

DM

Data Management

CERN IT
Department

Streams Intervention Responsibilities

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- Target database preparation - Tier1
 - Streams initialization parameters
 - Listener configuration
 - Streams administrator user creation
 - Streams optimizations
 - OEM setup
- Export/Import - Tier0
- Streams replication configuration - Tier0
 - Capture, Propagation and Apply
 - Instantiation

- Announcement - **Tier1**
 - Schedule new intervention using 3D wiki
 - Submit EGEE broadcasts
 - Register outages in the CIC portal
- Coordination with Tier0 - **Tier1**
 - Split/Merge procedure might be needed - **Tier0**
- Enable Streams processes - **Tier1**
 - Short downtime: enable propagation job to affected site
 - Long downtime: enable capture and propagation to affected site

- Propagation disabled after 16 errors - **Tier1**
 - Check the error and fix the problem
 - Enable the propagation job
- Apply aborted - **Tier1**
 - Execute 'print_errors.sql': detailed info on transactions in the error queue (strmadmin user)
 - Contact Tier0 in case of human errors, streams misconfiguration,
 - Fix errors related to database administration (unable to extend tablespace, deadlocks, ...)
 - Re-execute transaction and start apply process

- Target database downtime longer than the Streams recovery window (5 days)
- New consistent export/import - **Tier0** ????
 - Using DataPump or transportable tablespaces
 - New SCN must be recorded
- Streams re-configuration - **Tier0**
 - Parallel Streams setup must be created
 - Merge when database are synchronized

- Capture or downstream capture side:
 - 6081550 Tracking Bug for Inventory of Data Guard Logminer/Logical Standby for 10.2.0.3 Includes fixes for Streams capture also
 - 6267873 MLR for Streams/Logmnr bugs 6017440, 6067600,6064864: Install 6081550 first, then remove patch for 6067600 and apply Patch 6267873
 - 6043052 Leak in Perm Allocations with library cache comments ora-4031 generated
 - 4061534 ORA-00600 [KRVTADC] IN CAPTURE PARALLEL PROCESS (using compressed tables)
 - 5604698 DEADLOCK BETWEEN 'LIBRARY CACHE LOCK' AND 'LIBRARY CACHE PIN'
 - 5058318 Memory leak (in "koh-kghu" heap of type "kolccst obj")
 - 5529797 PGA leak / OERI KWQPCBK179 during Streams propagation
 - 5220845 OBJECTS IMPORTED VIA DATA PUMP ARE NOT SHIPPING TO LOGICAL STANDBY

- Apply side:
 - 6163622 SQL Apply degrades with larger transactions
 - 5093060 Streams: 5000 LCR Limit is causing unnecessary flow control at apply site
 - 5205636 Apply fails with ORA-26687 while dropping a table with referential constraints
- **Still to be fixed:**
 - ORA-600 [KWQBMCRPTS101] after dropping Propagation job
 - CREATE VIEW ddl is replicated when run from a schema with select privilege on the replicated schema table
 - ORA-26687 when “drop table” and 2 Streams setups between the same source and destination databases

- 5604698 DEADLOCK BETWEEN 'LIBRARY CACHE LOCK' AND 'LIBRARY CACHE PIN'
 - Observed on the **downstream captures 10.2.0.3 64b**
 - Patch now available in metalink
 - Proposal to be applied next Tuesday 29
- PIC downtime during 3 days
 - Split LFC and LHCb streams setups