



EUROPEAN CENTRAL BANK

EUROSYSTEM

Operational matters

target | T2
services



T2-Coordination Group
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System performance

T2 incident on 21 October impacting A2A inbound traffic

❖ Issue and impact:

- Starting from 04:11, the A2A inbound traffic was blocked, impacting the processing of payments and liquidity transfers between CLM/RTGS/T2S/TIPS

❖ Resolution:

- The restart of the ESMIG components at around 7:30 recovered the connection with the database ensuring the restart of the incoming messages processing

❖ Duration: 04:11 – 08:10

❖ Root cause:

- Part of the DWH processing saturated the database logs

❖ Measure to prevent reoccurrence of incident

- Optimization of the process that saturated the database – already implemented
- Implementation of an alarm linked to the of the Algo malfunctioning - ongoing

System performance

T2 incident on 29 October impacting A2A outbound traffic and U2A instructions

❖ Issue and impact:

- A2A Messages were stuck in the outbound queues in CLM and RTGS. Participants were not receiving the settlement confirmations
- U2A instructions in CLM and RTGS GUIs were not possible. A decision was taken to delay the cut-off for interbank payments which was, by mistake, not implemented

❖ Resolution:

- A2A: Increase of the available space, fully resuming the A2A service at 16:54. Outbound messages were all reinjected by 17:10
- U2A: Adding a new storage space and restarting the impacted component (18:19)

❖ Duration:

- A2A issue: 16:15 – 16:55
- U2A issue: 16:05 – 19:00

❖ Root cause:

- The exhaustion of the space allocated to a storage group serving the database

❖ Measure to prevent reoccurrence of incident

- A review of the technical monitoring alert filters is being performed to ensure the effectiveness of the monitoring of space allocations
- Reviewing the internal procedures in order to avoid miscommunication when applying new times for cut-offs

System performance

T2 incident on 31 October/ 1 November impacting U2A access to CLM/RTGS, Algos, CRDM

❖ Issue and impact:

- 31 October: Connectivity problems to CLM and RTGS GUIs (A2A not impacted)
- 1 November: Two logical partitions out of three were not operational, resulting in sporadic availability of CLM and RTGS GUIs
- Restart of the first partition disrupted the RTGS algorithms (unavailable between 06:52 – 07:38)
- Isolation of the second partition disabled CRDM U2A and A2A submissions (10:00 – 11:30)

❖ Resolution:

- 31 October: A manual correction of the misconfiguration and restart of the relevant components restored the U2A access at 17:03 on 31.10
- 1 November:
 - The two partitions were restarted at 6:50 and 11:00, fixing the U2A access
 - A restart of the message queueing component resolved the CRDM issue

❖ Duration:

- 31 October: 15:50 – 17:03
- 1 November: 04:35 – 12:00

❖ Root cause:

- Incorrect execution of a technical change which was originally authorized for 1 November. The change was applied in a wrong way and resulted in a network misconfiguration

❖ Measure to prevent reoccurrence of incident

- The procedure to authorize changes during standard business hours is being reviewed

T2 Nov 2024 release



Deployment weekend

- The deployment activities **successfully finished** on Saturday at 14:20 (instead of 12:30)
- The CLM RTS and RTGS RTS I started on Saturday at 14:54
- Due to technical issues, T2 entered the maintenance window on Sunday at 13:14 (instead of 11:00)

First days of operations

Very smooth operations over the first two weeks, with the exception of (minor) hiccups:

- DWH - Data for business days 15, 18 and 19 November was only gradually available on 19 and 20 Nov
- 19 Nov: Missing records in the full RTGS directory → 20 Nov: decision to roll-back the deployed PBI causing the issue

Questions



Thank you for your attention!

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