

GridMap Project Update

CERN openlab II Quarterly Review 29 Jan 2008

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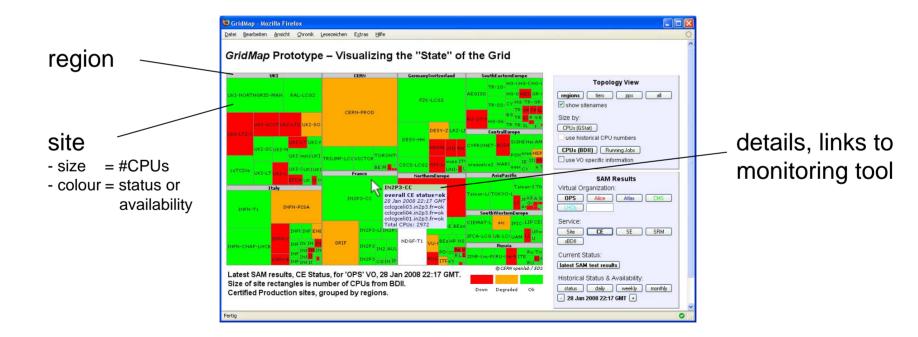


GridMap – Status

Top-level visualization of distributed systems*

Prototype deployed since EGEE'07

1st version Oct 2007, 2nd version Nov 2007, Link: <u>http://gridmap.cern.ch</u>



GridMaps visually correlate "importance" to status

* Patent Pending

openlab

enlab

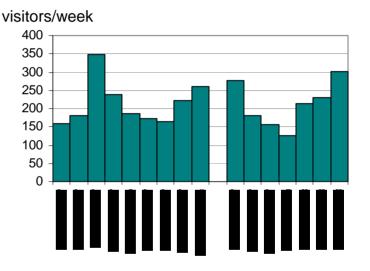
GridMap – Usage

so far...

- accessed by ~1500 different hosts (Oct 2007 Jan 2008)
- integrated into
 - <u>CIC Operations Portal</u>
- used daily by CERN IT
 - and many other Grid people



- International Science Grid This Week: Link of the Week, 17 Oct 2007
- <u>GridPP News</u>, 24 Oct 2007
- <u>CERN Computer Newsletter</u>, Nov-Dec 2007



penlab

GridMap – Next Version

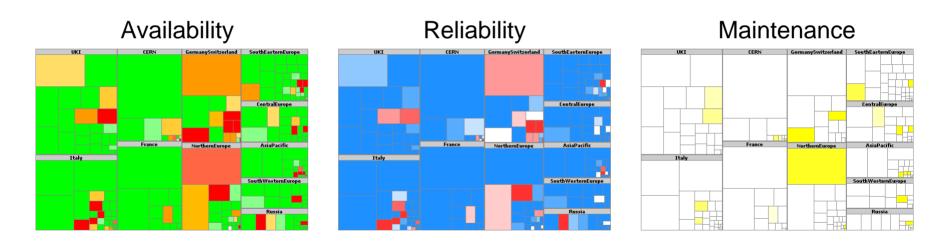
New Features

EDS

"Central Services"

Central Services:										
FTS	LFC	VOBOX	BDII	RB						

Availability, Reliability, Maintentance



Link to development version: http://gridmap.cern.ch/gm/gridmap_dev.html



GridMap Application (CCRC'08)

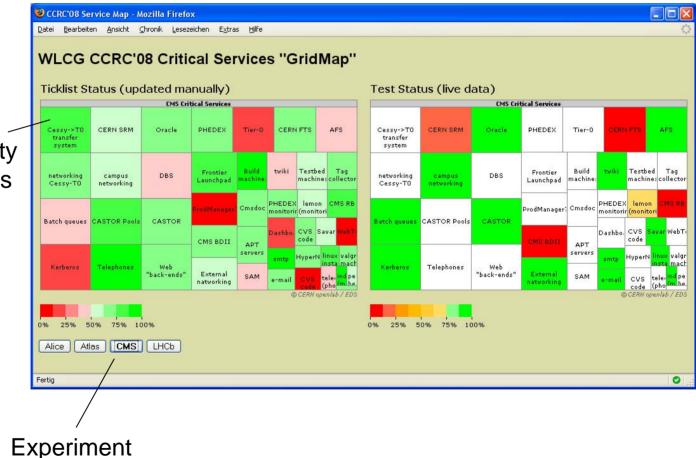
CCRC'08 (Common Computing Readiness Challenge 2008)

- Integration Test" of services for experiments https://twiki.cern.ch/twiki/bin/view/LCG/WLCGCommonComputingReadinessChallenges
- 4 major LHC experiments define their
 - list of services
 - criticality levels

Idea: Visualize service readiness with GridMaps

CCRC'08 Service Map





rect = service _ size = criticality colour = status

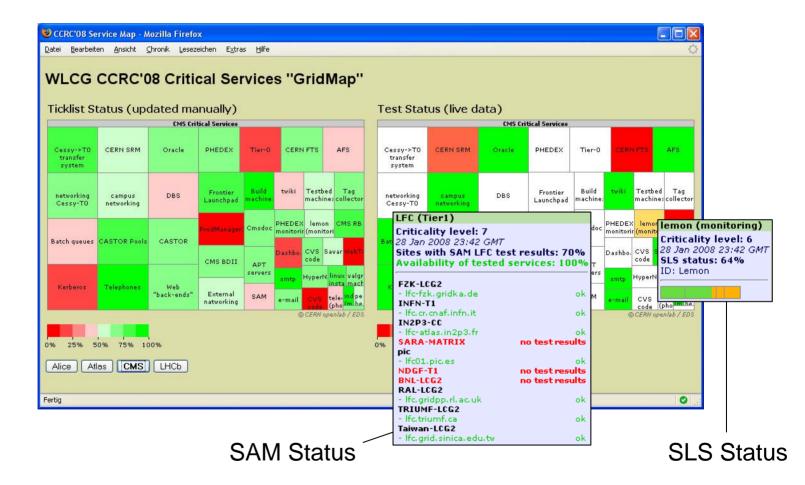
CCRC'08 Service Map



	LMS Undeal Services	t Status (updated manually)			Test Status (live data)					
	trans tr syster Cessy->T0 transfer system	5 AFS	Cessy-≻TO transfer system	CERN SRM	CMS Cm Oracle	PHEDEX	Tier-0	CERN FTS AFS		
	Criticality level: 10 Readiness: 81% User support procedures (GGUS) Troubleshooting guides + FAQs User guides	iag ector 1	networking Cessy-TO	campus networking	DBS	Frontier Launchpad	Build machine:	twiki Testbed Tag machinescollect		
P	Operations Team Training Site admins CIC personnel GGUS personnel Monitoring Service status reporting	1 S RB 1 1 VebTr	Batch queues	CASTOR Pools	CASTOR		Cmsdoc	PHEDEX lemon CMS R monitorir (monitori Dashbo. CVS <mark>Savar</mark> Web code		
	Performance data Accounting Usage data Service Parameters Scope - Global/Local/Regional SLAS Impact of service outage	1 1 valgr mach nd pe m he	Kerberos	Telephones	Web "back-ends"	CMS BDII External natworking	APT servers SAM	smtp HyperN linux va insta ma e-mail CVS televind code (pho fm.		
0.94	Security implications Contact Info Developers Support Contact Escalation procedure to developers Interoperation ???	/ EDS 1 1 1 1	0% 25% 50% 75% 100%							
Feri	lice First level support procedures How to start/stop/restart service How to check its up Which logs are useful to send to CIC/Developers and where they are SFT Tests Client validation	1								

CCRC'08 Service Map





Link: http://gridmap.cern.ch/ccrc08/servicemap.html



Next Steps

Prepare GridMap package (v02) and documentation

- Improve CCRC'08 Service Map
- New use cases / applications ?
 - CERN (e.g. FTS monitoring, BDII data visualization, ...)
 - EDS customers