



EUROPEAN CENTRAL BANK

EUROSYSTEM

ECB
DG-MIP
TIPS Project Team

Testing Strategy

TIPS Contact Group

1st Meeting on 28 September 2017

Test stages overview

1. Eurosystem Acceptance Test (EAT)

- Performed by the Eurosystem
- During and after development of the service

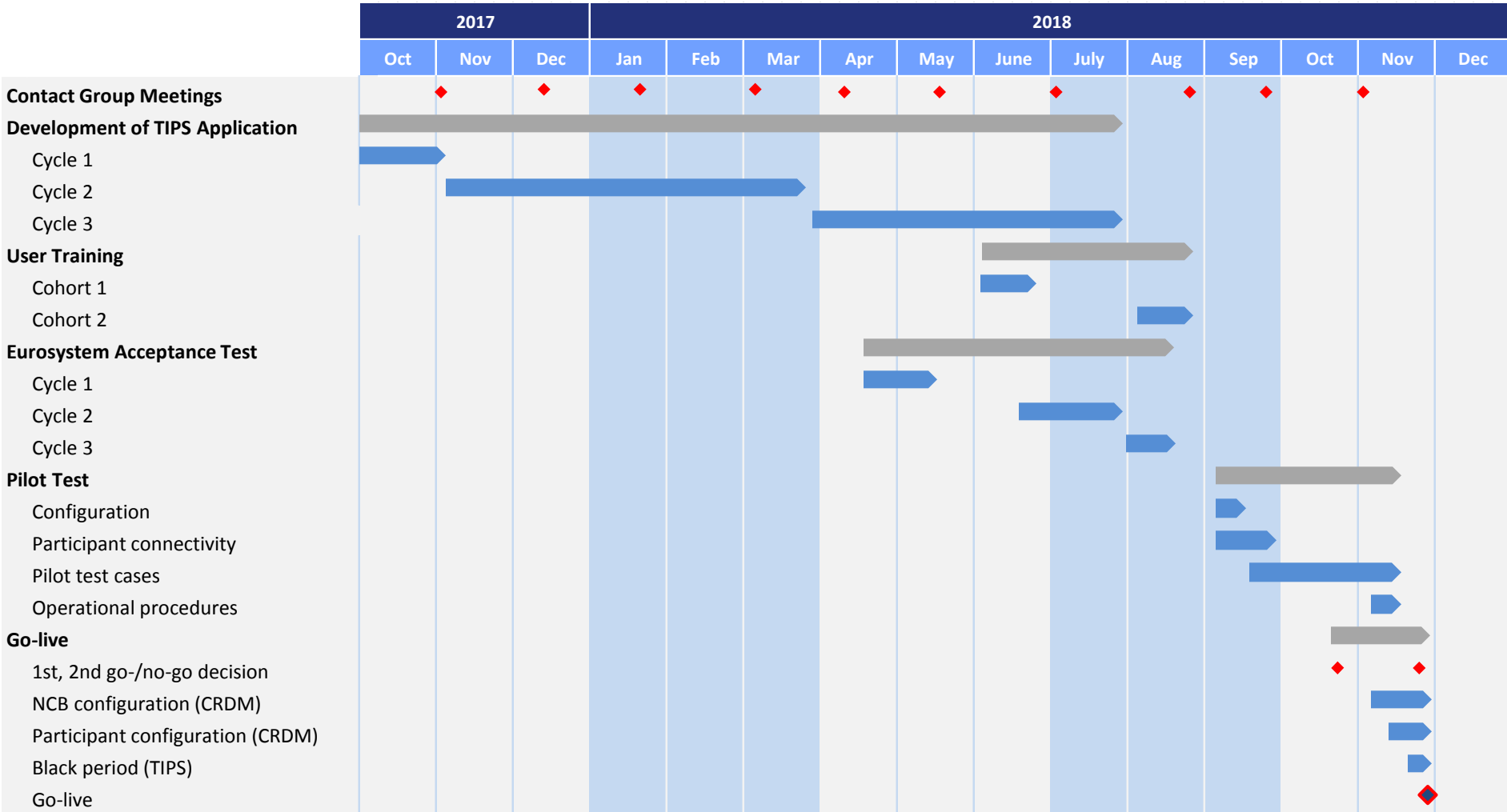
2. Pilot Test (Pilot)

- Performed by TIPS users (i.e. Participants and Central Banks)
- Dedicated test phase from September to mid-November 2018

3. Certification Test (operational phase)

- Performed by new TIPS joiners
- Multiple waves foreseen after go-live

Timeline



Eurosystem Acceptance Test

- Split into **multiple cycles** throughout the development phase
- Objective of the EAT phase is to provide an independent view on the compliance of the implementation to the functional documentation by executing both:
 - **functional tests** (e.g. process speed is considered to be a functional requirement)
 - **non-functional tests** such as
 - performance
 - business continuity
 - security
- Test cases are based on URD and UDFS
- The participants will be informed about the defects that remain at the start of the Pilot Testing phase

Pilot Test

- Purpose is twofold
 - i. Users ensure that their own systems interface work correctly with TIPS (**certification**); and
 - ii. Users are given the opportunity to perform a comprehensive end-to-end testing of the service functionality (**free testing**)
- The certification part during pilot testing is equivalent to certification tests during the operational phase for new joiners; mandatory test cases are provided by the Eurosystem
- Users have to prepare **their own test cases** for free testing
- Users fulfil **roles as during operations**, i.e.
 - Central Banks are responsible for the setup of entities and accounts as well as support for Participants from their national community
 - Participants configure CMBs and links and execute their actual test cases
- Eurosystem teams will ensure coordination and provide operational and technical support

Certification Test

- Only done **after go-live** of TIPS
- Purpose is similar to pilot testing
 - New joiners ensure, that they are operationally ready to join TIPS (actual certification)
 - New joiners have the opportunity, to execute their own test cases
- Could be organised in waves
 - Either with pre-defined timeframes (multiple times per year); or
 - Whenever a certain number of new joiners are willing to start testing
- Mandatory test cases are identical to the ones used during pilot certification (updated based on the experience gained during testing)

Test environment

- Operating times
 - TARGET2 CUST business days and operating hours
 - can be available 24/7 for specific testing activities
- Provides simulators for
 - TARGET2 CUST (liquidity injector); and
 - a TIPS Beneficiary Participant

Thank you for the attention!

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