Monitoring Tools and Procedures





T2 Admin Tutorial 2006, CERN

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Piotr Nyczyk OutputDescriptionOutputDescriptionOutput</p





- monitoring and related tools
 SFT, gstat, SFT Admin Page, CIC Portal, FCR
- Grid Operator on Duty procedures
 GOoD (was: COD)
- tools in development
 SAM_ECR (new version
 - SAM, FCR (new version)





Monitoring and related tools





- Sites Functional Tests
- <u>https://lcg-sft.cern.ch:9443/sft/lastreport.cgi</u>
- site (CE) usability from the users point of view
- constant re-certification, spotting and debugging problems
- testing different aspects of CE:
 - job submission, replica management, LCG version, rgma, CA rpms, etc.
- test suite:

– submission framework + plug-in tests

VO-specific tests





- official SFT submission from CERN
 - -submitted for dteam VO
 - in every 3 hours
 - to Certified, Production, and Monitored sites
 - SFT portal refreshed in every 30 mins
- MySQL backend + detailed data in text files
- site details from GOCDB (via RGMA)
- results visible on SFT portal
 - -2 weeks history also shown



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- <u>https://monitoring.egee.man.poznan.pl/admin2</u>
- on-demand SFT submission
- easy to use
- target site selection
- submission possible to non-certified sites
- used by:
 - ROCs: certification of a site
 - -ROCs, site admins, GOoDs: speed up debugging



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ccounting		AUVERGRID	obsauvergridce01.univ-bpclermont.fr	Done	2006-06-14	
rces	Г		lar and an huleman as he		12:02:35 UTC 2006-05-23	
CTS		BEgrid-KULeuven	<u>kg-ce01. cc. kuleuven. ac. be</u>	n/a	08: 58: 11 UTC 2006-05-31	
denin's Dans		BEgrid-UGent	gridce.atlantis.ugent.be	n/a	11:06:02 UTC	
dmin's Page esults		BEgrid-ULB-VUB	gridce.iihe.ac.be	n/a	2006-06-13 12:05:45 UTC	
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etrified sites)	Г	BelGrid-UCL	ingrid.cism.ucl.ac.be	n/a	2006-05-08	
					11:30:35 UTC 2006-06-12	
Artesh 5 6 2006 11 19 29		BG-INRNE	<u>ce1.inrne.bas.bg</u>	n/a	15:09:00 UTC	
dated: 5-6-2006 11:18:28 PS <u>NC home page</u>		BG01-IPP	ce002.ipp.acad.bg	n/a	2006-06-01 14:05:43 UTC	
		BG02-IM	ce001.imbm.bas.bg	n/a	2006-05-22 08: 57: 38 UTC	
		BG04-ACAD	ce02.grid.acad.bg	n/a	2006-06-06	
					11: 11: 05 UTC 2006-05-18	
		BG05-SUGrid	<u>ce001.grid.uni-sofia.bg</u>	n/a	09: 51: 41 UTC	
		BIFI	<u>ce-egee.bifi.unizar.es</u>	n/a	2006-05-08 11:30:35 UTC	
		BNL-LCG2	lcg01.usatlas.bnl.gov	n/a	2006-05-08 11:30:35 UTC	
		BUDAPEST	grid 109. kfki, hu	n/a	2006-06-13	
					06:38:34 UTC 2006-05-08	
		CERN-CIC	<u>lxn1184.cern.ch</u>	n/a	11:30:35 UTC	
		CERN-PROD	<u>ce102.cern.ch</u>	n/a	2006-05-11 13:37:56 UTC	
		CERN-PROD	<u>ce101.cern.ch</u>	n/a	2006-05-11 13:37:56 UTC	

EGEE/LCG Monitoring Tools, CERN, 16/06/06





- <u>http://goc.grid.sinica.edu.tw/gstat/</u>
- Information System (BDII) monitoring
- response time, consistency,completeness
- aggregated and detailed views
- plots (history)
 - CPU availability, storage space, running jobs, etc.
- refreshed in every 5 mins (non-intrusive)



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🚱 🗞 🧟 🔛 🚔 http://goc.grid.sinica.edu.tw/gstat/INFN-BARI/	• 1
GStat: 11:48:17 06/14/06 GMT	-
home alert table service regional service metrics links ? prod pps test baltic eela euchina eumed seegrid	
INFN-BARI Status: OK	OK GOG graphs
GOCDB Configuration information: status: Certified, type: Production giis url: ldap://gridba2.ba.infn.it:2170/mds-vo-name=infn-bari,o=grid	
To test site GIIS:: ldapsearch -x -H ldap://gridba2.ba.infn.it:2170 -b mds-vo-name=infn-bari,o=grid	[
BDII Node Check: .	alert_history ?
CERN SE Check .	alert_history ?
No BDII Node to check in GOCDB test: ldapsearch -xLLL -l 15 -h bdiihostname -p 2170 -b 'GlueSEUniqueID=lxn1183.cern.ch,mds-vo-name=CERN-CIC,mds-vo-name=local,o=grid' '((GlueSEUniqueID=lxn1183.cern.ch)	(objectclass=GlueSA))' GlueSEUniqueI
GIIS Perf Check: ok	alert_history ?
Query Response Time (ms): 4097.1 - 0K GIIS Entries Found: 248 - 0K GIIS Old Entries Found: 0 - 0K 300	
200	
giisEnt max: 252.00 avg: 208.49 cur: 248.00 giisTime giisOld max: 0.00 avg: 0.00 cur: 0.00 giisTim max: 15.72 k avg: 4.08 k cur: 4.04 k	
GIIS Sanity Check: ok	alert_history ?
Passed	
To test site GIIS:: ldapsearch -x -H ldap://gridba2.ba.infn.it:2170 -b mds-vo-name=infn-bari,o=grid	
Service Check: ok	alert_history ?
hostnamemonitornodetypesmissing serviceshistorygridba2YCE,Nonenone missingalert_historygridba6YSE,Nonenone missingalert_historygridba6YMON,SEnone missingalert history	
↓ Done	





- Freedom of Choice for Resources
- https://goc.grid-support.ac.uk/gridsite/bdii/site-apps/FCR-cgi/fcr.cgi
- critical test and resource selection for VOs by manipulating top-level BDII information
- selection on CEs and SEs
- goal is to be able to
 - select which aspects of site functionality are important for the VO
 - blacklist unreliable sites
 - always use stable, "important" sites
 - less reliable sites based on SFT results





- support for VO-specific test results
- optional usage (BDII configuration parameter)
 FCR output: ldif file
- dynamically queries site BDIIs
- information for users only available in raw format
 - new version with user pages

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	ilable Computing and Storage Elei	ments		
	for the dteam Virtual Organization			
ect list of Critical Tests, or resources (CE and SE) i	n the view of current Critical Test set		#fffff P #cacaca S #f4d9a4 C #bed6e1 J	ite OK No SFT results for (Scheduled Downtime Tritical Test Failed ob List Match Faile ob Submission Faile CE & SE Selection
s Functional Tests for VO m sitename	Computing Element	selection	latest SFT results	last access
AEGIS01-PHY-SCL				2006-6-14 13:0:1
rokerInfo A certs version	ce.phy.bg.ac.yu:2119/jobmanager-pbs-dteam	Yes No SFT	2006-06-14 11:34:55	2006-6-14 13:0:1
RL timestamp test SH test				2006-6-14 13:0:1
b submission eplica Management	lcgce01.nic.ualberta.ca;2119/jobmanager-lcgpbs-dteam	Yes No SFT	2006-06-14 11:35:42	2006-6-14 13:0:1
g-cp from local SE AMD64.PSNC.PL				2006-6-14 13:0:1
cg-del FAL Information System	fangorn.man.poznan.pl:2119/jobmanager-lcgpbs-dteam		2006-06-14 11:35:10	2006-6-14 13:0:1
g-rep to "central" SE AUVERGRID				2006-6-14 13:0:1
-GMA Secure Connector	clrlcgce01.in2p3.fr;2119/jobmanager-lcgpbs-day	Yes No SFT	2006-06-14 11:34:58	2006-3-7 7:40:1
oftware Version (WN)	clrlcgce01.in2p3.fr:2119/jobmanager-lcgpbs-dteam	Yes No SFT	2006-06-14 11:34:58	2006-3-7 7:40:1
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O software directory O Tag management	clrlcgce01.in2p3.fr:2119/jobmanager-lcgpbs-infinite		11:34:58	
Oftware Version (WN) Of Software directory Of Tag management WN host name URL) to override VO	clrlcgce01.in2p3.fr:2119/jobmanager-lcgpbs-infinite	Yes No SFT	11:34:58 2006-06-14 11:34:58	2006-3-7 7:40:1
'O software directory 'O Tag management		Yes No SFT	2006-06-14	

EGEE/LCG Monitoring Tools, CERN, 16/06/06 13





- <u>https://goc.grid-</u> <u>support.ac.uk/gridsite/gocdb2/index.php</u>
- central database to store static site information
- all LCG/EGEE sites have to register
 - contact, security contact, certification status, site type
- scheduled maintainance
- used by
 - monitoring tools
 - SFT + gstat (via RGMA), SAM (future)
 - script that generates top-level BDII config file
 - operations management tools EGEE/LCG Monitoring Tools, CERN, 16/06/06
 - · On Duty Dechboord



X \odot <u>File Edit View Go B</u>ookmarks <u>T</u>ools <u>H</u>elp 🐟 🧟 🐝 🖪 👽 🦿 🖵 https://goc.grid-support.ac.uk/gridsite/gocdb2/index.php?siteSelect=160 GOCDB2 Actions -All GOCDB sites: CERN-PROD Your roles: GOCDB sites in your scope: 📃 💌 CIC - EGEE <u>ROC Management page</u> <u>CIC Management page</u> <u>Check global monitoring status</u> Edit your personal profile DB system and web interface designed and maintained by Matt Thorpe (Grid Operations Centre, RAL) 2004-2005

CERN-PROD

Status:	Certified [Click here to view status history]
Туре:	Production
ROC:	CERN
Site local time (CEST):	14:20 (14/06/06)
Official Name:	European Organization for Nuclear Research, Geneva, Switzerland
Map Name:	CERN-PROD
Institution / Department Homepage:	
Site email:	grid-cem-prod-admins@cern.ch
Site telephone:	
Emergency telephone:	2000
CSIRT email:	Computer Security@cern.ch
CSIRT telephone:	+41 (0)22 76 74975
Operational hours:	0-24 (CEST)
GIIS URL:	ldap://prod-bdii.cern.ch:2170/mds-vo-name=CERN-PROD,o=grid
Organisation:	LCG2
Firewall:	0.0.0.0/2 55
MONITORING: ON	

Nodes:

Nodetype	Machine	Core	Monitored	
BDII	lcg-bdii.cern.ch		(Y)	
BDII	atlas-bdii.cern.ch		(Y)	
	alias: exp-bdii.cern.ch; FCR filters applied on this box			
CE	ce102.cern.ch		(Y)	
Done			go	c.grid-su





- Communication Interface for Central Operations
- https://cic.in2p3.fr
- all information related to the Grid Operators on Duty (GOoD) activities (documents, shift schedule, etc.) + tools (On Duty Dashboard, EGEE broadcast tool)



•••• & •••	https://cic.in2p3.fr/i	index.php?id=cic&js_status	s=2		
COO			ne EGEE Home EGEE Intr		
GCC abling Grids E-sciencE	C		on Interface for Cen		
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- CIC staff -					Information for CIC st
omepage	Weekly Opera	ations Meetings			Latest news
ntacts	The Weekly Ope	rations meeting occurs a	at CERN each monday at 14:00		Daily report NEW
Duty Dashboard			p://agenda.cern.ch/displayLe	vel.php?fid=258	Wed 14th June 06
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Duty Procedures		o check the Action list	t:		Dear Site manager, The Daily reports are now available. They ar
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17





- Global GRID User Support
- http://ggus.org
- *ticketing system* for the GRID
- based on Remedy
- tickets created by
 - individual users
 - automatically (GOoD Operations)
- provides links to documentation, monitoring infos



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Priority:	less urg	gent Status:		waiting for reply
	-	gent Status:		waiting for reply
	Date of prob	Date of problem: 2006-06		Date of problem: 2006-06-12 14:56 UTC Origin support group:





- <u>http://goc.grid.sinica.edu.tw/gocwiki</u>
- collect information related to site management
- contains:
 - Troubleshooting Guide
 - recipes related to error messages
 - Admins FAQ
 - descriptions for procedures (installation, etc.)
 - User Guides
 - LCG version related infos
- the Troubleshooting Guide is particularly useful for errors reported by SFT



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Grid Operator on Duty





- Grid Operator on Duty
- global EGEE/LCG GRID monitoring
- 8 ROCs responsible for the whole GRID operations
 - -1 (2) ROC(s) on a weekly rotation
- WLCG/OSG/EGEE weekly phone conferences





- looking at monitoring tools
 - SFT, gstat, Certificate Monitoring pages
- open tickets using On Duty Dashboard
- escalate expired tickets
- process site responses (update tickets accordingly)
- end of duty: hand-over notes





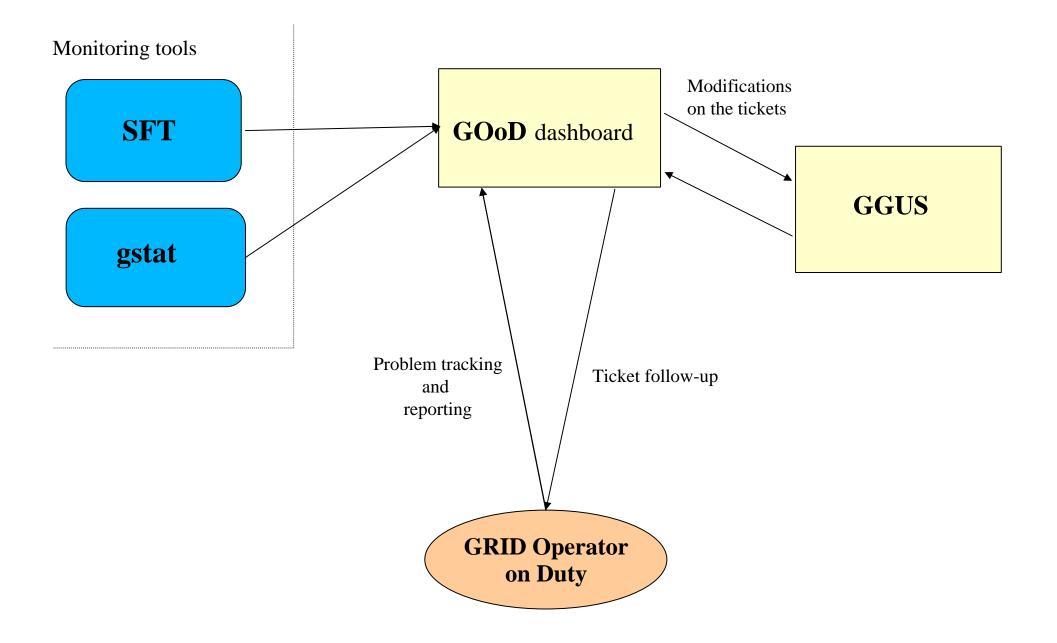
- summary of necessary monitoring information
 + tools for ticket processing
- GOoD ticket linked to corresponding GGUS ticket
- information from GOCDB
- SFT + gstat results
- ticket creation and management tool
- tools for e-mailing concerned sites and ROCs



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GGUS Tickets			Monitoring	Scheduled	Downtin	mes Other	ests & tools	Hand over
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ite name	Туре	NB CPUS	Node name and SFT		GStat	Open tickets		
			ce102.cern.ch	CT				
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NFN-T1	Prod	1290	ce04-lcg.cr.cnaf.infn.it ce01-lcg.cr.cnaf.infn.it	OK	NOTE	2343: SITES FUNCTIONAL TEST 2330: GIIS 2280: SITES FUNCTIONAL TEST	=	
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NFN-T1 JSCMS-FNAL-WC1 JKI-NORTHGRID-MAN-HEP	Prod	1290 970 556	ce04-lcg.cr.cnaf.infn.it ce01-lcg.cr.cnaf.infn.it ce01-lcg.cr.cnaf.infn.it cmssrv25.fnal.gov cmslcgce.fnal.gov	OK JS OK OK JL OK	WARN	2343: SITES FUNCTIONAL TEST 2330: GIIS 2280: SITES FUNCTIONAL TEST 2312: GIIS		
CERN-PROD INFN-T1 USCMS-FNAL-WC1 UKI-NORTHGRID-MAN-HEP Faiwan-IPAS-LCG2 MPPMU	Prod Prod Prod	1290 970 556 152	ce04-lcg.cr.cnaf.infn.it ce01-lcg.cr.cnaf.infn.it ce01-lcg.cr.cnaf.infn.it cmssrv25.fnal.gov cmslcgce.fnal.gov ce01.tier2.hep.manchester.	OK JS OK OK JL OK .ac.uk CT	WARN	2343: SITES FUNCTIONAL TEST 2330: GIIS 2280: SITES FUNCTIONAL TEST 2312: GIIS 2336: SITES FUNCTIONAL TEST		

Connection between used tools









- defines the steps to be taken during the lifetime of a ticket
- available on CIC Portal
 - https://edms.cern.ch/document/701575
- distinction between sites depending on the amount of resources





- 1.ticket creation
- 2.first mail (to: site + ROC)
- 3.second mail (to: site + ROC)
- 4. suspension from the GRID
- before 4.:
 - a) mail to ROC
 - b) weekly operations meeting call to the sitec) mail to OMC for validation

Escalation Procedure -- Quarantine

- site categories
 - -low: CPU <20
 - normal: 20 < CPU < 100
 - high: 100 < CPU
- between 2.-3. and 3.-4.
 - -low + normal: 3 days
 - -high: 1 days
- before 4.
 - mail to ROC immediately
 - -weekly operations meeting ASAP
 - mail to OMC ASAP

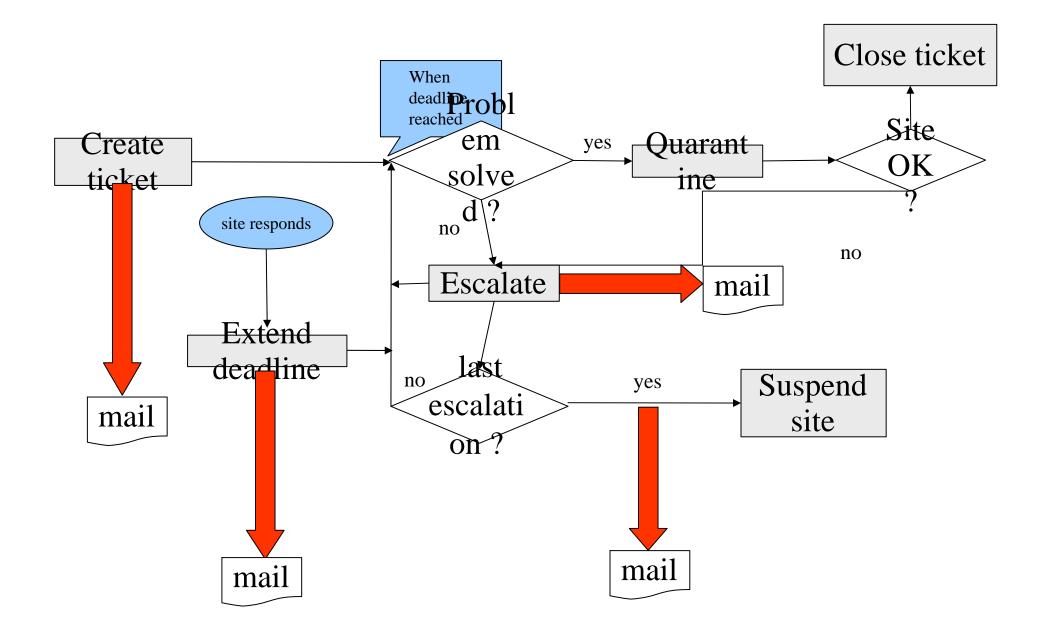




- 3 days quarantine after site is OK before ticket is closed
- site response \rightarrow deadline can be extended

COD Escalation Procedure









Tools in Development





- Service Availability Monitoring
- https://lcg-sam.cern.ch:8443/sam/sam.cgi
- monitoring framework for GRID services
- "evolution of SFT "
- services involved:
 CE, SE, BDII, RB, etc.
- development of the framework at CERN
- sensor development distributed
 CERN, RAL, Sinica
- web services + Oracle DB

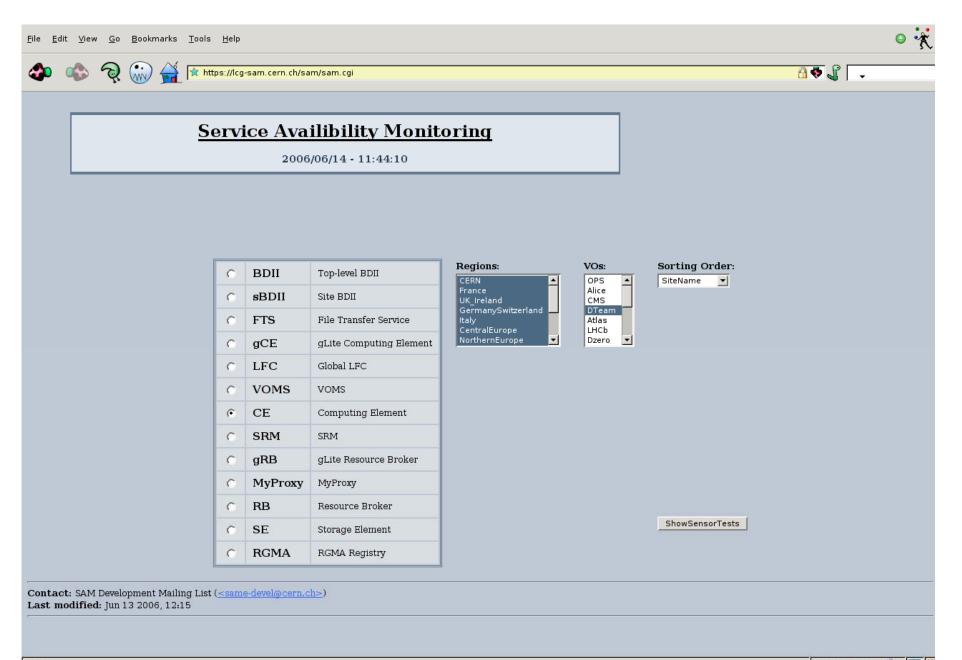




- operations VO: ops
- sensor test submission available for all VOs
- critical test set for VOs (defined using FCR)







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<u>ok</u>

ok

ok

37 EGEE/LCG Monitoring Tools, CERN, 16/06/06

ok

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OK

OK

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NorthernEurope

NorthernEurope

BEgrid-KULeuven

BEarid-UGent

SAM -- Availability monitoring



- aggregation of results over a certain time
- site services: CE, SE, sBDII, SRM
- central services: FTS, LFC, RB
- status calculated in every hour \rightarrow availability
 - current (last 24 hours), daily, weekly, monthly





- new version integrated with SAM
- new features
 - for every service VO can select which test are critical
 - definition of the core services
 - site status information pages for users
- web services, Oracle