Oracle technical update for CERN physics services

CERN openlab II quarterly review 9 October 2007

Eva Dafonte Pérez







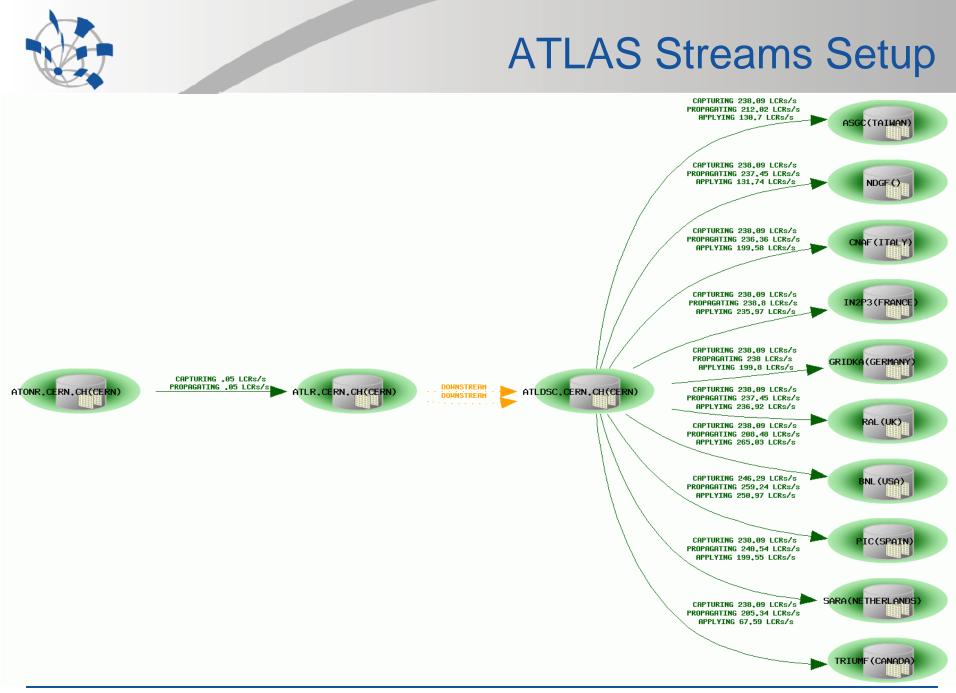
- Experiment setups using Downstream capture
- Recovery workshop
- Streams optimizations
- Streams Monitoring tool: new features
- Oracle RAC Deployment & Applications
- RAC Monitoring & Oracle Enterprise Manager

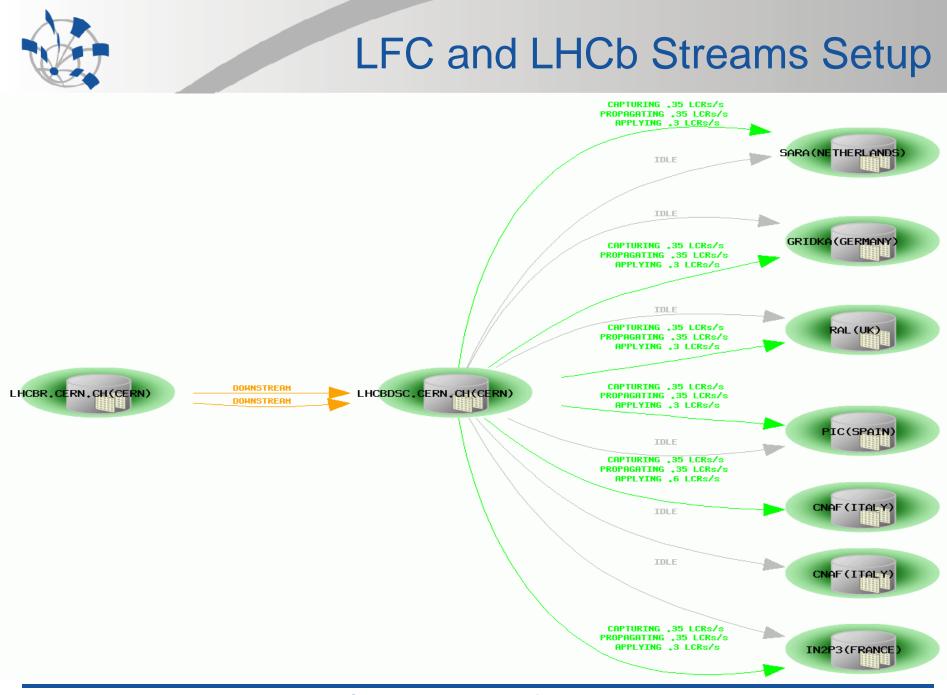


Experiment setups using Downstream capture

ATLAS

- Online --- » Tier1 sites
- Real-Time downstream capture
- http://itrac315.cern.ch:4889/streams/experiments?exp=ATLAS
- Planned: Connect ATLAS muon sites
- LFC and LHCb
 - Offline -- » Tier1 sites
 - LFC: Real-Time downstream capture
 - LHCb: Archive log downstream capture
 - http://itrac315.cern.ch:4889/streams/experiments?exp=LHCb
 - Planned: Online --» Offline
- Hardware and license review
- 3D service review to improve availability





Recovery workshop @CNAF

- Objective: practice recovery scenario and resynchronization using Streams
- Used Atlas Streams setup: 10 destinations
- 4 destination sites performed recovery:
 - BNL, IN2P3, GridKA and NDGF
- 6 destination sites were up during the exercise
- Recovery exercise successful
- Streams re-synchronization successful



Streams optimizations

- Tuning capture parameters
 - retention time and checkpoint frequency
- Using Rules (ATLAS)
 - Rules on the capture side caused more overhead than on the propagation side
 - Complex rules converted to simple rules





Monitoring tool: new features

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- Reports
 - Streams activity per experiment
 - Databases availability
 - Database instances statistics
 - Redo generation, CPU usage, Streams pool usage
 - Streams processes statistics
 - http://itrac315.cern.ch:4889/streams/report
- History
 - Review "past" Streams status
 - http://itrac315.cern.ch:4889/streams/history

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Oracle RAC Deployment & Applications

- Investigating Recyclebin usage in a production environment
 - streams issues encountered some resolved by custom DDL handlers
 - automatic purging jobs installed on production machines

Load balancing tests in RAC environment

 tested many load balancing scenarios – there's no way to force even distribution of "fast" connections across nodes in a RAC on per service basis

PVSS & Streams

- custom DDL handlers needed for some PVSS functionalities
- more performance tests, achieving satisfactory results
- new PVSS versions being tested



RAC Monitoring & Oracle Enterprise Manager

Oracle Enterprise Manager

- target cleanup campaign: obsolete targets removed, all PSS targets were grouped into systems and then into appropriate groups (defined together with Chris L.)
- OEM dashboard functionality for systems evaluated
- agent pull installation fixed and tested with new OEM setup and also with 64-bit machines
- new version of OEM Command Line interface evaluated
 - prepared internal procedures for target grouping
- cleanup campaign of policy violations for all PSS targets (in progress due to some OEM bugs)
- Further development of RAC monitoring software used for PVSS service monitoring

Quarterly Summary



Oracle Streams and Data Replication Services

- Single Point of Contact: E. Dafonte Pérez (CERN) G. Kerr (Oracle)
- Participants: Patricia McElroy (Oracle)

Streams and RAC monitoring

- Participants: Z. Baranowski, D. Wojcik
- Oracle Enterprise Manager
 - Single Point of Contact: C. Lambert (CERN) A. Bulloch (Oracle)
 - Participants: D. Wojcik
- Highly available database services based on RAC/ASM
 - Procedures review, RAC monitoring, Data Guard tests
 - Single Point of Contact: D. Wojcik (CERN) G. Kerr (Oracle)