

T2S Testing Activities



Overview

- Introduction on the T2S Testing Activities
- The Eurosystem Central Banks Approach
- Certification Tests
- Authorisation Tests
- Interoperability Tests
- Business Tests – Operational Scenarios

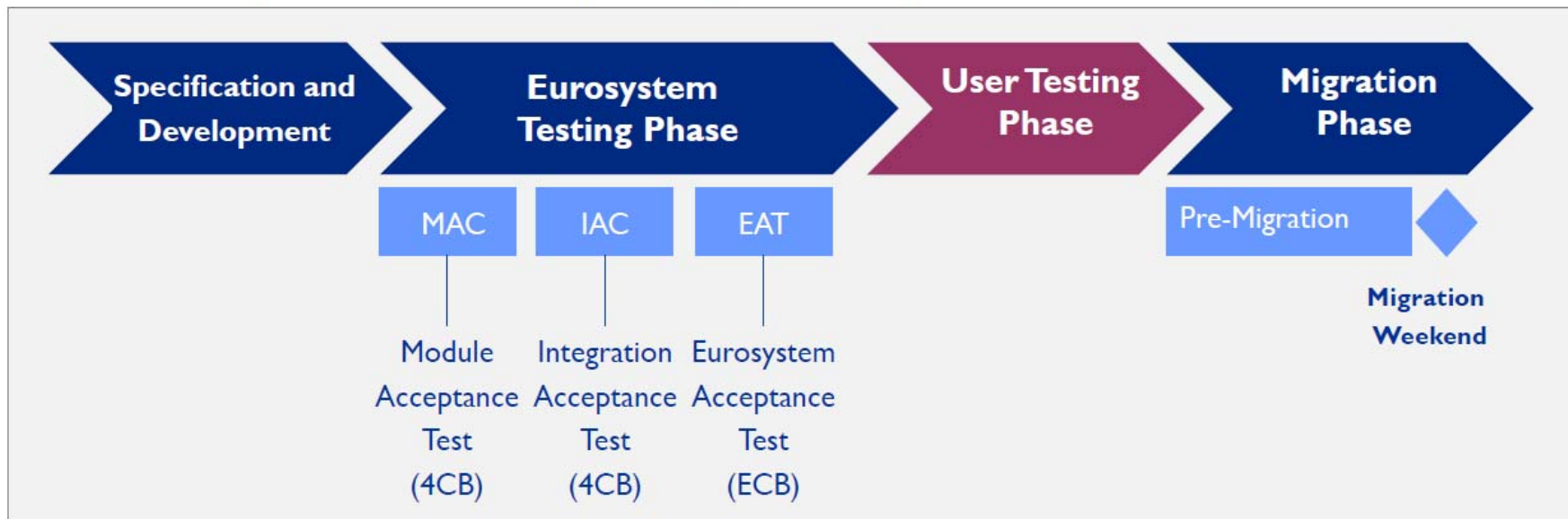


Introduction on the T2S Testing Activities



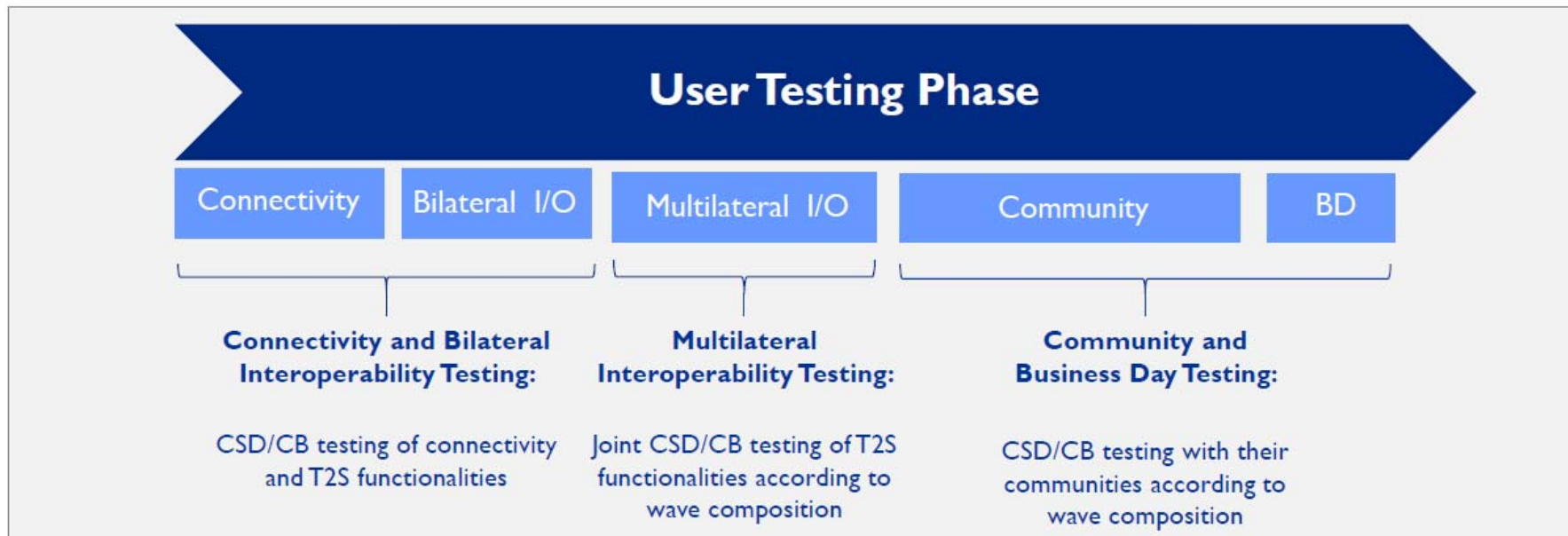
T2S Testing phases

- **How to understand user testing in the context of other T2S phases?**
- It is the first testing phase involving users following Eurosystem internal tests
- Main objective of user testing is to ensure that the T2S platform meets the user requirements
- After completion of user testing the migration of a particular wave is conducted



User Testing Phase

- **How is the user testing phase structured?**
- User testing is conducted in several distinct stages
- This allows for gradual increase of test case complexity and number of testing participants



User Testing Phase

- **What are the characteristics of each user testing stage?**

Connectivity Testing

- Set-up of connection to T2S test environments via the Value Added Network
- Verification of communication with the T2S test environment through out limited set of test cases

Bilateral Interoperability Testing

- Individual CSD/CB testing of T2S functionalities with the aim to validate adaptation to the T2S system and to pass certification tests
- No “real” interaction between T2S actors (e.g. only mock CSDs and mock CBs established on the test environment)

Multilateral Interoperability Testing

- Testing of T2S functionalities between CSDs and CBs
- Cross-border testing according to the wave configuration (e.g. all CSDs and CBs involved in one migration wave to test jointly)



User Testing Phase

- **What are the characteristics of each user testing stage?**

Community Testing

- End-to-end testing of T2S functionalities with other CSDs, CBs **and their clients (community)**
- Cross-border testing according to the wave configuration with full community

Business Day Testing

- Simulation of several consecutive business days of operation with CSDs, CBs **and their clients**
- Validation of the migration weekend under production-like conditions (according to wave configuration)



User Testing Phase

- **Which activities are foreseen during the user testing stages?**
 - **Depends on the connection type**
 - **DCA Account holder connection types:**
 - **Directly Connected Parties: A2A and/or U2A access to T2S**
 - **Indirectly Connected Parties: Non directly connected to T2S but indirectly via TARGET2 (mandatory adoption of TARGET2 Value Added Services)**



User Testing Phase

- **Which activities are foreseen during the user testing stages?**
- The actual activities depend upon your business role in the T2S context

	Connectivity	Bilateral Interoperability	Multilateral Interoperability
CSDs and Central Banks	<ul style="list-style-type: none"> • Connect 	<ul style="list-style-type: none"> • Test T2S functionalities • Obtain Eurosystem Certification 	<ul style="list-style-type: none"> • Test T2S functionalities according to wave configuration
DCPs (Directly Connected Parties): CSD Participants and Payment Banks	<ul style="list-style-type: none"> • Not involved 	<ul style="list-style-type: none"> • Not involved 	<ul style="list-style-type: none"> • Not involved
ICPs (Indirectly Connected Parties): CSD Participants and Payment Banks	<ul style="list-style-type: none"> • Not involved 	<ul style="list-style-type: none"> • Not involved 	<ul style="list-style-type: none"> • Not involved



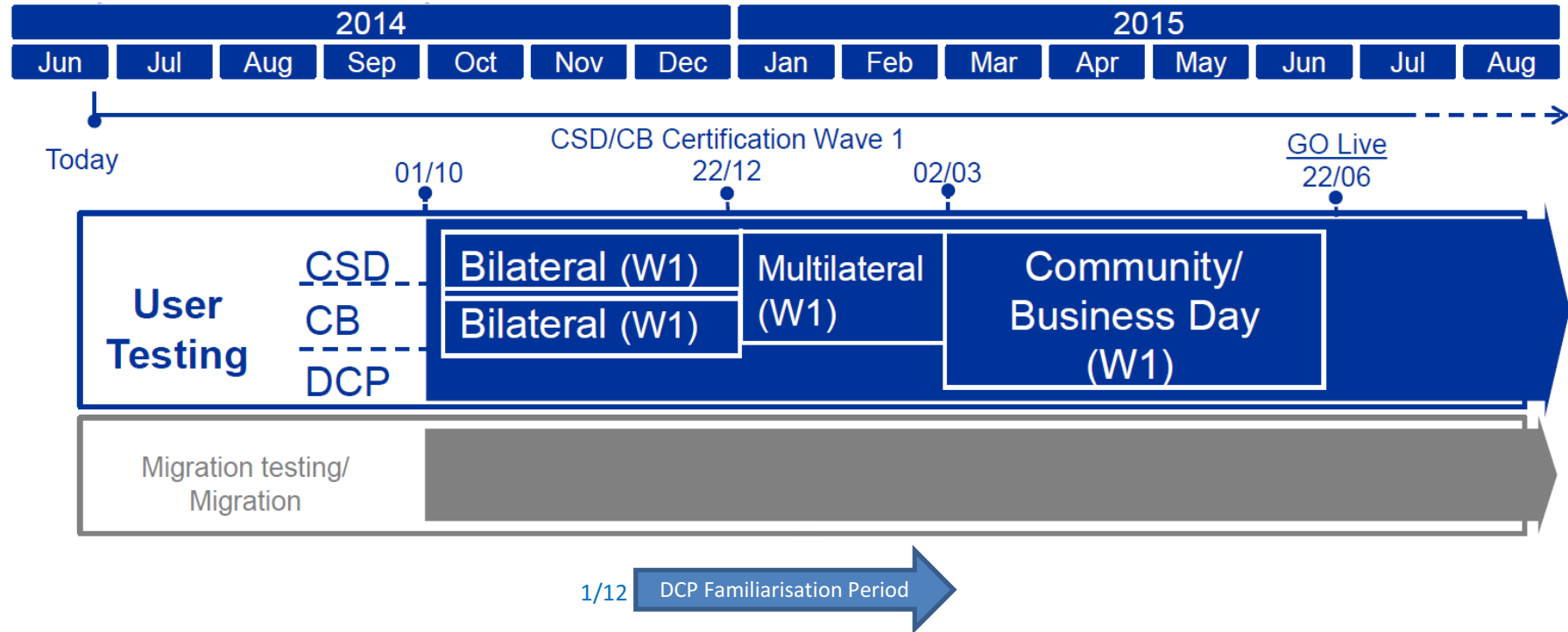
User Testing Phase

- **Which activities are foreseen during the user testing stages?**
- The actual activities depend upon your business role in the T2S context

	Community	Business Day
CSDs and Central Banks	<ul style="list-style-type: none"> • Test T2S functionalities with their community (end-to end) according to wave configuration 	<ul style="list-style-type: none"> • Migration rehearsals with community • Contingency tests • Operational procedures
DCPs (Directly Connected Parties): CSD Participants and Payment Banks	<ul style="list-style-type: none"> • Connect • Test T2S functionalities • Obtain Eurosystem Certification • Obtain CSD/CB Authorisation 	<ul style="list-style-type: none"> • Execute test cases and operational procedures (additionally through CSD/CB in ICP role)
ICPs (Indirectly Connected Parties): CSD Participants and Payment Banks	<ul style="list-style-type: none"> • Execute test cases (through CSD/CB) 	<ul style="list-style-type: none"> • Execute test cases and operational procedures (through CSD/CB)



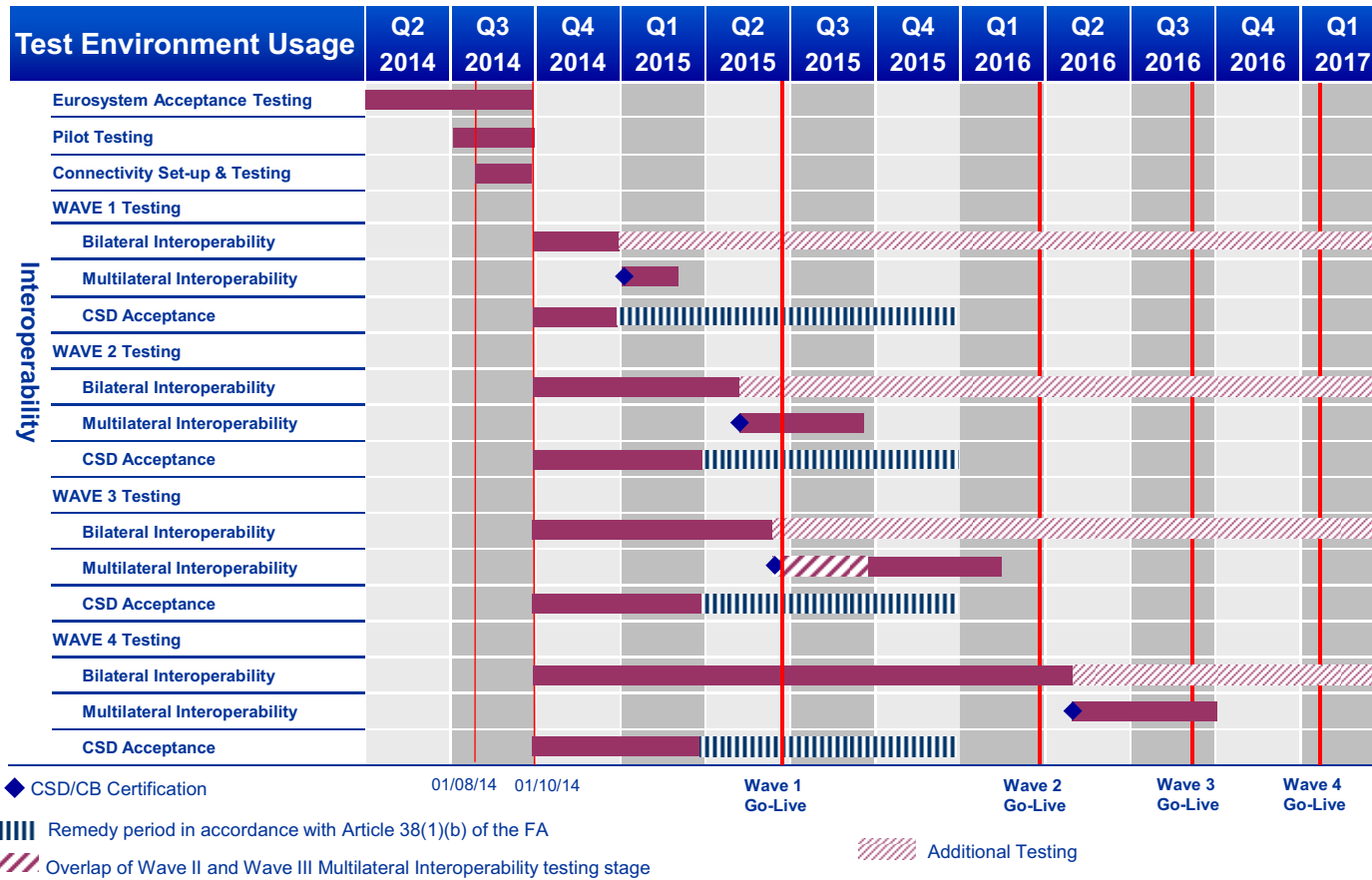
Wave 1 - User Testing Phase



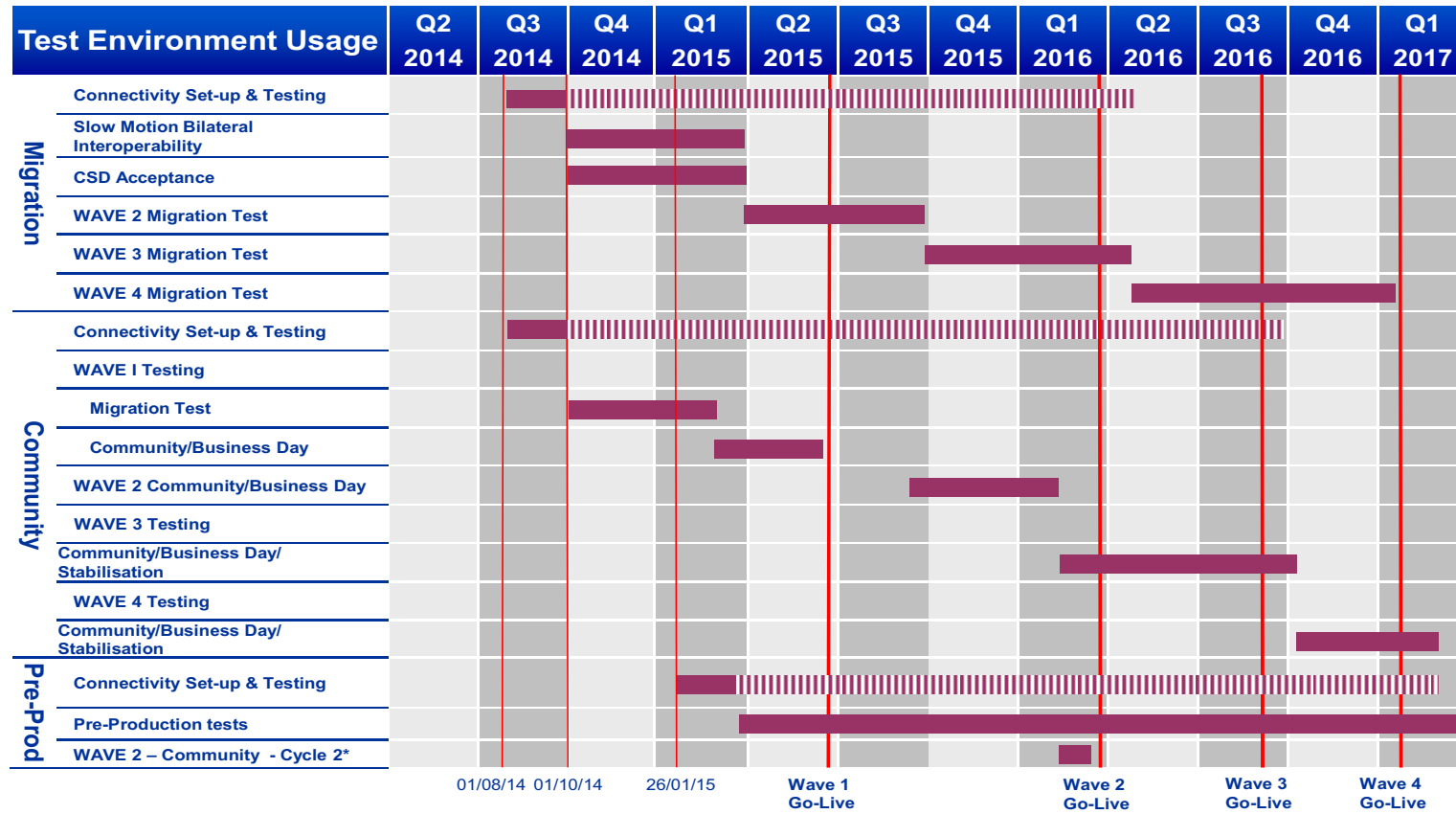
During Community stage Directly and Indirectly Connected DCA holder will test the interface between T2 and T2S (T2SI)



Detailed User Testing Calendar – All waves



Detailed User Testing Calendar – All waves

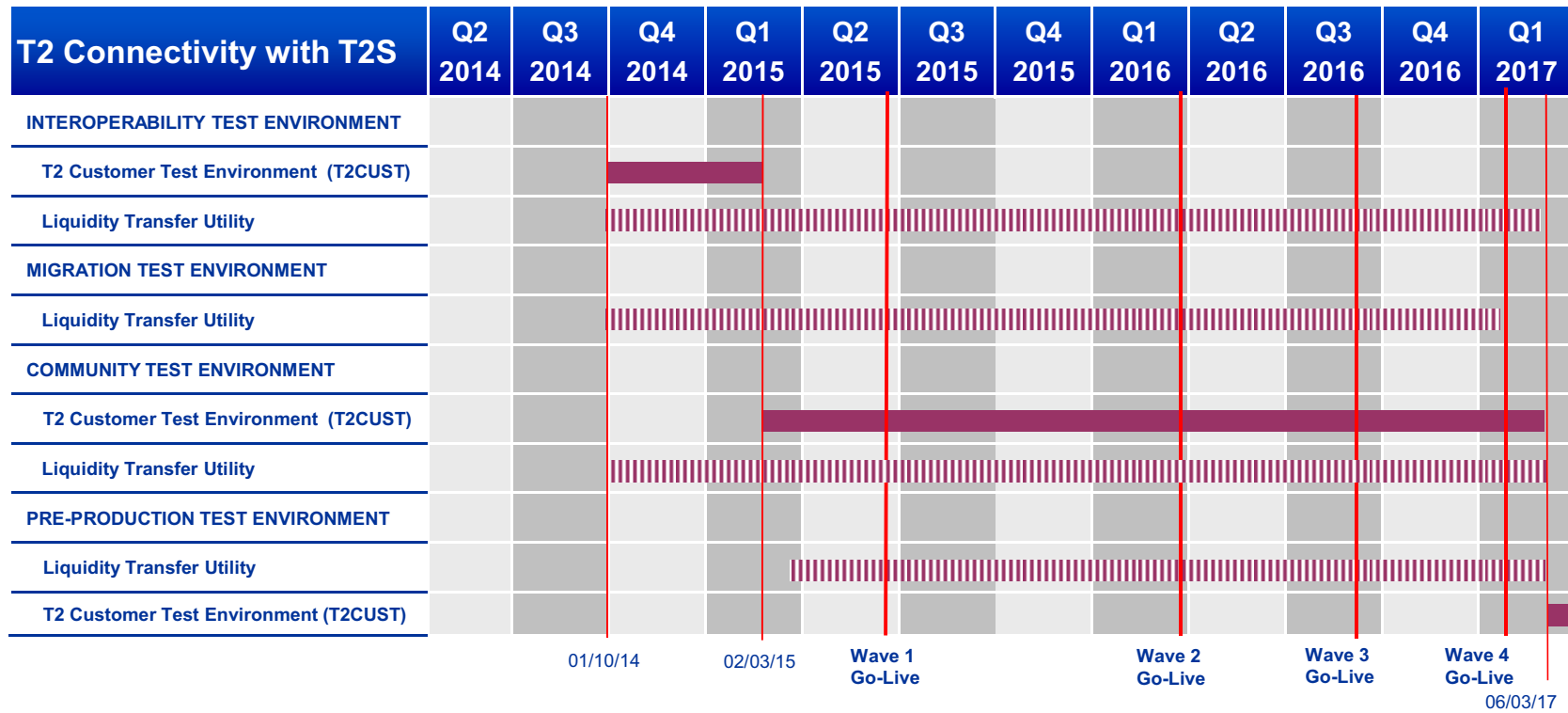


||||| Phased-in connectivity set-up and connectivity testing for waves 2, 3 & 4

* With Liquidity Transfer Utility



Detailed User Testing Calendar – T2 Connectivity with T2S



Detailed User Testing Calendar



Testing stage	Wave 1	Wave 2	Wave 3	Wave 4
Slow Motion testing	01/10/2014 – 27/03/2015			
Bilateral Interoperability	01/10/2014 (SP8) – 02/01/2015	01/10/2014 (SP8) – 30/04/2015	01/10/2014 (SP8) – 12/06/2015	01/10/2014 (SP8) – 22/04/2016
Multilateral Interoperability	05/01/2015 (SP9) – 27/02/2015	04/05/2015 (SP9) – 18/09/2015	<u>Overlap with Wave 2:</u> 15/06/2015 (SP9) – 18/09/2015 <u>No overlap:</u> 21/09/2015 – 19/02/2016	25/04/2016 (SP9) – 07/10/2016
Community	02/03/2015 (SP10) – 15/05/2015	<u>Cycle 1:</u> 21/09/2015 (SP10) – 15/01/2016 <u>Cycle 2:</u> 15/02/2016 – 11/03/2016 (SP12)	22/02/2016 (SP10) – 29/07/2016	10/10/2016 (SP10) – 23/12/2016
Business Day	18/05/2015 (SP11) – 12/06/2015 (SP12)	18/01/2016 (SP11) – 12/02/2016	01/08/2016 (SP11) – 26/08/2016 (SP12)	27/12/2016 (SP11) – 20/01/2017 (SP12)
Migration testing	01/10/2014 – 27/02/2015	30/03/2015 – 25/09/2015	28/09/2015 – 22/04/2016	25/04/2016 – 20/01/2017



T2S Test Environments

T2S naming convention:

- Interoperability Test Environment - EAC
- Migration Test Environment– MIG1
- **Community Test Environment– MIG2**
- **Pre-production Test Environment– UTEST**

Community Test Environment will be connected to T2 CUST from the start of the Community Testing Stage till the end of the whole migration.

Pre-production test environment will not be connected to T2 CUST till the end of the whole migration.

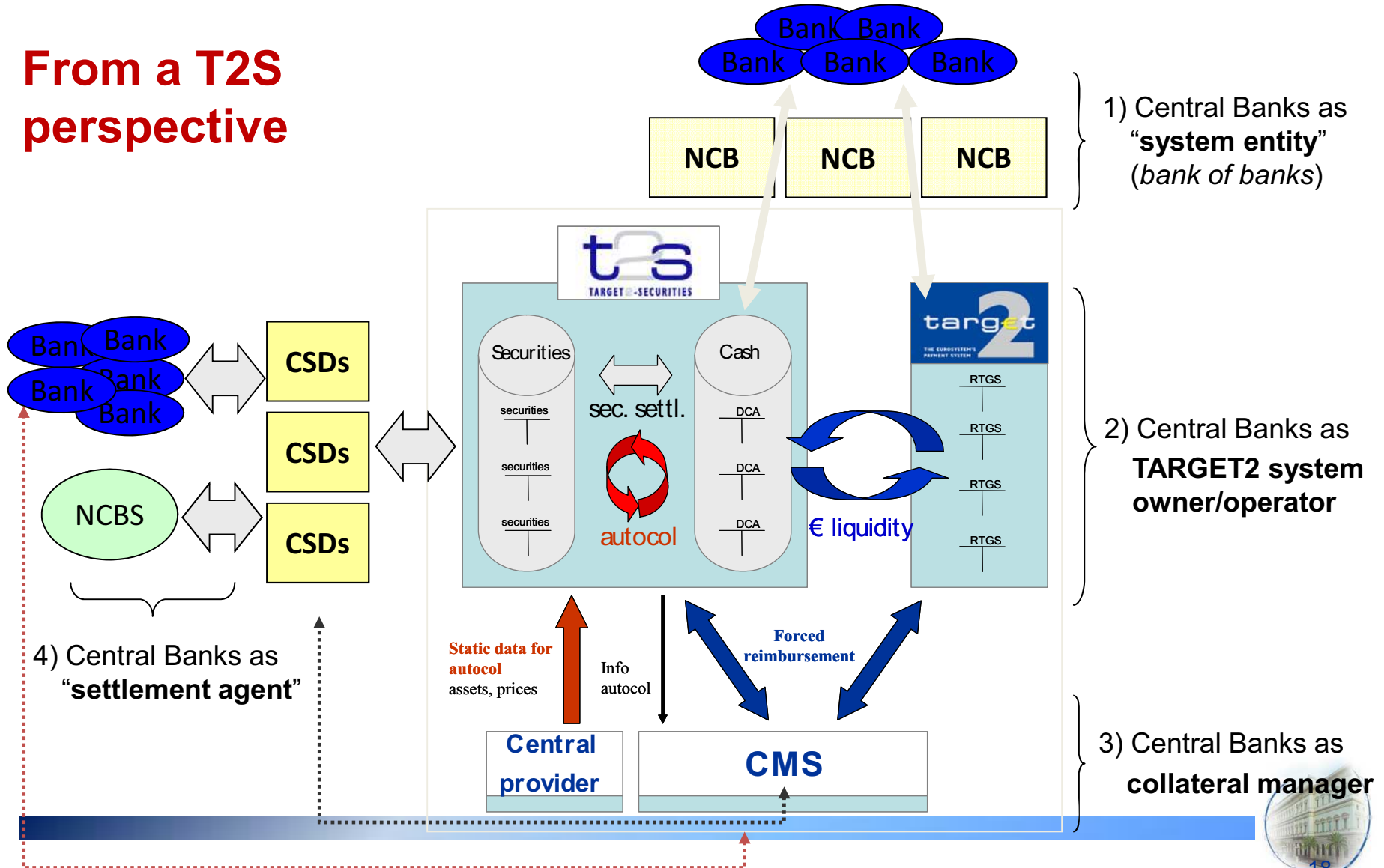


The Eurosystem Central Banks Approach



Central Bank Roles in T2S

From a T2S perspective



Bank Roles in T2S

- T2-T2S Cash account holder:
 - Handling liquidity between T2 and T2S.
 - Cash settlement for DVP transactions.
- Settlement agent (security side):
 - Interactions with CSDs for securities settlement purposes.
 - CSD dependent activities
- Participant to the Central Bank Collateral Manager application:
 - CB collateral manager application dependent activity
 - Autocollateralisation T2S feature.



Eurosystem Central Banks approach

Harmonisation

- Cash participants will be subject to the same testing requirements, irrespective of the Central Bank with which they would hold their account(s).
- Testing and migration approach for DCA holders will be as similar as possible to the approach initially developed for TARGET2.

Decentralised approach

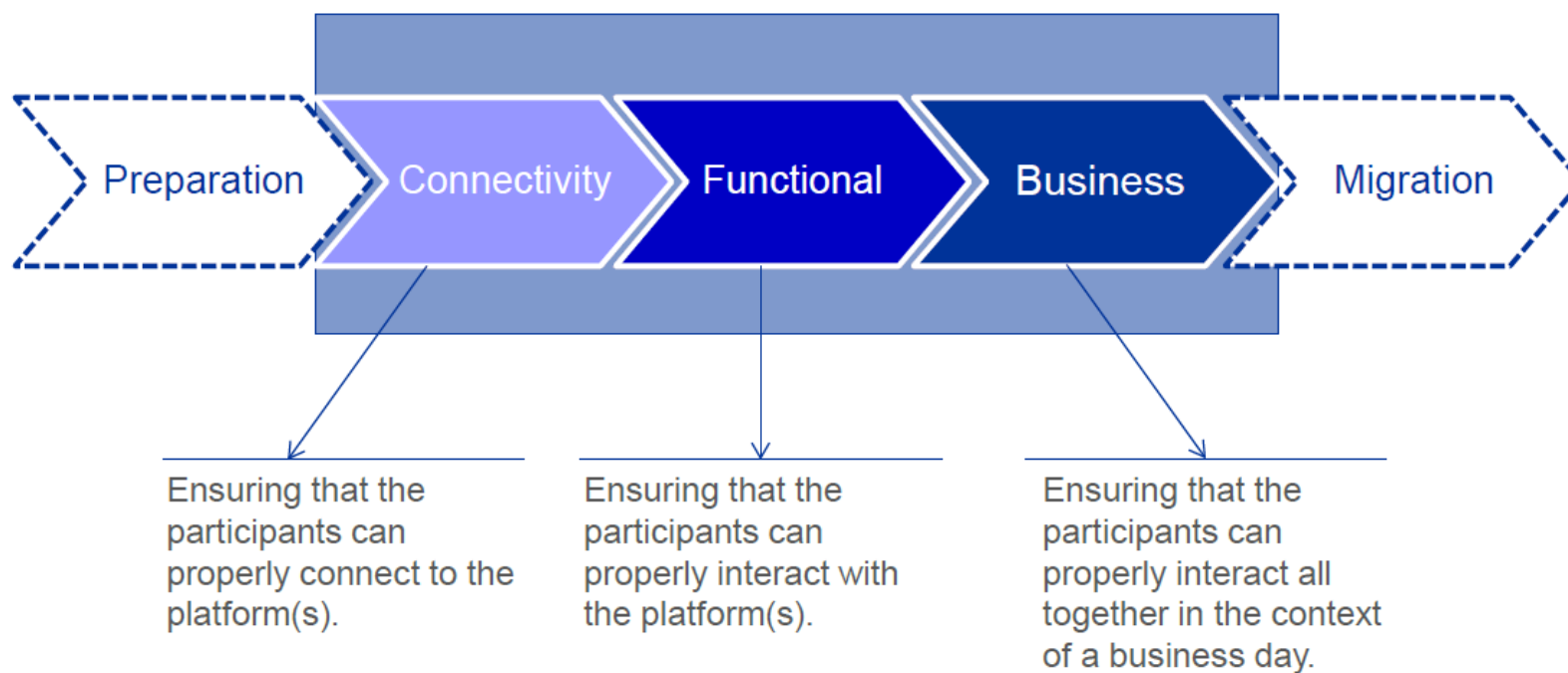
- The main interlocutor for the testing activities of participants is the Central Bank in the books of which the account will be held.

Support to multi-country banks

- “Passport concept” for Central Banks’ authorisation i.e. no need for multi-country banks to repeat the tests when DCAs or RTGS accounts are held by different Central Banks.



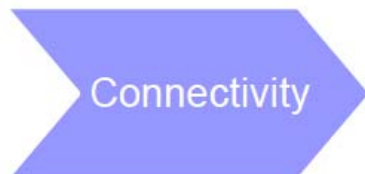
Eurosystem Central Banks approach



- All DCA holders will have to undergo these testing activities
- RTGS account holders will also be subject to some recertification and non-regression tests.



Connectivity Tests



- Called “connectivity tests”.
- **No connectivity tests are foreseen for the T2S Interface**

Example:

Access to ICM (for PM, HAM, SF and RM)



- Called “certification tests”.
- Applies to directly connected DCA holders.
- Participant testing against the platform, no other parties involved.

Example:

Display a report on the GUI



Functional Tests

Functional



- Called “interoperability tests”.
- New tests cases for RTGS account holders (mandatory, conditional and optional tests, depending on the business cases).
- Non-regression tests for all RTGS account holders.
- Participant testing against the platform, no other parties involved.

Example:

Sending a Liquidity transfer via ICM from RTGS account to DCA



- Called “authorisation tests”.
- New tests cases for all DCA holders (mandatory, conditional and optional tests, depending on the business cases).
- Participant testing against the platform, no other parties involved.

Example:

Predefined liquidity transfer from T2S to T2 (time driven)



Business Test

Business



- Scenarios aiming at simulating a complete business day (normal and contingency situations).
- Scenarios based on agreed operational procedures.
- All participants involved.

Example:

Simulate a complete normal day

Simulate a restart after disaster



Deadlines for the DCA holders testing activities

	Certification testing for directly connected DCA holders	Authorisation testing for all DCA holders
Wave 1	2 Mar-27 Mar 2015	2 Mar-1 May 2015
Wave 2	21 Sep-16 Oct 2015	21 Sep-27 Nov 2015
Wave 3	15 Feb-11 Mar 2016	15 Feb -15 Apr 2016
Wave 4	10 Oct-4 Nov 2016	10 Oct – 9 Dec 2016

First 4 weeks of community tests

Authorisation
and
Interoperability

First 2 months of community tests

- Scenarios for certification tests are already available on the T2S web site
- Scenarios for authorisation tests and interoperability tests already available on the T2 web site



T2S Day schedule

- Four operational day schedules to match testing maturity and needs
- Aligned with TARGET2 schedules for testing
- Testing time from 07:00 to 19:00 CET on all T2S settlement week days except Fridays (closing at 17:30)

	T2S Standard	T2S Synchronised	T2S Release Day	T2S Live Timing
Start of Testing	07:00	07:00	07:00	07:00
Real time Settlement				
DVP cut-off	16:00	14:30	14:30	16:00
FOP cut-off	17:00	15:30	15:30	18:00
End-of-day/start-of-day				
Change of business date	17:45	16:15	16:15	18:45
Start of Night-time settlement / cash injection	18:30	17:00	17:00	19:30
Night-time settlement				
End of Testing	19:00	19:00	17:30	~ 22:30



Connection dependency tests

Connection Type	Certification Tests (T2S)	Authorization Tests (T2S)	Interoperability Tests (T2)
Directly Connected DCA Holder	X	X	X
Indirectly Connected DCA Holder	-	-	X

- Interoperability Tests:

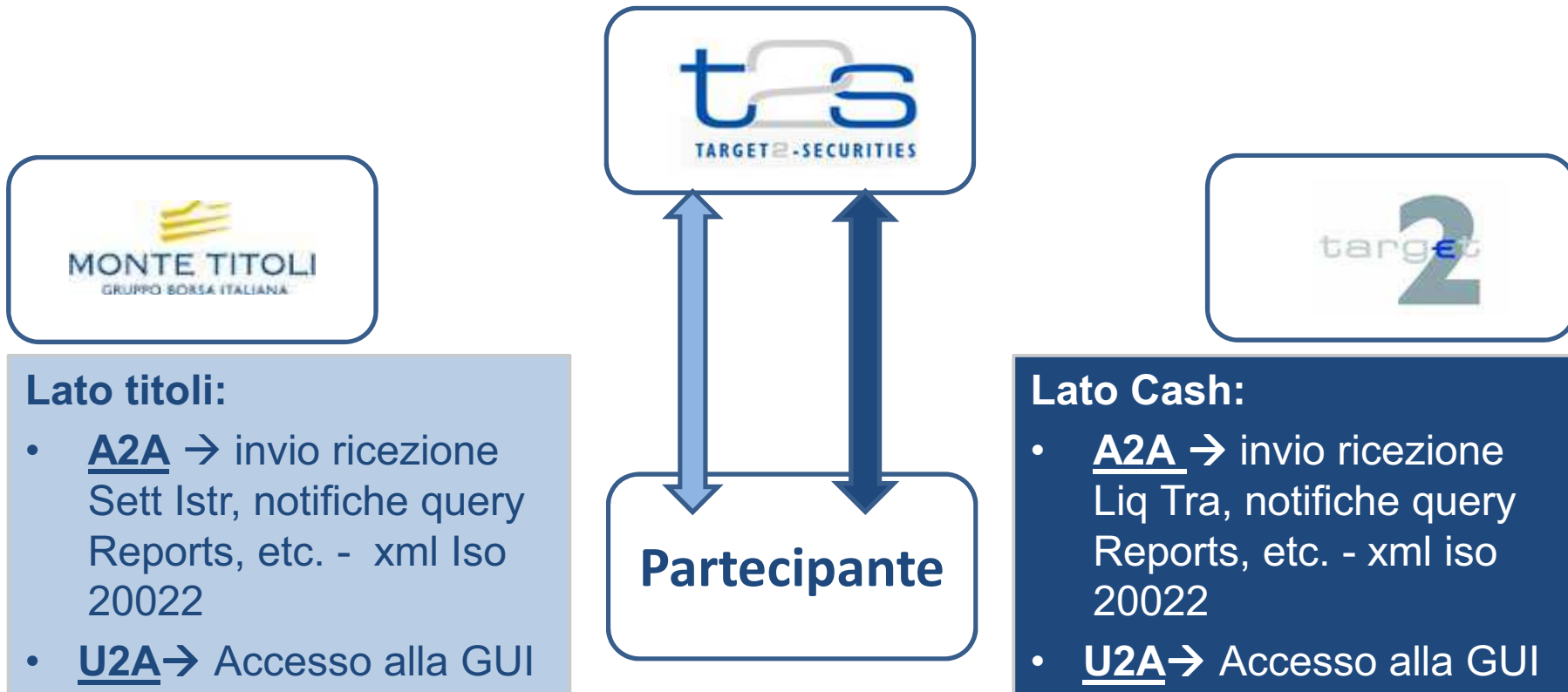
- Indirectly Connected DCA Holder: Core and VAS (mandatory)
- Directly Connected DCA Holder: Core and VAS (optional)



La piazza finanziaria italiana



Connessione diretta



- Si può optare per la connessione diretta per il solo lato cash e per il solo lato titoli oltre che per entrambi
- Una volta 'ottenuta' la connessione diretta' questa sarà disponibile in U2A e/o in A2A mediante opportuna configurazione



Connessione indiretta lato cash



- Può coesistere con la connessione diretta ad es. in U2A
- Servizi dispositivi ed informativi 'limitati' a quelli sviluppati da T2 per T2S



Partecipanti a T2S

Dalla quarta rilevazione sulla partecipazione a T2S e sullo stato di avanzamento delle attività di migrazione è emerso che:

- Sono **40** i partecipanti a T2S sia cash che titoli,
Con riferimento al cash:
 - **11** connessi direttamente a T2S ; i restanti **28** si collegheranno indirettamente tramite i servizi di **TARGET2** ;
- **9** operatori apriranno in T2S esclusivamente uno o più conti titoli (avvalendosi dunque di un soggetto terzo per il regolamento della “gamba contante” delle operazioni);
- le restanti banche regoleranno le proprie transazioni in titoli senza avere in T2S né conti cash né conti titoli (usufruendo, cioè, dei servizi di un altro intermediario).



Le principali scadenze per l'avvio dei test *cash side*

Coloro che hanno optato per una **connessione indiretta** attraverso i **servizi di T2** possono testarne le funzionalità dal **02/03/2015** ("Community testing" start).

- Sarà possibile presentare i **form** per l'apertura del DCA entro il **23/02/2015**



Coloro che hanno optato per una **connessione diretta** **possono** anticipare:

- I test di **connettività** dal **03/12/2014** al **22/02/2015** (anche se non validi ai fini della *certification*; questi ultimi essendo possibili solo in *community*)
- I test **funzionali** dal **07/02/2015** al **22/02/2015**

Dal 23/02 al 27/02 si effettuerà un test di **pre-migrazione** cui seguirà dal 27/02 al 01/03 il test del *migration week end*; in tali giornate potrebbe non essere possibile effettuare test per i DCP

Sarà possibile presentare i **form** per l'apertura del DCA entro il **23/02/2015**



Disponibilità ambiente di test

Dal 2 marzo 2015 (“Community testing” start) le banche italiane interagiranno con la Banca d’Italia sulla base della versione del software adeguata a T2S nell’unico ambiente di collaudo collegato con TARGET2, T2S e Monte Titoli

Attività che saranno garantite nel periodo 15 febbraio – 22 giugno

- nuove adesioni al pooling e alle aste di politica monetaria: i) il regolamento della gamba cash potrà continuare a essere collaudato con le attuali modalità; ii) i test di movimentazione dei titoli non potranno essere effettuati in ambiente di collaudo e l’alimentazione del pool verrebbe eseguita con modalità manuali dalla Banca d’Italia al fine di garantire il buon esito del test; iii) il test di versamento/prelievo di titoli sarà effettuato direttamente in ambiente di produzione

Attività che NON potranno essere svolte nel periodo 15 febbraio – 22 giugno

- rilascio o collaudo di nuove funzionalità di qualsiasi procedura pre-T2S di Monte Titoli che interagisca con la procedura di gestione del collateral della Banca d’Italia .



DCP Certification Tests **(for Directly Connected DCA holder)**



Technical Sender and Business Sender

December 2014, ECB presentation on: [Who needs to conduct Eurosystem certification tests?](#)

Technical Sender: The technical sender delivers the message using a technical communication channel to T2S (i.e. owns the technical address from where the message is received) and receives the ACK/NACK messages;

- The sender/technical address is stated in the technical envelope and has to be provided as metadata from the infrastructure;
- The technical sender is the party actually communicating with T2S via one of the licensed network providers.

Business Sender:

- Is the T2S party of the Instructing system user. It owns the message Id specified in the BAH and therefore defines the scope for the Interface duplicate check;
- The business sender is the party creating and signing the business payload of the messages sent to T2S.

In some scenarios, the business sender and technical sender can be different T2S Actors:

Business and technical sender could be the same institution or different, as the signed message could also be transferred to a message concentrator before being finally submitted to T2S.



Business sending user and Instructing Party

Business sending/Instructing system user (T2S User):

- The business sending user is the user creating the business payload of the request. It is the T2S user signing the message and is stated in the BAH;
- It is checked for privileges (it may or may not be a user of the instructing party); it could be a user of a T2S party that belongs to a different CSD from the CSD of the instructing party specified in the BAH.

Instructing Party:

- The instructing party is the party instructing T2S to process the business payload of the request. It is specified in the BAH (couple of BICs);
- It owns the business reference (TxId) specified in the payload and therefore defines the scope for the LCMM duplicate check;
- The instruction belongs to the system entity of the instructing party.



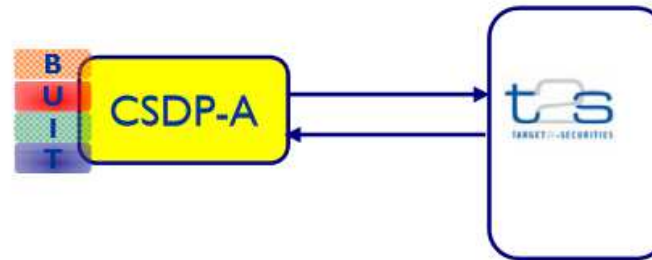
DCP Certification Test

The Eurosystem requires that both Technical and Business Sender have passed the certification for T2S:

- The **purpose** of the certification is to check that the Technical Sender is ready to communicate with the T2S platform and that the Business Sender is able to prepare correctly formatted and signed business messages;
- Technical and Business Sender have to jointly pass the certification, as both are required for actually transmitting a message to T2S;
- The certification needs to be passed only once (irrespective as a CSD, NCB, PB or CSD participant), even if multiple entities are linked to T2S via the same setup, as long as the initial scope of the certification is not exceeded and the same infrastructure is used for generating, signing and sending the messages.



DCP Certification Test



- CSD Participant CSDP-A of CSD-A sends settlement instruction directly to T2S
- CSDP-A is the technical sender, the business sender and the instructing party for all its instructions to T2S

U

T2S User



Certification testing required

I

Instructing party

T

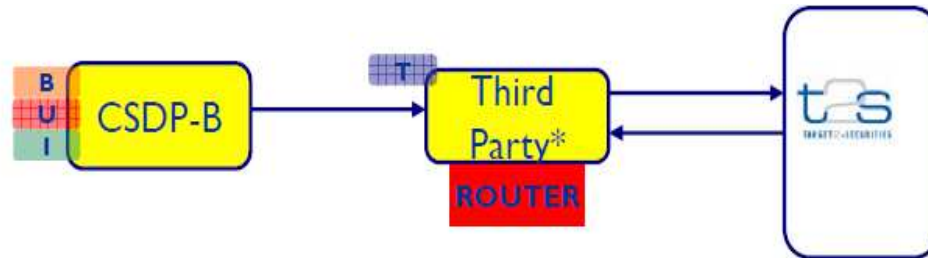
Technical Sender

B

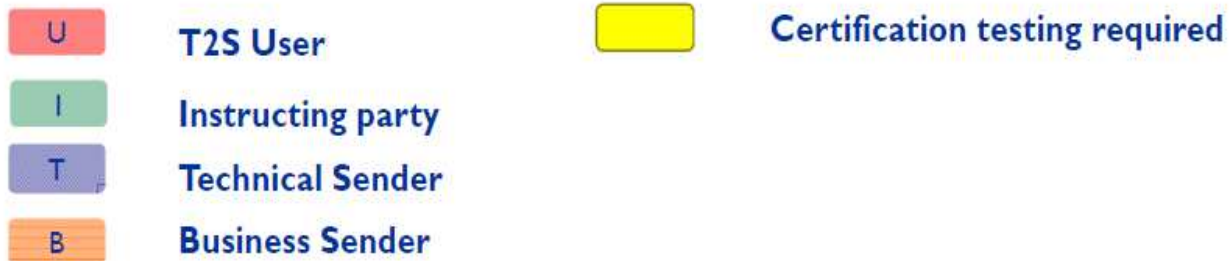
Business Sender



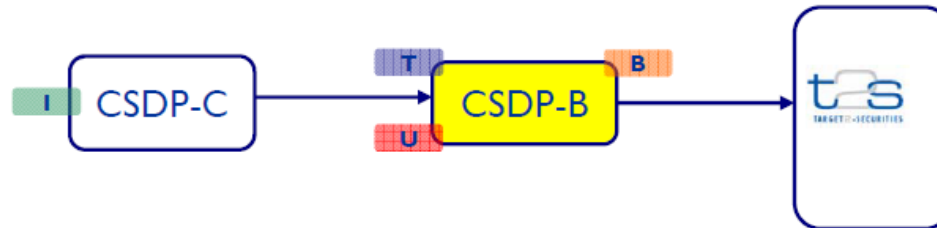
DCP Certification Test



- CSD Participant CSDP-B of CSD-B sends settlement instruction via a third party (acting as router) to T2S
- CSDP-B is the business sender and the third party is the technical sender for all instructions of CSDP-B sent to T2S



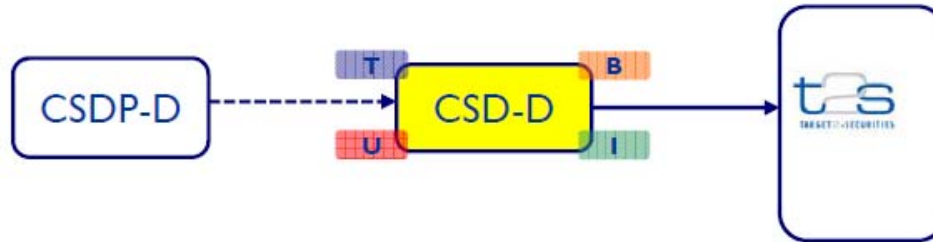
DCP Certification Test



- CSDP-C and CSDP-B are both CSD participants; CSDP-B has power of attorney on accounts of CSDP-C
- CSD Participant CSDP-C is the instructing party. It sends settlement instructions to CSDP-B.
- CSDP-B is the business sender and the technical sender for all instructions of CSDP-C sent to T2S. CSDP-B signs the message and keeps TxId reference of CSDP-C



DCP Certification Test



- CSD Participant CSDP-D of CSD-D. CSD-D sends settlement instructions on behalf of CSDP-D
- CSD-D is also the business sender and the technical sender for all instructions of CSDP-D sent to T2S. CSD-D signs and assigns own TxId reference to the message.

U	T2S User		Certification testing required
I	Instructing party		
T	Technical Sender		
B	Business Sender		



Authorisation Tests

(for Directly Connected DCA holder)



Authorisation Test Cases

- Access Right Management
- Liquidity Transfer
- Liquidity management
- Secondary CMB management by DCA holders
- Secondary CMB management by DCA holders
- Reports
- Auto-collateralisation/Client Collateralisation

Test id	Test case	Test category
Access right management		
AUTH-T2S-RIGMN-0010	Creation of a Business User	MAND
AUTH-T2S-RIGMN-0020	Grant role to a user	MAND
AUTH-T2S-RIGMN-0030	Grant privileges to a user	MAND
AUTH-T2S-RIGMN-0040	Extend a user data scope	MAND
AUTH-T2S-RIGMN-0050	Reduce user data Scope	MAND
AUTH-T2S-RIGMN-0060	List Privilege Details	MAND
AUTH-T2S-RIGMN-0070	Revoke a role from a user	MAND
AUTH-T2S-RIGMN-0080	Create Certificate DN	MAND
AUTH-T2S-RIGMN-0090	Create Certificate DN Link	MAND
AUTH-T2S-RIGMN-0100	Delete Certificate DN	MAND
AUTH-T2S-RIGMN-0110	Delete User	MAND
AUTH-T2S-RIGMN-0120	Delete User Certificate DN Link	MAND
AUTH-T2S-RIGMN-0130	Update User	MAND
AUTH-T2S-RIGMN-0140	Grant privileges to a party	MAND
AUTH-T2S-RIGMN-0150	Revoke privileges to a party	MAND



Authorisation Test Cases

Liquidity transfer		
AUTH-T2S-LIQTF-0010	Create Liquidity Transfer Order Link Set	COUS
AUTH-T2S-LIQTF-0020	Update Liquidity Transfer Order Link Set	COUS
AUTH-T2S-LIQTF-0030	Delete Liquidity Transfer Order Link Set	COUS
AUTH-T2S-LIQTF-0040	Create Liquidity Transfer Order	COUS
AUTH-T2S-LIQTF-0050	Update Liquidity Transfer Order	COUS
AUTH-T2S-LIQTF-0060	Delete Liquidity Transfer Order	COUS
AUTH-T2S-LIQTF-0070	Enter via U2A an immediate liquidity transfer from one DCA to a linked RTGS account.	MAND
AUTH-T2S-LIQTF-0080	Enter via U2A a standing order liquidity transfer from a DCA to a PM account based on an event	COUS
AUTH-T2S-LIQTF-0090	Enter via U2A a standing order liquidity transfer from a DCA to a PM account based on time	COUS
AUTH-T2S-LIQTF-0100	Enter via U2A a predefined liquidity transfer from a DCA to a PM account based on an event	COUS
AUTH-T2S-LIQTF-0110	Enter via U2A a predefined liquidity transfer from a DCA to a PM account based on time	COUS
AUTH-T2S-LIQTF-0120	<i>Enter via U2A a liquidity transfer from a DCA to a PM account based on the settlement of Corporate Actions or trading related transactions</i>	COUS
AUTH-T2S-LIQTF-0130	<i>Cash Settlement Notifications during RTS</i>	COUS
AUTH-T2S-LIQTF-0140	<i>Cash Settlement Notifications during NTS</i>	COUS
AUTH-T2S-LIQTF-0150	Liquidity Transfer from DCA to PM Account GoA (VA)	COUS
AUTH-T2S-LIQTF-0160	Partial execution of Liquidity Transfer from DCA to PM Account GoA (VA)	COUS
AUTH-T2S-LIQTF-0170	Automatic cash sweep at 17:45 CET	COUS
AUTH-T2S-LIQTF-0180	Immediate Liquidity Transfer from DCA to another DCA of the same DCAH or own CB DCA	COUS
AUTH-T2S-LIQTF-0190	Immediate Liquidity Transfer from DCA to another DCA of another DCAH (negative case)	COUS



Authorisation Test Cases

Liquidity management

AUTH-T2S-LIQUM-0010	Create limit(s) in the frame of client collateral.	COUS
AUTH-T2S-LIQUM-0020	Update limit(s) in the frame of client collateral.	COUS
AUTH-T2S-LIQUM-0030	Delete limit(s) in the frame of client collateral.	COUS
AUTH-T2S-LIQUM-0040	Multiple Liquidity Providers Functionality	COUS
AUTH-T2S-LIQUM-0050	Set up of a lower/upper threshold (floor/ceiling limit) and receiving a floor notification	COUS

Secondary CMB management by DCA holders

AUTH-T2S-CMBMG-0010	Creation secondary CMB	COUS
AUTH-T2S-CMBMG-0020	Update secondary CMB	COUS
AUTH-T2S-CMBMG-0030	Delete secondary CMB	COUS
AUTH-T2S-CMBMG-0040	List secondary CMB changes	COUS

Reports

AUTH-T2S-RPRT-0010	Reports Configuration	MAND
AUTH-T2S-RPRT-0020	Receive Statement of Accounts	MAND

Queries

AUTH-T2S-QUERY-0010	Execute DCA Balance Query in U2A/A2A mode.	MAND
AUTH-T2S-QUERY-0020	Execute DCA Balance Query in A2A mode	COUS



Authorisation Test Cases

Restrictions		
AUTH-T2S-RESTR-0010	Enter settlement restriction on cash blocking	COUS
AUTH-T2S-RESTR-0020	Enter settlement restriction on cash reservation	COUS
AUTH-T2S-RESTR-0030	Enter settlement restriction on cash CoSD blocking	COUS
AUTH-T2S-RESTR-0040	Copy of settlement restriction on cash blocking	COUS
AUTH-T2S-RESTR-0050	Copy of Settlement Restriction on Cash Reservation	COUS
AUTH-T2S-RESTR-0060	Copy of Settlement Restriction on Cash CoSD Blocking	COUS
AUTH-T2S-RESTR-0070	View on Settlement Restriction on Cash Blocking	COUS
AUTH-T2S-RESTR-0080	View on Settlement Restriction on Cash Reservation	COUS
AUTH-T2S-RESTR-0090	View on Settlement Restriction on Cash CoSD Blocking	COUS
AUTH-T2S-RESTR-0100	Create link for settlement restriction to cash blocking	COUS
AUTH-T2S-RESTR-0110	Create link for settlement restriction on cash Reservation	COUS
AUTH-T2S-RESTR-0120	Create link for settlement restriction on cash CoSD blocking	COUS
AUTH-T2S-RESTR-0130	Delete link for settlement restriction on cash CoSD Blocking/Cash reservation/Cash Blocking	COUS
AUTH-T2S-RESTR-0140	Change of priority of a settlement restriction on cash blocking	COUS
AUTH-T2S-RESTR-0150	Change of priority of a settlement restriction on cash Reservation	COUS
AUTH-T2S-RESTR-0160	Change of priority of a settlement restriction on cash CoSD blocking	COUS
AUTH-T2S-RESTR-0170	Query details of amendment instruction for settlement restriction on cash – Blocking	COUS
AUTH-T2S-RESTR-0180	Query details of amendment instruction for settlement restriction on cash - Reservation	COUS
AUTH-T2S-RESTR-0190	Query details of cancellation instruction for settlement restriction on cash – blocking	COUS
AUTH-T2S-RESTR-0200	Query details of cancellation instruction for settlement restriction on cash - reservation	COUS
AUTH-T2S-RESTR-0210	Intraday movement from one restriction to another (DLVR to ...)	COUS



Authorisation Test Cases

Auto-collateralisation/Client Collateralisation		
AUTH-T2S-COLLA-0010	Upload the information about eligible securities in A2A	COUS
AUTH-T2S-COLLA-0020	Upload the information about eligible securities In U2A	COUS
AUTH-T2S-COLLA-0030	Remove security from eligible securities list in U2A	COUS
AUTH-T2S-COLLA-0040	Upload the information about eligible securities valuation in A2A	COUS
AUTH-T2S-COLLA-0050	Upload the information about eligible securities valuation in U2A	COUS
AUTH-T2S-COLLA-0060	Change the information about eligible securities valuation in A2A	COUS
AUTH-T2S-COLLA-0070	Change the information about eligible securities valuation in U2A	COUS
AUTH-T2S-COLLA-0080	Provide credit (to a client) via collateralisation on flow	COUS
AUTH-T2S-COLLA-0090	Provide credit (to a client) via collateralisation on stock	COUS
AUTH-T2S-COLLA-0100	Receiving credit via collateralisation on flow or on stock	COUS
AUTH-T2S-COLLA-0110	Optional cash sweep (to RTGS) after the automatic reimbursement (collateral relocation)	COUS
<Depends on CB auto-collateralisation procedure>	Provision of credit via auto-collateralisation with automated collateral substitution (dynamic reimbursement)	COUS
<Depends on DCAH own procedure >	Reimbursement of auto-collateralisation till 16:30	COUS
<Depends on CB auto-collateralisation procedure>	Release of reverse transactions with insufficient cash balance for the reimbursement, followed by a liquidity transfer	COUS
<Depends on CB auto-collateralisation procedure>	Automatic reimbursement of auto-collateralisation with rebalancing of liquidity between DCAs but without collateral	COUS
<Depends on CB auto-collateralisation procedure>	Automatic reimbursement of auto-collateralisation with rebalancing of liquidity between DCAs and collateral	COUS



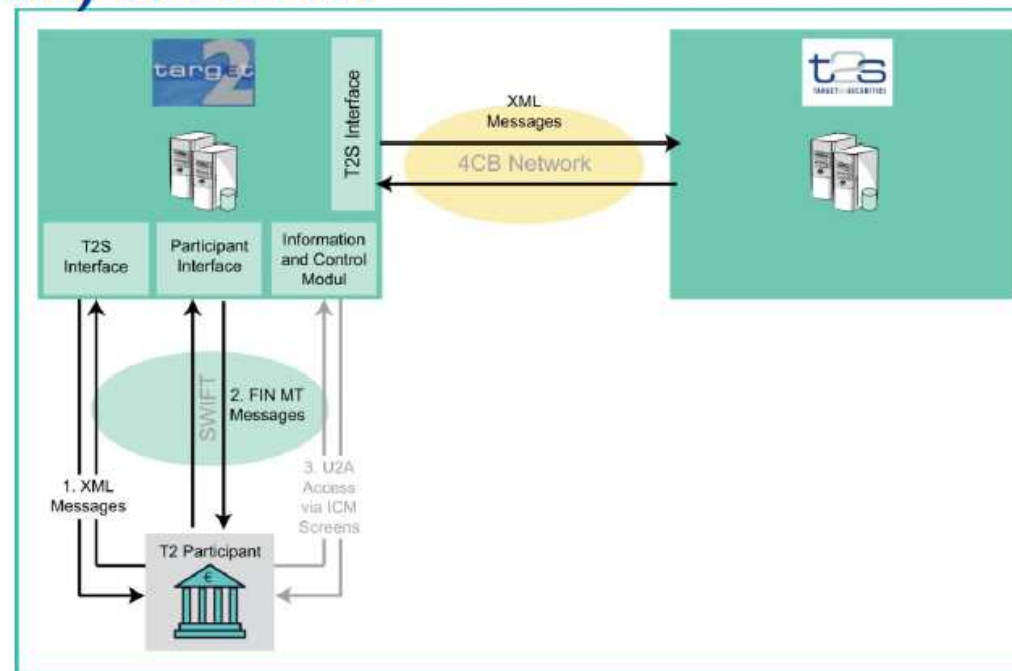
T2SI Interoperability Tests

(both for Directly Connected DCA holder and Indirectly Connected DCA holder)



T2S Interface

- **Communication via a new interface in T2 (T2SI)**
- **T2 communication modes towards T2 customers:**
 - **Application-to-application (A2A), Graphical User Interface ICM (U2A) or FIN MT**



T2S Interface

- T2S Interface in T2 (T2SI) will technically connect the euro-denominated DCAs in T2S with the RTGS accounts in T2
 - New dedicated interface specially designed for T2S (T2 release 7.0)
 - T2SI provides features for shifting easily and quickly liquidity from RTGS accounts to dedicated cash accounts (DCAs) and vice versa
- Mandatory functionality (core services)
 - Focusing on liquidity management with T2S for T2 direct participants having migrated to the XML message standard required by T2S
- Optional value added services
 - Envisaged for those T2 direct participants having not migrated to the new XML message standard (still using legacy standards). The value added services are only provided as whole package and priced separately.



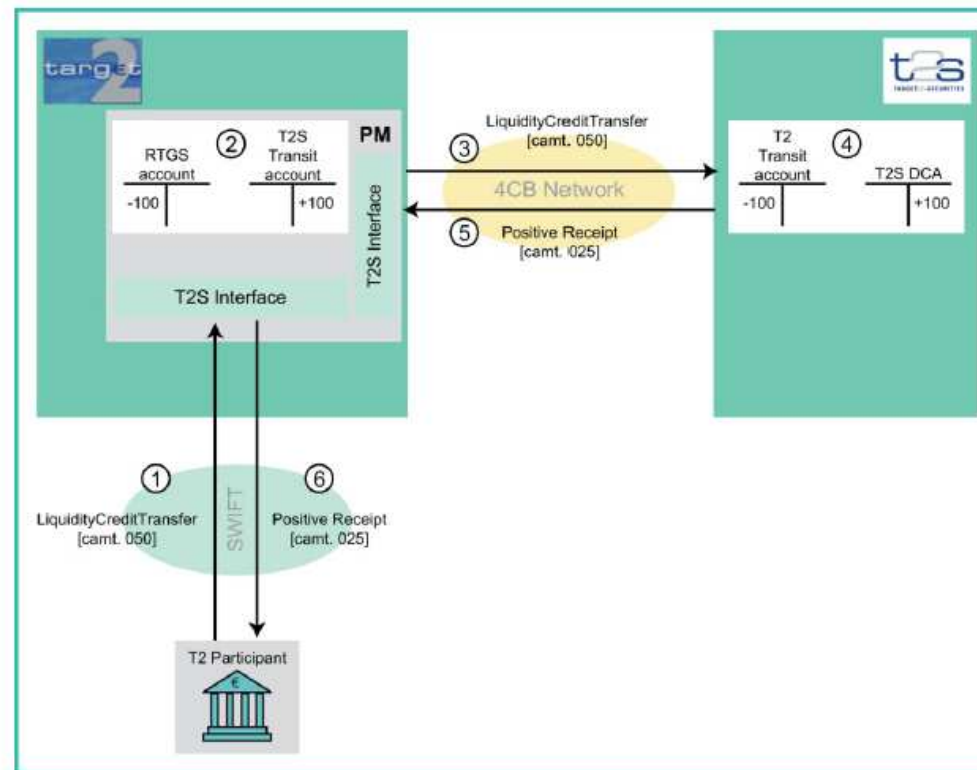
T2S Interface – Core Services

- Current order liquidity transfer ("push") to T2S (via XML/A2A and ICM/U2A)
- Standing order liquidity transfer to T2S
- Debit notification (on optional basis) for liquidity transfer ("push") on RTGS via
 - Current order (initiated via ICM/U2A or by T2S actor in T2) or via
 - Standing orderprovided as FIN MT, XML/A2A, ICM/U2A (the latter on request)
- Information on incoming liquidity transfer from T2S (FIN MT, XML/A2A, ICM/U2A)
- Current order liquidity transfer ("push") to T2S by so called "T2S Actor in T2" (via XML/A2A)



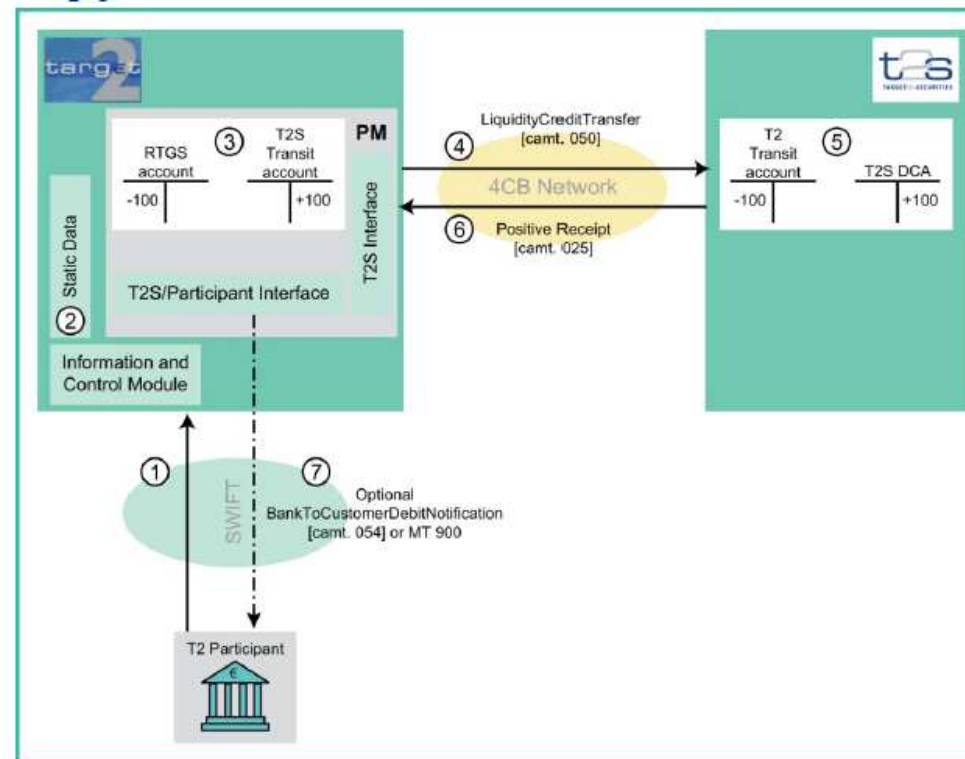
T2S Interface– Core Services

- Flow of current order liquidity transfer to T2S initiated via XML message by T2 account holder**



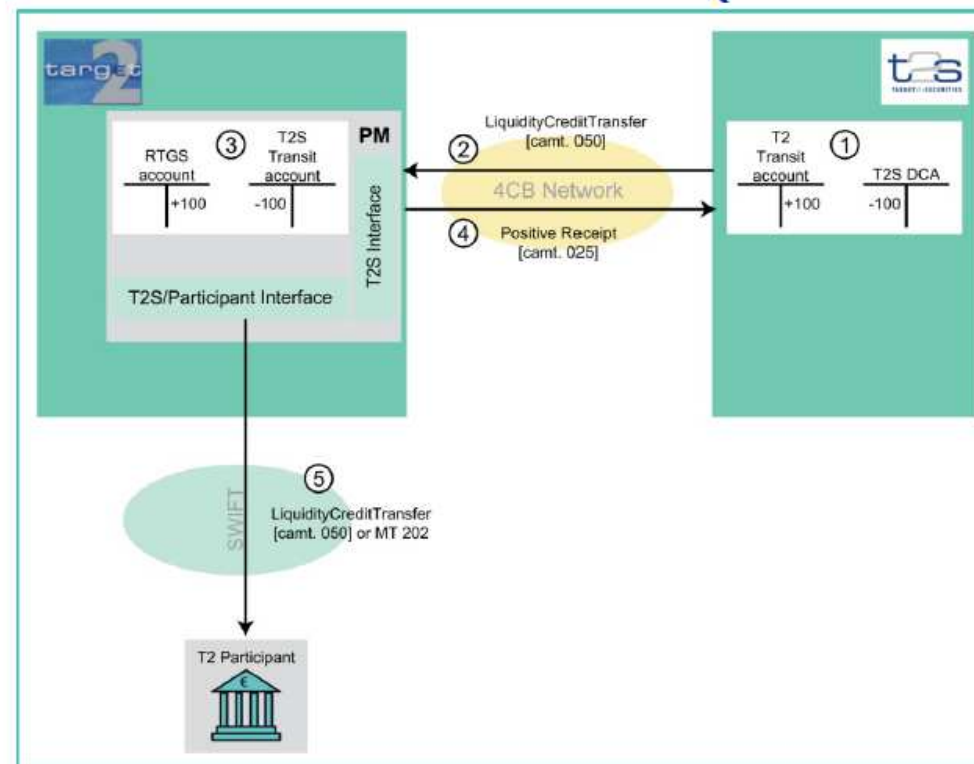
T2S Interface– Core Services

- **Flow of standing order liquidity transfer to T2S**
- **Predefined in T2 static data (execution: start of business day)**



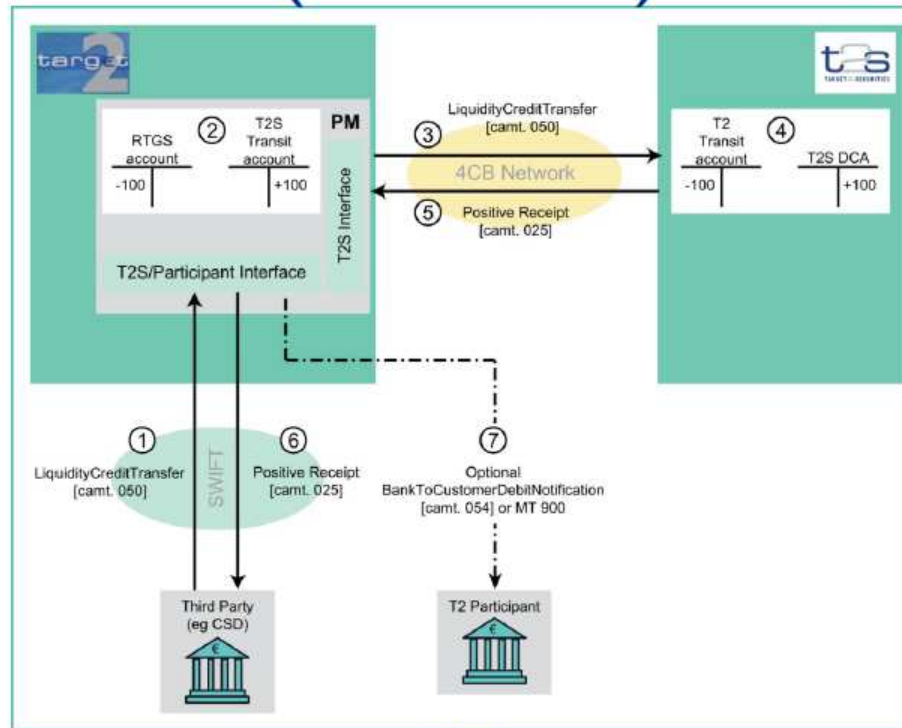
T2S Interface– Core Services

- **Flow of incoming liquidity transfer initiated in T2S (during the day or end-of-day)**
- **Information via MT 202 or XML (camt.050)**



T2S Interface– Core Services

- **Flow of current order liquidity transfer to T2S initiated by "T2S Actor in T2"**
 - To be authorised by the T2 participant; i.e. assigned to a dedicated A2A role ('APPLICDTE')



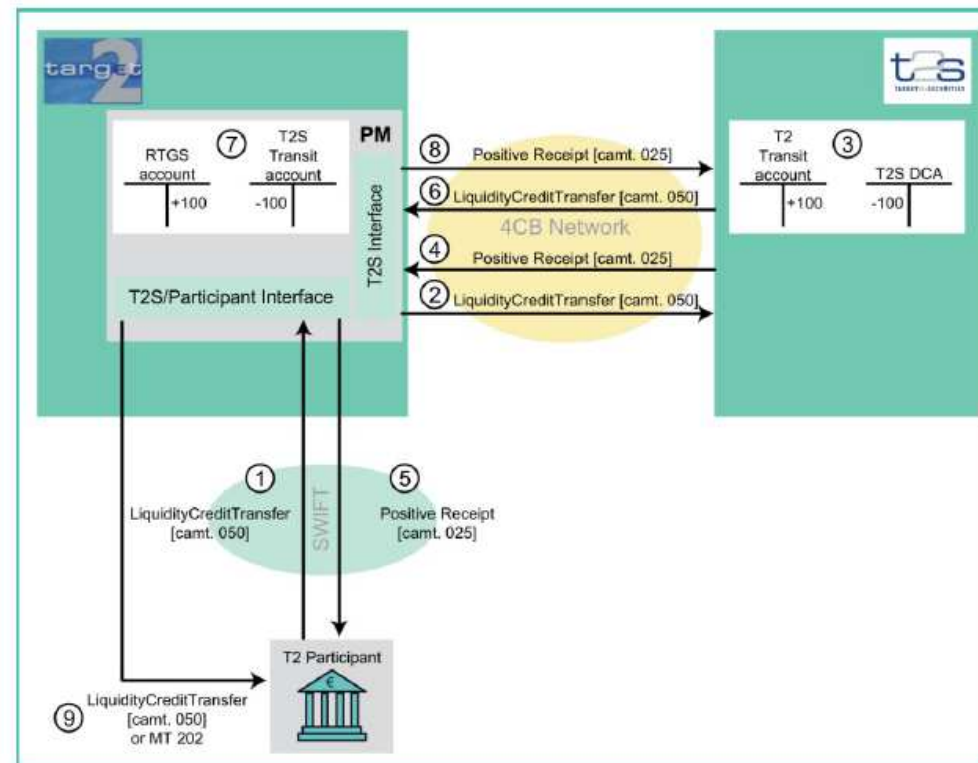
T2S Interface – Value Added Services

- Current order liquidity transfer ("push") via SWIFT FIN message MT 202
- Current order liquidity transfer ("pull") from T2S DCA to RTGS account (FIN MT, XML/A2A, ICM/U2A)
- T2S DCA intraday balance
 - Monitor the balances of the T2S DCA accounts linked to the RTGS accounts directly in ICM (U2A) or
 - Request the DCA balance via XML message (A2A)



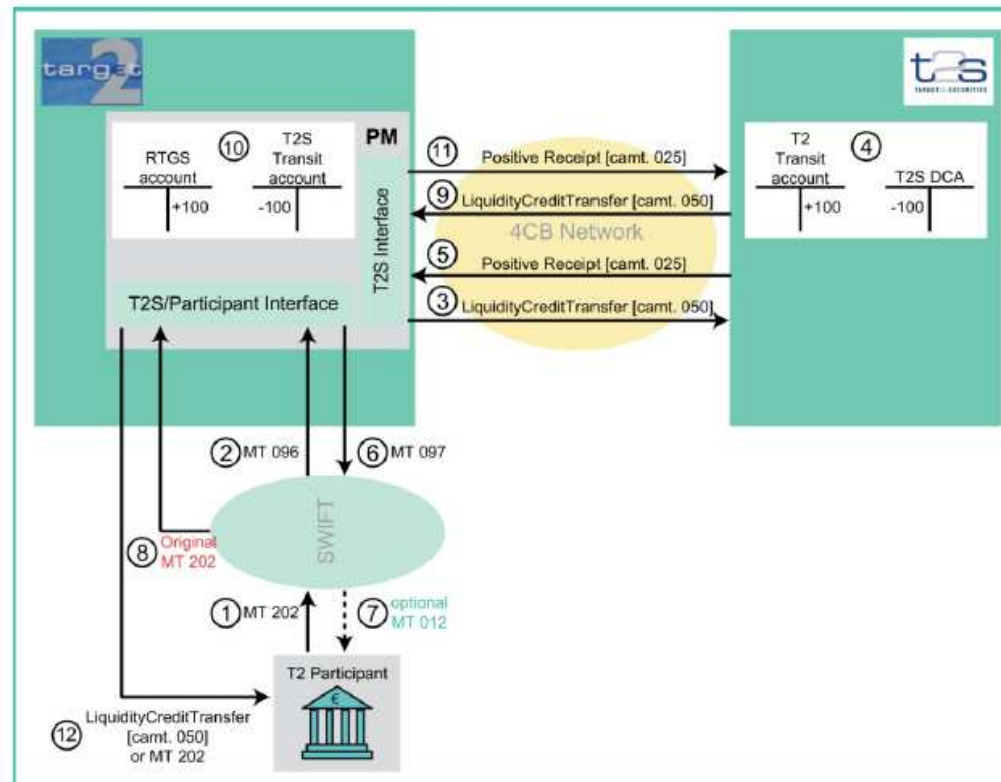
T2S Interface – Value Added Services

- Flow of liquidity transfer from T2S initiated in T2: “pull liquidity” via XML message



T2S Interface – Value Added Services

- Flow of liquidity transfer from T2S initiated in T2: “pull liquidity” via MT message



T2SI Interoperability Tests

- https://www.ecb.europa.eu/paym/t2/professional/nov_2013/html/index.en.html

- **TARGET2 Interoperability test cases related to T2S system**

IOP-T2SI-010	Sending of a Liquidity transfer via ICM from RTGS account to DCA
IOP-T2SI-010 Negative	Sending of a Liquidity transfer via ICM from RTGS account to a non-existing DCA
IOP-T2SI-020	Sending of a Liquidity transfer via XML from RTGS account to DCA
IOP-T2SI-020 Negative	Sending of a Liquidity transfer via XML from RTGS account to non existing DCA
IOP-T2SI-030	Sending of a Liquidity transfer via XML from RTGS account to DCA
IOP-T2SI-040 (push-VAS)	Sending of a Liquidity transfer via MT202 from RTGS account to DCA
IOP-T2SI-040 Negative (push-VAS)	Sending of a Liquidity transfer via MT202 from RTGS account to non existing DCA
IOP-T2SI-050 (pull-VAS)	Pull of a Liquidity transfer via ICM from T2S DCA account to T2 RTGS account
IOP-T2SI-060 (pull-VAS)	Pull of a Liquidity transfer via XML from T2S DCA to T2 RTGS account
IOP-T2SI-065 Negative (pull-VAS)	Pull of a Liquidity transfer via XML from T2S DCA to T2 RTGS account (negative case)
IOP-T2SI-070 (pull-VAS)	Pull of a Liquidity transfer via MT202 from T2S DCA to T2 RTGS account
IOP-T2SI-070 Negative (pull-VAS)	Pull of a Liquidity transfer via MT202 from T2S DCA to T2 RTGS account (negative case)
IOP-T2SI-080	Automated repatriation of the T2S DCA to the linked external RTGS account (Sweep at EOD)
IOP-T2SI-100	T2S Actors to check status of liquidity transfer eg in case of missing the related Receipt (Get Transaction_T2SI).
IOP-T2SI-105	T2S Actors to revoke pending liquidity transfer to T2S. (CancelTransaction_T2SI).
IOP-T2SI-110	The GetAccount message is sent to receive DCA balance information from T2S.
IOP-T2SI-120	Define (or modify) a Standing Order Liquidity transfer to T2S (DCA) via A2A
IOP-T2SI-130	Define a Standing Order Liquidity transfer to T2S Dedicated Cash Account via U2A (ICM) for the opening of Night Time Settlement
IOP-T2SI-140	Modify (or delete) a Standing Order Liquidity Transfer to T2S Dedicated Cash Account via U2A (ICM)



T2SI Interoperability Tests

For each test case it is specified:

- Test ID
- Function
- Test category:
 - MAND: Mandatory
 - COUS: Conditional On Usage.
- Apply to: DP, GoA Manager, Third party T2S Actor (CSD-CI), DP (VAS), GoA manager (VAS)
- Phase of the Business Day
- Pre-Condition to be satisfied
- Description
- References



T2SI Interoperability Tests

Test ID	IOP-T2SI-010
Function	Sending of a Liquidity transfer via ICM from RTGS account to DCA
Test category	MAND
Apply to	DP, GoA manager
Phase of the business day	From start of new business day = start of phase "Settlement of AS night time processing"(19:30) and during T2 day trade phase till dedicated cut-off time for liquidity transfers to T2S (17:45) interrupted by T2 maintenance window from 22:00 to 01:00.
Pre-conditions	<ul style="list-style-type: none"> • RBAC profile: CULIQUITE/FE; CUGAMATE/FE • Sufficient liquidity on RTGS account • Optional: Participant may request to receive a BankToCustomerDebitNotification or MT900
Description	<p>Direct participant initiates a liquidity transfer from T2 to T2S via T2 ICM dedicated page. Participant select a DCA from the list of DCs linked to RTGS account (drop downlist) or enter any DCA account number directly. Sufficient funds available.</p> <p>Expected results</p> <ul style="list-style-type: none"> • Participant's RTGS account debited and DCA credited • T2 sends an optional BankToCustomerDebitNotification (camt.054.001.03) with subfamilycode "FICT" or MT900 to participant depending on the flag for T2S related notifications <p>Comment:</p>
References	UDFS I/ 2.9.3.1.2.3; IV 6.12.1/ ICM-UHB I/6.1.1; 6.1.2; 6.4.1



Business Tests
(both for Directly Connected DCA holder and Indirectly Connected DCA holder)



Business Tests - Operational Scenarios

- Scenarios aiming at simulating a complete business day (normal and contingency situations).
 - Migration tests (will be covered in the next meeting)
- Operational Related Tests that are identified from the respective chapters of the T2S MOP:
 - **Multilateral** - the CSDs/Central Banks test with other participating CSDs and Central Banks of the same wave or subsequent waves to assess together the respective processes/ operational procedures from MOP to ensure their readiness of adaptation with T2S and verify effectiveness of T2S Services at their respective end.

This category of tests requires a coordination of the test by the T2S Coordinator and or/ the T2S Service Desk (example: simulate a restart after disaster)
 - **Individual** – the CSDs/Central Banks test respective procedures from MOP to verify that T2S Services are working as required. This category of tests can be performed on an individual basis, they might only require involvement of the T2S Service Desk. However, CSDs/ Central Banks can still decide to organise such test together with other CSDs/ Central Banks.

(example: acting on behalf)
- Scenarios which require a Test Environment will be planned during Multilateral/Community Test phases



Business Tests - Operational Scenarios for wave 1

Following 5 test scenarios are mandatorily to be tested before the migration of Wave 1 CSDs and CBs:

T2S Delay

T2S Settlement day delay provision at the start of DVP cut-off & subsequent cut-offs delay including start of next Settlement day in combination with the delay closure of TARGET2 business day. Managing delay within NTS completion of next business day

T2S Without Liquidity

T2S processing settlement without liquidity from TARGET2 or with limited liquidity (using auto-collateralisation functionality) and have the provision of injecting liquidity later part (during NTS) of the T2S Settlement Day

DCA Overnight Liquidity

T2S close the settlement day with liquidity at DCAs and open the new settlement day with cash balance at DCAs

T2S Weekend Settlement

A 'weekend day' will be simulated during the week to verify T2S is capable of starting RTS on Saturday morning and T2S Actors are capable of submitting and receiving instructions etc. during the weekend. In addition, T2S is functioning properly after major release deployment on T2S side and/ or CSDs and/ or Central Banks side

Restart After Disaster

Triggering loss of data, reconciliation process is successful (securities accounts/ dedicated cash account positions and balances are synchronised and validated as correct by the T2S Actors). System can restart the operation after the rebuilding process of the missing data



ASPETTI ORGANIZZATIVI



- CERTIFICATION TEST (DCP)
- AUTHORISATION TEST (DCP)
- INTEROPERABILITY TEST (DCP, ICP, altri titolari di conto RTGS)



CERTIFICATION TEST

- Gli operatori, tramite la BCN di competenza, dovranno comunicare l'esito dei test alla BCE utilizzando l'apposito report.
- Il report dovrà essere corredato di un documento che riporti i dettagli dei test effettuati per poter essere verificati dalla BCE.
- Gli operatori riceveranno, tramite la BCN di competenza, la certificazione rilasciata dalla BCE.
- L'invio e la ricezione dei documenti citati avverrà tramite e-mail (T2S_BDI@bancaditalia.it).



Report da inviare alla BCE

Certification Testing Report
Central Bank and Directly Connected DCA Holder Certification

Banca d'Italia

Institution: Banca d'Italia

Role: CB collateral manager

Contact person: Francesco Vacirca

Date: 18/12/2014

Connectivity	Test ID and Test case name	Role			Test cases			Required test evidence and comments	Eurosystem Certification date
		CB liquidity provider	CB collateral manager	Directly Connected DCA Holder	Successful	Not successful	Not applicable		
A2A	CERT_02: Send a request to create a Party (file and/or single message)	M	M	-	✓		✓	Parties are created in U2A only.	
	CERT_13: Send a request for an Immediate Outbound Liquidity Transfer (file and/or single message)	M	M	M	✓		✓	Outbound liquidity transfers are executed in U2A mode only.	
	CERT_14: Send a request for defining a Security as eligible for	-	M	O	✓			See attached report	
	CERT_15: Send a Security Valuation Creation	-	M	O	✓			See attached report	
	CERT_07: Receive a report (in push mode and/or pull mode)	M	M	M	✓			See attached report	
U2A	CERT_16: Create an External RTGS Account	M	M	-	✓			See attached report	
	CERT_17: Enter an Immediate Outbound Liquidity Transfer	M	M	M	✓			See attached report	
	CERT_12: Display a report	M	M	M	✓			See attached report	

Legend:
 M - mandatory test case for relevant role
 O - optional test case for relevant role

✓ = yes (press 'a' for symbol)
 ✗ = no (press 'r' for symbol)



Documenti forniti dalla Banca d'Italia per la propria certificazione

Test ID	Connectivity mode	Test case name	Relevant for
			Banca d'Italia
CERT_02	A2A	Send a request to create a Party (file and/or single message)	N
CERT_13	A2A	Send a request for an Immediate Outbound Liquidity Transfer (file and/or single message)	N
CERT_14	A2A	Send a request for defining a Security as eligible for collateralisation (file and/or single message)	Y
CERT_15	A2A	Send a Security Valuation Creation	Y
CERT_07	A2A	Receive a report (in push mode and/or pull mode)	Y
CERT_16	U2A	Create an External RTGS Account	Y
CERT_17	U2A	Enter an Immediate Outbound Liquidity Transfer	Y
CERT_12	U2A	Display a report	Y



Documenti forniti dalla Banca d'Italia per la propria certificazione

Test ID	CERT_02
Test case name	Send a request to create a Party
Applicable to	CSD, Central Bank (liquidity provider), Central Bank (collateral manager)
Connectivity mode	A2A
Description	The T2S Actor sends a file and/or a message to create a new party (a CSD participant or a Payment Bank) in T2S <i>(PartyCreationRequestV01-reda.014.001.01)</i>
Prerequisite	The Party does not yet exist in T2S
Expected results	The T2S Actor receives and (technically) acknowledges the status advice message indicating the processing result of the request <i>(PartyStatusAdviceV01- reda.016.001.01)</i>
Test evidence	The BIC (and parent BIC) of the party created and the message ID of the received XML message

NOT APPLICABLE FOR Banca d'Italia
Parties are created in U2A mode.



Documenti forniti dalla Banca d'Italia per la propria certificazione

Test ID	CERT_07
Test case name	Receive a report (in push mode and/or pull mode)
Applicable to	CSD, Security DCP, Central Bank, Directly Connected DCA Holder
Connectivity mode	A2A
Description	<p>The T2S Actor either receives and acknowledges the report via A2A directly after creation of a report (push mode) or retrieves the generated report at a later point in time using an A2A report query (pull mode)</p> <p><i>(ReportQueryRequestV01 - admi.005.001.0).</i></p> <p>Depending on the data volume expected on production, the T2S Actor shall receive a report via a message and/or via a file.</p>
Prerequisite	<p>The configuration of the report is set-up in a pull mode or in a push mode.</p> <p>Depending on the predefined report that is chosen for executing the test, the reported business data shall already exist in T2S. (e.g. for <i>the Statement of Pending Transactions</i>, some pending transactions already exist in T2S; for <i>the Statement of Accounts</i>, some cash positions already exist in T2S).</p>
Expected results	<p>The T2S Actor receives the report directly after its generation (push mode).</p> <p>The T2S Actor retrieves the report by sending a report query (pull mode).</p>
Test evidence	The type of report, the mode (push or pull) and the message ID and/or file ID of the received report.

Type of Report: Statement of Account (camt.053.001.03)

Mode: Push

Received file: 2014-12-22T15:30:01.392629 id: 1419258638231797



Documenti forniti dalla Banca d'Italia per la propria certificazione

SECURITIES	CASH	SERVICES	STATIC DATA	MONITORING			
Static Data > Messages and Reports > Report Configurations > Report Configuration Details							
Report Configuration							
Status Active	Parent BIC TRGTXE2SXXX	Party BIC BITAITRRXXX	Party Short Name Banca d'Italia				
Configuration Name Report di fine giornata	Configuration Description Report di fine giornata						
Mode No	Report Name Statement of Accounts	System Entity Wide Report Yes					
Report Configuration Party Links							
Parent BIC	Party BIC	Party Short Name	Push Mode	Scheduled Time	Event Type Code	Valid from	Valid to
TRGTXE2SXXX	BITAITRRXXX	Banca d'Italia	Yes		IFOP	2014-12-19	9999-12-31

Allegare il messaggio XML



Certificazione ricevuta dalla Banca d'Italia



AUTHORISATION TEST

- Gli operatori dovranno comunicare alla BCN di competenza l'esito dei test, utilizzando l'apposito report fornito dalla BCN.
- In caso di esito positivo dei test, gli operatori non riceveranno alcuna comunicazione dalla BCN e il report sarà considerato esaustivo dell'attività di collaudo.
- La ricezione e l'invio del report avverrà tramite e-mail (T2S_BDI@bancaditalia.it).



INTEROPERABILITY TEST

- Questi test andranno effettuati da tutti gli operatori: DCP, ICP e altri titolari di conto RTGS (non regression test).
- Gli operatori dovranno comunicare alla BCN di competenza l'esito dei test, utilizzando l'apposito report fornito dalla BCN.
- In caso di esito positivo dei test, gli operatori non riceveranno alcuna comunicazione dalla BCN e il report sarà considerato esaustivo dell'attività di collaudo.
- La ricezione e l'invio del report avverrà tramite e-mail (TEST-TARGET2@bancaditalia.it).



MODULO ESITO TEST

ATTESTAZIONE ESITO TEST

Si dichiara che (Nome del partecipante e codice BIC) ha completato tutta l'attività di test prevista per la propria tipologia di partecipazione con il seguente esito:

POSITIVO



PARZIALMENTE
POSITIVO



NEGATIVO



Nel caso di esito parzialmente positivo o negativo, indicare le problematiche riscontrate:

Se il partecipante non intendesse eseguire alcuni test, previsti per la sua tipologia di partecipazione, dovrà motivare la propria decisione facendone menzione nell'autocertificazione.

Nel caso in cui il partecipante decida successivamente di utilizzare funzionalità non testate, dovrà provvedere ad effettuare i relativi test.



CONTATTI

BANCA D'ITALIA

Payment System Department

TARGET2 – Italian National Service Desk

Tel. 06 47925700/3844

Fax 06 47925148

TEST-TARGET2@bancaditalia.it

T2S_BDI@bancaditalia.it



RIFERIMENTI

- DCP Certification tests:
https://www.ecb.europa.eu/paym/t2s/progress/pdf/2013-11-07-eurosystem-certification-test-cases-v1_0.pdf
- Who needs to conduct the Eurosystem certification tests?
http://www.ecb.europa.eu/paym/t2s/progress/pdf/who_needs_to_conduct_certification_tests.pdf
- T2S Technical Session on the status of preparations for T2S
User Testing and Migration
<https://www.ecb.europa.eu/paym/t2s/governance/extmtg/html/mtg48.en.html>
- T2 Release 7.0 web page:
https://www.ecb.europa.eu/paym/t2/professional/nov_2013/html/index.en.html
 - Interoperability Testing
https://www.ecb.europa.eu/paym/t2/shared/pdf/professionals/release_7/interoperability_testing_document.pdf
 - Authorization Test
https://www.ecb.europa.eu/paym/t2/shared/pdf/professionals/release_7/authorisation_test.pdf



Guida alla compilazione dei formulari per l'inserimento dei dati statici in T2S

I Formulari per T2S

Per garantire la massima fruibilità da parte degli utenti, sono state sviluppate due diverse tipologie di form:

- Form per i Directly Connected Parties (DCPs): sono rivolti a tutti gli operatori che sono collegati a T2S attraverso un Value Added Network service provider
- Form per gli Indirectly Connected Parties (ICPs): sono rivolti a tutti gli operatori che apriranno conti DCA e che non sono collegati a T2S tramite VAN provider.

Ciascun Formulario è composto da una Intestazione e da diverse sottoarticolazioni.

I formulari dovranno essere compilati e mandati due volte:

- Per l'ambiente di **Collaudo**
- Per l'ambiente di **Produzione**



Formulari destinati a DCP - ICP

I Formulari che devono essere compilati da parte dei **DCP** sono il:

- 7000 Main Form for Payment Banks - DCP
- 7100 Form for Dedicated Cash Account - DCP
- 7200 Form for DCA Administrator User

I Formulari destinati agli **ICP** sono il:

- 7050 Main Form for Payment Banks - ICP
- 7150 Main Form for Dedicated Cash Account – ICP

I Formulari che dovranno essere inoltrati lato **TARGET2** per chi si avvarrà dei Servizi Core e Opzionali sono:

- 1000 Main Form for Direct PM Participants



Formulari per T2S - The Header

		TARGET2 form for collection of Static Data – Form for Dedicated Cash Account (DCP) –		page: 1 of 4
A,B	BIC:	<input type="text"/>	PARENT BIC:	<input type="text"/>
C,D,E	<input type="checkbox"/> New	<input type="checkbox"/> Modify	<input type="checkbox"/> Close	
F,G,H,I	<input type="checkbox"/> Production	<input type="checkbox"/> Pre-Production	<input type="checkbox"/> Community	Date: <input type="text"/>
J,K	Ref:	<input type="text"/>	rel. Ref:	<input type="text"/>
L,M	Activation date:	<input type="text"/>	Responsible CB:	<input type="text" value="- Select one Entry -"/>

Il BIC è quello di
PRODUZIONE

Il PARENT BIC è
BITAITRRXXX



Formulari destinati ai DCP

Formulari destinati ai DCP - 7000

1. Party		Relevant GUI Screen
11	Party Long Name: <input style="width: 90%; border: 1px solid black;" type="text"/>	<i>New Party</i>
12	Party Short Name: <input style="width: 90%; border: 1px solid black;" type="text"/>	
13	Address	
13a	Street: <input style="width: 90%; border: 1px solid black;" type="text"/>	
13b	House Number: <input style="width: 90%; border: 1px solid black;" type="text"/>	
13c	Postal Code: <input style="width: 90%; border: 1px solid black;" type="text"/>	
13d	City: <input style="width: 90%; border: 1px solid black;" type="text"/>	
13e	State or Province: <input style="width: 90%; border: 1px solid black;" type="text"/>	



Formulari destinati ai DCP - 7000

2. Technical Addresses

21	<div style="border: 2px solid red; padding: 2px;">Technical Address</div> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/>	Network Service Name <div style="border: 2px solid red; padding: 2px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div>	<i>New Party / Technical Address Network Services Links</i>
----	---	---	---

Indicare i Technical Address della Party. Questo viene fornito dal NSP.

3. Default Routings (initial set-up)

31	<div style="border: 2px solid red; padding: 2px;">Technical Address</div> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/> <input style="width: 95%; height: 20px; margin-top: 5px;" type="text"/>	Network Service Name <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">-Select one entry-</div>	<i>New Routing</i>
----	---	---	--------------------

Il Network Service Name distingue:

- Messages Store&Forward
- Messages Real Time
- Files Store&Forward
- Files Real Time

Indicare i Technical Address della Party che vengono utilizzati per il Default Routing



Formulari destinati ai DCP - 7000

4. Client Auto-collateralisation		
41	Client Auto-collateralisation: <input type="radio"/> Yes <input checked="" type="radio"/> No	<i>n. a.</i>
42	Collateralisation procedure: <input type="text" value="-----"/>	<i>New party</i>
43	Technical Address to send daily securities valuations via flat files: <input type="text"/>	<i>n.a.</i>

Se la PAYMENT BANK offre la CLIENT COLLATERALIZATION l'indicazione da inserire è quella del Technical Address da cui vengono spedite le valutazioni dei titoli Eligible per la Client Collateralization

Se la PAYMENT BANK offre la CLIENT COLLATERALIZATION l'indicazione da inserire è **REPO**



Formulari destinati ai DCP - 7100

1. DCA		Relevant GUI Screen
11	DCA number: <input type="text"/>	<i>New Dedicated Cash Account</i>
12	Cash account type: <input type="text" value="Dedicated Cash Account (DCA)"/>	
13	Floor Notification Amount: <input type="text"/>	
14	Ceiling Notification Amount: <input type="text"/>	
15	External RTGS account number: <input type="text"/>	

Inserimento Di un limite massimo e minimo in corrispondenza del quale scatta una notifica da T2S all'operatore



Formulari destinati ai DCP - 7100

2. Credit Memorandum Balance		New Credit Memorandum Balance									
21	Primary CMB: <input type="text" value="Yes"/>										
22	<table border="1"><thead><tr><th>Authorized BIC Rules</th><th>Inclusion</th></tr></thead><tbody><tr><td>BICs:</td><td></td></tr><tr><td><input type="text"/></td><td><input type="text" value="- Select one Entry -"/></td></tr><tr><td><input type="text"/></td><td><input type="text" value="- Select one Entry -"/></td></tr><tr><td><input type="text"/></td><td><input type="text" value="- Select one Entry -"/></td></tr></tbody></table>		Authorized BIC Rules	Inclusion	BICs:		<input type="text"/>	<input type="text" value="- Select one Entry -"/>	<input type="text"/>	<input type="text" value="- Select one Entry -"/>	<input type="text"/>
Authorized BIC Rules	Inclusion										
BICs:											
<input type="text"/>	<input type="text" value="- Select one Entry -"/>										
<input type="text"/>	<input type="text" value="- Select one Entry -"/>										
<input type="text"/>	<input type="text" value="- Select one Entry -"/>										

Devono essere indicati i BIC dei CSD Participant titolari dei conti SAC che sono autorizzati e collegati al DCA ai fini di AUTOCOLLATERAL e per il regolamento della gamba cash delle Settlement Instructions



Formulari destinati ai DCP - 7100

24a, b	Central Bank Auto-collateralisation: <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>New Limit</i>	Indica l'intenzione della banca di usufruire della Central Bank AUTOCOLLATERALIZATION su questo conto DCA
24c	Requested auto-collateralisation limit: <input style="width: 100%;" type="text"/>		
25a	PM account for automatic auto-collateralisation reimbursement	<i>n.a.</i>	Questo campo dovrebbe essere compilato se si vuole definire un limite sul DCA per AUTOCOLL diverso da Unlimited
25b	PM account BIC: <input style="width: 100%;" type="text"/>		
25b	PM account holder MFI code: <input style="width: 100%;" type="text"/>		Indicare il conto PM che deve essere utilizzato nel caso di rimborso automatico – DEVE APPARTENERE ALLA STESSA LEGAL ENTITY DEL DCA HOLDER
26 a, b	Securities accounts for collateral supply (securities account number) <input style="width: 100%; height: 20px;" type="text"/> <input style="width: 100%; height: 20px;" type="text"/>	CSD participant identification (Parent BIC/CSD participant BIC) <input style="width: 100%; height: 20px;" type="text"/> <input style="width: 100%; height: 20px;" type="text"/>	

Il conto/i titoli usato come provider collateral per la central bank AUTOCOLLATERALIZATION

Il partecipante che detiene il conto titoli per il collateral deve essere identificato attraverso il Parent BIC e il BIC del CSD participant



Formulari destinati ai DCP - 7200

1. Administrator User		Relevant GUI Screen	
11	Login name (unique in T2S) <input style="width: 90%;" type="text"/>	<i>New User</i>	Il Login name è unico per ciascun ambiente
12	Name: <input style="width: 90%;" type="text"/>		
13	System User Reference (unique in T2S) <input style="width: 90%;" type="text"/>		
2. User's Distinguished Name			
21	Certificate Distinguished Name: <input style="width: 90%;" type="text"/>	<i>New User Certificate Distinguished Name Link</i>	Indicare il DN del Certificato che deve essere collegato all'utente
22	Default: <input style="width: 80%;" type="text" value="- Select one Entry -"/>		Indicare se il Certificato dell'utente è quello di default o no



Formulari destinati agli ICP

Formulari destinati ai ICP - 7050

1. Party		Relevant GUI Screen
11	Party Long Name: <input type="text"/>	New Party
12	Party Short Name: <input type="text"/>	
13	Address	
13a	Street: <input type="text"/>	
13b	House Number: <input type="text"/>	
13c	Postal Code: <input type="text"/>	
13d	City: <input type="text"/>	
13e	State or Province: <input type="text"/>	



Formulari destinati ai ICP - 7150

1. DCA		Relevant GUI Screen
11	DCA number: <input style="width: 350px; height: 20px;" type="text"/>	<i>New Dedicated Cash Account</i>
12	Cash account type: <input style="width: 300px; height: 20px;" type="text" value="Dedicated Cash Account (DCA)"/>	
15	External RTGS account number: <input style="width: 200px; height: 20px;" type="text"/>	



Formulari destinati ai ICP - 7150

2. Credit Memorandum Balance		<i>New Credit Memorandum Balance</i>
21	Primary CMB: <input style="width: 50px;" type="text" value="Yes"/>	
22	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Authorized BIC Rules</p> <p>BICs:</p> <div style="margin-bottom: 5px;"><input style="width: 100%; height: 15px;" type="text"/></div> <div style="margin-bottom: 5px;"><input style="width: 100%; height: 15px;" type="text"/></div> <div style="margin-bottom: 5px;"><input style="width: 100%; height: 15px;" type="text"/></div> </div> <div style="width: 35%; text-align: center;"> <p>Inclusion</p> <div style="margin-bottom: 5px;"><input style="width: 100%; height: 15px;" type="text" value="- Select one Entry -"/></div> <div style="margin-bottom: 5px;"><input style="width: 100%; height: 15px;" type="text" value="- Select one Entry -"/></div> <div style="margin-bottom: 5px;"><input style="width: 100%; height: 15px;" type="text" value="- Select one Entry -"/></div> </div> </div>	



Formulari destinati ai ICP - 7150

24 a, b	Auto-collateralisation: <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>New Limit</i>						
24 c	Requested auto-collateralisation limit: <input style="width: 150px;" type="text"/>							
PM account for automatic auto-collateralisation reimbursement		<i>n.a.</i>						
25 a	PM account BIC : <input style="width: 250px;" type="text"/>							
25 b	PM account holder MFI code: <input style="width: 200px;" type="text"/>							
26 a, b	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; vertical-align: top;"> Securities accounts for collateral supply (securities account number) </td> <td style="width: 50%; text-align: center; vertical-align: top;"> CSD participant identification (Parent BIC/CSD participant BIC) </td> </tr> <tr> <td style="text-align: center;"><input style="width: 150px;" type="text"/></td> <td style="text-align: center;"><input style="width: 150px;" type="text"/></td> </tr> <tr> <td style="text-align: center;"><input style="width: 150px;" type="text"/></td> <td style="text-align: center;"><input style="width: 150px;" type="text"/></td> </tr> </table>	Securities accounts for collateral supply (securities account number)	CSD participant identification (Parent BIC/CSD participant BIC)	<input style="width: 150px;" type="text"/>	<input style="width: 150px;" type="text"/>	<input style="width: 150px;" type="text"/>	<input style="width: 150px;" type="text"/>	<i>n.a.</i>
Securities accounts for collateral supply (securities account number)	CSD participant identification (Parent BIC/CSD participant BIC)							
<input style="width: 150px;" type="text"/>	<input style="width: 150px;" type="text"/>							
<input style="width: 150px;" type="text"/>	<input style="width: 150px;" type="text"/>							



Formulari da compilare lato TARGET2

Formulario TARGET2 – 1000

5. T2S related notifications		
5.1 Information on incoming liquidity transfers from T2S		
50	<div style="border: 2px solid red; padding: 5px;"> Information on incoming liquidity transfers from T2S: <input checked="" type="radio"/> MT <input type="radio"/> MX <input type="radio"/> No </div>	Enter Participant
51	<div style="border: 2px solid red; padding: 5px;"> SWIFT NET DN for receiving the Information about incoming liquidity transfers from T2S: O= SWIFT </div>	
51b	O= <input style="width: 100px;" type="text"/>	
52	OU= <input style="width: 150px;" type="text"/>	
52b	OU= <input style="width: 150px;" type="text"/>	

Bisogna indicare in quale formato si intende ricevere le notifiche da T2 relative ai Liquidity Transfer da T2S a T2

Indicare il DN al quale si intendono ricevere le informazioni relative ai Liquidity Transfer da T2S



Formulario TARGET2 – 1000

5.2 Optional debit notifications		Enter Participant
53	<p>Optional debit notifications:</p> <p> <input checked="" type="radio"/> MT <input type="radio"/> MX <input type="radio"/> No </p>	
54	<p>SWIFT NET DN for receiving the Optional debit notification:</p> <p>O= SWIFT</p>	
54b	<p>O= <input type="text"/></p>	
55	<p>OU= <input type="text"/></p>	
55b	<p>OU= <input type="text"/></p>	

Bisogna indicare in quale formato si intende ricevere le notifiche da T2 relative ai Liquidity Transfer da T2 a T2S

Indicare il DN al quale si intendono ricevere le informazioni relative ai Liquidity Transfer verso T2S



Formulario TARGET2 - 1000

TARGET2 value-added services for T2S

S VAS

Do you want to use TARGET2 value added services for T2S?

YES
 NO

In questa parte del formulario deve essere indicato se si intende usufruire dei servizi Opzionali implementati da Target2. I Servizi Opzionali non sono disponibili per i conti PM Internet Based.



Adempimenti Amministrativi

I formulari per il censimento in ambiente di **Collaudo** (che sono già stati inviati via mail ai DCA Account Holder) non dovranno essere firmati, e dovranno essere inoltrati direttamente alla casella funzionale test [T2S BDI TEST@bancaditalia.it](mailto:T2S_BDI_TEST@bancaditalia.it) e TEST-TARGET2@bancaditalia.it entro e non oltre il **23/02/2015**.

I formulari per il censimento in ambiente di **Produzione** saranno disponibili in formato PDF sul sito web di Banca d'Italia.





BANCA D'ITALIA
EUROSISTEMA



I collaudi per la movimentazione del collaterale con la Banca d'Italia

Roma, 12 Gennaio 2015
Centro Congressi della Banca d'Italia

Agenda

- Organizzazione dei collaudi

- Casi di test



Organizzazione dei collaudi (1/3)

- I collaudi per la movimentazione del collateral con la Banca d'Italia si svolgeranno durante il Community e Business test (marzo-giugno) nelle giornate in cui sono disponibili le funzionalità FOP secondo quanto stabilito nel calendario di test di Monte Titoli
- La Banca d'Italia propone la costituzione di un gruppo ristretto di banche pilota che potranno testare la movimentazione del collateral nelle prime due settimane di marzo
 - Le banche interessate comunicheranno entro fine gennaio alla Banca d'Italia (test.it.securities@bancaditalia.it) la disponibilità a fare parte del gruppo pilota
- A partire dal 17 marzo tutte le banche potranno testare la movimentazione del collateral con la Banca d'Italia secondo la propria pianificazione interna



Organizzazione dei collaudi (2/3)

- I test relativi alla movimentazione del collateral potranno essere eseguiti, durante l'intero periodo di test, autonomamente e in qualsiasi momento senza un preventivo accordo con la Banca d'Italia
- Solo per le operazioni CCBM disposte dalle banche custodi per conto di banche estere sarà necessario concordare preventivamente con la Banca d'Italia i dati di dettaglio e le date di esecuzione del test
- Diverse modalità di coinvolgimento per le banche che movimentano direttamente il proprio conto pool ("dirette") e quelle che si avvalgono di una banca custode ("indirette"):
 - 55 banche dirette (movimentano il proprio conto pool): dovranno eseguire i test e comunicarne l'esito alla BI
 - 136 indirette (si avvalgono di una banca custode per la movimentazione del proprio conto pool):
 - le banche custodi valuteranno insieme alle proprie banche indirette le modalità di coinvolgimento di quest'ultime nelle attività di test e comunicheranno alla BI l'esito dei test anche con riferimento alle banche indirette
 - ogni banca custode è tenuta a testare la movimentazione del collateral per almeno una propria banca indiretta



Organizzazione dei collaudi (3/3)

- Tutte le banche dovranno comunicare entro il 23 febbraio alla Banca d'Italia
 - le date di presumibile avvio dei test
 - i dati statici necessari per l'esecuzione dei test:
 - *per le operazioni pool, contingencyT2 e assegni circolari*: eventuali conti terzi/liquidatori con facoltà di riutilizzo
 - *per le operazioni CCBM Correspondent*: i BIC della banca custode e della controparte estera da utilizzare per il matching in T2S
- Tutte le comunicazioni, incluse le segnalazioni di errori e le richieste di assistenza, dovranno essere inviate all'indirizzo test.it.securities@bancaditalia.it
- Al termine dei test e comunque non oltre il 15 maggio le banche dovranno comunicare alla Banca d'Italia l'esito positivo dei test



Agenda

- Organizzazione dei collaudi

- **Casi di test**



Casi di test

Consegna garanzie nel pool (per banca sia diretta sia indiretta)

- Test con esito positivo
- Test con esito negativo che determini l'invio di:
 - 6AD di errore (es. titolo non stanziabile)
 - 6AC di errore (es. indicazione di un BIC non censito in T2S)

Ritiro garanzie dal pool (per banca sia diretta sia indiretta)

- Test con esito positivo
- Test con esito negativo che determini:
 - 6AD di errore (es. incapacienza)
 - 6AC di errore (es. indicazione di un BIC non censito in T2S)

Ritiro dal pool di titoli oggetto di relocation

Consegna/ritiro garanzie per assegni circolari (per banca sia diretta sia indiretta)

Consegna/ritiro garanzie per contingency Target2 (per banca sia diretta sia indiretta)

Consegna/ritiro garanzie per operazioni CCBM (solo banche custodi)



Autocollateral e relocation

- La Banca d'Italia invierà giornalmente alla piattaforma T2S la lista dei titoli utilizzabili per l'autocollateral e i coefficienti di valutazione (utilizzando, di norma, i dati di produzione)
- Le banche potranno testare autonomamente l'autocollateral inviando le istruzioni di regolamento titoli e gestendo in modo opportuno la liquidità sul proprio DCA; anche le operazioni di relocation potranno essere testate in modo autonomo
- Dopo il 15 maggio verranno organizzate, d'intesa con Monte Titoli e con altri attori interessati, alcune attività di test relative alle situazioni di contingency , tra cui:
 - sostituzione di un titolo oggetto di relocation a causa della creazione durante la giornata operativa di una restrizione sull'ISIN
 - gestione delle operazioni di autocollateral a seguito di modifiche agli static data effettuate nel corso della giornata operativa



Test di non regressione

Corporate Actions (Cash distribution): verrà seguito il calendario di Monte Titoli

Gli operatori che intendono testare la ricezione dei pagamenti delle corporate actions (in Target2) con riferimento ai titoli detenuti nel pool, dovranno consegnare nel conto pool, entro la record date, il titolo oggetto di corporate actions

Estratto conto pool 6A6: di inizio e fine giornata, inviati quotidianamente

Rifinanziamento marginale a richiesta

La Banca d'Italia comunicherà successivamente l'eventuale esigenza di eseguire ulteriori test di non regressione su processi riguardanti la gestione del pool non direttamente impattati dall'introduzione di T2S.

