

The T2S Project

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T2S Governance

T2S Contractual liability

T2S Programme Plan and Status

Testing phases

T2S Migration and Operations



The aim of Financial Integration in Europe is to create a single European financial market and to increase growth and prosperity of Members States by generating new investment opportunities and strengthening the EU banking sector and ensuring continuous development of the EU economy.





Why T2S? - Fragmented Infrastructure T2S Key facts, Purpose and Benefits



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Concept

T2S is a technical solution to support Central Securities Depositories (CSDs) by providing core, borderless and neutral settlement services.

Objective of T2S

To achieve harmonised settlement in Central Bank Money (CeBM) in euro and other eligible currencies for substantially all securities in Europe.

Technical Settlement Only

Integrated settlement model, BUT the CSDs participating in T2S, and the Central Banks (CB) who make their currencies available for settlement in T2S, will keep full control over the business and contractual relationships with their customers.

Role of Eurosystem

The Eurosystem will manage and operate the business application and the technical solution which provides the T2S Services.













Technical platform of all securities (single pool) and cash accounts to settle all securities transactions in central bank money

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24 CSDs (nearly 100 % of EUR settlement volume) have signed T2S Framework Agreement with the Eurosystem

Danmarks Nationalbank has signed Currency Participation Agreement with the Eurosystem allowing for settlement in DKK on the platform as of 2018

T2S is an open system: more CSDs and currencies can join





- ✓ T2S core system architecture based on "2 regions / 4 sites" concept
- The four sites are fully equivalent and equipped with the same technical resources: processor, storage, network interface, software, etc.









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Involvement of the T2S Governance

Full & transparent involvement

- The T2S User Requirements and all technical documentation are negotiated and agreed with market participants
- Procedures are jointly discussed and agreed with market participants, e.g. operational procedures and information security requirements
- Extensive testing is preformed prior to go-live (within the Eurosystem (IAC and EAT) and later together with all stakeholders, CSDs and users (pilot and user testing).
 - IAC $\dots \rightarrow$ Internal Acceptance Testing EAT $\dots \rightarrow$ Eurosystem Acceptance Testing





T2S Board	Chair: ECB senior manager + 9 members from other Eurosystem NCBs + 1 member from a non-euro area central bank + 2 non-central bank board members (all members are appointed by the Gov. Council)
Non-euro Currencies Steering Group	Senior managers from all non-euro NCBs that signed the Currency Participation Agreement
Governors Forum	Governors of non-euro NCBs with their currencies available in T2S. Plus an equal number of members of the ECB Governing Council
CSD Steering Group	CEOs/ Board members of CSDs that signed the Framework Agreement + T2S Board members and up to 6 user representatives as observers
Advisory Group	"T2S Parliament" (95 participants) Participating CSDs and users in equal number + relevant public authorities (ECB, euro NCBs, non-euro NCBs) + observers (EU Commission, regulators, oversight, 4CBs, etc.)





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T2S Liability – the general principles

- Principle of Liability: <u>duty of reasonable care (incl. obligation</u> to mitigate damages)
- Extent of Liability: duties and obligations provided in the relevant agreement(s); force majeure: standard clause
- Damages covered: <u>Direct</u> (consequential, reputational etc. explicitly excluded)
- Liability for fraud wilful misconduct: Unlimited
- Liability for gross/ordinary negligence: <u>Caps & limitations</u> apply



T2S Liability – important caps and limitation

- Framework Agreement (FA)
 - Ordinary negligence cap: EUR 30 mio/ calendar year (Eurosystem)/ 12 months' fees (per CSD)
 - Gross negligence cap: EUR 500 mio/ calendar year (Eurosystem)/ 5X12 months' fees (per CSD)
 - No Eurosystem liability for CSD early termination of FA
 - CSDs hold Eurosystem harmless from third party claims
- Currency Participation Agreement (CPA)
 - Ordinary negligence cap: EUR 20 mio/ calendar year (Eurosystem)/ EUR 2 mio/ calendar year (CPA NCB)
 - Gross negligence cap: EUR 100 mio/ calendar year (Eurosystem)/ EUR 20 mio/ calendar year (CPA NCB)
 - Eurosystem holds CPA NCB harmless from DCA holder claims
 - No Eurosystem liability for early termination of CPA





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Key milestones until go-live Current status of T2S TARGET 2-SECURITIES • All T2S stakeholders (Eurosystem, central banks, CSDs, banks) to be Challenge ready in time for testing and migration to T2S TARGET 2-SECURITIES SP 16.1: Ready for T2S Go-Live (22 June 2015) SP 6: Eurosystem First-wave CSDs and **Ready for User** Eurosystem NCBs to be Testing (| Sept 2014) ready for migration (four migration waves planned) Eurosystem to set up User Testing environments and SP 5: Start of deliver relevant Eurosystem training material and **Acceptance Testing** testing documentation (31 Mar 2014) 4CB to deliver the T2S software Synchronisation points (SP) Definition $\dots \rightarrow$ Monitoring milestones, represent the check points between the processes of T2S Programme and the internal processes of the CSDs/NCBs reshaping/adaptation project plan. EUROPEAN CENTRAL BANK

EUROSYSTEM



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Eurosystem Acceptance Testing (EAT) started on 31 March 2014 as planned

-Formal tests carried out by the Eurosystem to ensure that the T2S Platform is of the required quality and is compliant with the legal documentation outlining the scope for the T2S Platform.

-20 January 2014 - 4 Central Banks had **established the first connection between the ECB and T2S.**

-From now until September 2014 - A first critical phase of EAT testing activities will run;

-I October 2014 - T2S application will finally be delivered to the CSDs for the user testing phase.

T2S User testing (January 2014 – January 2017)

-Multilateral testing by all external parties – CSDs, national central banks and banks;

-The objective: ensure that the T2S platform fully meets the user requirements.

-The successful completion of the user testing will enable CSDs, central banks, directly connected T2S parties and (other) holders of T2S dedicated cash accounts to migrate to and operate in T2S.

-Testing will be completed after the full migration of the last group of CSDs expected by February 2017.





Testing activities & phases



EAT general preparation

(without connection to T2S)

- governance
- infrastructure
- specification

EAT technical preparation before execution (with connection to T2S)





Testing activities & phases

User Testing Phase (May 2014 - January 2017)

- May 2014 marks the beginning of the User Testing Phase. The first step is SP7 Ready to Start Connectivity Set-up. Connectivity Testing will follow once set-up has been completed, starting at the latest in August 2014.
- In Q3 2014, the specific user testing phases will begin involving those CSDs, national central banks and banks which intend to be directly connected to T2S. The purpose of the different phases is to gradually increase the number of T2S actors involved and expand the scope of testing.
- The objective of the user testing phase as a whole is to ensure that **the T2S platform fully meets the user requirements.** In addition, the successful completion of the user testing will enable CSDs, central banks, directly connected T2S parties and (other) holders of T2S dedicated cash accounts to migrate to and operate in T2S.





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Migration waves (endorsed by ECB GvC November 20







T2S Migration - Overview of migration

The objective of the migration phase is to ensure a **smooth transition of data to the T2S** system and the consequent adaptation of the processes and technical environments of all T2S Actors, i.e. CSDs, central banks, directly connected T2S parties and (other) holders of T2S dedicated cash accounts.

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Phase	Description	Status
Concept	Elaboration of migration strategy and generic migration plan	Completed
Preparation	Detailed planning & preparatory work for the preparation of the individual migration Fulfilling the entry criteria for migration execution	In progress
Implementation	Execution of migration activities prior to and during the migration weekend	Not started
Closing	Reporting on the results of the migration and reflection on "lessons learned" Monitoring after the migration weekend during the stabilisation period	Not started



T2S Migration - migration implementation phase

Migration to T2S will be performed in two steps:

Pre-migration phase:

- Planned typically for 3 months, until the migration weekend
- As a guiding principle, all static data which can be migrated before the migration weekend should be migrated before the migration weekend
- Data will be migrated to T2S according to the agreed schedule applicable to each migration wave
- Migration weekend:
 - Is assumed with 58.25 hours (from Friday 06:45 p.m. until Monday 05:00 a.m.)
 - Dynamic data and delta of static data (new data or updates to the existing data) will be migrated during the weekend
 - Data will be migrated to T2S according to the agreed schedule applicable to each migration wave











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- > T2S will be owned and operated by the Eurosystem
- T2S will be a state-of-the-art settlement engine for securities settlement in central bank money. It uses the latest technology and high security and safety standards.
- Concept of 2 regions/4 sites ensures full business continuity
- Excellent track record of TARGET2

The likelihood of a liability event in T2S is very low.

Loss or damage likely to result in interest compensation only, as T2S is not a CSD.

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Thank you for your attention!

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