

EUROSYSTEM

# TIPS Restart with a zero balance



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ECB DG-MIP/MIM

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### Purpose of the presentation

□ Present and explain the rare scenario

□ Present the approach currently envisaged

Receive your feedback on the envisaged approach, difficulties, challenges it would entail on your side

### Why a restart with zero balance?

Extreme scenario that could result in severe data corruption in TIPS (e.g. due to a successful cyber-attack)

Data corruption cannot be repaired

□ Solution is to restart TIPS with a clean state

 Information that is held in memory is erased (e.g. balances, payment counters, CMBs with their limits/headrooms).

# Sequence of actions for containment

Detection	Information sharing	Decision Making	Disconnection of:	"Clean-up of TIPS"
•TIPS Service Desk	<ul> <li>•TIPS Service Desk → ECB</li> <li>•Internal Eurosystem Crisis Managers escalation process</li> </ul>	tem •Crisis Managers in TIPS agree to start the procedure •TIPS from TARGET2 (to stop LTs)	•TIPS Service Desk	
•NCBs •TIPS Participant				
			<ul> <li>U2A access (to avoid provision of corrupted data to users)</li> </ul>	

Communication to users

### Restart

### Steps to be followed prior to the Restart

1. Alignment of the Transit Accounts (TAs)

ECB moves funds from the TIPS TA in TARGET2 to another ECB account

 $\rightarrow$  both TAs are now at zero

- 2. TIPS Service Desk "resets" TIPS
- 3. TIPS Service Desk triggers data propagation from CRDM to TIPS (including accounts, users, CMBs, AAUs etc)
- 4. TIPS Service desk reconnects U2A
- 5. Users (or their CBs) perform a query of the CMBs to re-establish them

### **Steps to be followed after the Restart**

#### Internal ESCB process

- 1. Confirm CMBs have been re-established
- 2. Agree to resume connection with TARGET2 for liquidity transfers
- 3. Outside of TARGET2 opening hours (e.g. weekends/closing days) could agree on an exceptional opening of TARGET2 to refuel TIPS.

✓ TIPS DCA holders can transfer liquidity to their DCAs from TARGET2

✓ NCBs will monitor the refuelling happens smoothly

Restore the connection with NSPs to allow settlement of instant payments.

# Reconciliation

#### 1. Reconciliation of balances:

- TIPS Service Desk provides CBs with a GL file containing the balances of the TIPS DCAs (and ASTAs) at the latest snapshot before the event
- Can be used by CBs and their participants as a plausibility check for the reconciliation
- CBs will collect the information on balances from their DCA holders and ACHs
- Reporting to the ECB
- 2. ECB:
  - debits the ECB account used to hold the TIPS funds, and
  - credits the respective central banks based on the reporting by their participants
- 3. Central Banks:
  - credit their TIPS DCA/ASTA holders with the sum identified during reconciliation activities
- 4. Not a precondition for restarting TIPS (not time-critical for a restart)

### Limitations

#### Can only be completed during TARGET2 business days

During closing days/maintenance window:

- The transit accounts cannot be aligned
- No liquidity can be sent to TIPS
- Instant payment settlement cannot be resumed until liquidity is provided

→ Crisis managers could agree to open TARGET2 exceptionally to send liquidity to TIPS as a mitigation measure.

#### Reconciliation might prove difficult

- A. Identifying the balance
  - Participants may not be able to exactly determine the balance on their side use of reachable parties.
- B. Difference between the balances reported by participants and the balance seen on ECB side.
- Time-consuming procedure

# **Limitations: AS Technical Accounts**

- In principle, ACHs would continue settling internally during the TIPS failure as the CB guarantee on the balance of the ASTA will remain
  - The balance of the ASTA in TIPS would remain the same, although the ownership of those funds could still change with every instant payment settled internally
- For supporting intra-ACH processing, priority should be given in reestablishing the balance on the ASTAs → ACHs would need to be able to identify and provide the central bank with the needed information quickly as reflected in their books.

### Next steps

- Receive your feedback on potential difficulties you identify
- If feasibility is confirmed → jointly define further detailed procedures