



WLCG Service Report

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WLCG Management Board, 1st December 2009

Introduction

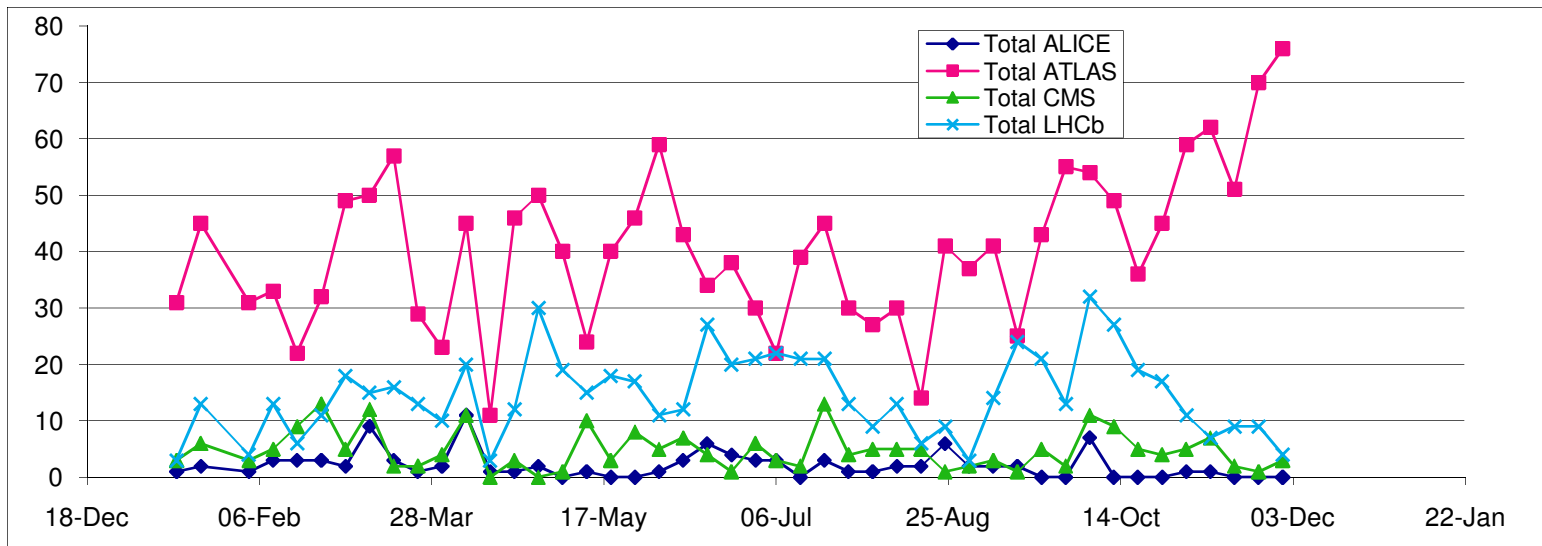
- Covers the week 23rd to 29th November.
- First week with LHC beam, collisions and ramp up to 1.18 TeV
- Despite excitement relatively smooth operation
- Incidents leading to (eventual) service incident reports
 - CMS data loss at IN2P3
 - SIR received for CMS Dashboard upgrade problems

Meeting Attendance Summary

Site	M	T	W	T	F
CERN	Y	Y	Y	Y	Y
ASGC	Y	Y	Y	Y	Y
BNL	Y	Y	Y		
CNAF	Y		Y	Y	
FNAL					
FZK	Y	Y	Y	Y	Y
IN2P3	Y	Y	Y		Y
NDGF			Y	Y	Y
NL-T1	Y	Y	Y	Y	Y
PIC		Y			
RAL	Y	Y	Y	Y	Y
TRIUMF					

GGUS summary

VO	User	Team	Alarm	Total
ALICE	0	0	0	0
ATLAS	9	66	1	76
CMS	1	2	0	3
LHCb	0	3	1	4
Totals	10	17	2	83

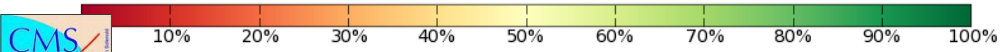
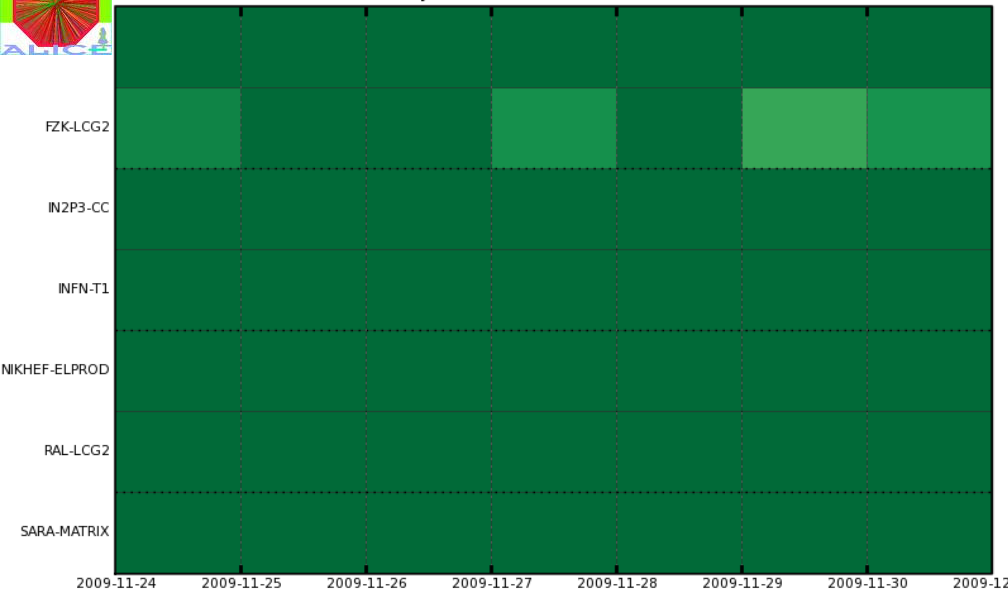


Alarm tickets

- One alarm tickets submitted by LHCb
 - Streams replication stopped to LHCb several T1 sites
 - Work had already started when ticket was received
 - streamlining of GGUS integration with CERN DB services initiated
- ... plus one successful ALARM test by ATLAS after GGUS issues the week before

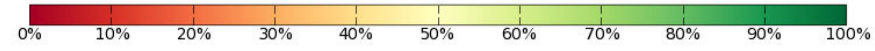
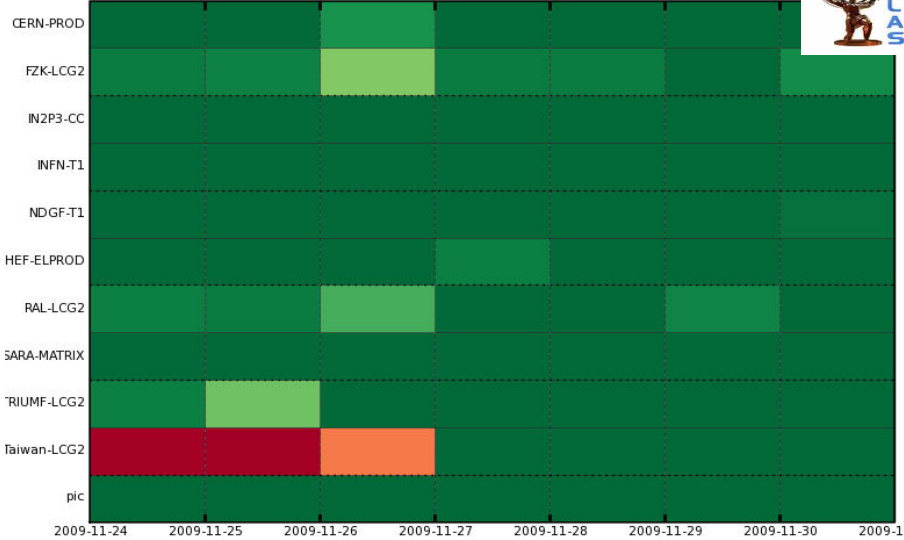
Availability using WLCG Availability (FCR critical)

7 Days from 2009-11-24 to 2009-12-01



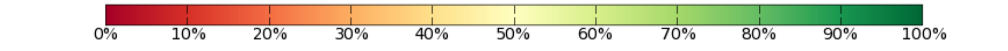
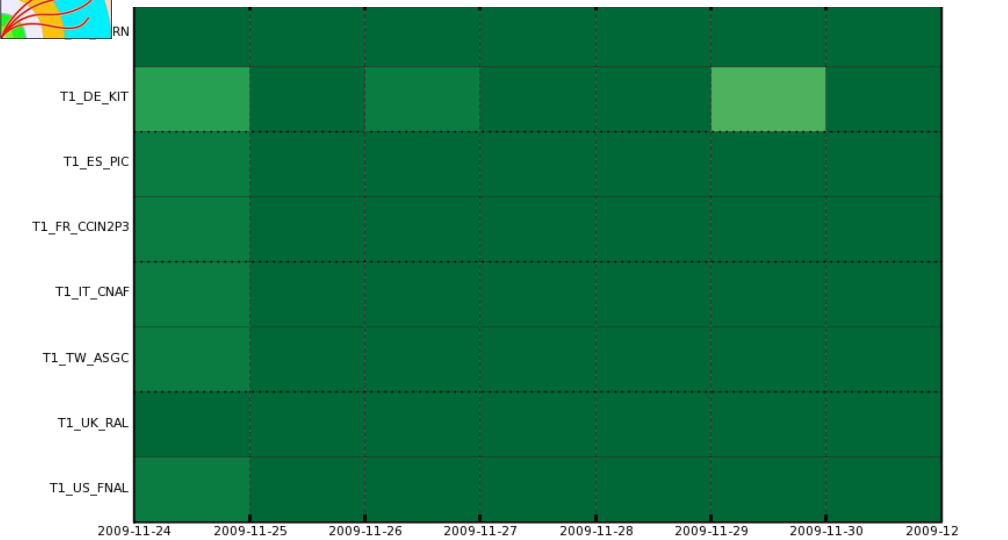
Site Availability using WLCG_SRM2

7 Days from 2009-11-24 to 2009-12-01



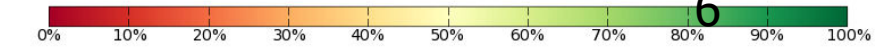
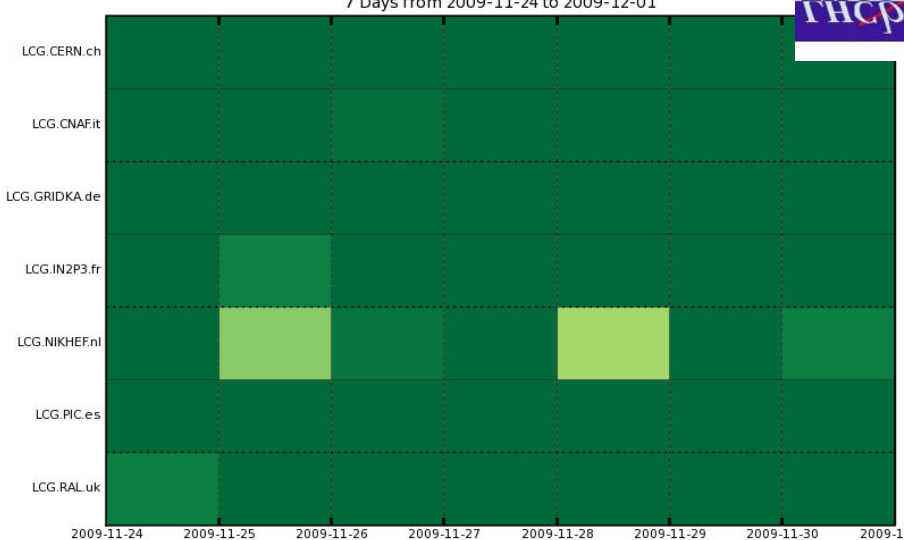
Availability using LHCb Critical Availability

7 Days from 2009-11-24 to 2009-12-01



Site Availability using LHCb Critical Availability

7 Days from 2009-11-24 to 2009-12-01



SRM problems at CERN

- Steps followed suggested in the recent SIR
- SRM request mixing observed and protective measures put in place
- Number of SRM threads increased
- Timeout problems for SRM ping operation fixed
- SRM upgrade performed and stable operation since then
- Infrequent call-back problems still being investigated by CASTOR/SRM team

FTS problems at CERN for ATLAS

- Outgoing transfers from CERN were severely affected
- ATLAS had to revert back to FTS 2.1 after problems with 2.2 resulting in core dumps
- Development is analysing the case
- Also other sites running 2.2 so far not affected, but need to be cautious until the problem is fully understood

CMS Data Loss at IN2P3

- 11 Nov: cleanup of unwanted CMS files resulted in larger deletion than expected
- Cause: communication problems between the CMS and IN2P3 teams
- 660 TB (480TB custodial) were erroneously deleted
- 100 TB could not be retransmitted from CERN or other T1s
- All event samples could be re-derived later if need should arise for CMS
- Procedures have been reviewed to avoid similar problems
 - Full detail at:
 - <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGServiceIncidents>

Miscellaneous Reports

- ALICE stress tested new alien release - no issues reported
- NSCD daemon problems caused ROOT failures for LHCb at NIKHEF - fixed
- Regression of dcap VOMS awareness after dCache upgrade for users with multi-VO certs
- Several investigations due to low transfer performance for ATLAS (increased FTS slots, also issues in gridftp transfer phase, clock skew)
- Timeout issues with large CMS files - retuning done
- SRM@RAL performance impacted by low DB memory - fixed by moving DB processes to larger node
- Additional DB server node added to ATLAS offline DB
- Repeated unavailability of cream ce for ALICE due to failure + upgrade of fall-back node

Proposal from GGUS Development

- Periodic ALARM ticket testing rules
 - Proposal is to run GGUS tests periodically from the development team
 - Proposed procedure at

https://twiki.cern.ch/twiki/bin/view/EGEE/SA1_USAG#Periodic_ALARM_ticket_testing_ru

- ATLAS and CMS agree with the proposal
- Feedback from T1 site welcome
 - Would eg one test ticket per month be acceptable?

Summary/Conclusions

- First week with beams and collisions
 - All experiments reported success and rapid turn around of there local and grid wide data management and processing systems
 - A big success for experiment and grid computing infrastructures!
- Few new problems mainly in the file transfer area
 - Quickly being picked up by concerned sites
- Good attendance at daily meetings
 - Good fraction of “nothing to report” statements from T1 sites
- Definitely still many areas to improve but a smooth and controlled first week with LHC data