task Queue (Module = RTGS).  
The status then changes from “To confirm” to “Completed”. Following approval, the executed MT 202 can be found on the “Payments” tab (RTGS → Payments and Messages) (filter by MT 202 and “settled” payment status).

**Task queue:** The PM account is debited.





Module	Kind of Task	Record ID	Amount (EUR)	Status	Entry Timestamp	User
RTGS	MT202	IOP-PM-130	1.00	To confirm	2020-09-18 14:51:42	tssp-icm-us

### Settled payments view



Message Type	Payment Status
<input checked="" type="checkbox"/> 103 <input checked="" type="checkbox"/> 202 <input checked="" type="checkbox"/> 204 <input checked="" type="checkbox"/> Order <input checked="" type="checkbox"/> AS XML <input checked="" type="checkbox"/> T2S XML <input checked="" type="checkbox"/> TIPS XML <input checked="" type="checkbox"/> Internal Message	1 of 8 entries selected
Amount: All Settlement: Credits, Debits Priority: Normal, Urgent, Highly urgent Payment Type: All Execution Date: 2020-09-04 SSP Error Code: All Account / Sub Account: All SSP Business Case ID: <input type="text"/> SSP Booking ID: <input type="text"/> RAD Impact / Status: All	Counterpart Country: All Sender BIC: <input type="text"/> Receiver BIC: <input type="text"/> Dedicated Cash Account: All Payments with Debit Time Indicator: All Entry Time: All Settlement Time: All SWIFT Fields: None Transaction Reference: <input type="text"/> Related Reference: <input type="text"/> File Reference: <input type="text"/> AS Transaction Status: <input type="checkbox"/> ACSC <input type="checkbox"/> COPS <input type="checkbox"/> INVL <input type="checkbox"/> RJCT <input type="checkbox"/> REVR <input type="checkbox"/> RJDA

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	



RTGS		Services				Static Data				
Payments & Messages	Liquidity	Limits & Reservations	Ancillary Systems	Credit Transfer						
RTGS : Payments and Messages : Select Payment							User: tssp-icm			
Pos	Priority	Transaction Reference	MT	Debit Account (BIC)	Credit Account (BIC)	Amount (EUR)	Payment Status	Earliest Debit Time	Latest Debit Time	SSP error code
<input type="checkbox"/>	N	IOP-PM-130 1	202	ZYBLDEF0	ZYEIDEF0	1.00	Settled			
<input type="checkbox"/>	N	IOP-PM-130	202	ZYBLDEF0	ZYEIDEF0	1.00	Settled			
Total Value of entries (EUR)				2.00						

- Test ID:** IOP-PM-135
- Function:** Receiving an MT 202 (bank-to-bank payment) from another direct participant. The use of the [Bundesbank customer simulator \(Chapter 2.4\)](#) is suited to this scenario. It can be used to mirror the messages addressed to BIC ZYBLDEF0XXX, which means that submitted messages are sent back to the submitter.
- Type:** Mandatory for internet-based participants
- Time:** 07:15 to 15:30
- Contents:** Participant checks in the ICM whether it has received an MT 202 from another direct participant.
- Result:** The system displays the executed MT 202 as “settled” in the ICM. The PM account is credited.

Sample for recording an MT 202 payment to be mirrored

Mandatory fields			
Field	Option	Field Name	Content
:113		Receiver	BIC: ZYBLDEF0XXX
		Bank Priority	Normal
:20		TRN	IOP-PM-135
:21		Related Reference	123456
:32A		Value Date/ Currency/ Amount	Date: 2017-01-03 Currency: EUR Amount: 13.50
:52	A	Ordering Institution	BIC: ZYEIDEF0700
:58	A	Beneficiary Institution	C/D ident.: / Account Number: / 12345678 BIC: ZYEIDEF0700
Optional Fields			
Field	Option	Field Name	Content
:13C	+	Time Indication Code	Code:/ Time(hhmm):/ Sign:/ + Offset(hhmm):/
:53		Sender's Correspondent	
:54		Receiver's Correspondent	
:56		Intermediary Institution	
:57		Account with Institution	
:72	+	Sender to Receiver Information	/REC/ECHOTGT1

Submit Save selected Field options Select Template Save As Template

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

**Test ID:** IOP-PM-210  
**Function:** Sending an MT 103 (customer payment) to an indirect participant  
**Type:** Only mandatory for PM Internet-based participants  
**Time:** 07:15 to 14:00

**Contents:** Participant records an MT 103 to an indirect participant in the ICM.

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant (via which the indirect participant participates) BIC addressee in the T2 directory
:113	First digit (banking priority): N
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:52A	BIC of ordering institution
:57A	BIC of indirect participant (see "optional fields")
:59	Account number of customer
:71A	Details of charges

**Result:** The system displays the executed MT 103 as "settled" in the ICM.  
 The PM account is debited.

Payment MT 103 recorded in the ICM



Mandatory fields			
Field	Option	Field Name	Content
:113		Receiver Bank Priority	BIC: ZYEEDEF0XXX Normal
:20		TRN	IOP-PM-210
:23B		Bank Operation Code	CRED
:32A		Value Date/ Currency/ Amount	Date: 2017-01-03 Currency: EUR Amount: 21.00
:50	K	Ordering Customer	Account Number: / 123456 Name: Test Address 1: Address 2: Address 3:
:52	A	Ordering Institution	BIC: ZYEIFE0700
:59		Beneficiary Customer	Account Number: / 123456789 Name: Test Address 1: Address 2: Address 3:
Conditional fields - Amount and Charges			
Field	Option	Field Name	Content
:33B		Currency/ Instructed Amount	Currency: EUR Amount: 21.00
:36		Exchange Rate	
:71A		Details of Charges	OUR
:71F	+	Senders Charges	Currency: Amount:
:71G		Receivers Charges	Currency: Amount:
Optional Fields			
Field	Option	Field Name	Content
:13C	+	Time Indication Code	Code:/ Time(hhmm):/ Sign:/ + Offset(hhmm):/
:23E	+	Instruction Code	Code: / Additional Info. /
:26T		Transaction Type Code	Type: /
:53		Sender's Correspondent	
:54		Receiver's Correspondent	
:55		Third Reimbursement Institution	
:56		Intermediary Institution	
:57	A	Account with Institution	C/D ident.: / Account Number: / BIC: ZYEHDEF0XXX
:70	+	Remittance Information	
:72	+	Sender to Receiver Information	
:77B	+	Regulatory Reporting	

Submit | Save selected Field options | Select Template | Save As Template

Test ID: **IOP-PM-215**  
 Function: Receiving an MT 103 (customer payment) from an indirect participant  
 Type: Only mandatory for PM Internet-based participants  
 Time: 07:15 to 14:00

Contents: Participant checks in the ICM whether it has received an MT 103 from an indirect participant.

Result: The system displays the executed MT 103 as "settled" in the ICM.  
 The PM account is credited.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

**Test ID:** IOP-PM-220  
**Function:** Sending an MT 103 STP to an indirect participant  
**Type:** Only mandatory for PM Internet-based participants  
**Time:** 07:15 to 14:00

**Contents:** Participant records an MT 103 STP to another direct participant in the ICM.

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant (via which the indirect participant participates) BIC addressee in the T2 directory
:113	First digit (banking priority): N
:119	STP (straight-through processing)
:20	Transaction reference number (TRN)
:23B	CRED
:32A	Value date, currency code, amount
:33B	Amount and currency
:50K	Account number and name/address
:52A	BIC of ordering institution
:57A	BIC of indirect T2 participant pursuant to T2 directory
:59	Customer's IBAN (22 digits) and name
:71A	Details of charges

**Result:** The system displays the executed MT 103 STP as "settled" in the ICM. The PM account is debited.

Payment MT 103+ recorded in the ICM

RTGS : Credit Transfer : Enter MT103+

Mandatory fields			
Field	Option	Field Name	Content
:113		Receiver	BIC: ZYEEDEF0XXX
:119		Bank Priority	Normal
		Validation Flag	STP
:20		TRN	IOP-PM-220
:23B		Bank Operation Code	CRED
:32A		Value Date/ Currency/ Amount	Date: 2017-01-03 Currency: EUR Amount: 22.00
:50	K	Ordering Customer	Account Number: / 123456 Name: Test Address 1: Address 2: Address 3:
:52	A	Ordering Institution	BIC: ZYEEDEF0700
:59		Beneficiary Customer	Account Number: / 22-stellige IBAN Name: Test Address 1: Address 2: Address 3:

Conditional fields - Amount and Charges			
Field	Option	Field Name	Content
:33B		Currency/ Instructed Amount	Currency: Amount: 22.00
:36		Exchange Rate	
:71A		Details of Charges	OUR
:71F	+	Senders Charges	Currency: Amount:
:71G		Receivers Charges	Currency: Amount:

+ Optional Fields



Submit Save selected Field options Select Template Save As Template

Optional Fields			
Field	Option	Field Name	Content
:13C	+	Time Indication Code	Code: / Time(hhmm): / Sign: / Offset(hhmm):
:23E	+	Instruction Code	Code: / Additional Info.:
:26T		Transaction Type Code	Type:
:53		Sender's Correspondent	
:54		Receiver's Correspondent	
:55		Third Reimbursement Institution	
:56		Intermediary Institution	
:57	A	Account with Institution	C/D Ident.: / Account Number: / BIC: ZYEEDEF0XXX
:70	+	Remittance Information	
:72	+	Sender to Receiver Information	
:77B	+	Regulatory Reporting	

Submit Save selected Field options Select Template Save As Template

Test ID: **IOP-PM-225**  
 Function: Receiving an MT 103 STP from an indirect participant  
 Type: Only mandatory for PM Internet-based participants  
 Time: 07:15 to 14:00

Contents: Participant checks in the ICM whether it has received an MT 103 STP from an indirect participant.

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	<b>TARGET2 Test Guideline</b>	

Result: The system displays the executed MT 103 STP as “settled” in the ICM.  
The PM account is credited.  
The MT 103 STP has been received and processed correctly.

Test ID: **IOP-PM-230**  
Function: Sending an MT 202 (bank-to-bank payment) to an indirect participant  
Type: Only mandatory for PM Internet-based participants  
Time: 07:15 to 15:30



Contents: Participant records an MT 202 to an indirect participant in the ICM.

Field	Description
Sender:	BIC of direct participant
Recipient:	BIC of direct participant (via which the indirect participant participates) BIC addressee in the T2 directory
:113	First digit (banking priority): N
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:52A	BIC of ordering institution
:58A	BIC of indirect T2 participant pursuant to T2 directory

Result: The system displays the executed MT 202 as “settled” in the ICM.  
The PM account is debited.

Payment recorded in the ICM

Field	Option	Field Name	Content
<b>Mandatory fields</b>			
		Receiver	BIC: ZYEEDEF0XXX
:113		Bank Priority	Normal
:20		TRN	IOP-PM-230
:21		Related Reference	123456
:32A		Value Date/ Currency/ Amount	Date: 2017-01-03 Currency: EUR Amount: 23.00
:52	A	Ordering Institution	BIC: ZYEIDEF0700
:58	A	Beneficiary Institution	C/D ident.: / Account Number: / BIC: ZYEHDEF0XX
<b>Optional Fields</b>			
<input type="button" value="Submit"/> <input type="button" value="Save selected Field options"/> <input type="button" value="Select Template"/> <input type="button" value="Save As Template"/>			

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

**Test ID:** IOP-PM-235  
**Function:** Receiving an MT 202 (bank-to-bank payment) from an indirect participant  
**Type:** Only mandatory for PM Internet-based participants  
**Time:** 07:15 to 15:30

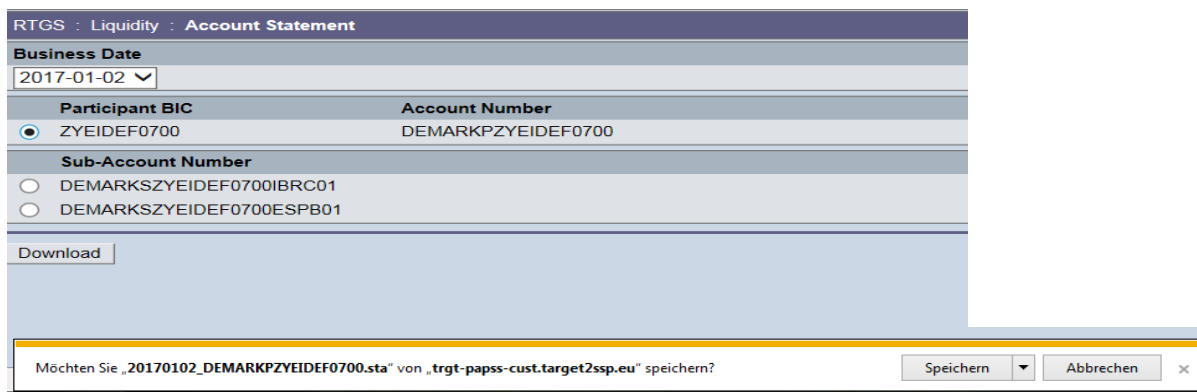
**Contents:** Participant checks in the ICM whether it has received an MT 202 from another indirect participant.

**Result:** The system displays the executed MT 202 as “settled” in the ICM.  
 The PM account is credited.

**Test ID:** IOP-PM-330  
**Function:** Downloading an account statement MT 940  
**Type:** Mandatory for internet-based participants  
**Time:** After 15:30

**Contents:** Participant downloads the account statement for its PM account from the ICM.

**Result:** Internet-based participants can download the account statement from the ICM as of the next business day, approx. 16:15.



Once the STA file has been saved, it can be opened using Microsoft Editor and then saved as an Excel file. This file must be sent to the Bundesbank as proof of successful testing. A simple screenshot of the ICM screen is not adequate.



#### 4.5 Technical tests – home accounting module (HAM Internet)

**Test ID:** IOP-HAM-110  
**Function:** Sending an MT 202 (simplified) to a HAM account at the same central bank  
**Type:** Mandatory for HAM Internet-based participants  
**Time:** 07:15 to 15:30

**Contents:** Participant sends an MT 202 (simplified) to another HAM account at the same central bank



Payment recorded in the ICM

RTGS		Home Account
Payments		Liquidity
Home Account : Liquidity : Liquidity Transfer (other Accounts)		
<b>Participant</b>		
Participant BIC	ZYEJDEF0	
Participant Name	Testbank 6	
Account Number	DEMARKHZYEJDEF0XXX	
Current Balance (EUR)	582.00	
<b>Counterpart for Liquidity Transfer</b>		
<b>Field Name</b>	<b>Content</b>	
Participant BIC	<input type="text" value="ZYEDEF0321"/>	
Module	<input checked="" type="radio"/> HAM <input type="radio"/> RTGS	
Responsible Central Bank	<input type="text" value="DE"/>	
Liquidity transfer (EUR)	<input type="text" value="1.00"/>	
<input type="button" value="Submit"/>		

**Result:** The system indicates that the HAM account has been debited in the ICM. The system displays the executed MT 202 as “final” in the ICM.

**Test ID:** IOP-HAM-120  
**Function:** Sending an MT 202 (simplified) to a PM account of another participant at the same central bank  
**Type:** Mandatory for HAM Internet-based participants  
**Time:** 07:15 to 15:30

**Contents:** Participant sends an MT 202 (simplified) to a PM account of another participant.

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	<b>TARGET2 Test Guideline</b>	

Payment recorded in the ICM

RTGS		Home Account
Payments	Liquidity	
Home Account : Liquidity : Liquidity Transfer (other Accounts)		
<b>Participant</b>		
Participant BIC	ZYEJDEF0	
Participant Name	Testbank 6	
Account Number	DEMARKHZYEJDEF0XXX	
Current Balance (EUR)	582.00	
<b>Counterpart for Liquidity Transfer</b>		
<b>Field Name</b>	<b>Content</b>	
Participant BIC	<input type="text" value="ZYEEDEF0XXX"/>	
Module	<input type="radio"/> HAM <input checked="" type="radio"/> RTGS	
Responsible Central Bank	<input type="text" value="DE"/> ▼	
Liquidity transfer (EUR)	<input type="text" value="1.00"/>	
<input type="button" value="Submit"/>		

**Result:** The system indicates that the HAM account has been debited in the ICM. The system displays the executed MT 202 as “final” in the ICM.

**Test ID:** **IOP-HAM-190**



**Function:** Downloading an account statement MT 940

**Type:** Mandatory for HAM Internet-based participants

**Time:** After 15:30

**Contents:** Participant downloads the account statement for its HAM account from the ICM.

**Result:** Participant can download its account statement for the previous day as of the new business day.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

#### 4.6 Technical tests for co-managed HAM accounts

**Test ID:** IOP-HAM-620  
**Function:** Sending an MT 202 (simplified) from a HAM account to a PM account of another participant at the same central bank via a co-manager  
**Type:** Mandatory for co-manager  
**Time:** 07:15 to 15:30

**Contents:** Co-manager initiates an MT 202 (simplified) from the co-managed HAM account to a PM account of another participant via the ICM.  
 Field 103 is sent without "TGT" (no "Y-copy").



Field	Description
Sender:	BIC of co-manager
Recipient:	TRGTXEH0XXX
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:53A	Co-managed HAM participant
:57A	MARKDEF0XXX
:58A	BIC of another PM participant pursuant to specification

**Result:** The system indicates that the HAM account has been debited in the ICM.

**Test ID:** IOP-HAM-625  
**Function:** Sending an MT 202 (simplified) by a co-manager from a HAM account to the PM account of the co-manager  
**Type:** Mandatory for co-manager  
**Time:** 07:15 to 15:30

**Contents:** Co-manager initiates an MT 202 (simplified) from the co-managed HAM account to the PM account of the co-manager via the ICM.  
 Field 103 is sent without "TGT" (no "Y-copy").

Field	Description
Sender:	BIC of co-manager
Recipient:	TRGTXEH0XXX
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:53A	Co-managed HAM participant
:57A	MARKDEF0XXX
:58A	BIC of co-manager

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

**Result:** The system indicates that the HAM account has been debited in the ICM. The system displays the executed MT 202 as “final” in the ICM.

**Test ID:** **IOP-HAM-690/695**

**Function:** Receiving an account statement MT 940 (IOP-HAM-690) or MT 950 (IOP-HAM-695) for the HAM account

**Type:** Mandatory for co-manager

**Time:** After 15:30

**Contents:** Participant receives the account statement for its PM account or downloads it from the ICM.

**Result:** SWIFT participants receive an MT 940 / MT 950 automatically at the end of the business day.  
Internet-based participants can download the account statement from the ICM as of the next business day.

#### 4.7 Technical tests for T2S DCA accounts

**Test ID:** **IOP-T2SI-010**

**Function:** Sending a liquidity transfer from T2 (RTGS) to T2S (DCA) via the ICM

**Type:** Mandatory for T2S participants



**Time:** 17:00 (settlement of AS night-time processing) up to 15:15

**Contents:** Participant records a liquidity transfer from T2 to T2S in the ICM.



RTGS Account		Transfer (EUR)		Dedicated Cash Account	
BIC	ZYBUDEF0BOX	Amount (EUR)	<input type="text"/>	Account No.	C DE EUR ZYEFDEF000
<small>Display Information</small> Account No. DXZYBUPZYBUDEF0BOX Name Testbank OBS-Q PM-SWIFT 2 Available Liquidity (EUR) 9,088,797,105.43		<small>Display Information</small> Name Testbank OBS-Q PM-SW BIC ZYBUDEF0BOX + Available Liquidity (EUR)			
		Payment Reference			
		End to End ID (opt.)			

**Result:** The PM account has been debited and the DCA has been credited. Depending on the entry in the participant’s master data, the participant receives an MT 900 or a BankToCustomerDebitNotification (camt.054)

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

**Test ID:** IOP-T2SI-020  
**Function:** Liquidity transfer from T2 to T2S by means of XML messages (camt.050)  
**Type:** Mandatory for T2S participants (**only where an A2A connection exists**)  
**Time:** 17:00 (settlement of AS night-time processing) up to 15:15

**Contents:** Participant sends a LiquidityCreditTransfer (camt.050) from T2 to T2S.

**Result:** The PM account has been debited and the DCA has been credited. T2 sends a positive notice of receipt (camt.025) to the participant.

Depending on the entry in the participant's master data, the participant receives an MT 900 or a BankToCustomerDebitNotification (camt.054).

**Test ID:** IOP-T2SI-130  
**Function:** Setting up a standing order to transfer liquidity to T2S via the ICM  
**Type:** Mandatory for T2S participants  
**Time:** Daytime or night-time processing

**Contents:** Participant enters a standing order liquidity transfer from the PM account to the DCA via the ICM.

RTGS		Services	
Payments & Messages	Liquidity	Limits & Reservations	Ancillary Systems
RTGS : Liquidity : Standing Order Liquidity Transfer : Dedicated Liquidity for T2S : Display and Enter Standing Orders to Dedicated Cash Accounts			
<b>Participant</b>			
Participant BIC	ZYBUEF0BOX		
Participant Name	Testbank OBS-Q PM-SWIFT 2		
<b>Liquidity Injection to Dedicated Cash Accounts(EUR)</b>			
Dedicated Cash Account Owner BIC	Dedicated Cash Account Number	Standing Order Amount(EUR)	
		Defined	New
MARKDEFFXXX	C DE EUR MARKDEFFXXX	500.00	
<b>New</b>	C DE EUR ZYEFDEF0001		1.00 x
Save			

#### 4.8 Technical tests for the use of T2S VAS

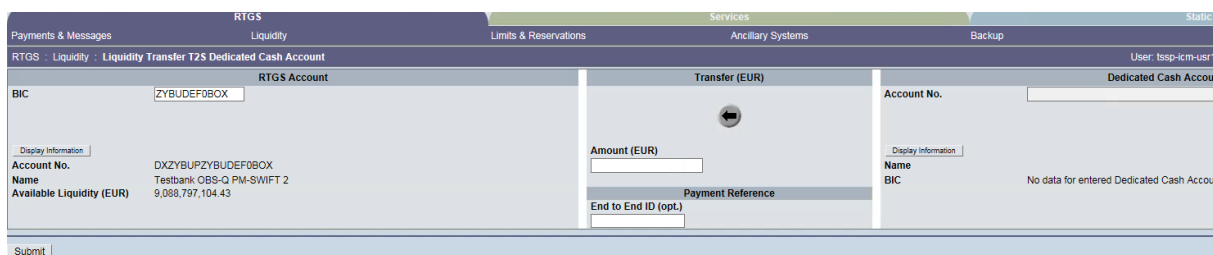
**Test ID:** IOP-T2SI-040 (push-VAS)  
**Function:** Liquidity transfer from T2 (RTGS) to T2S (DCA) by means of MT 202  
**Type:** Mandatory for T2S-VAS participants  
**Time:** 17:00 (settlement of AS night-time processing) up to 15:15  
  
**Contents:** Participant creates and sends an MT 202 (Y-copy) with “TGT” and priority “highly urgent” in field 103.

Field	Description
Sender:	BIC of direct participant
Recipient:	TRGTXEP0T2S (T2 directory)
:103	TGT
:113	First digit (banking priority): H (highly urgent)
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:52A	BIC of ordering institution
:58A	DCA account number and BIC of DCA account holder



**Result:** Participant receives an MT 012 message.  
 The DCA has been credited and the T2 account has been debited.

**Test ID:** IOP-T2SI-050 (pull-VAS)  
**Function:** Liquidity transfer from T2S (DCA) to T2 (RTGS) via the ICM  
**Type:** Mandatory for T2S-VAS participants  
**Time:** 17:00 (settlement of AS night-time processing) up to 15:15

**Contents:**



**Result:** The DCA has been debited and the T2 account has been credited. T2 sends a LiquidityCreditTransfer (camt.050) or an MT 202 (where this is specified in the master data) to the participant.

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**Test ID: IOP-T2SI-060 (pull-VAS)**  
**Function:** Liquidity transfer from T2S to T2 by means of XML messages (camt.050)  
**Type:** Mandatory for T2S-VAS participants (**only where an A2A connection exists**)  
**Time:** 17:00 (settlement of AS night-time processing) up to 15:15  
**Contents:** Participant sends a LiquidityCreditTransfer (camt.050) from T2S to T2

**Result:** The DCA has been debited and the T2 account has been credited. T2 sends a LiquidityCreditTransfer (camt.050) or an MT 202 (where specified in the master data) to the participant.

**Test ID: IOP-T2SI-070 (pull-VAS)**  
**Function:** Liquidity transfer from T2S (DCA) to T2 (RTGS) by means of MT 202  
**Type:** Mandatory for T2S-VAS participants  
**Time:** 17:00 (settlement of AS night-time processing) up to 15:15

**Contents:** Participant creates and sends an MT 202 (Y-copy) in field 103 with "TGT" and priority "highly urgent".

Field	Description
Sender:	BIC of direct participant
Recipient:	TRGTXEP0T2S (T2 directory)
:103	TGT
:113	First digit (banking priority): H (highly urgent)
:20	Transaction reference number (TRN)
:21	Reference of ordering institution
:32A	Value date, currency code, amount
:53A	DCA account number and BIC of DCA account holder
:58A	BIC of ordering institution

**Result:** Participant receives an MT 012 message. T2 sends a LiquidityCreditTransfer (camt.050) or an MT 202 (where this is specified in the master data) to the participant.

## 4.9 Technical tests for the use of TIPS

### 4.9.1 U2A connection

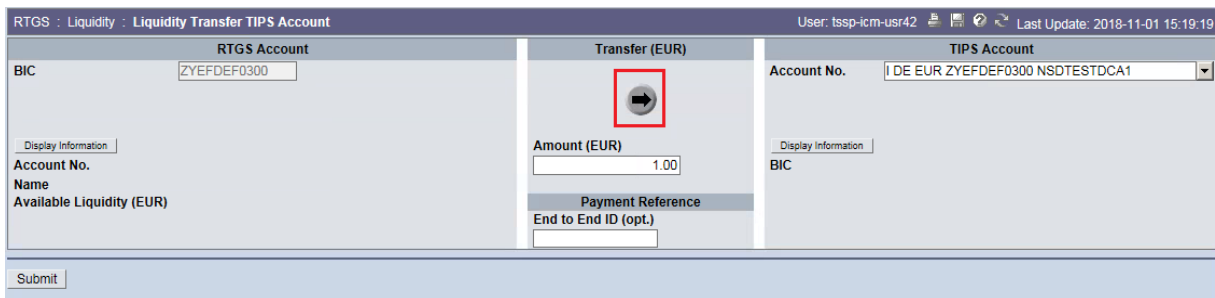
Test ID: **IOP-TIPS-100a**  
 Function: Liquidity transfer from T2 to the TIPS DCA with LM link via the ICM  
 Type: Mandatory for TIPS participants  
 Time: 07:15 to 14:00

Requirements:

- Access to the ICM tested successfully
- Sufficient funds on the PM account

Contents: Participant generates a liquidity transfer to the TIPS DCA via the ICM.

Result: The PM account has been debited and the DCA has been credited.



RTGS : Liquidity : Liquidity Transfer TIPS Account User: tssp-icm-usr42 Last Update: 2018-11-01 15:19:19

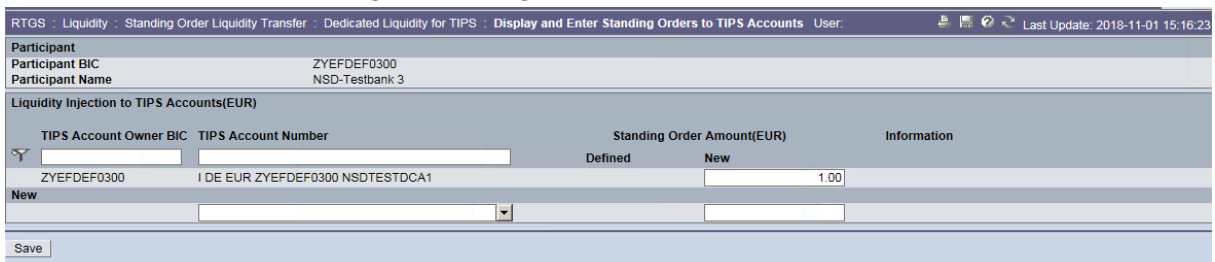
<b>RTGS Account</b> BIC: ZYEFDEF0300 Display Information Account No. Name Available Liquidity (EUR)	<b>Transfer (EUR)</b> <input type="button" value="Transfer"/> Amount (EUR): 1.00 Payment Reference End to End ID (opt.)	<b>TIPS Account</b> Account No.: DE EUR ZYEFDEF0300 NSDTESTDCA1 Display Information BIC
--	---	--

Test ID: **IOP-TIPS-150**  
 Function: Setting up a standing order to transfer liquidity to TIPS via the ICM  
 Type: Optional for TIPS participants  
 Time: 07:15 to 14:00

Requirements:

- Access to the ICM tested successfully
- Sufficient funds on the PM account

Contents: Participant enters a standing order liquidity transfer from the PM account to the TIPS DCA via the ICM.



RTGS : Liquidity : Standing Order Liquidity Transfer : Dedicated Liquidity for TIPS : Display and Enter Standing Orders to TIPS Accounts User: Last Update: 2018-11-01 15:16:23

Participant  
 Participant BIC: ZYEFDEF0300  
 Participant Name: NSD-Testbank 3

Liquidity Injection to TIPS Accounts(EUR)

TIPS Account Owner BIC	TIPS Account Number	Standing Order Amount(EUR)		Information
		Defined	New	
ZYEFDEF0300	DE EUR ZYEFDEF0300 NSDTESTDCA1		1.00	
New				

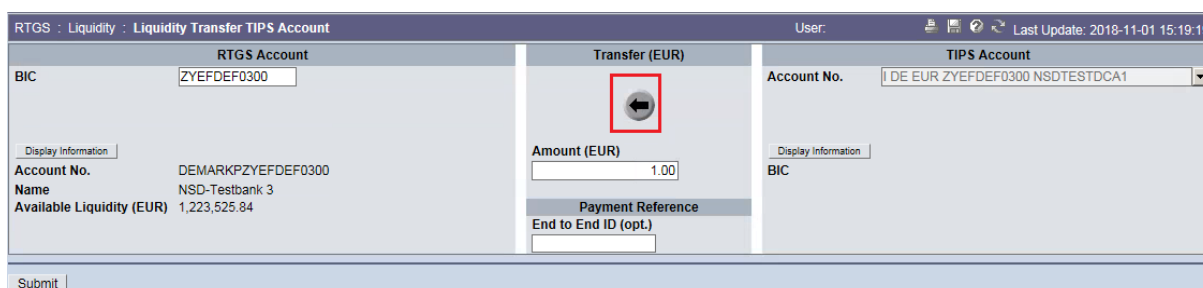


**Test ID:** IOP-TIPS-170a  
**Function:** Initiating a liquidity transfer from TIPS with LM link via the ICM  
**Type:** Mandatory for TIPS participants  
**Time:** 07:15 to 14:00

- Requirements:**
- Access to the ICM tested successfully

**Contents:** Participant transfers liquidity from the TIPS DCA to the linked PM account.

**Result:** The correct TIPS DCA can be selected in the ICM and the liquidity transfer can be processed.

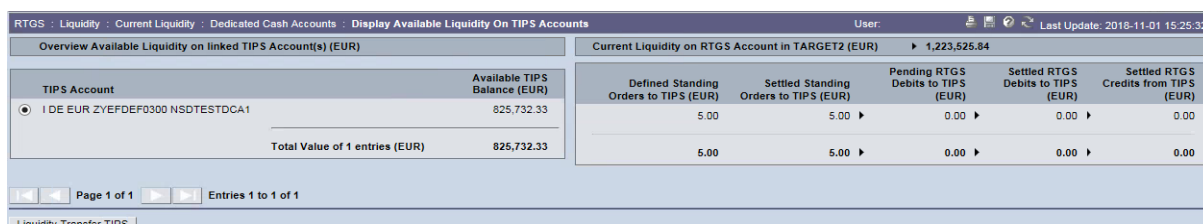


**Test ID:** IOP-TIPS-200  
**Function:** Monitoring the available liquidity on the TIPS DCA  
**Type:** Mandatory for TIPS participants  
**Time:** 07:15 to 14:00

- Requirements:**
- Access to the ICM tested successfully
  - At least one TIPS DCA is linked with the RTGS account

**Contents:** Participant selects the view “Display available liquidity on TIPS account”.

**Result:** Participant can select the correct TIPS DCA in the ICM via the drop-down menu and can view the following information (see screenshot).



Overview Available Liquidity on linked TIPS Account(s) (EUR)		Current Liquidity on RTGS Account in TARGET2 (EUR) ▶ 1,223,525.84				
TIPS Account	Available TIPS Balance (EUR)	Defined Standing Orders to TIPS (EUR)	Settled Standing Orders to TIPS (EUR)	Pending RTGS Debits to TIPS (EUR)	Settled RTGS Debits to TIPS (EUR)	Settled RTGS Credits from TIPS (EUR)
DE EUR ZYEFDEF0300 NSDTESTDCA1	825,732.33	5.00	5.00 ▶	0.00 ▶	0.00 ▶	0.00
Total Value of 1 entries (EUR)		5.00	5.00 ▶	0.00 ▶	0.00 ▶	0.00

**Test ID:** IOP-TIPS-210  
**Function:** Monitoring TIPS DCAs that are linked with a T2 account via the ICM  
**Type:** Mandatory for TIPS participants  
**Time:** 07:15 to 14:00

**Requirements:**

- Access to the ICM tested successfully
- At least one TIPS DCA is linked with the RTGS account that the participant is monitoring

**Contents:** Participant selects the view “Display current liquidity RTGS account”.

**Result:** Participant can view the current balance of TIPS and T2S DCAs by clicking on the “Get all balances (T2S + TIPS)” button.

RTGS Account ZYEFDEF0300 (EUR)		Aggregated View (EUR)	
Start balance	1,213,753.18	Liquidity RTGS account	1,223,525.84
▶ Liquidity transfers final	-227.34	Liquidity RTGS sub account(s)	0.00
▶ Debits final	0.00	<b>Total RTGS Liquidity</b>	<b>1,223,525.84</b>
▶ Credits final	0.00	<b>Total TARGET2 Liquidity</b>	<b>1,223,525.84</b>
<b>Current Balance</b>	<b>1,213,525.84</b>	- <b>Display Available Liquidity TIPS Cash Account(s)</b>	
Credit Line	10,000.00	▶ Available Liquidity TIPS Account(s)	825,732.33
<b>Available Liquidity</b>	<b>1,223,525.84</b>	<b>Total TIPS + Target2 Liquidity</b>	<b>2,049,258.17</b>
▶ Liquidity transfers pending	0.00	<b>Overall Liquidity (Target2 + T2S + TIPS)</b>	
▶ Debits pending	0.00		
▶ Credits pending	0.00		
Changes of Credit Line pending	0.00		
<b>Projected Liquidity</b>	<b>1,223,525.84</b>		
▶ <b>Timed Payments</b>			
▶ Debits	0.00		
▶ Credits	0.00		
<b>Reservations</b>			
Highly urgent	0.00		
Urgent	0.00		
<b>Pending Reservations</b>			
Highly urgent	0.00		
Urgent	0.00		

User: tssp-icm-usr42 Last Update: 2018-11-01 15:28:13

Credit Line | Interbank Transfer RTGS other HAM accounts | Liquidity Transfer T2S | Liquidity Transfer TIPS | **Get all balances (T2S + TIPS)**



#### 4.9.2 A2A connection

**Test ID:** IOP-TIPS-110  
**Function:** Liquidity transfer from T2 to the TIPS DCA with or without LM link via A2A  
**Type:** Optional for TIPS participants  
**Time:** 07:15 to 14:00

**Requirements:**

- There is sufficient liquidity on the PM account

**Contents:** Participant sends a LiquidityCreditTransfer camt.050 from T2 to the TIPS DCA.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

**Result:** Participant can successfully send the message and receives the confirmation as camt.025.  
The PM account has been debited and the TIPS DCA has been credited.

**Test ID:** **IOP-TIPS-170c**  
**Function:** Initiating a liquidity transfer from TIPS with LM link via A2A  
**Type:** Optional for TIPS participants  
**Time:** 07:15 to 14:00

**Requirements:**

- There is sufficient liquidity on the PM account

**Contents:** Participant sends a liquidity transfer to T2 via camt.050, which is forwarded to TIPS for settlement after validation.

**Result:** The TIPS DCA has been debited and the T2 account has been credited.  
T2 sends a LiquidityCreditTransfer (camt.050) that can be received and processed by the participant.



**Test ID:** **IOP-TIPS-220**  
**Function:** Monitoring TIPS DCAs that are linked with a T2 account via A2A  
**Type:** Optional for TIPS participants  
**Time:** 07:15 to 14:00

**Requirements:**

- Access to the ICM tested successfully
- At least one TIPS DCA is linked with the RTGS account that the participant is monitoring

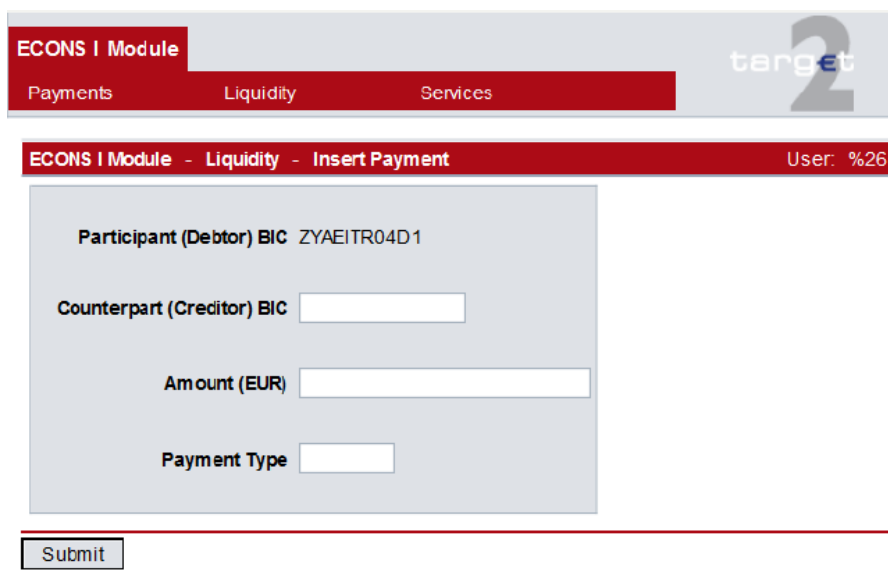
**Contents:** Participant checks the TIPS account balance of the linked TIPS accounts via the A2A Interface from T2 by sending a GetAccount message (camt.003).

**Result:** Participant can check information about the current balance of one or more TIPS DCAs.  
T2 will separate the request for several DCAs and send individual account balance requests to TIPS.  
The individual responses from TIPS are grouped in T2 and transferred to the participant as an individual response via ReturnAccount (camt.004).

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

#### 4.10 Technical tests for the use of ECONS I

**Test ID:** IOP-ECONS-PM-010  
**Function:** Sending a payment from one PM-ECONS I participant to another PM-ECONS I participant  
**Type:** Optional for T2 participants  
**Time:** Whilst ECONS I is activated  
  
**Contents:** The TARGET2 participant sends a contingency payment to another TARGET2 participant in ECONS I.



The screenshot shows the 'ECONS I Module' interface. At the top, there are navigation tabs for 'Payments', 'Liquidity', and 'Services'. The 'Liquidity' tab is selected. Below the navigation, a red header bar displays 'ECONS I Module - Liquidity - Insert Payment' and 'User: %26'. The main content area is a light gray box containing the following fields:



- Participant (Debtor) BIC:** ZYAEITR04D1
- Counterpart (Creditor) BIC:**
- Amount (EUR):**
- Payment Type:**

At the bottom of the form is a 'Submit' button.

**Result:** The contingency payment is settled successfully in ECONS I (upon confirmation by the central bank).

**Test ID:** IOP-ECONS-PM-060  
**Function:** Receiving an MT 940 / MT 950 from ECONS I  
**Type:** Optional for T2 participants  
**Time:** Once ECONS I procedure is completed  
  
**Contents:** The TARGET2 participant receives an MT 940 / MT 950 from ECONS I after a completed contingency procedure. (ECONS I closing day)

**Result:** Participant receives an account statement listing its ECONS I transactions.

	<b>National Service Desk for TARGET Services</b>	
	<b>TARGET2 Test Guideline</b>	

Test ID:	<b>IOP-ECONS-PM-070</b>
Function:	Requesting (downloading) an account statement when using ECONS I over several days Via download button
Type:	Optional for T2 participants
Time:	Following successful close of a business day in ECONS I
Contents:	The TARGET2 participant receives an account statement as an .xlsx file or as a .csv file. (Opening and closing of ECONS I on various business days)
Result:	Participant receives an account statement listing its ECONS I transactions.