



CCRC'08 Weekly Update

Jamie Shiers

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LCG MB, 26th February 2008

Overview

- Data exports from CERN now running at 1-2 GB/s
 - **Peak** is ~1GB/s greater than **average** achieved during SC4 as dteam (1.3GB/s)
 - CMS alone has managed >1GB/s, ATLAS running at similar rates
- Number of problems reported in elog generally rather low
 - Up to 'a few' per VO / day – **can we maintain this level with increased load?**
 - Quite a few are either known issues / configuration problems
- Daily / weekly (OPS) meetings continue to work well
 - We will continue these during March and beyond...
 - **Site participation in daily calls could be improved – D. Ross wins prize!**
- Discussions on SRM v2.2 bugs / problems and longer term issues progressing
 - Review at upcoming F2Fs...
- Some improvements in announcing interventions, problems and their resolution could still be made
 - ✚ **Come on guys – this makes it easier & less stressful for everyone!**
- A few concrete actions...
 - 🌟 **e.g. on-call rota for FIO services / procedure for expert call-out by operators was not publicized prior to CCRC'08** **[next]**

WLCG Services – In a Nutshell...

Services	
ALL	WLCG / “ Grid ” standards
KEY PRODUCTION SERVICES	+ Expert call-out by operator
CASTOR/Physics DBs/Grid Data Management	+ 24 x 7 on-call

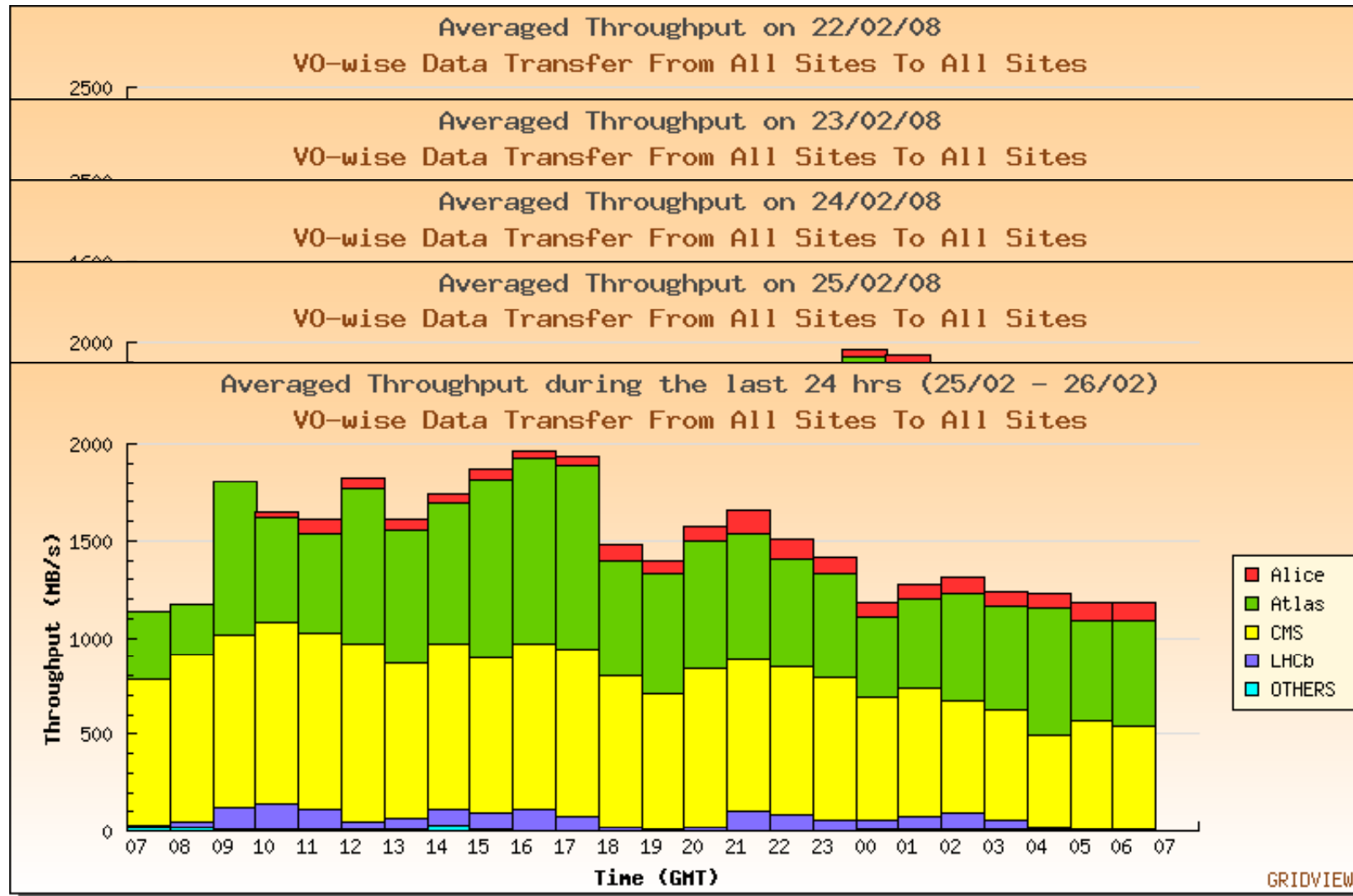
- 👉 **Summary slide on WLCG Service Reliability shown to OB/MB/GDB during December 2007**
- On-call service established beginning February 2008 for CASTOR/FTS/LFC (not yet backend DBs)
- Grid/operator alarm mailing lists exist – need to be reviewed & procedures documented / broadcast

Critical Service Follow-up

- Targets (not commitments) proposed for Tier0 services
 - Similar targets requested for Tier1s/Tier2s
 - Experience from first week of CCRC'08 suggests targets for **problem resolution** should not be too high (if ~achievable)
 - The MoU lists targets for responding to problems (12 hours for T1s)
 - ¿ Tier1s: 95% of problems resolved <1 working day ?
 - ¿ Tier2s: 90% of problems resolved < 1 working day ?
- **Post-mortem triggered when targets not met!**

Time Interval	Issue (Tier0 Services)	Target
End 2008	Consistent use of all WLCG Service Standards	100%
30'	Operator response to alarm / call to x5011 / mailing list	99%
1 hour	Operator response to alarm / call to x5011 / mailing list	100%
4 hours	Expert intervention in response to above	95%
8 hours	Problem resolved	90%
24 hours	Problem resolved	99%

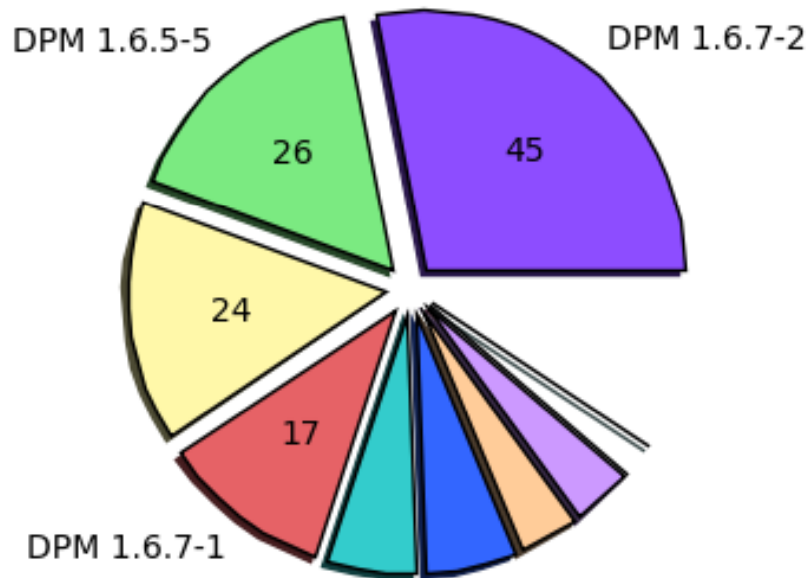
Data Exports



SRM v2.2

Current status of deployed SRMv2.2 endpoints (Sum: 160 Count)

24 Hours from 2008-02-25 14:11 to 2008-02-26 14:11 UTC



- DPM 1.6.7-2 (45)
- (24)
- CASTOR 2.1.4-v1_3_14 (9)
- dCache production-1-8-0-12p5 (6)
- DPM 1.6.10-1 (3)
- dCache production-1-8-0-12 (2)
- DPM 1.6.5-3 (2)
- dCache production-1-8-0-12p5rc-20080207023616 (1)
- CASTOR 2.1.4-v1_3_11 (1)

- DPM 1.6.5-5 (26)
- DPM 1.6.7-1 (17)
- dCache production-1-8-0-12p4 (9)
- dCache production-1-8-0-12p2 (6)
- StoRM (3)
- dCache production-1-8-0-12p6 (2)
- CASTOR 2-v1_3_11 (2)
- CASTOR 2-v1_0_13 (1)
- dCache production-1-8-0-12p6rc-20080221092842 (1)

Upcoming F2Fs

- Tuesday, 4th March in IT amphitheatre / EVO
 - m/w review / roadmap
 - Storage-ware ditto
 - Site review (view from external site)
 - Experiment reviews
 - Service review
 - CCRC'08 Calendar
- Tuesday 1st April(?)
- 21st – 25th April in CERN main auditorium
- 12th – 13th June IT amphi / Council Chamber TBD

Interventions, Resolution, Post-Mortems...

- Only a small number of problems triggered “MoU Post-Mortems”

- e.g. RAL down; ATLAS exports Feb 15+

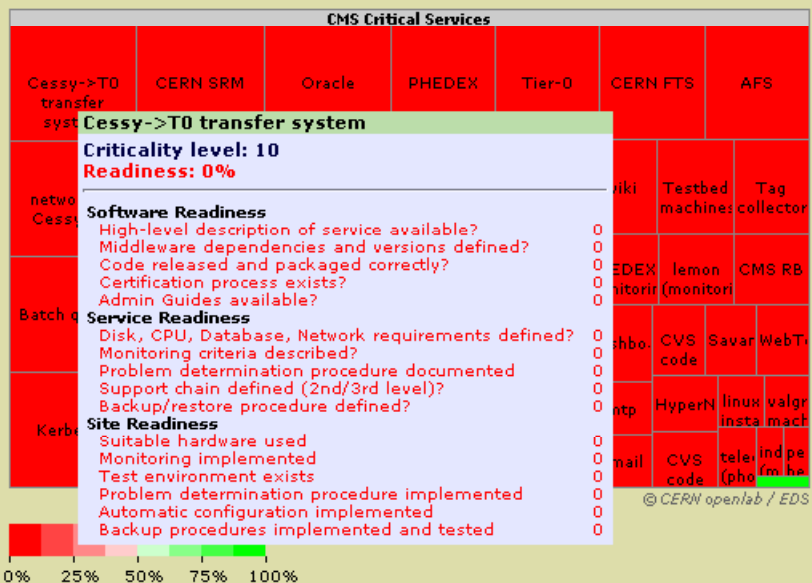
➤ Both cases highlight the need for some ‘homework’

1. Revisit emergency site contact phone numbers & procedures
2. Clarify & publicize (& exercise) on-call services & expert call-out

¿ Interventions / configurations at sites – is it really clear what is needed?

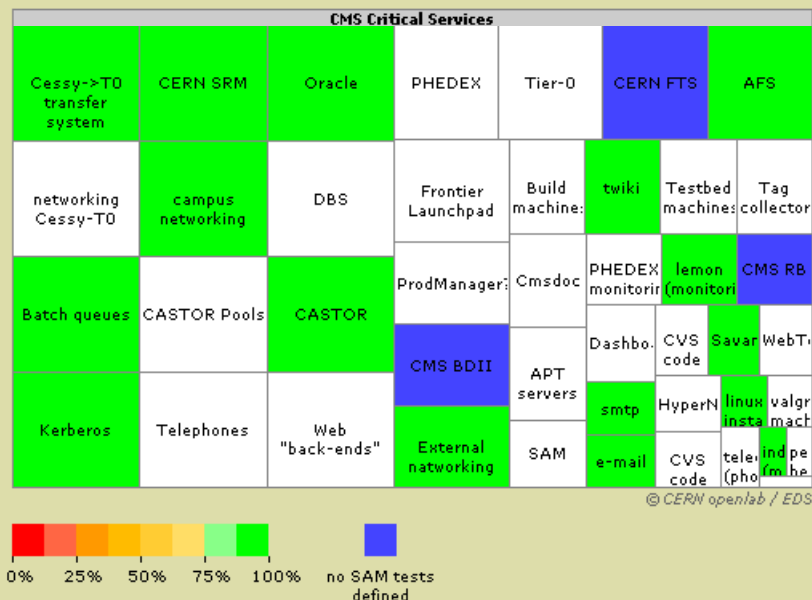
WLCG CCRC'08 Critical Services "GridMap"

Ticklist Status (updated manually)



Alice Atlas CMS LHCb

Test Status (live data)



CERN-PROD TRIUMF-LCG2 IN2P3-CC FZK-LCG2 INFN-T1 SARA-MATRIX NDGF-T1 pic Taiwan-LCG2 F

BNL-LCG2 USCMS-FNAL-WC1

Summary

- Whilst not all of the initial goals of the February run will have been fully met, the exercise has been largely successful and helped bed-down / debug many aspects of running the production WLCG service
 - **We need to generate some 'head-room' so that we are not flat out just running the services – perhaps 20% ?**
 - **All experiments plan to continue at least into March – and preferably beyond!**
 - May is just around the corner – very little time for fixes – too short for any 'developments'
 - Need to foresee regular 'Data Taking Readiness Challenges' in the coming years – similar schedule!
- ☺ **No real clangers! (so far...)**

