



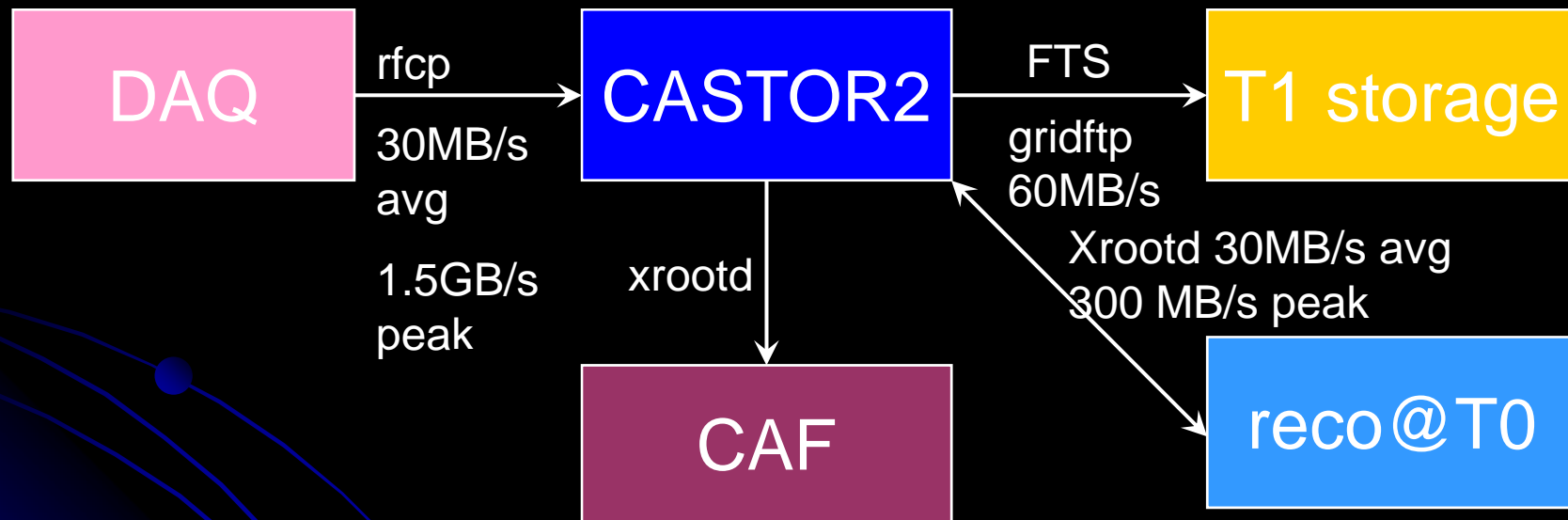
ALICE update and issues for February phase of CCRC'08

Latchezar Betev (ALICE)
CCRC F2F, February 5, 2008

ALICE in February CCRC

- February phase of CCRC'08 partially overlaps with ALICE detector commissioning exercise
- First commissioning exercise ran 10-21 December 2007
 - Data writing to CASTOR2 and export to T1s (no target rate) – OK
 - Conditions data gathering and access – OK
 - Reconstruction of RAW at T0 – done in January

Data taking, replication to T1s, reconstruction and CAF at T0



Storage requirements

Tier1 site	Disk space (TB)	Tape space (TB)
CCIN2P3 (15%)	2	9
CNAF (15%)	2	9
GridKA (45%)	5.5	27
NDGF (15%)	2	9
RAL (5%)	0.6	3
T1-NL (5%)	0.6	3
Total	13	60

- This corresponds to 50% of the total transfer data volume and is also 50% of the standard p+p data taking rate
- Rates compatible with CCRC'08 accelerator scenario

Storage requirements (2)

- Three virtual Ses per T1 site with different storage directories
 - **T1D0 for RAW**
 - CCIN2P3 setup -> /pnfs/in2p3.fr/data/alice/T1D0
 - **T0D1 for ESDs**
 - CCIN2P3 setup -> /pnfs/in2p3.fr/data/alice/disk
 - **T1D0R for complementary datam (keeping 60MB/sec constant rate out of T0)**
 - CCIN2P3 setup -> /pnfs/in2p3.fr/data/alice/multivotest
- The T1D0R is recyclable at the site's discretion

Activities table

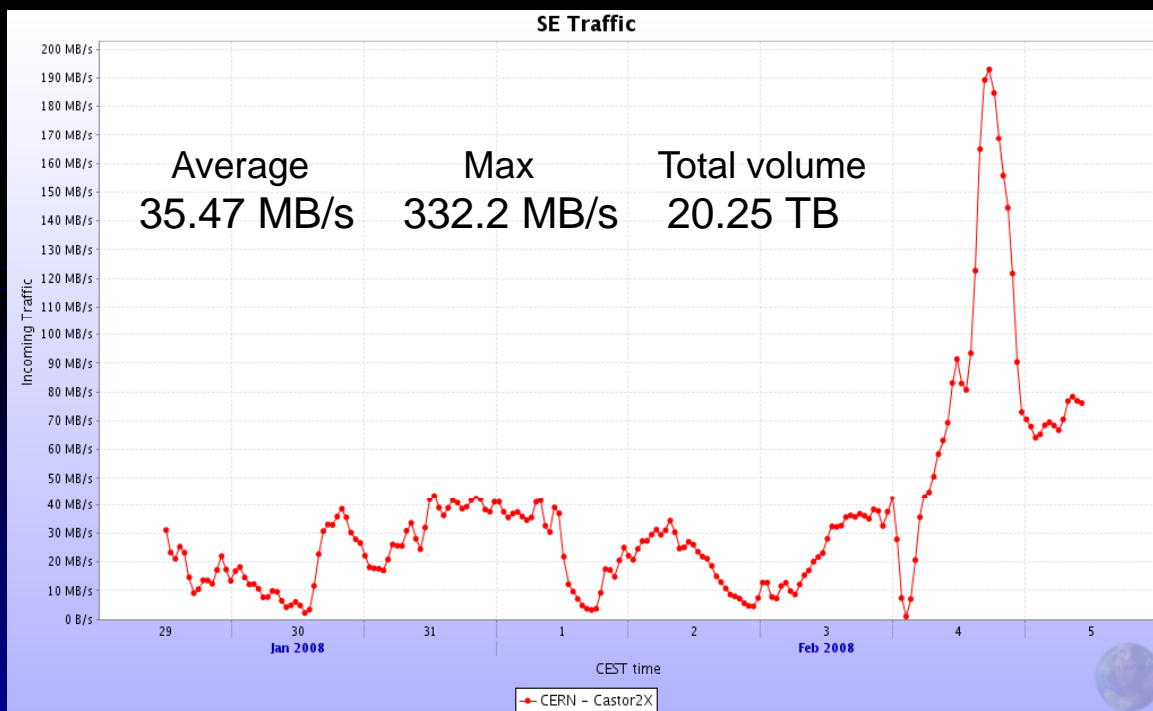
Activity	Week1	Week2	Week3	Week4	Week5
Data Taking		✓	✓	✓	✓
Data replication to T1s	✓	✓	✓	✓	✓
Raw data processing to ESDs, Pass 1 at T0, Pass 2 at T1s		✓	✓	✓	✓
MC production	✓	✓	✓	✓	✓

Week 1 – detector integration with control systems

Week 5 (new: 03/03 to 09/03) – global cosmics trigger run with all detectors (high statistics, calibration/alignment)

CASTOR2+xrootd

- CASTOR2+xrootd fully in production at CERN since last week
 - So far no issues observed from ALICE side
 - The release was extensively tested before deployment



Many thanks to

CASTOR2 development
and deployment teams

xrootd development team

Rosa Garcia IT/DM

Andreas Peters IT/DM

Fabrizio Furano IT/GS

Site readiness

- Storage (dCache - FTS/xrootd) set up at CCIN2P3, GridKA, NDGF
 - The necessary storage capacity is installed
- T-NL (dCache) – copy of existing configuration, published today
- CNAF, RAL (CASTOR2) – more complex issue, need CERN operational experience
 - Discussions ongoing
- Some 15% of the T2 sites have deployed DPM or dCache as disk storage

Summary

- Focus on data management
- Storage is deployed gradually
 - Very good progress with CASTOR2+xrootd, dCache+xrootd
 - Several T2 sites have deployed DPM+xrootd storage
 - important for the analysis phase
- The December tests were successful
 - Essentially all building blocks for CCRC'08 were tested
 - February exercise will add more resources and test the stability
- Site resources should be sufficient to carry out all planned activities