

The logo consists of the letters 'GD' in a white, bold, sans-serif font, positioned in the upper left corner of a vertical banner. The banner itself features a satellite-style map of the world with a network of colorful lines (red, green, yellow) connecting various points across the continents, representing a global grid.

Grid Deployment

CERN IT
Department

Requirements for WLCG Management Dashboards

John Shade
CERN IT/GD

How will we spend 40'?

- **Quick overview of current displays/tools**
- **Examples of 3rd party dashboards**
- **What do we want from a Management Dashboard?**
- **Some observations**
- **Discussion and brainstorming**

CIC Dashboard

Tickets list

	ID	GGUS ID	Site	ROC	Node	Alarm	test status	Gstat	Summary	Type of problem	Last escalation	Expires o
◆	6620	28869	RO-01-ICI	ROC_SE	testbed002.grid.ici.ro	92584	error	OK	SRM failure on testbed002.grid.ici.ro (RO-01-ICI)	SRM	2nd mail to site admins	2007-11-
◆	6585	28713	LCG-IL-OU	ROC_SE	grid03.cslab.openu.ac.il	89747	warn	ERROR	sBDII failure on grid03.cslab.openu.ac.il (LCG-IL-OU)	sBDII	Case transferred to political instances	2007-11-
◆	6719	29301	UKI-LT2-UCL-HEP	ROC_UK/Ireland	pc91.hep.ucl.ac.uk	98140	error	INFO	LFC failure on pc91.hep.ucl.ac.uk (UKI-LT2-UCL-HEP)	LFC	1st mail to site admins	2007-11-
◆	6718	29299	PDC	ROC_North	g03n03.pdc.kth.se	98519	error	ERROR	BDII failure on g03n03.pdc.kth.se (PDC)	BDII	1st mail to site admins	2007-11-
◆	6717	29297	UKI-LT2-UCL-CENTRAL	ROC_UK/Ireland	gw-1.ccc.ucl.ac.uk	98144	error	OK	LFC failure on gw-1.ccc.ucl.ac.uk (UKI-LT2-UCL-CENTRAL)	LFC	1st mail to site admins	2007-11-
◆	6716	29290	VICTORIA-LCG2	ROC_CERN	log-ce.rcf.uvic.ca	98361	ok	OK	CE failure on log-ce.rcf.uvic.ca (VICTORIA-LCG2)	CE	Solved by ROC	2007-11-
◆	6715	29289	CERN-PROD	ROC_CERN	srm-lhcb.cern.ch	96429	error	WARN	SRM failure on srm-lhcb.cern.ch (CERN-PROD)	SRM	1st mail to site admins	2007-11-
T	6714	29287	CERN-PROD	ROC_CERN	<i>Not specified</i>	<i>none</i>	<i>N/A</i>	WARN	MISCELLANEOUS failure on (CERN-PROD)	MISCELLANEOUS	Solved by ROC	2007-11-
◆	6713	29285	ITWM	ROC_DECH	fornax-ce.itwm.fhg.de	98332	ok	OK	CE failure on fornax-ce.itwm.fhg.de (ITWM)	CE	Solved by ROC	2007-11-
◆	6712	29283	GUP-JKU	ROC_CE	egee-ce1.gup.uni-linz.ac.at	98270	ok	WARN	CE failure on egee-ce1.gup.uni-linz.ac.at (GUP-JKU)	CE	Solved by ROC	2007-11-
◆	6711	29280	GRIF	ROC_France	polgrid1.in2p3.fr	97963	ok	NOTE	CE failure on polgrid1.in2p3.fr (GRIF)	CE	1st mail to site admins	2007-11-
◆	6710	29279	ELTE	ROC_CE	eszakigrd67.inf.elte.hu	98166	ok	OK	SE failure on eszakigrd67.inf.elte.hu (ELTE)	SE	Solved by ROC	2007-11-
◆	6709	29278	LCG_KMI	ROC_Asia/Pacific	cluster142.kmi.csi.crc	98722	error	WARN	SE failure on	SE	1st mail to	2007-11-

SAM “dashboard”

Service Availability Monitoring

2007/11/22 - 09:30:23

<input type="radio"/>	ArcCE	ARC Computing Element
<input type="radio"/>	BDII	Top-level BDII
<input type="radio"/>	CE	Computing Element
<input type="radio"/>	FTS	File Transfer Service
<input type="radio"/>	LFC	Global LFC
<input type="radio"/>	MyProxy	MyProxy
<input type="radio"/>	OSGCE	OSG Computing Element

Regions:

- AsiaPacific
- CERN
- CentralEurope
- France
- GermanySwitzerland
- Italy
- NorthernEurope

VOs:

- aegis
- alice
- ams
- apesci
- argo
- astro.vo.eu-egee.org
- astron

Sorting Order:

SiteName

GStat

[home](#)
[alert table](#)
[service regional](#)
[service metrics links](#)
[prod](#)
[pps](#)
[test](#)
[baltic](#)
[eela](#)
[euchina](#)
[eumed](#)
[seegrid](#)
[gilda](#)
[trigrigrid](#)
[euindia](#)
[pi2s2](#)
[grisu](#)

ServDuplicate

AEGIS01-PHY-SCL	ok	ALBERTA-LCG2	ok	AMD64.PSNC.PL	ok	AUVERGRID	ok ok ok
Australia-UNIMELB-LCG2	ok	BEIJING-LCG2	ok	BEgrid-KULeuven	ok	BEgrid-UGent	ok
BG-INSRNE	ok	BG01-IPP	ok	BG02-IM	ok	BG04-ACAD	ok
BIFI		BMEGrid	ok	BNL-LCG2		BUDAPEST	sd
CERN-PROD	er ok ok ok ok ok ok ok ok ok ok ok ok ok ok ok	CESGA-EGEE	ok	CGG-LCG2	ok	CIEMAT-LCG2	er
CNR-ILC-PISA	ok	CSC	ok ok	CSCS-LCG2	ok	CY-01-KIMON	ok
CYFRONET-IA64	ok	CYFRONET-LCG2	ok ok	ClusterJUL	ok	DESY-HH	ok ok
DI-UMinho	ok	EENet	ok	EFDA-JET	ok	ELTE	ok
ESA-ESAC	ok	FMPHI-UNIBA	ok	FZK-LCG2	er ok ok	GOG-Singapore	ok
GR-03-HEPNTUA	ok	GR-04-FORTH-ICS	wn	GR-05-DEMOKRITOS	ok	GR-06-IASA	ok
GSI-LCG2	ok ok	GUP-JKU	ok	HEPHY-UIBK	ok sd	HG-01-GRNET	ok
HG-03-AUTH	ok	HG-04-CTI-CEID	ok	HG-05-FORTH	ok	HG-06-EKT	ok
HPC2N	ok	Hephy-Vienna	ok	IEPSAS-Kosice	ok	IFCA-LCG2	er
IISAS-Bratislava	sd	IL-BGU	ok	IL-IUCC	wn	IMCSUL	sd er
IN-DAE-VECC-01	ok	IN2P3-CC	ok ok ok ok ok	IN2P3-CC-T2	ok ok	IN2P3-CPPM	ok
IN2P3-IRES	ok	IN2P3-LAPP	ok	IN2P3-LPC	ok ok ok	IN2P3-SUBATECH	ok
INFN-BARI	ok	INFN-BOLOGNA	ok	INFN-CAGLIARI	sd	INFN-CATANIA	ok
INFN-CNAF-LHCB	ok ok	INFN-FERRARA	ok	INFN-FIRENZE	er	INFN-FRASCATI	ok

ok	ok	ok	ok	na						1450.25	997.52	0		
ok	ok	ok	ok	GLITE-3_0_0 Scientific Linux 3.0.7	11	10	1	0	0.03	0.01	15			
ok	ok	ok	ok	GLITE-3_1_0 ScientificCERNSLC 4.5	21	16	2	0	0.06	0.00	21			
ok	ok	ok	ok	GLITE-3_0_1 Scientific Linux 3.0.5	444	79	350	58	5.53	5.30	448			
ok	ok	ok	ok	GLITE-3_1_0 SUSE LINUX 10	112	21	91	1	3.50	0.00	194			
ok	ok	ok	ok	GLITE-3_1_0 ScientificCERNSLC 4.5	28	26	2	20	3.39	5.48	184			
ok	ok	ok	ok	GLITE-3_0_0 Scientific Linux 3.0.8	304	1	16	8	0.26	0.03	304			
ok	ok	ok	ok	GLITE-3_0_2 Scientific Linux 3.0.8	81	26	27	54	0.24	0.39	83			
ok	ok	ok	ok	GLITE-3_0_0 CentOS 4.5	103	33	0	39996	32.06	12.84	103			
info	ok	ok	ok	GLITE-3_0_0 Scientific Linux 3.0.8	1	0	1	2	0.01	0.00	1			
				sites	countries	totalCPU	freeCPU	runJob	waitJob	seAvail TB	seUsed TB	maxCPU	avgCPU	
				Total	247	51	38103	17255	16913	201019	47491.82	29459.87	59917	45458

GridIce



is monitoring



Geo view

Site view

VO view

Help

About

GridICE >> Site::ALL

General														Gris		Host		Job		Charts		XML	
Overview														Computing		Management		Downtime					
Computing Resources														Storage Resources									
Site	Region	GK#	Q#	RunJob	WaitJob	JobLoad	Power	WN#	CPU#	CPUload	Available	Total	%	MH#									
AEGIS01-PHY-SCL	SEE	2	16	80	43	4%	155K	0	165	5%	27.1 TB	27.2 TB	0%	49									
ALBERTA-LCG2	CERN	1	3	117	402	-	0	0	0	-	-	-	100%	1									
AMD64.PSNC.PL	CentralEu	1	8	2	0	-	-	-	-	-	4.1 TB	4.4 TB	6%	-									
AUVERGRID	France	3	26	58	4	-	-	-	-	-	10.2 TB	10.6 TB	4%	-									
Australia-UNIMELB-LCG2	World	1	40	186	951	-	-	-	-	-	255 MB	11.2 TB	100%	-									
BEIJING-LCG2	CERN	-	-	-	-	-	0	0	0	-	1.2 TB	2.4 TB	51%	7									
BEgrid-KULeuven	NorthEu	1	6	16	0	-	-	-	-	-	-	-	-	-									
BEgrid-UGent	NorthEu	1	8	39	0	-	-	-	-	-	-	-	-	-									
BEgrid-ULB-VUB	NorthEu	1	7	199	184	0%	0	1	2	100%	21.8 TB	55.3 TB	61%	2									
BG-INRNE	SEE	-	-	-	-	6%	0	9	17	0%	844.9 GB	845 GB	0%	3									
BG01-IPP	SEE	1	11	1	379	67%	0	11	15	7%	847 GB	928 GB	9%	2									
BG02-IM	SEE	1	6	0	5	-	-	-	-	-	8.6 GB	32.9 GB	74%	-									
BG04-ACAD	SEE	1	12	46	42	100%	0	40	76	86%	1.6 TB	1.6 TB	1%	2									
BG05-SUGrid	SEE	1	9	14	17	-	0	0	0	-	-	-	-	2									
BIFI	SWE	1	6	0	0	-	0	0	0	-	63.1 GB	103.5 GB	59%	4									
BMEGrid	CentralEu	1	3	13	8	-	-	-	-	-	-	-	-	-									
BUDAPEST	CentralEu	1	9	67	3	-	0	94	0	-	-	-	-	5									

27-Nov-2007

J.Shade: WLCG Management Dashboard Requirements

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NAGIOS

Current Network Status

Last Updated: Thu Nov 22 11:16:53 CET 2007

Updated every 90 seconds

Nagios® 2.10 - www.nagios.org

Logged in as /DC=cn/DC=ce7w/OU=Organic

Units/OU=Users/CN=jshade/CN=468767/CN=John Shade

[View History For all hosts](#)

[View Notifications For All Hosts](#)

[View Host Status Detail For All Hosts](#)

Host Status Totals

Up	Down	Unreachable	Pending
15	0	0	0

All Problems	All Types
0	15

Service Status Totals

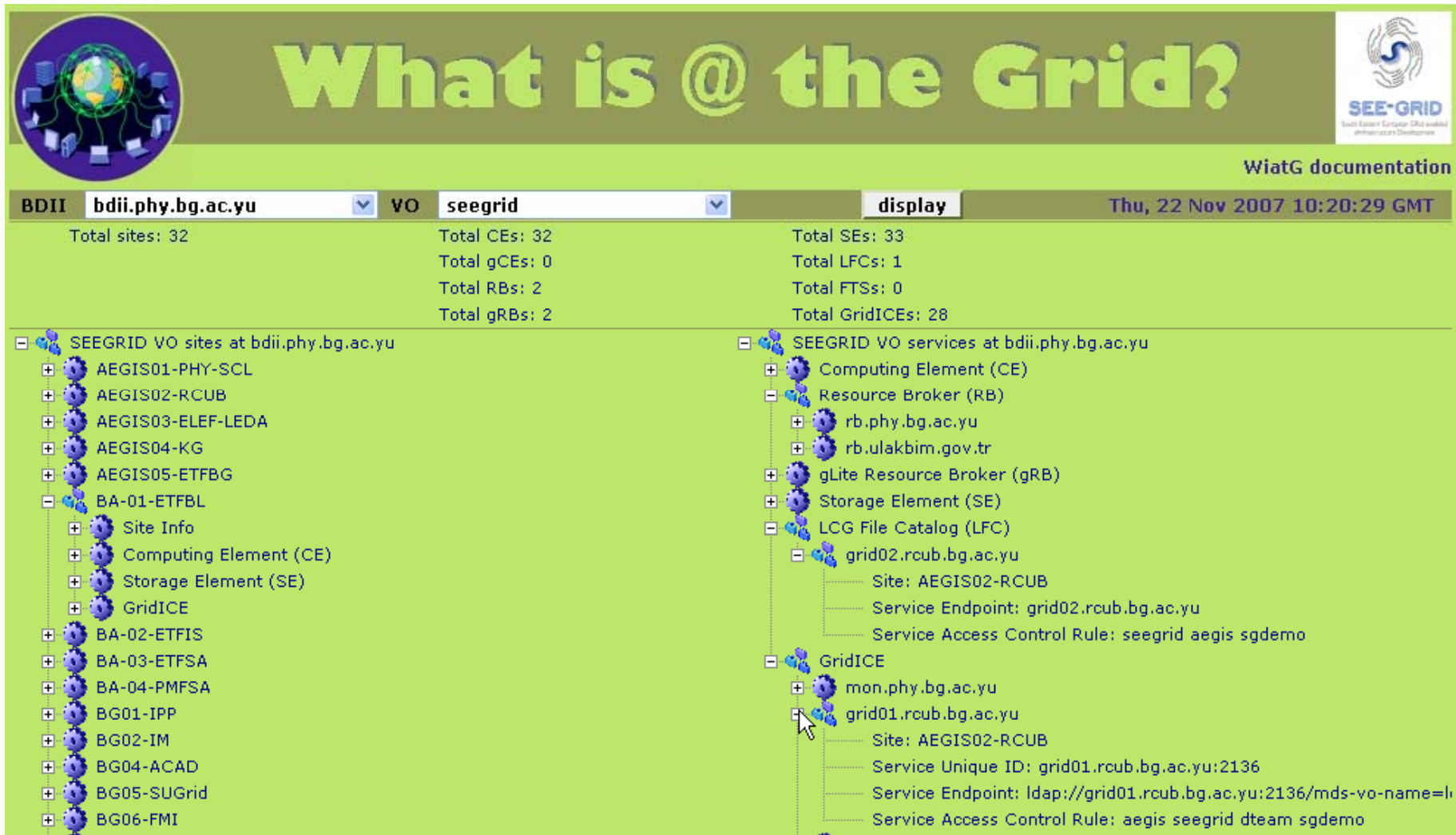
Ok	Warning	Unknown	Critical	Pending
93	4	13	15	3

All Problems	All Types
32	128

Service Status Details For All Hosts

Host ↑↓	Service ↑↓	Status ↑↓	Last Check ↑↓	Duration ↑↓	Attempt ↑↓	Status Information
ce110.cern.ch	CE-host-cert-valid-OPS-remote	OK	11-09-2007 02:49:40	41d 23h 26m 13s	1/1	SAM status: ok
	CE-sft-brokerinfo-OPS-remote	OK	11-09-2007 01:22:43	42d 0h 54m 49s	1/1	SAM status: ok
	CE-sft-caver-OPS-remote	OK	11-09-2007 01:22:54	41d 0h 54m 54s	1/1	SAM status: ok
	CE-sft-csh-OPS-remote	OK	11-09-2007 01:22:49	42d 0h 54m 45s	1/1	SAM status: ok
	CE-sft-job-DTeam-remote	WARNING	11-09-2007 02:27:15	19d 16h 57m 18s	1/1	SAM status: warn
	CE-sft-job-OPS-remote	OK	11-09-2007 03:16:57	19d 1h 59m 23s	1/1	SAM status: ok
	CE-sft-lcq-rm-OPS-remote	OK	11-09-2007 01:23:22	28d 12h 53m 17s	1/1	SAM status: ok
	CE-sft-softver-OPS-remote	OK	11-09-2007 01:22:41	42d 0h 54m 48s	1/1	SAM status: ok
	hr.srce.CAdist-Version	UNKNOWN	11-21-2007 20:15:45	8d 18h 1m 8s	4/4	WLCG probe execution failed: Download from remote computer failed failed with error: globus_ftp_client: the server responded with an error425 Can't open data connection. data_connect_failed() failed: authentication failed:GSS Major Status: General failureG
	hr.srce.GRAM-Auth	OK	11-22-2007 11:01:59	9d 0h 29m 55s	1/4	GRAM Authentication test successful
	hr.srce.GRAM-CertLifetime	OK	11-21-2007 17:28:25	22d 17h 48m 28s	1/4	Certificate will expire in 22.94 days (Dec 14 15:07:39 2007 GMT).
	hr.srce.GRAM-Command	UNKNOWN	11-22-2007 11:01:56	9d 16h 59m 58s	4/4	ERROR: No answer from WLCG probe /opt/lcg/share/grid-monitoring/probes/hr.srce/GRAM-probe
						Upload to remote computer failed failed with error: globus_ftp_client:

WiatG



The screenshot shows the WiatG dashboard interface. At the top left is a globe icon with server racks. The main title is "What is @ the Grid?". On the right is the SEE-GRID logo with the text "South Eastern European Grid enabled Infrastructure Development". Below the title bar, there are navigation tabs for "BDII", "bdi.phy.bg.ac.yu", "VO", "seegrid", and "display". The current date and time are "Thu, 22 Nov 2007 10:20:29 GMT".

Summary statistics:

- Total sites: 32
- Total CEs: 32
- Total SEs: 33
- Total gCEs: 0
- Total LFCs: 1
- Total RBs: 2
- Total FTs: 0
- Total gRBs: 2
- Total GridICEs: 28

Left sidebar: SEEGRID VO sites at bdi.phy.bg.ac.yu

- AEGIS01-PHY-SCL
- AEGIS02-RCUB
- AEGIS03-ELEF-LEDA
- AEGIS04-KG
- AEGIS05-ETFBG
- BA-01-ETFBL
 - Site Info
 - Computing Element (CE)
 - Storage Element (SE)
 - GridICE
- BA-02-ETFIS
- BA-03-ETFSA
- BA-04-PMFSA
- BG01-IPP
- BG02-IM
- BG04-ACAD
- BG05-SUGrid
- BG06-FMI

Right sidebar: SEEGRID VO services at bdi.phy.bg.ac.yu

- Computing Element (CE)
- Resource Broker (RB)
 - rb.phy.bg.ac.yu
 - rb.ulakbim.gov.tr
- gLite Resource Broker (gRB)
- Storage Element (SE)
- LCG File Catalog (LFC)
 - grid02.rcub.bg.ac.yu
 - Site: AEGIS02-RCUB
 - Service Endpoint: grid02.rcub.bg.ac.yu
 - Service Access Control Rule: seegrid aegis sgdemo
- GridICE
 - mon.phy.bg.ac.yu
 - grid01.rcub.bg.ac.yu
 - Site: AEGIS02-RCUB
 - Service Unique ID: grid01.rcub.bg.ac.yu:2136
 - Service Endpoint: ldap://grid01.rcub.bg.ac.yu:2136/mds-vo-name=...
 - Service Access Control Rule: aegis seegrid dteam sgdemo

GridView



Monitoring and Visualization Tool for LCG

[Data Transfer](#) | [Job Status](#) | [Service Availability](#)

(Version: gridview-3.1 Installation Date: Oct 30, 2007)



<< ABOUT

ABOUT >>

What do you want ?

- Job Status
- Job Turnaround Time
- Job Resource Utilization
- Job Successrate
- Overall Summary

- Use Site Abbreviation
- Use Full Site Name

Option : All States

- All Sites
- All T1 Sites
- All T2 Sites
- ASGC(T1)

Site: BNL(T1)

VO :

- voce
- webcom
- All VOs

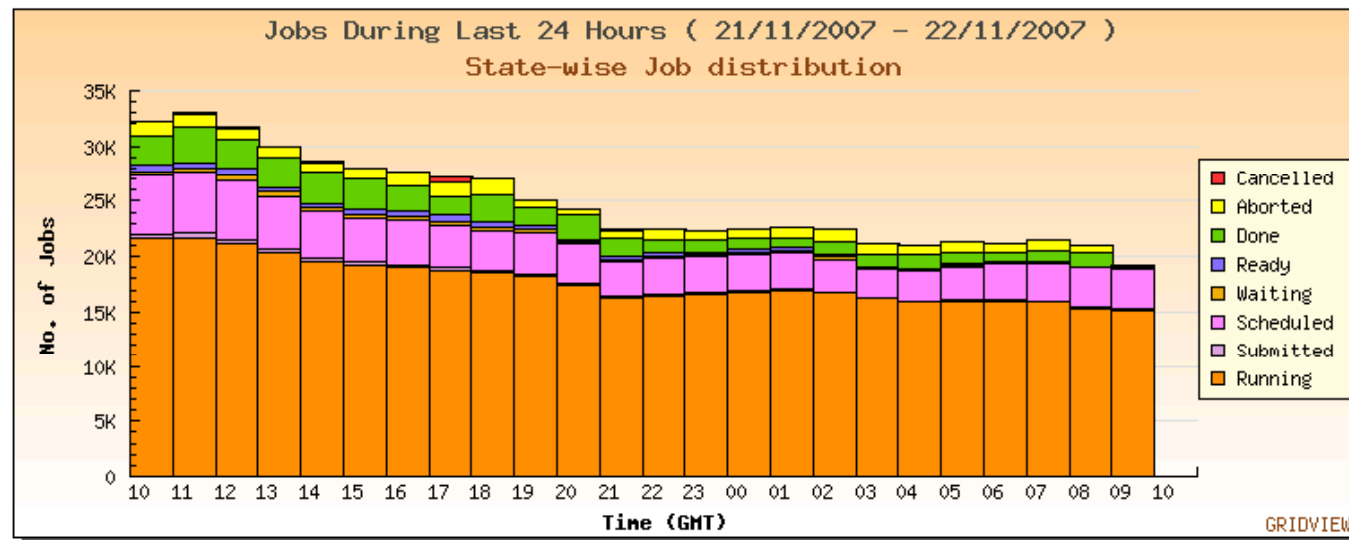
RB :

- w-rb01.grid.sinica.edu.tw
- wipp-rb.weizmann.ac.il
- All RBs

Current Summary of Jobs` Status

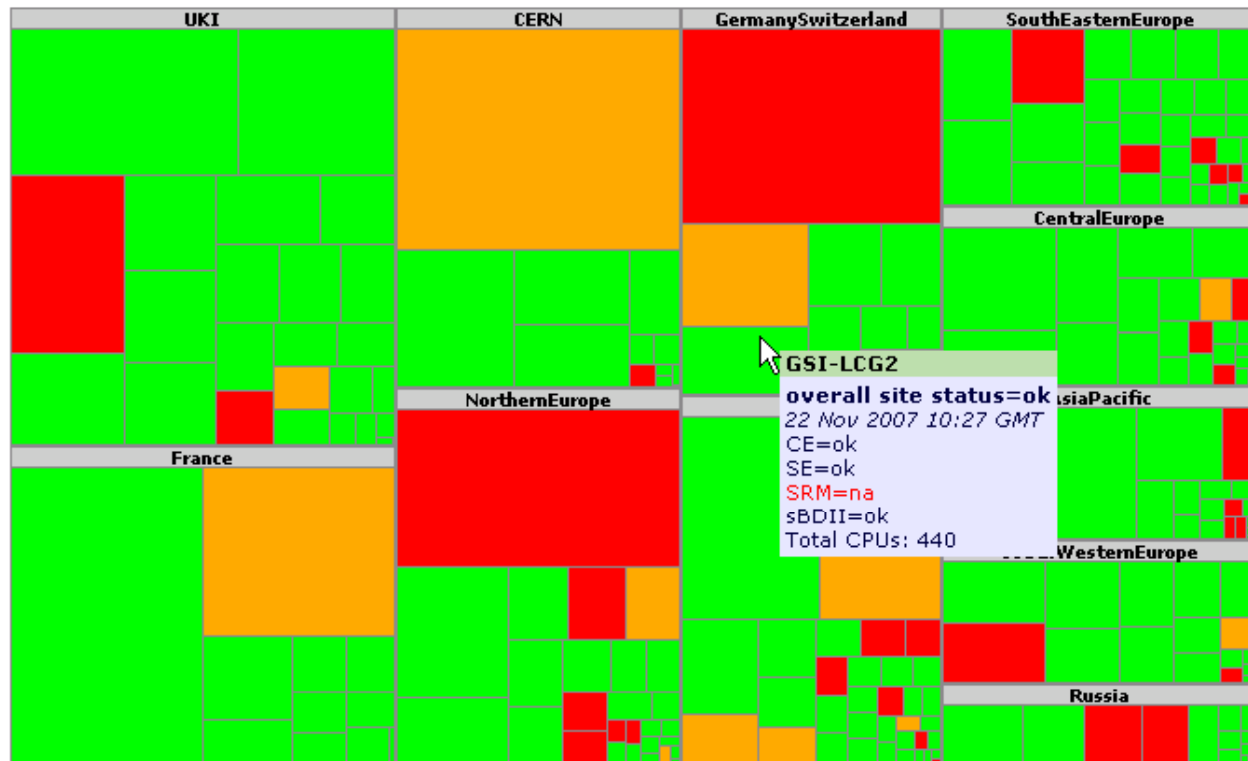
[State Wise Distribution](#) | [VO Wise Distribution](#) | [RB Wise Distribution](#) | [Site Wise Distribution](#)

State Wise Distribution (Only Jobs Submitted via RBs)



GridMap

GridMap Prototype – Visualizing the "State" of the Grid



Topology View

show sitenames

Size by:

use historical CPU numbers

use VO specific information

SAM Results

Virtual Organization:

Service:

Current Status:

Historical Status & Availability:

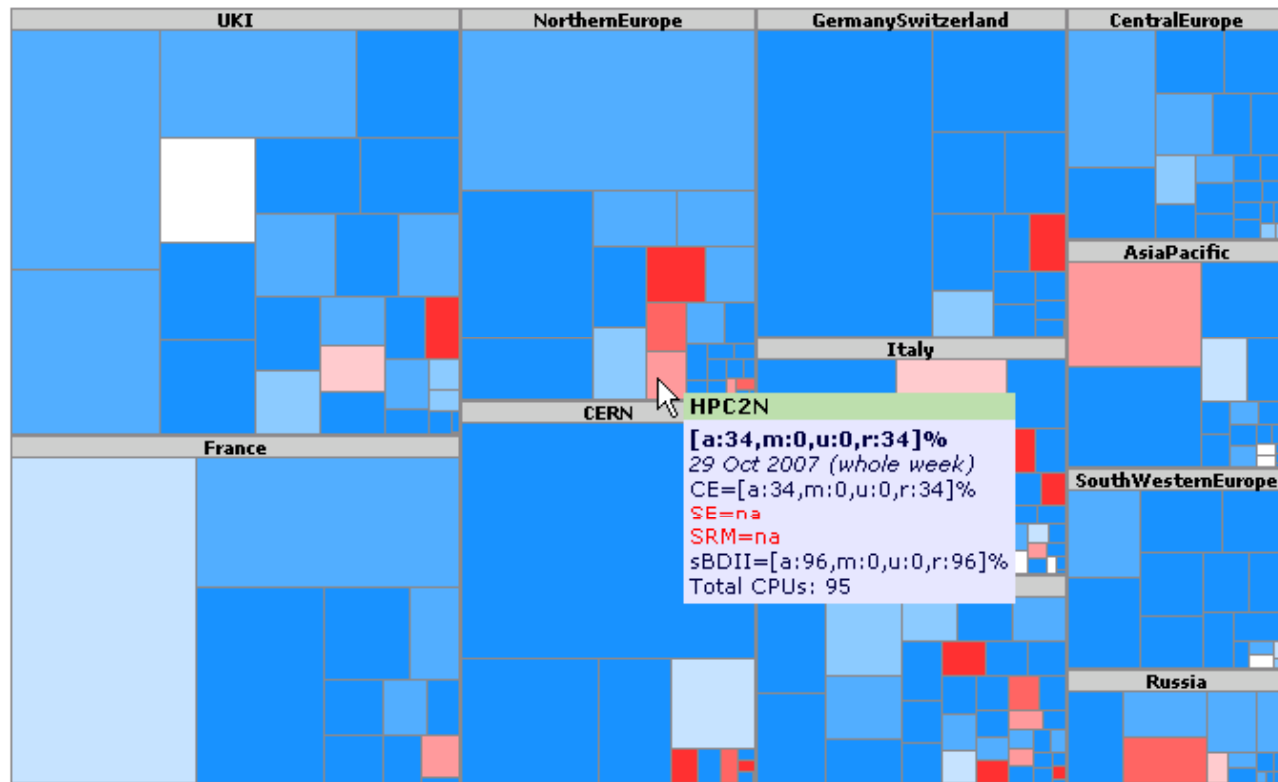
Latest SAM results, Site Status, for 'OPS' VO, 22 Nov 2007 10:27 GMT.

Size of site rectangles is number of CPUs from BDII.
 Certified Production sites, grouped by regions.

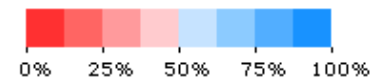


GridMap (site reliability)

GridMap Prototype – Visualizing the "State" of the Grid



Site reliability, for 'OPS' VO, 29 Oct 2007 (whole week).
 Size of site rectangles is number of CPUs from BDII.
 Certified Production sites, grouped by regions.



Topology View

show sitenames

Size by:

use historical CPU numbers

use VO specific information

SAM Results

Virtual Organization:

Service:

Current Status:

Historical Status & Availability:

Experiment Dashboards

- ALICE
- ATLAS
- CMS
- LHCb
- Site efficiency reports

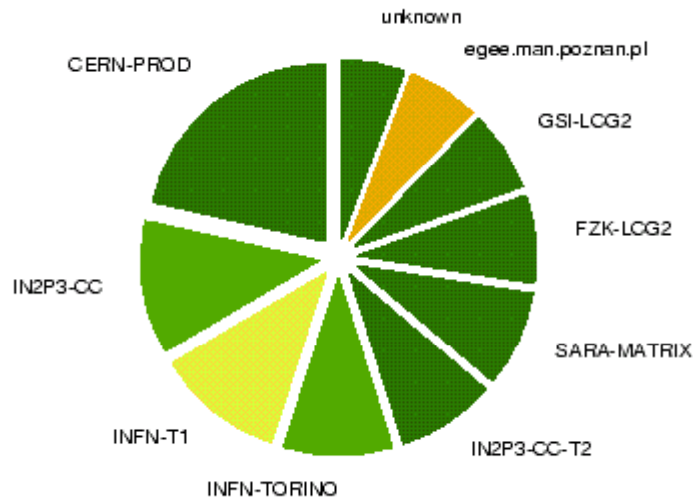
ALICE (site efficiency)

help
 + modify content

drag widgets here

Power Site Efficiency during November

Display of Power Sites (sites processing the most jobs) with their efficiencies.



Site Name Efficiency Total Jobs

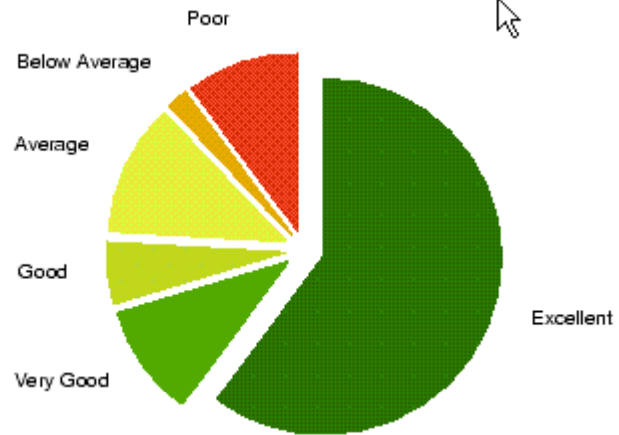
Site Efficiency Distribution for November



drag widgets here

Site Efficiency For November

Average Site Efficiency of 0.0% is POOR



Best Performing Sites

Site Name Efficiency Total Jobs

Worst Performing Sites

Site Name Efficiency Total Jobs

ATLAS

JOB SUMMARY

- any user
- any site
- any vosite
- any cloud
- any tier
- any country
- any ce
- any submissiontool
- any dataset
- any application
- any rb
- any activity
- any grid

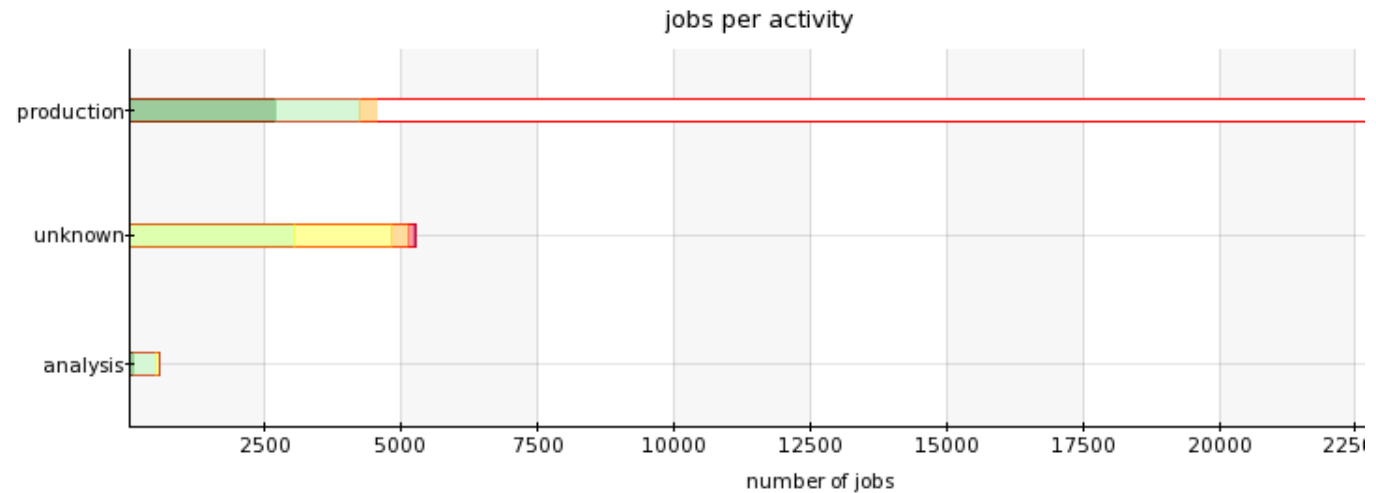
- unk pend run term
- done canc abort g-unk
- succ fail a-unk
- donesuccess

2007-11-21 11:37:43 to

2007-11-22 11:37:43

sort by activity

bars in the plot



submitted
 app-succeeded
 app-failed
 app-unknown
 pending
 running
 aborted
 cancelled

activity\j	current status					grid exit status					applicat	
	Sub	Unk	Pend	Run	Term	Done	Canc	Abort	Unk	Grid%	Succ	Fail
analysis	570	0	45	17	508	79	3	0	426	100	101	405
production	25382	20838	0	208	4246	0	0	0	4246	0	2706	1540

ATLAS data transfers



Data: Tier 0

Data: Production

Tasks: Production

Overview

Dataset Info

Page Help

User Guide

Feedback

OVERVIEW

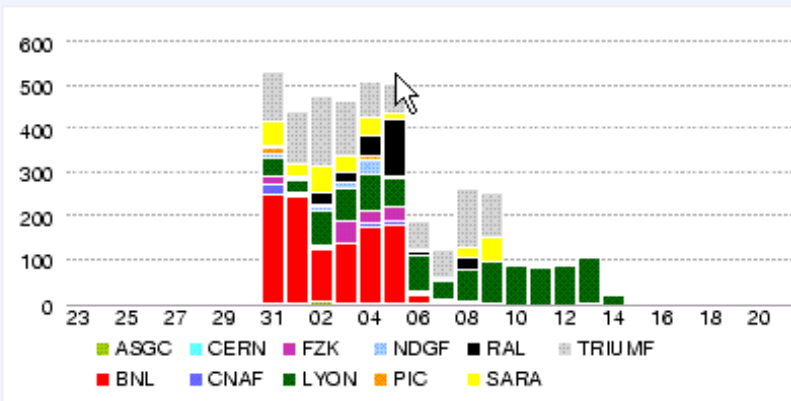
OVERVIEW Activity

- Activity in Last Hour
- Activity in Last 4 Hours
- Activity in Last 24 Hours
- Activity in Last 7 Days
- Activity in Last 30 Days
- Activity in ...

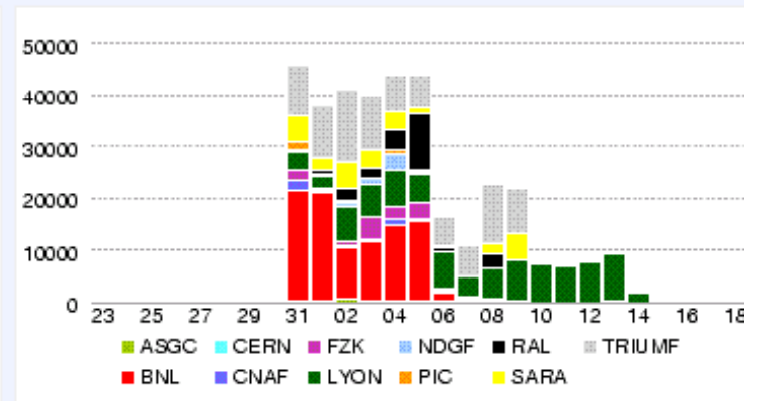
Cloud Activity

- ASGC Cloud
- BNL Cloud
- CERN Cloud
- CNAF Cloud
- FZK Cloud
- LYON Cloud
- NDGF Cloud
- PIC Cloud
- RAL Cloud
- SARA Cloud
- TRIUMF Cloud

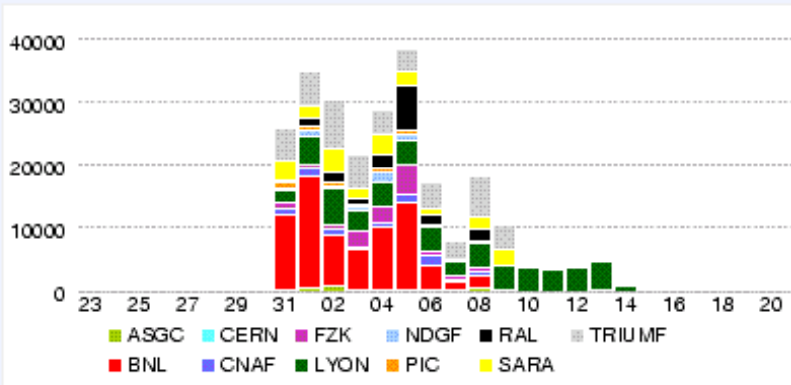
Throughput (MB/s)



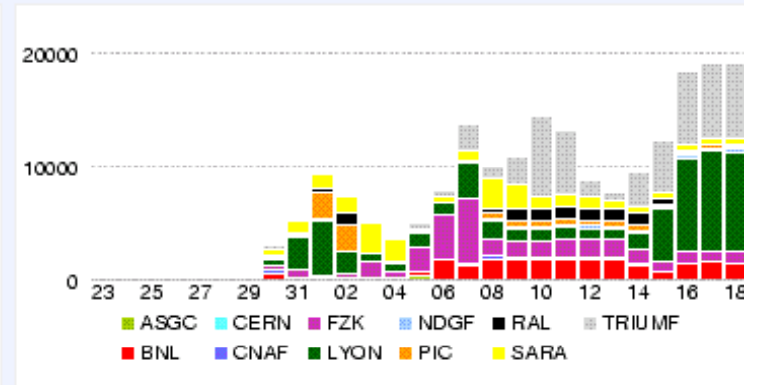
Data Transferred (GBytes)



Completed File Transfers



Total Number Errors



CMS I/O rate monitoring

JOBS I/O INFORMATION

DEFINE PARAMETERS...

SHOW PLOT...

Jobs I/O Info

CHOSEN PARAMETERS

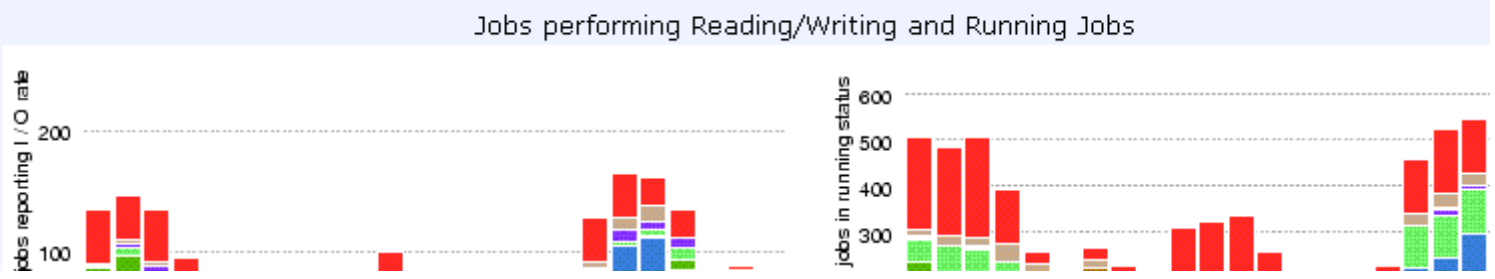
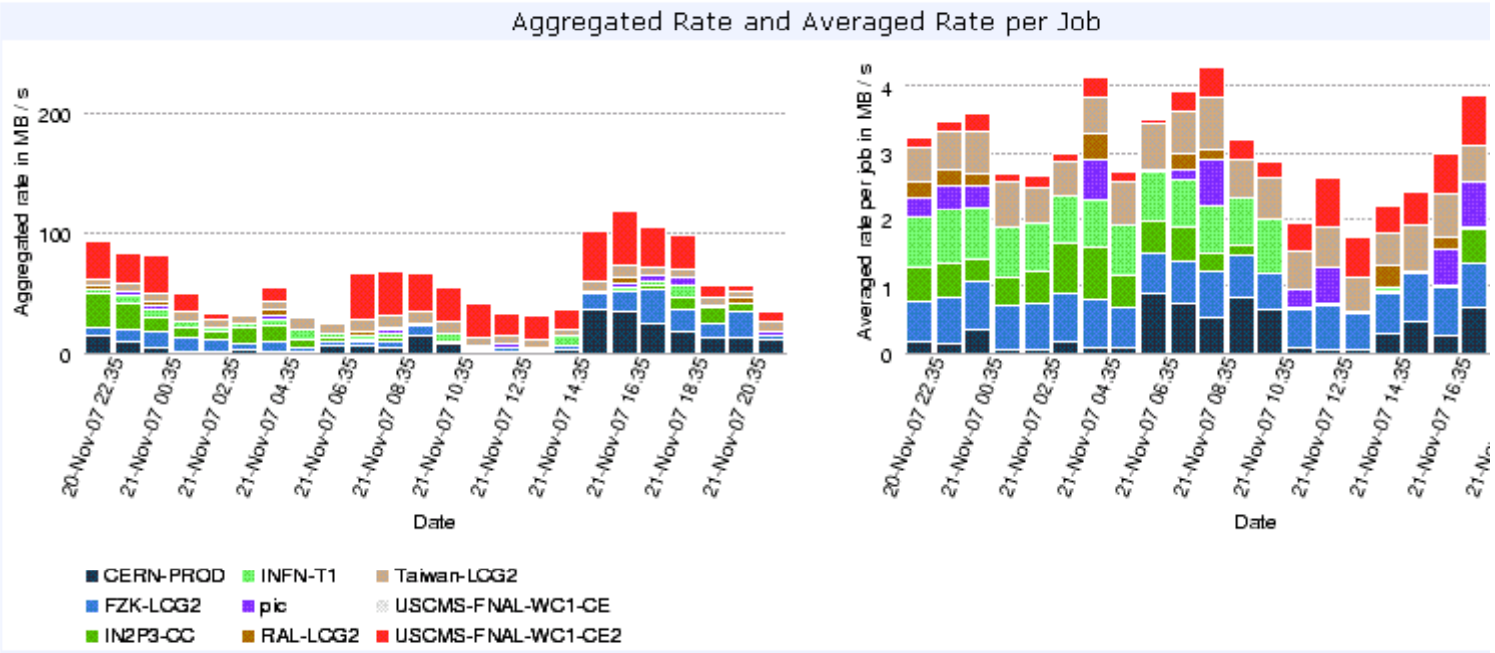
Sites:
All T1s + T0

Activities:
all

Time Range:
Last 24 hours

Jobs status:
Read

[Report a bug or a suggestion](#)



GridPP reports

Activity Report from the Real Time Monitor

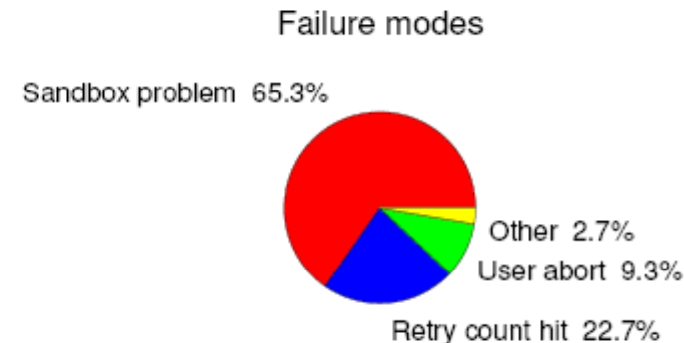
20 November 2007

Report for CE a01-004-128.gridka.de for 20 November 2007

PLEASE remember, "There are three kinds of lies: Lies, Damn Lies, and Statistics." – Disraeli

At A Glance...

Jobs Submitted	619
Jobs Success	544
% Success	87
Total Computation Time (hours)	2154
Success Computation Time (hours)	2113
% Useful Computation	98
Jobs Specifically Targeting this CE	49
% Specifically Targeting this CE	7



Breakdown of Statistics by VO

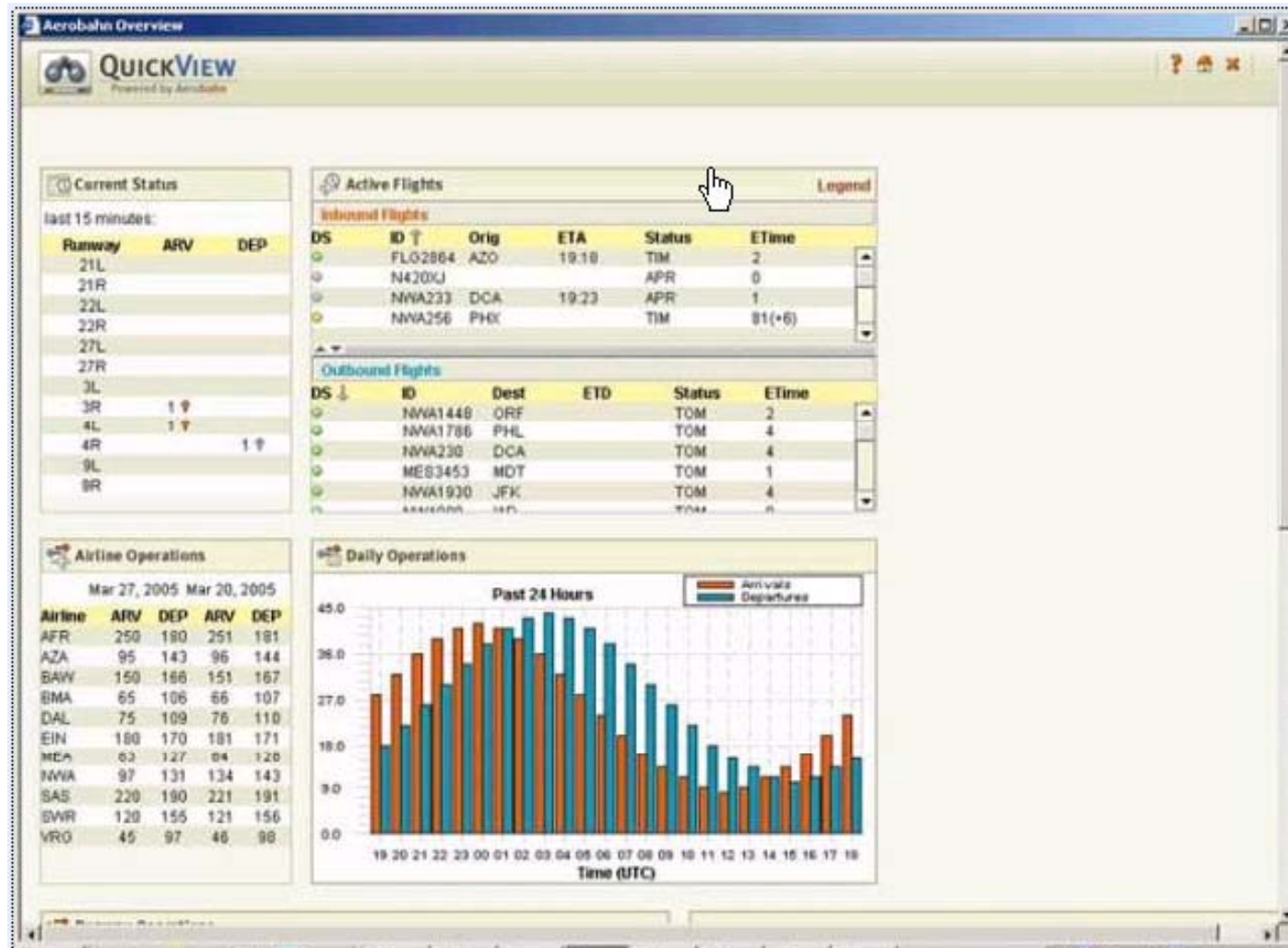
Virtual Organisation	Jobs Submitted	Jobs Success	% Success	Total Computation Time (hours)	Success Computation Time (hours)	% Useful Computation	Targetting this CE	% Targetting this CE
alice	23	23	100	1	1	100	0	0
atlas	72	39	54	85	60	70	48	66
cms	408	374	91	744	728	97	0	0
---	-	-	---	-	-	---	-	---

Examples of 3rd party dashboards

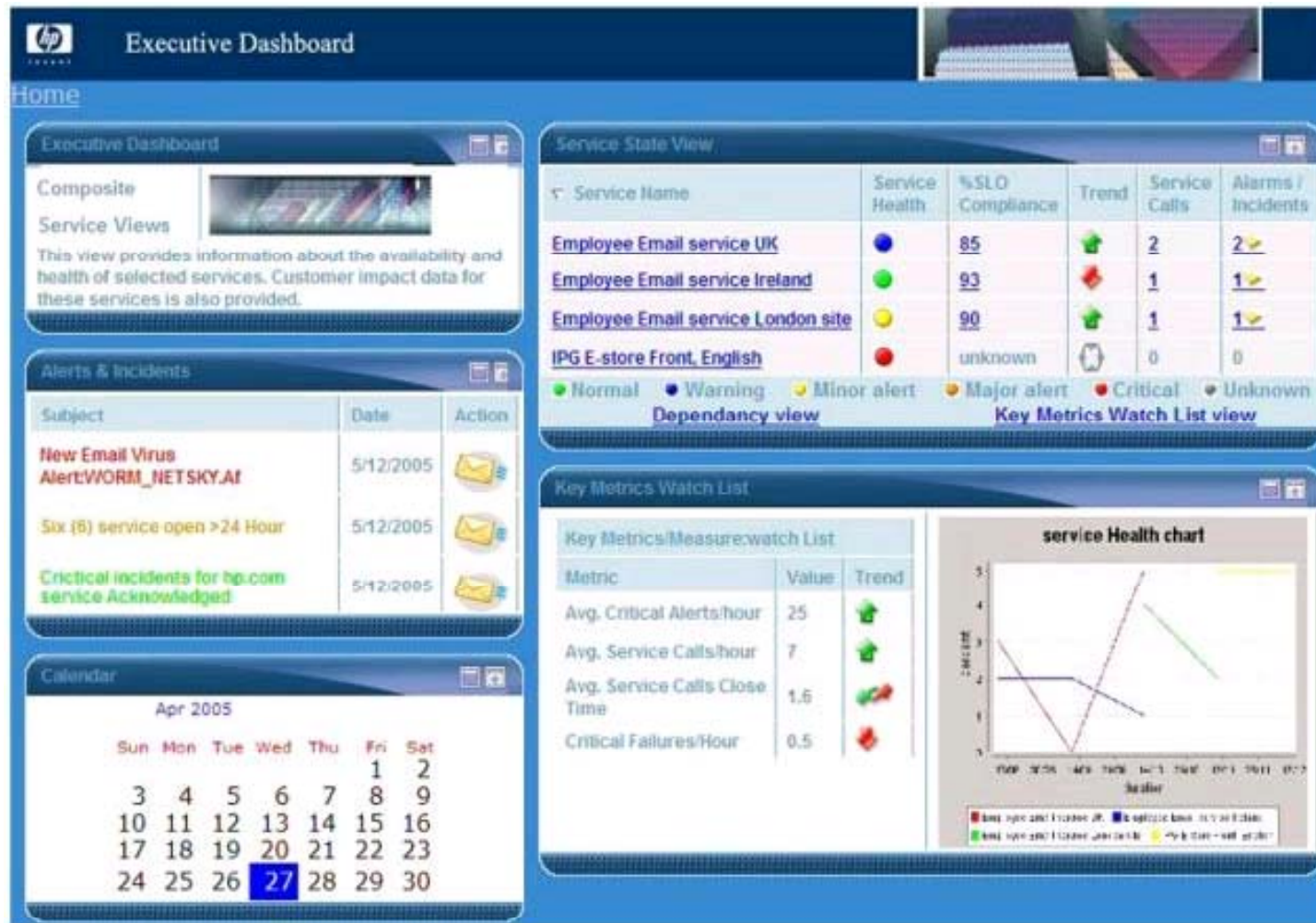
VitalStream.com



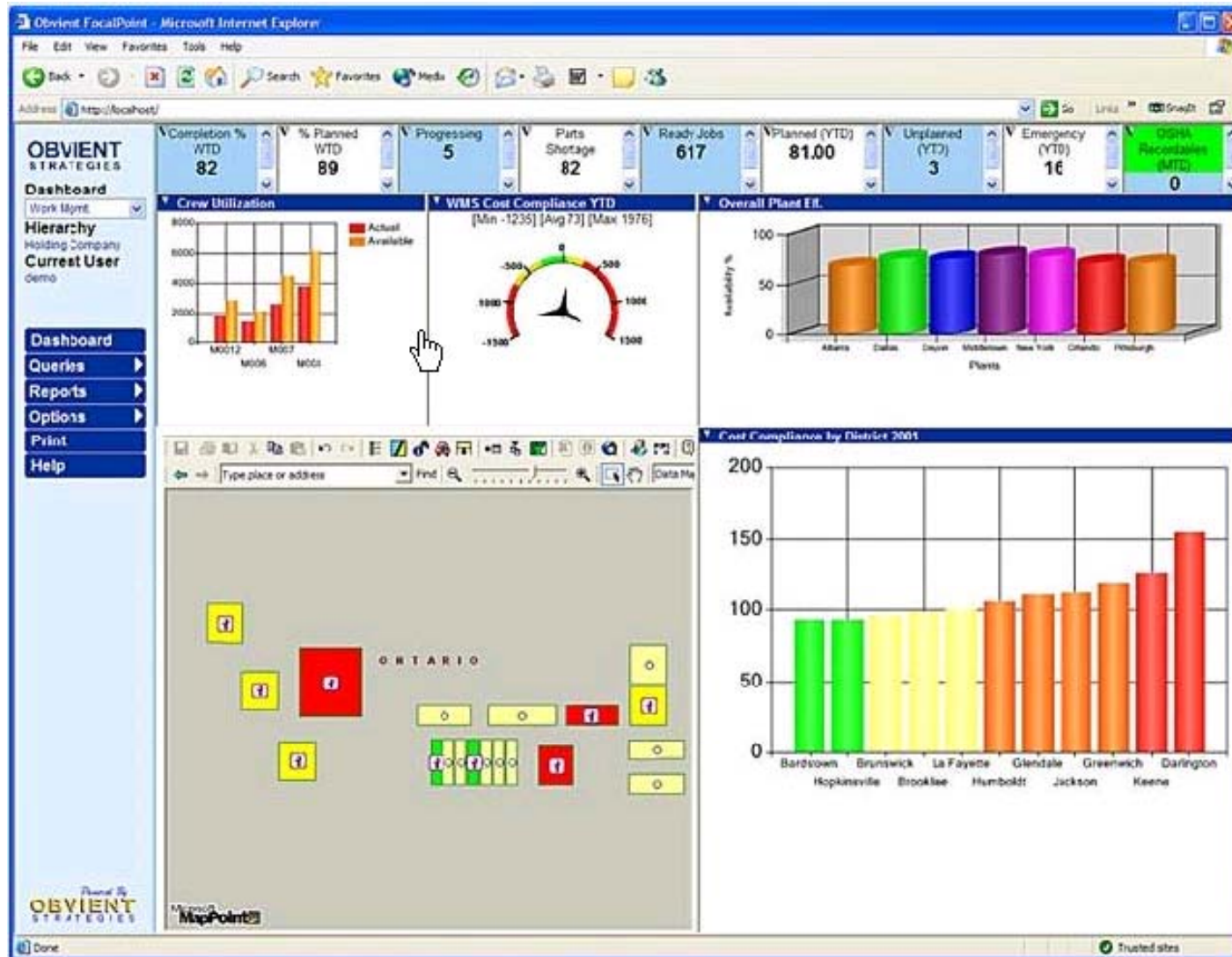
DashboardSpy.com



HP OpenView



Obvient.com



What do we want from a Management Dashboard?

- “show the state and spot problems”
- Per-VO, up-to-the-minute, view of the infrastructure
 - how much of available resources are being used?
 - how many jobs are running, are queued, why are they queued? (i.e. any issues)
- need to include jobs not submitted via the RB
- what resources are available to [e.g. ATLAS] per site, per region?
- include data transfers (view of problems) FTS, GridFTP and others

What do we want from a Management Dashboard? (contd.)

- Need a summary for each of the 5-6 largest VOs
- Need operations view to spot "black holes"
- Ability to build custom views

Some Observations

- “the information is there, but needs to be summarized”
- Observations:
 - GridView navigation is tedious. The graphs are useful
 - GridMaps are a good way of conveying a lot of information at a glance
 - Explorer is good for navigating hierarchies

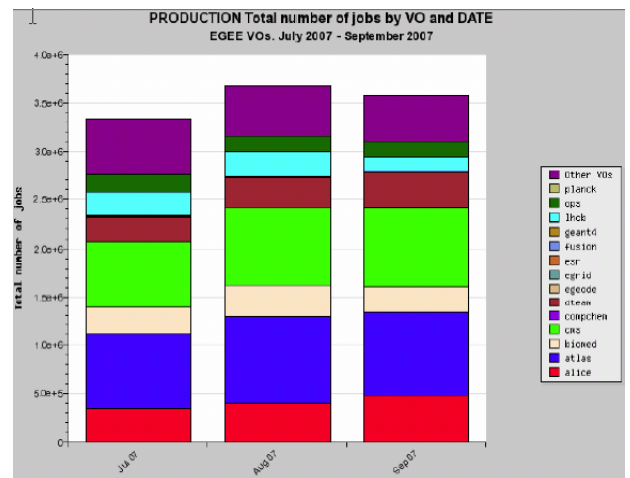
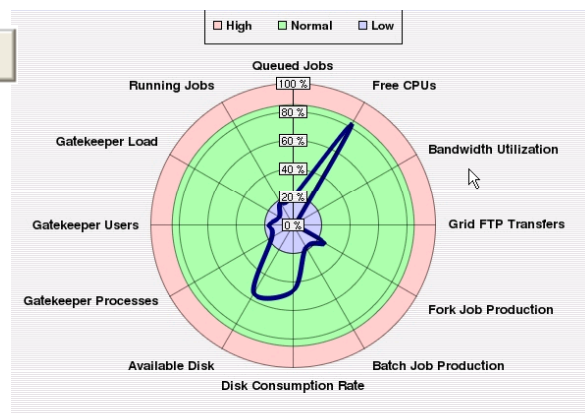
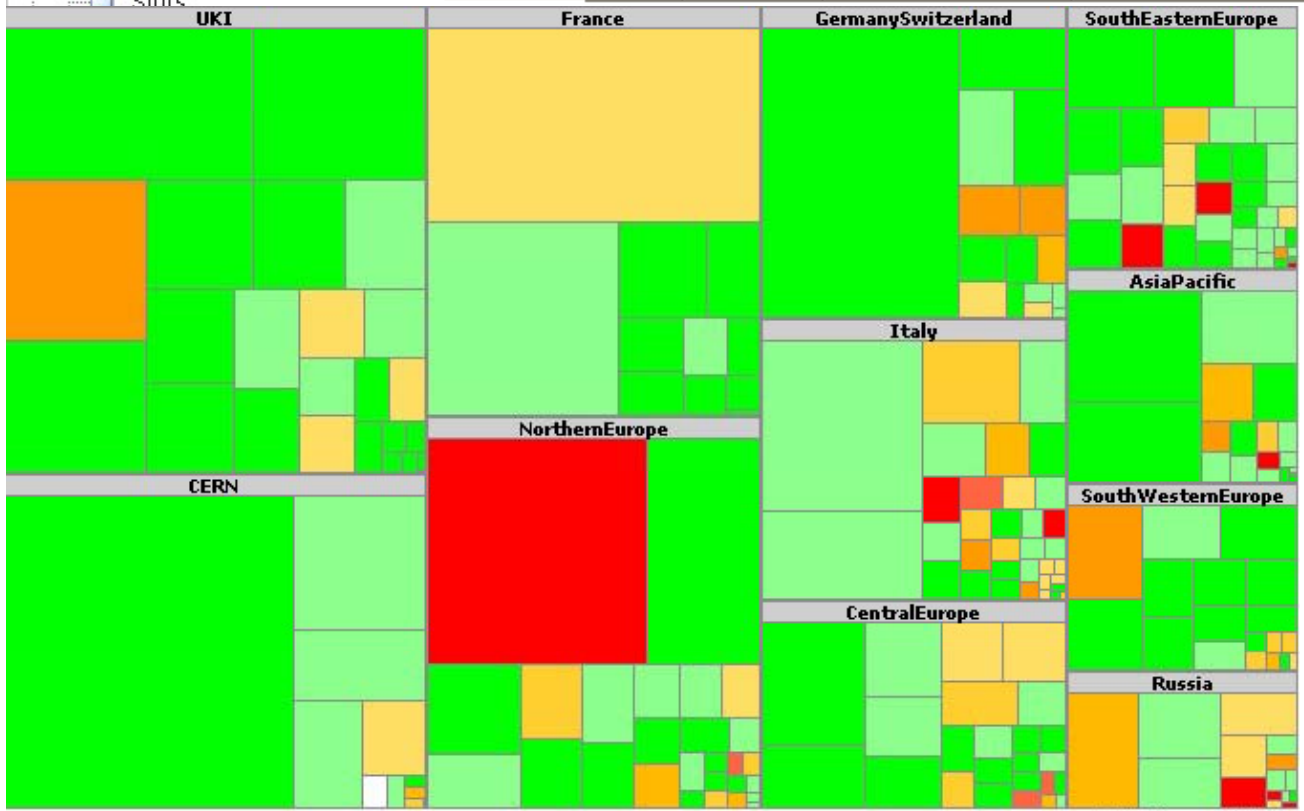
EGEE Operations Management Dashboard

- MonALISA Repository
 - Interactive map
 - Jobs
 - VO aggregation
 - Site aggregation
 - Sites per VO
 - VOs per site
 - Statistics
 - Accounting
 - CPU usage per V
 - Finished jobs pe
 - CPU usage per S
 - Finished jobs pe
 - Site views
 - Statistics
 - Nodes utilisati
 - Slots

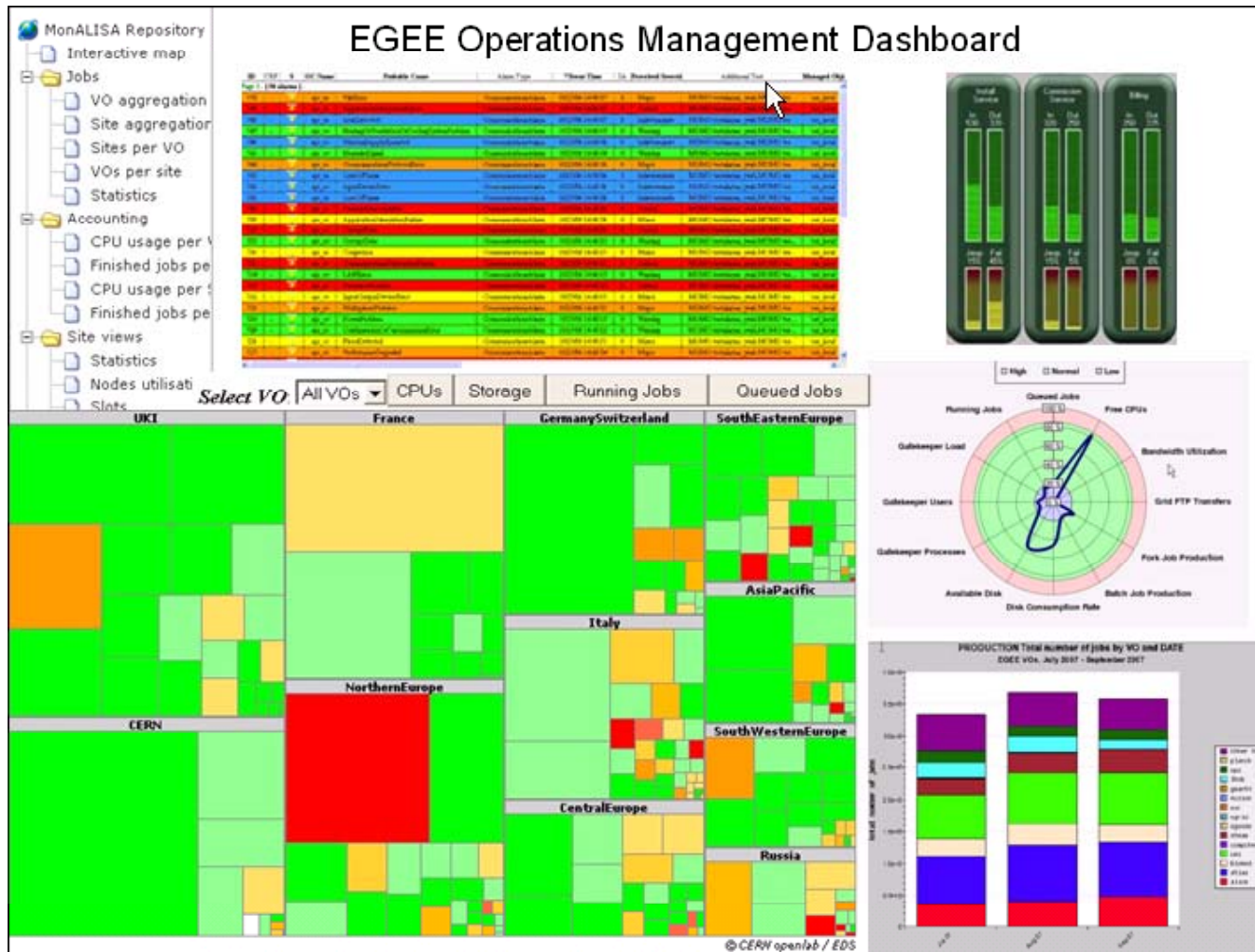
ID	VO	Job Name	Priority	Job Type	Final Time	DA	Previous Events	Additional Text	Managed On
100	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
101	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
102	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
103	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
104	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
105	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
106	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
107	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
108	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
109	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
110	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
111	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
112	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
113	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
114	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
115	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
116	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
117	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
118	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
119	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at
120	at	Fuller	Normal	CompressData	2007-08-07 14:43:07	8	Major	MONALISA repository, job: MONALISA	at



Select VO: All VOs | CPUs | Storage | Running Jobs | Queued Jobs



1st Pass at a Management View



EGEE Operations Management Dashboard

VO selection
(or All)

Explorer navigation
linked to
GridMap

EGEE Site Availability/Reliability Statistics

Site	Aug-07	Sep-07	Month-to-Date
AMD64.PSIC.PL	0.92/1.00	1.00/1.00	0.79/0.94
Australia-UHIMELB-LCG2	1.00/1.00	1.00/1.00	0.96/0.99
BEIJING-LCG2	0.04/0.3	1.00/1.00	1.00/1.00
BEgrid-ULB-VUB	1.00/1.00	0.79/0.96	0.54/0.8
etc.			

Site availability/reliability table

GStat: AEGIS01-PHY-SCL
 SiteUniqueID:
 siteName: AEGIS01-PHY-SCL
 Web: <http://scl.phy.bg.ac.yu/>
 Location: Belgrade, Serbia

Select VO:

GIIS response time(ms): ok	GIIS Entries: ok	GIIS Old Entries: ok	Total CPU Count: ok	Free CPU Count: ok	Running Jobs: ok	Waiting Jobs: ok	Total Available SE (GB): ok
2516.79	125.00	0.00	166.00	2.00	164.00	2334.00	60.00
SE Usage (GB): ok	rbHeldJobs ok	rbIdleJobs ok	rbJobController ok	rbJobs ok	rbLogMonitor ok	rbRunningJobs ok	rbWorkloadManager ok
113.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00
CE Total CPU: ok	CE Free CPU: ok	CE Running Jobs: ok	CE Waiting Jobs: ok	CE Total CPU: ok	CE Free CPU: ok	CE Running Jobs: ok	CE Waiting Jobs: ok
41.00	1.00	40.00	799.00	125.00	1.00	124.00	1535.00
MAX CPU: ok	AVG CPU: ok						
166.00	152.00						

- TIER 0
- TIER 1
- TIER 2
 - SITE A
 - SITE B
 - SITE C
 - Accounting
 - BDII
 - CE
 - CE Instance 1
 - CE Instance 2
 - SE



Region	GK#	Q#	RunJob	WaitJob	JobLoad	Power	WN#	CPU#	CPUload	Available	Total	%
SEE	2	16	164	2330	99%	118K	31	125	96%	228.5 GB	327.5 GB	50%

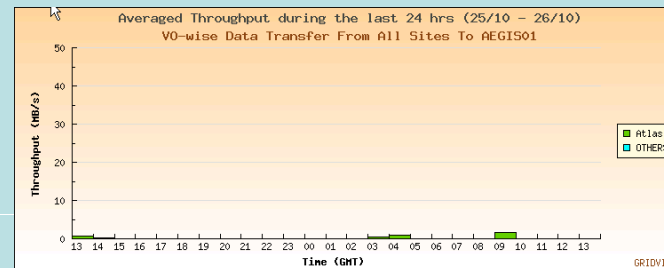
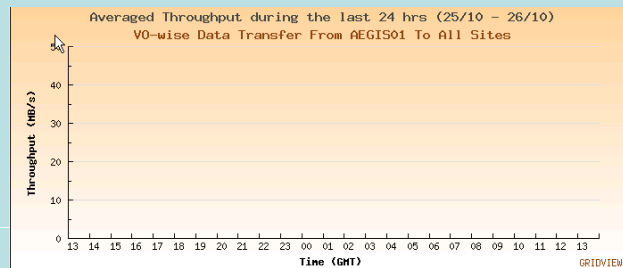
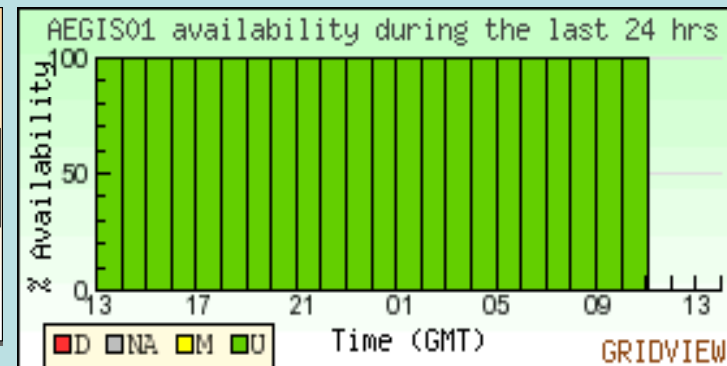
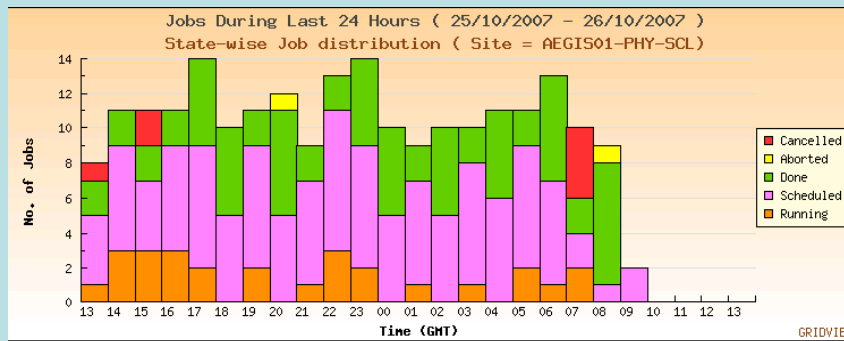
Region	GlueS100	GlueSF00	MeanS100	MeanSF00
SEE	940	840	940	840

GridVersion	Organization	Location	Status	Type
SLITE-3_1_0	LCG2	Belgrade, Serbia	Certified	Production

Broker	BDII	CE	SE	GC
Total	Total	Total	Total	Total

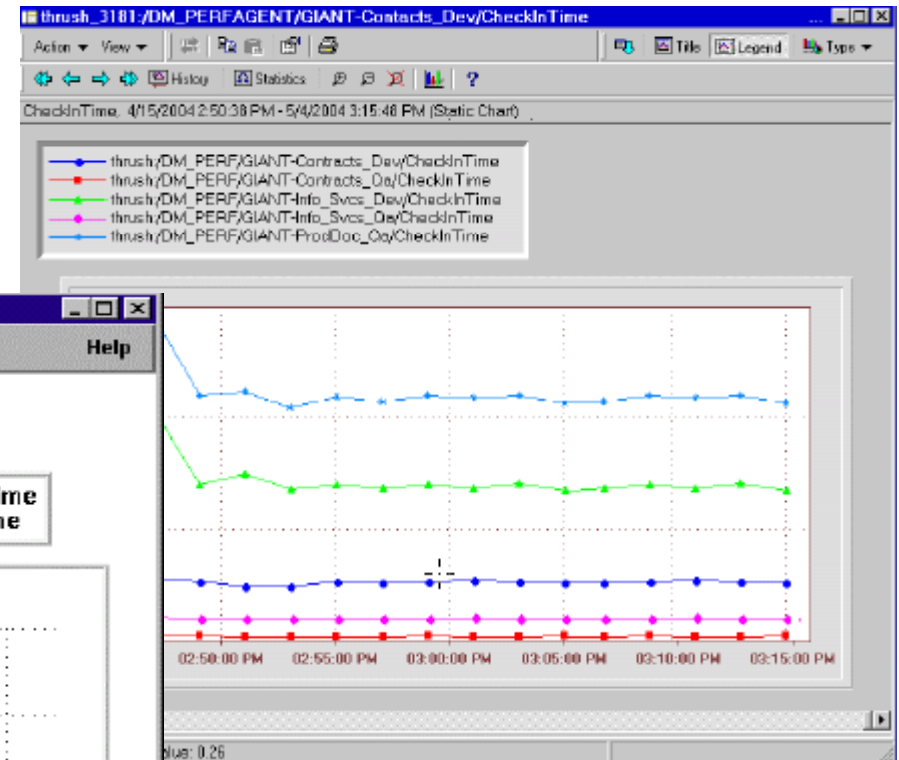
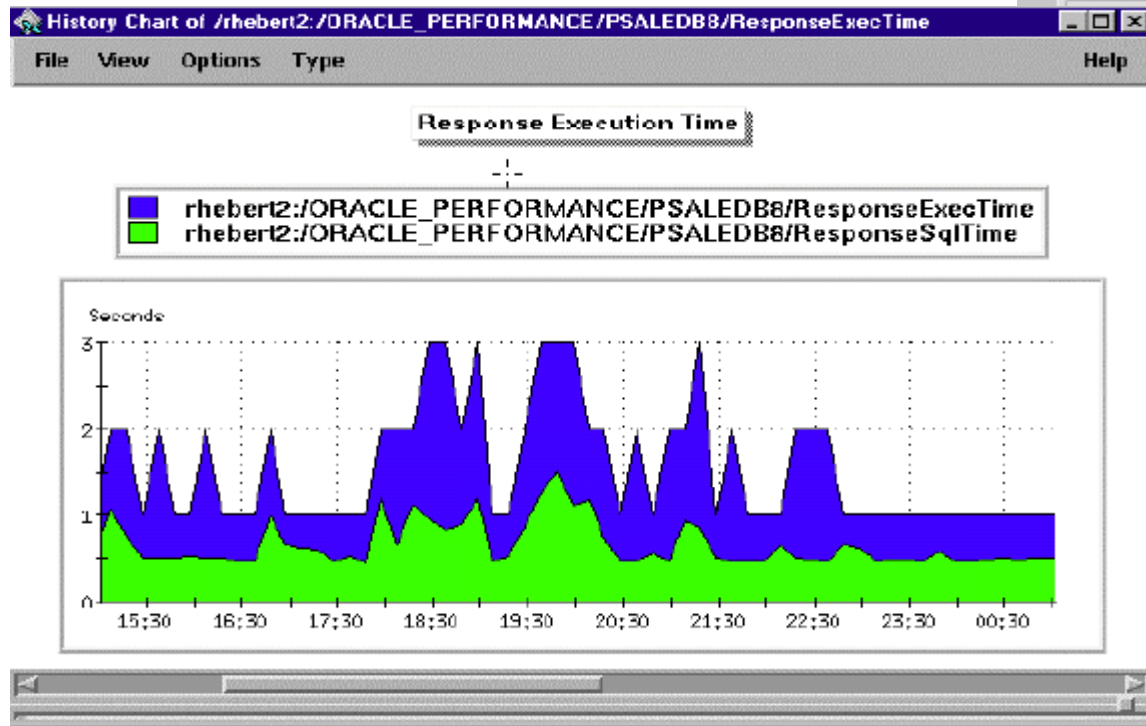
Possible site-specific pop-up

AEGIS01

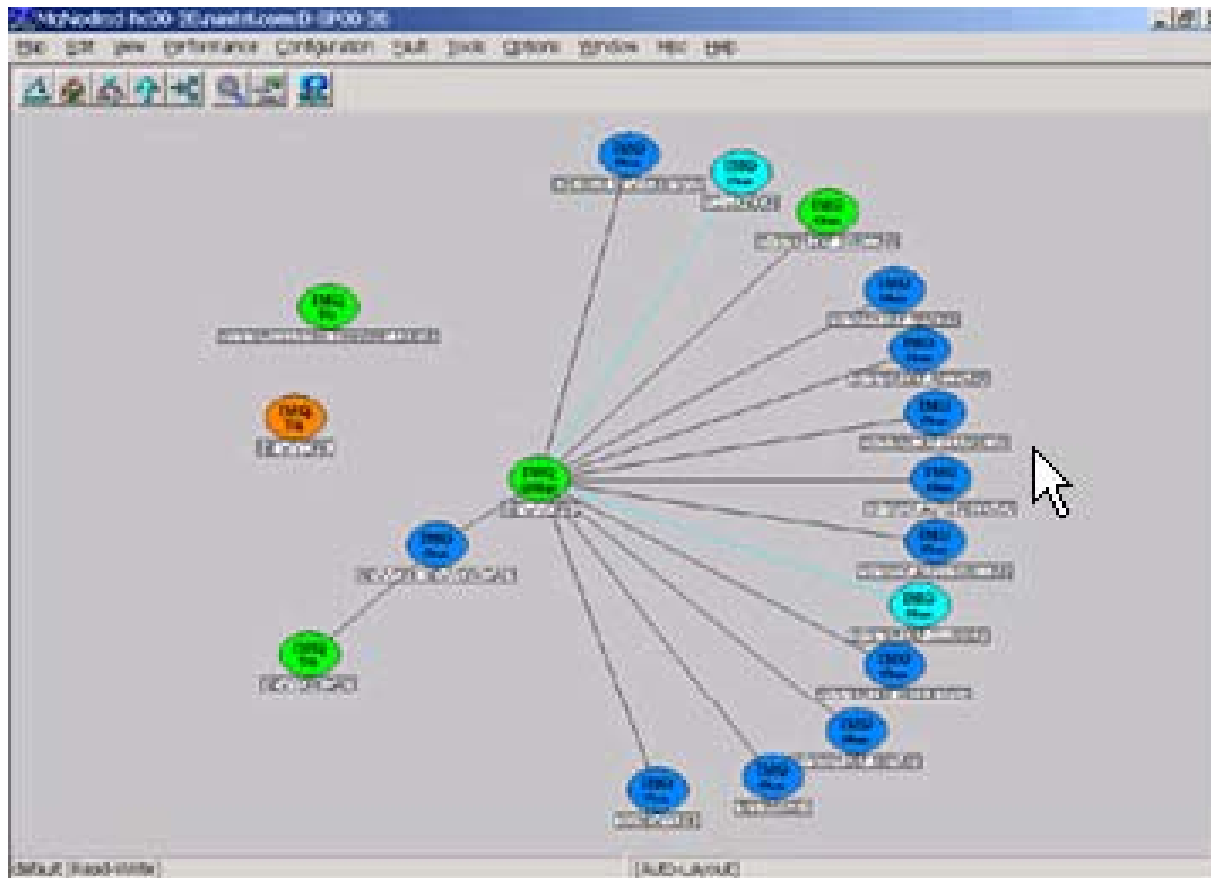


Displaying historical data

Possible ways for GridView to display graphs – note the horizontal scroll-bar that allows scrolling back in time.



Topology View

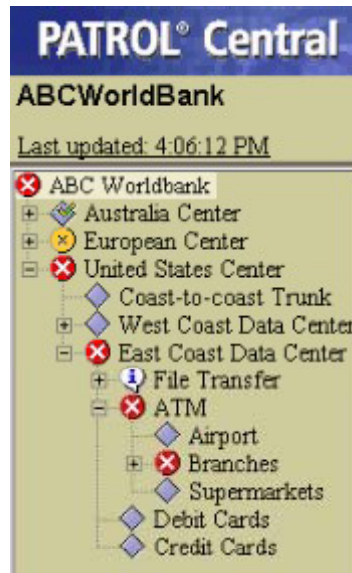


show how key components are interconnected

e.g (ui-> wms-> bdii), (sam-->wsm->bdii)

show the inter-dependencies between services.
E.g. what dies if I kill service X?

Navigation & Status



Hierarchical View , with colour-coded percolation of status

Allows quick navigation to problem element

Check tools that provide Business Process Views (eg. BMC Patrol, Unicenter TNG)

**Time for discussion and
brainstorming...**

and then lunch 😊