

# Workshop Opérations France Grilles

Cyril L'Orphelin, IN2P3



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EGI-Engage is co-funded by the Horizon 2020 Framework Programme  
of the European Union under grant number 654142



# VAPOR : Vo Administration and operations PORtal



# Vapor-Data management and job monitoring

Features inherited from the previous version - only ergonomic / look and feel changes

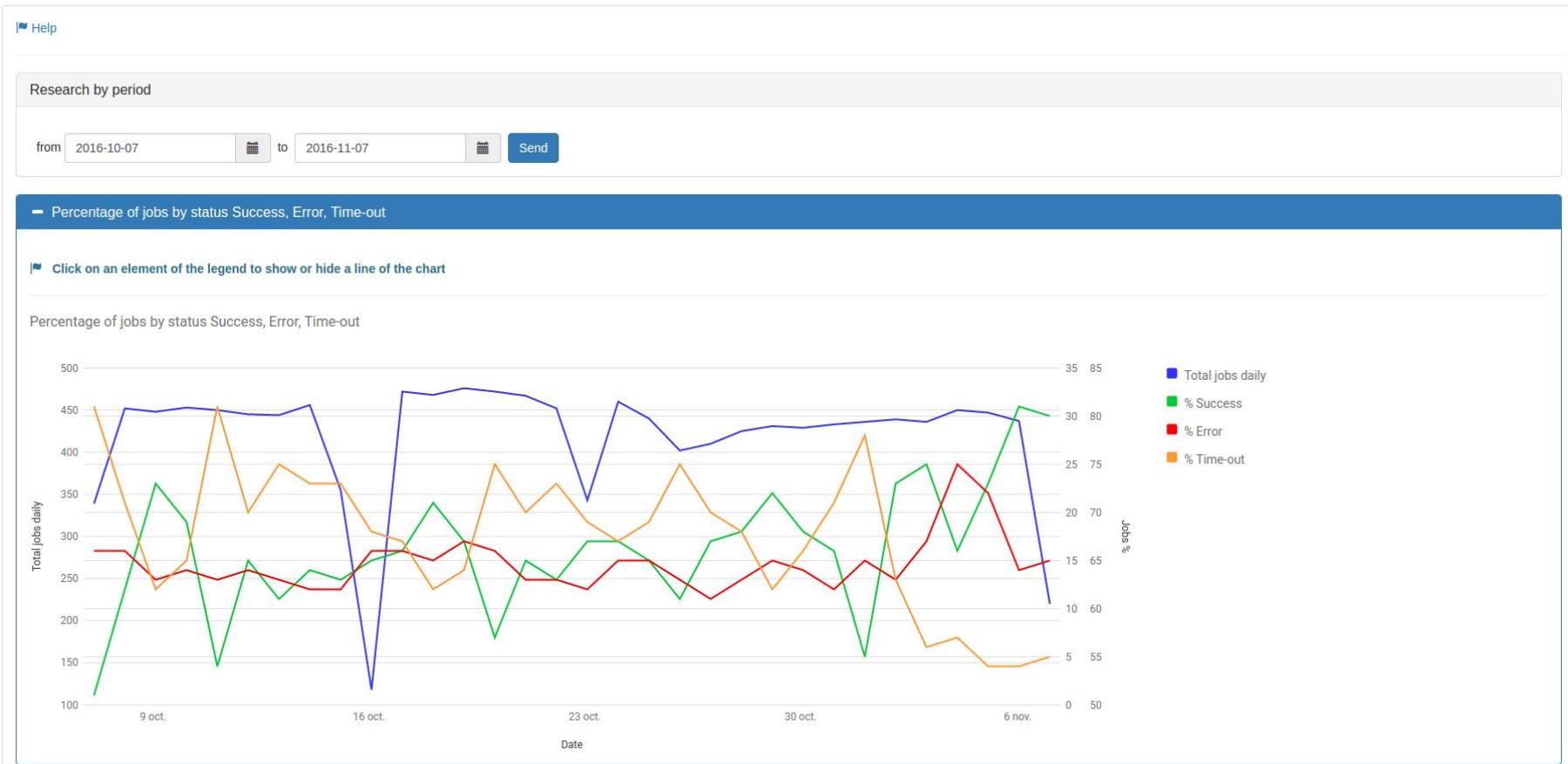
- ✓ Use of scripts to check CE / SE , evaluate SE usages
- ✓ Use of the JobMonitor tool \*\*
- ✓ The different scripts stored results into local files
- ✓ Results are exposed via the Web Service (Lavoisier)
- ✓ Results are available through reports , charts , metrics
  
- Limited to some VO : biomed, compchem, enmr.eu , shiwa-workflow.eu, vlemed, vo.france-grilles.fr, see
- Could be activated for other VO on demand

\*\* configured currently only for biomed, vlemed, enmr.eu , shiwa-workflow.eu, vo.france-grilles.fr

- **Monitoring jobs (by Tab and Graph)**
  - retrieve results of the monitoring jobs submitted by VAPOR to each CREAM CE queue 4 time(s) a day, during the period selected.
- **Running and Waiting Job Ratio**
  - Reports the evolution of the number of running jobs (R) and waiting jobs (W), over the selected period of time, for the VO
- **List of CEs « working fine » at the moment**

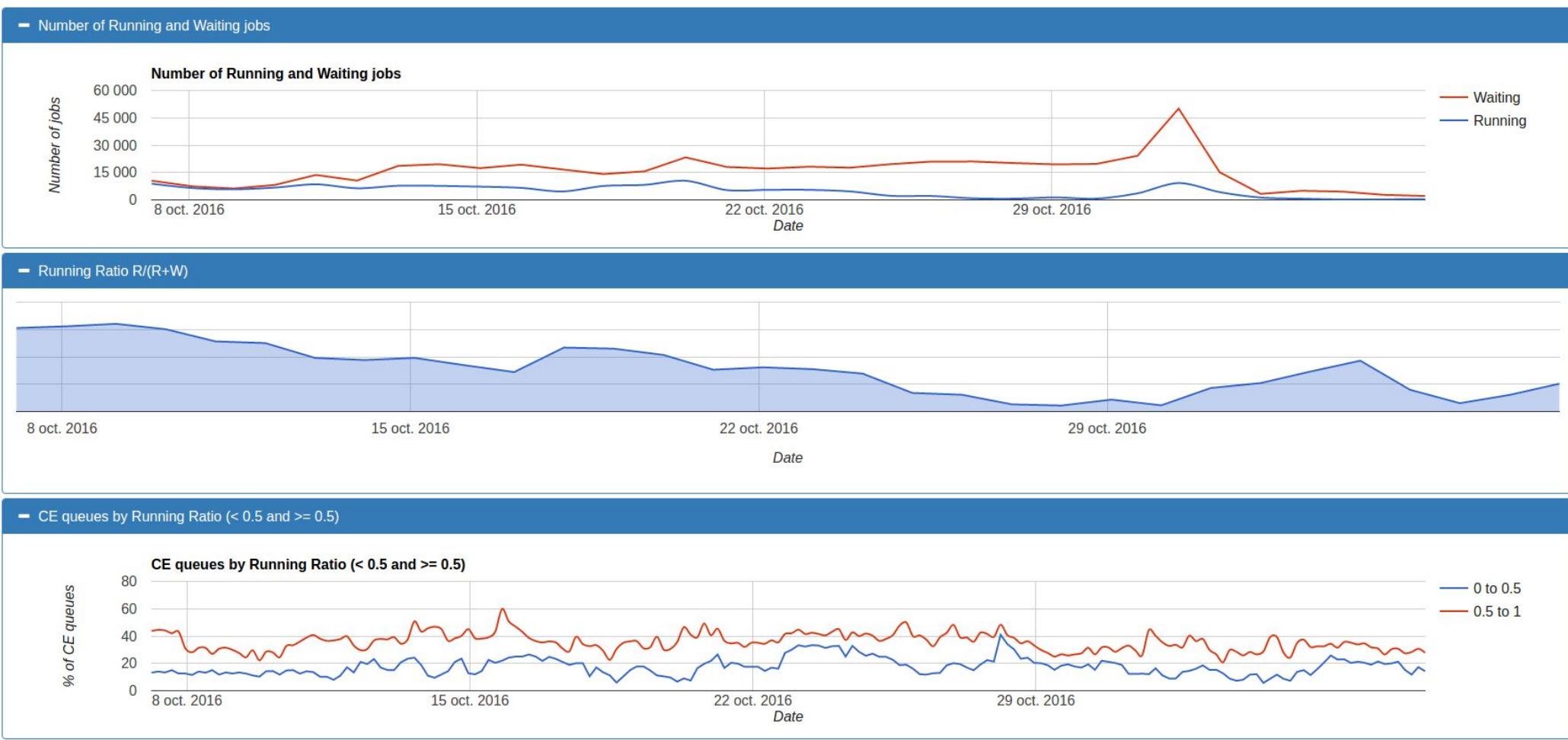
# Job Monitoring : Status distribution

Link : <https://operations-portal.evi.eu/vapor/jobmon/vaporJobMonStatusPerDateDyGraph>



# Job Monitoring : Running Ratio

Link : <https://operations-portal.evi.eu/vapor/jobmon/vaporJobMonRunningRatioPerDateDyGraph>



# Job Monitoring : CE White List

Link : <https://operations-portal.egi.eu/vapor/jobmon/vaporJobMonWhiteListCEs>

Research by job success rate & consecutive successful jobs

Minimum jobs success rate:  during the last  day(s).  
 The last  consecutive jobs were successful.

[View White List](#) [View Download Url](#)

[Result Tab Help](#)

[Column visibility](#) [Copy](#) [Excel](#)

Search:

CE hostname	Queue	Job success rate	Number of jobs run during the period
atlandce.fis.puc.cl	cream-pbs-biomed	1.0000	14
cccreamceli09.in2p3.fr	cream-sge-long	0.9286	14
cccreamceli10.in2p3.fr	cream-sge-long	0.9286	14
cce.ihep.ac.cn	cream-pbs-biomed	1.0000	14
ce-01.recas.ba.infn.it	cream-condor-biomed	1.0000	14
ce-02.recas.ba.infn.it	cream-condor-biomed	1.0000	14
ce.ceta-ciemat.es	cream-sge-biomed	1.0000	14
ce.irb.egi.cro-ngi.hr	cream-pbs-hndl580	1.0000	14
ce.irb.egi.cro-ngi.hr	cream-pbs-sunx2200	1.0000	14
ce0.m3pec.u-bordeaux1.fr	cream-pbs-biomed	1.0000	14

Showing 1 to 10 of 64 entries

Previous [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) Next

- **SE Scan operations and reports :**
  - identify heavily loaded Storage Elements
  - identify heavily users on those SE
- **Dark data and lost files history :**
  - Track **dark data**, i.e. files stored on SEs but no longer registered in the file catalog.  
Optionally, the dark data files can be automatically deleted from the SE.
  - Track **lost files**, i.e. files registered in the file catalog but with no more physical replicate.

# SE Scan operations and reports

Link : <https://operations-portal.egi.eu/vapor/jobmon/vaporDataManSEsScanHistory>

2016-08-06 05:01:29	0	0	68	<a href="#">view report</a>
2016-08-01 02:01:26	80	0.1	11	<a href="#">view report</a>
2016-07-06 05:01:28	0	0	69	<a href="#">view report</a>
2016-07-01 02:01:25	80	0.1	14	<a href="#">view report</a>

Showing 1 to 10 of 69 entries

Previous [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) Next

— Catalog-based SE scan: 2016-08-01 02:01:26

<a href="#">Column visibility</a>	<a href="#">Copy</a>	<a href="#">Excel</a>	<a href="#">Search:</a>
Show <a href="#">10</a> entries			
Hostname	% Used Space	Used Space (GB)	Free Space (GB)
dc2-grid-64.brunel.ac.uk	80	802681	197646
dcache-se-desy.desy.de	96	46587	1566
grid05.lal.in2p3.fr	89	64994	8481
lcgse0.shef.ac.uk	94	49058	2956
lpsc-se-dpm-server.in2p3.fr	84	9761	1772
sbgse1.in2p3.fr	85	1292160	220992
se.hpgcc.finki.ukim.mk	100	271	0
se01.grid.auth.gr	85	4277	721
se03.esc.qmul.ac.uk	88	884	116
storm-01.roma3.infn.it	100	392	-3

Showing 1 to 10 of 11 entries

# Dark data and lost files history

Link : <https://operations-portal.egi.eu/vapor/jobmon/vaporDataManSEsCleanupHistory>

2015-01-10 04:00:02	12	60	<a href="#">view report</a>
2014-10-10 04:00:01	12	62	<a href="#">view report</a>
2014-07-15 14:46:01	12	60	<a href="#">view report</a>
2014-05-12 18:03:01	12	68	<a href="#">view report</a>

Showing 1 to 9 of 9 entries

[Previous](#) 1 [Next](#)

Dark data/lost files report on 2016-04-25 16:30:01						
	Column visibility	Copy	Excel	Search:		
	Show	10	▼ entries			
details	Site	Hostname	Access Protocol	Free Space Before (GB)	Free Space after (GB)	Total Space (GB)
	LIP-Lisbon	se05.lip.pt	gsiftp	40	N/A	126
	SCAI	glite-se.scai.fraunhofer.de	gsiftp	3788	N/A	4722
	BEIJING-LCG2	ccsrn.ihep.ac.cn	gsiftp	518	N/A	599
	MK-03-FINKI	se.hgcc.finki.ukim.mk	gsiftp	0	N/A	271
	UKI-LT2-IC-HEP	gfe02.grid.hep.ph.ic.ac.uk	gsiftp	33417	N/A	53234
	IN2P3-CC	ccsrn02.in2p3.fr	gsiftp	773	N/A	2199
	DESY-HH	dcache-se-desy.desy.de	gsiftp	12951	12952	48161
	UPorto	hades.up.pt	gsiftp	7865	7865	8356
	CBPF	se.cat.cbpf.br	gsiftp	6923	6923	7034
	GE-01-GRENA	se.sg.grena.ge	gsiftp	5432	5432	7675

- Information extracted from BDII - GLUE2
  - > Ldap queries with different filters :
    - objectClass=GLUE2StorageShareCapacity
    - objectClass=GLUE2ComputingShare
    - ObjectClass=GLUE2StorageServiceCapacity
    - ObjectClass=GLUE2Location
    - [...]
- Then results are stored in Lavoisier and aggregated per NGI, site, Countries, endpoints ...
- We remove inconsistencies and incoherencies
- We add also corrections to bad publications (values published in the bad class, values published twice)

# Vapor - Resource Overview

Resource Overview > [Map](#)

- 1 st Map with the number of sites per Country
- 2nd Map accessible on click with the details of each country
- A table summarizes also the information

Resource Overview > [Table](#)

- Form with a choice of NGI or VO
- Then the summary of resources for this NGI or VO
- For the NGI > site view > services > Vo, VOMS group supported
- For the VO > list of services supporting this VO

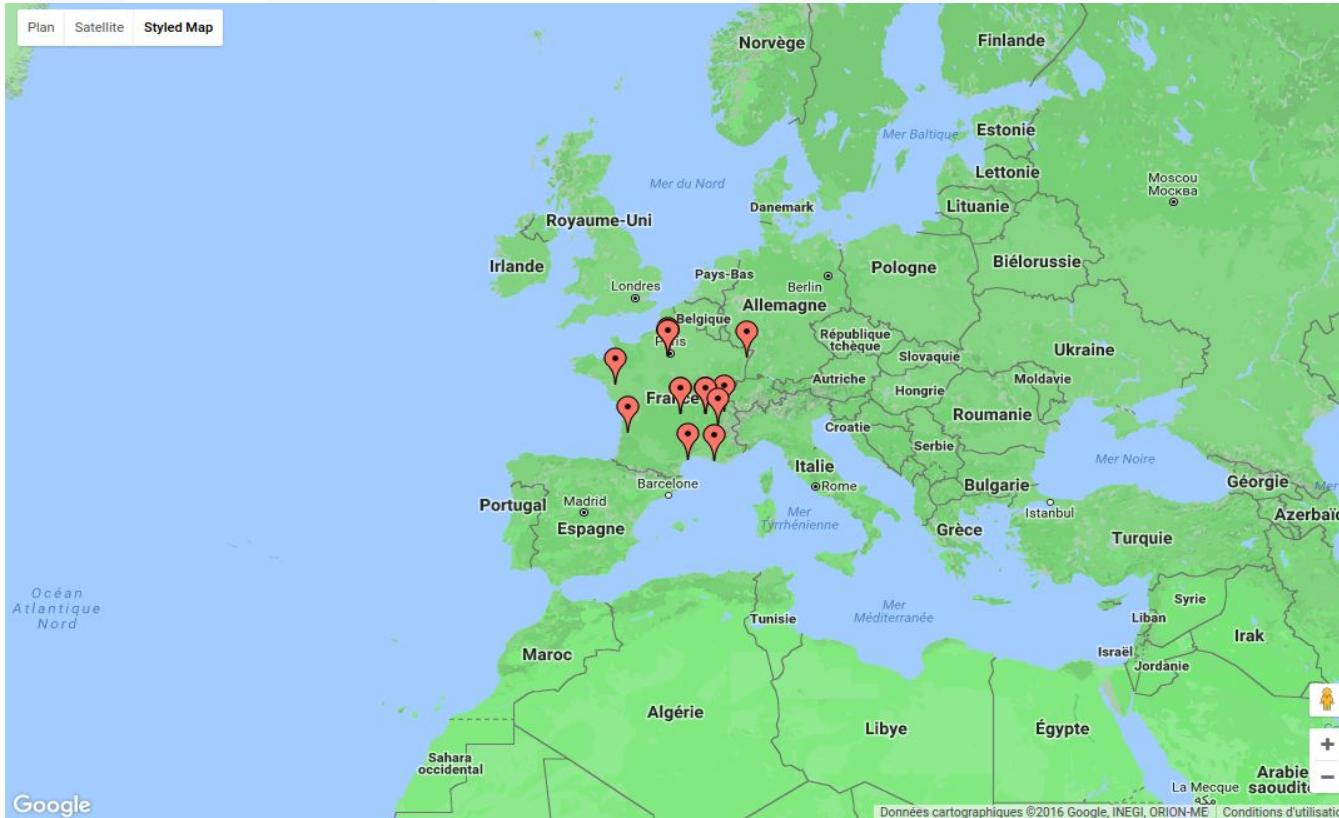
Resource Overview > [Distribution](#)

- Distribution of vo supported per NGI / the list of Vo supported by sites
- Links to the resource browser

Resource Overview > [Figures](#)

- Table/Chart summarizing CPU Benchmark, CPU capacities, Storage Capacities and Jobs Status
- Different levels > NGI > Sites or countries

# Resource Overview > Map



Show 10 entries

Search:

Site	Description	OC	Longitude	Latitude	Logical CPU	Physical CPU	Country	Sub Region Code	Tier	Url
AUVERGRID	AUVERGRID	NGI_FRANCE	3.08	45.78	212	36	france	FR	NA	<a href="http://www.auvergrid.fr">http://www.auvergrid.fr</a>
CREATIS-INSA-LYON	CREATIS grid site	NGI_FRANCE	4.8422	45.78	96	24	france	FR	NA	<a href="http://www.creatis.insa-lyon.fr">http://www.creatis.insa-lyon.fr</a>
GRIF	Grille au service de la Recherche en Ile de France	NGI_FRANCE	2.170686	48.699262	N/A	N/A	france	FR	2	<a href="http://grif.fr/">http://grif.fr/</a>
GRIF-APC	Grille au service de la Recherche en Ile de France	NGI_FRANCE	2.170686	48.699262	N/A	N/A	france	FR	NA	<a href="http://grif.fr/">http://grif.fr/</a>
GRIF-IPNO	Grille au service de la Recherche en Ile de France	NGI_FRANCE	2.170686	48.699262	N/A	N/A	france	FR	NA	<a href="http://grif.fr/">http://grif.fr/</a>



## Resource Overview > Table

NGI

NGI\_FRANCE

Search

Operations Center Information

XML JSON CSV

AUVERGRID || france

Site Information

XML JSON CSV

HostName	Service Type	VO or Roles supported
cirigrdce01.univ-bpclermont.fr	org.glite.ce.CREAM	dteam /auvergrid/Role=lcgadmin
cirigrdse01.univ-bpclermont.fr	DPM	ops Roles : N/A
crrisbdii.univ-bpclermont.fr	bdii_site	VO : N/A Roles : N/A

Showing 1 to 3 of 3 entries

CREATIS-INSA-LYON || france

Site Information

XML JSON CSV

GRIF || france

Site Information

XML JSON CSV

# Resource Overview > Distribution

Excel

 Search: 

List of Sites	opsg	lhcb	dzero	atlas	dteam	alice	biomed	auvergrid	vo.france-gilles.fr	cms	ilc	fusion	vo.gril.fr	hamo.cea.fr	vo.cta.in2p3.fr	vo.lal.in2p3.fr	vo.hegriid.eu	vo.ipno.in2p3.fr	vo.hess-experiment.eu	vo.apc.univ-paris7.fr	vo.deploymenttest.cea.fr	vo.formation.tdrilles.fr	gem4d	vo.llr.in2p3.fr	vo.ipnhe.in2p3.fr	astro.vo.eu-egi.org	auger	calice	compcem
AUVERGRID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
CREATIS-INSA-L...	✓	✗	✗	✗	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
GRIF-IRFU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
GRIF-LAL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
GRIF-LLR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
GRIF-LPNHE	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-CC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-CC-T2	✓	✗	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
IN2P3-CPPM	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-IPNL	✓	✗	✓	✓	✗	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-IRES	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-LAPP	✓	✓	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
IN2P3-LPC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-LPSC	✓	✗	✗	✓	✓	✓	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IN2P3-SUBATECH	✓	✗	✗	✗	✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
M3PEC	✓	✗	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
OBSPM	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Showing 1 to 17 of 17 entries

# Resource Overview > Figures

## Resources Summary by Site for Operations Center NGI\_FRANCE

[Resources Summary by Operations Centre](#) / [Resources Summary by Site of Operations Centre NGI\\_FRANCE](#)

Table

Chart

🔗 hyperlink

[Column visibility](#) [Copy](#) [Excel](#)

Search:

Show  entries

Name	Benchmark				CPUs		Service Store Online ⓘ			Service Store Nearline			Jobs		
	Country	HEPSPEC2006	SI2000	Logical	Physical	Used	Free	Total	Used	Free	Total	Waiting	Running	Total	
AUVERGRID	france	8	2025	212	36	5354	14214	19569	0	0	0	12	191	203	
CREATIS-INSA-LYON	france	7	1730	96	24	NA	NA	NA	NA	NA	NA	0	2	2	
GRIF	france	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GRIF-APC	france	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GRIF-IPNO	france	NA	NA	NA	NA	8014	10690	18704	0	0	0	NA	NA	NA	
GRIF-IRFU	france	72188	5156	12528	1024	1878407	1277176	3155588	0	0	0	526	3539	4066	
GRIF-LAL	france	128	4005	16	4	882300	189103	1071408	0	0	0	373	909	1282	
GRIF-LLR	france	230	4425	1180	180	1191478	74119	1265601	0	0	0	0	1808	1808	
GRIF-LPNHE	france	31760	2500	3176	294	1230829	274420	1505256	0	0	0	791	1659	2450	
IN2P3-CC	france	55717	7795	11832	1107	NA	NA	NA	NA	NA	NA	9105	16499	25604	

Showing 1 to 10 of 21 entries

Previous [1](#) [2](#) [3](#) Next

# Resource Overview > Figures

## Resources Summary by Site for Operations Center NGI\_FRANCE

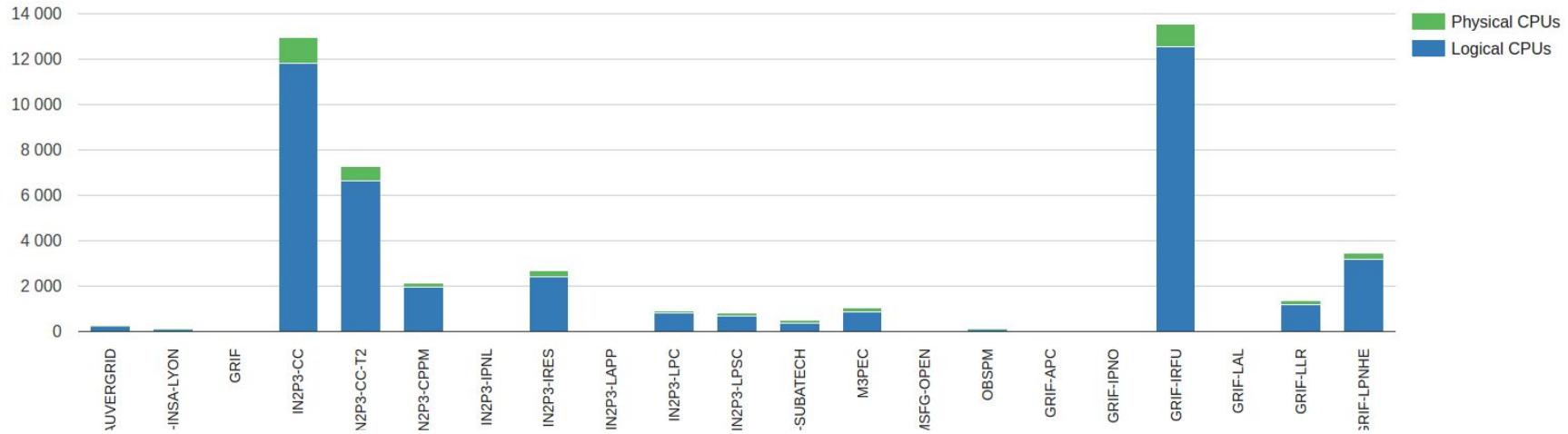
[Resources Summary by Operations Centre](#) / [Resources Summary by Site of Operations Centre NGI\\_FRANCE](#)

Table

Chart

🔗 [hyperlink](#)

**Logical and Physical CPUs by site**



# Vapor - Resource Explorer

Resource Explorer > [Top Bdii browser](#)

- Top Bdii Tree browsers (GLUE2Benchmark , GLUE2StorageEndpoints, GLUE2DataStore, GLUE2ShareCapacity)
- Possibilities of exports (Json or XML)

Resource Explorer > [by Operations Centre/Sites](#)

- Detailed information about resources that support a site
- Computing Elements , Storage Elements, Services (VOMS , LFC ...), Faulty resources, Cloud resources

Resource Explorer > [By VO](#)

- Detailed information about resources available for a VO
- Computing Elements , Storage Elements, Faulty resources, Cloud resources

Resource Explorer > [Faulty Resources](#)

- List of resources which are not published properly - bad/default/negative values - incoherencies in the storage space

Resource Explorer > [Cloud Resources](#)

- Detailed information about cloud resources

# Resource Explorer > Top Bdii browser

GLUE2Benchmark i

i XML export j JSON export

AEGIS01-IPB-SCL i

i XML export j JSON export

cream.ipb.ac.rs\_ComputingElement i

i XML export j JSON export

cream.ipb.ac.rs\_specfp2000 i

i XML export j JSON export

EntityCreationTime	2016-03-28T10:01:11Z
EntityOtherInfo	<ul style="list-style-type: none"> <li>InfoProviderName=glite-ce-glue2-benchmark-static</li> <li>InfoProviderVersion=1.1</li> <li>InfoProviderHost=cream.ipb.ac.rs</li> </ul>
EntityName	Benchmark specfp2000
BenchmarkComputingManagerForeignKey	cream.ipb.ac.rs_ComputingElement_Manager
BenchmarkType	specfp2000
BenchmarkValue	2200
objectClass	<ul style="list-style-type: none"> <li>GLUE2Entity</li> <li>GLUE2Benchmark</li> </ul>

GLUE2StorageEndpoints i

i XML export j JSON export

GLUE2ShareCapacity i

i XML export j JSON export



EGI-ENGAGE

# Resource Explorer > by Operations Centre/Sites

Column visibility Copy Excel Search:

Show 10 entries

Service									Shares
Site Name	Service Name	Service Type	Capacity Used Size	Capacity Free Size	Capacity Reserved Size	Capacity Total Size	Capacity Distribution	Quality	Details
AUVERGRID	cirigriddse01.univ-bpclermont.fr	N.A.	5369	14431	0	19800	<div style="width: 75%; background-color: #2e7131; height: 10px;"></div>	production	

Showing 1 to 2 of 2 entries Previous 1 Next

Shares of service : cirigriddse01.univ-bpclermont.fr

Column visibility Copy Excel Search:

Show 10 entries

Size					
Name	Used	Free	Reserved	Total	Distribution
cirigriddse01.univ-bpclermont.fr/vo.france-grilles.fr/Pool-FranceGr	9	1090	0	1099	<div style="width: 90%; background-color: #2e7131; height: 10px;"></div>

Showing 1 to 1 of 1 entries Previous 1 Next

Cloud 0.0

Computing 1.0

Storage 1.0

Other 1.0

Faulty Computing

Faulty Storage

+ CREATIS-INSA-LYON

# Faulty Resources

[Help](#)
[Computing Share](#)   [Storage Capacities](#)
[Column visibility](#)   [Copy](#)   [Excel](#)

Search: 

Show 10 entries

Site	Share		Endpoint										Jobs					CPUs		
	Site Name	Share Name	Description	Health State	Endpoint Name	URL	Status	Implementation	Entity Creation Time	Middleware	Argus	Running	Max Running	Waiting	Max Waiting	Total	Max Total	Max Time	Default Time	
TR-03-METU	ops_ops_cox01.grid.metu.edu.tr	Share of ops for ops	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	0	999999999	0	999999999	0	999999999	999999999	999999999		
TR-03-METU	cms_cms_cox01.grid.metu.edu.tr	Share of cms for cms	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	6	999999999	0	999999999	6	999999999	999999999	999999999		
TR-03-METU	see_see_cox01.grid.metu.edu.tr	Share of see for see	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	1	999999999	0	999999999	1	999999999	999999999	999999999		
TR-03-METU	dteam_dteam_cox01.grid.metu.edu.tr	Share of dteam for dteam	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	0	999999999	0	999999999	0	999999999	999999999	999999999		
TR-03-METU	atlas_atlas_cox01.grid.metu.edu.tr	Share of atlas for atlas	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	0	999999999	0	999999999	0	999999999	999999999	999999999		
TR-03-METU	biomed_biomed_cox01.grid.metu.edu.tr	Share of biomed for biomed	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	0	999999999	0	999999999	0	999999999	999999999	999999999		
UPorto	ops_ops_ce02.up.pt_ComputingElement	Share of ops for ops	<span>ok</span>	ce02.up.pt_org.glide.ce.CREAM	https://ce02.up.pt:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:48:27Z	EMI 3.15.0-1.e16	<span>FALSE</span>	0	999999999	0	999999999	0	999999999	999999999	999999999		
egee.fesb.hr	sunx2200_cms_ce.fesb.egi.cro-ngi.hr	Share of sunx2200 for cms	<span>ok</span>	ce.fesb.egi.cro-ngi.hr_org.glide.ce.CREAM	https://ce.fesb.egi.cro-ngi.hr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:45:50Z	EMI 3.15.0-1.e16	<span>FALSE</span>	0	999999999	44444	999999999	0	999999999	999999999	999999999		
egee.fesb.hr	sunx2200_ops_ce.fesb.egi.cro-ngi.hr	Share of sunx2200 for ops	<span>ok</span>	ce.fesb.egi.cro-ngi.hr_org.glide.ce.CREAM	https://ce.fesb.egi.cro-ngi.hr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:45:50Z	EMI 3.15.0-1.e16	<span>FALSE</span>	0	999999999	44444	999999999	0	999999999	999999999	999999999		
TR-03-METU	trgridd_trgridd_cox01.grid.metu.edu.tr	Share of trgridd for trgridd	<span>ok</span>	cox01.grid.metu.edu.tr_org.glide.ce.CREAM	https://cox01.grid.metu.edu.tr:8443/ce-cream/services	<span>production</span>	CREAM 1.16.4	2016-11-07T14:46:40Z	EMI 3.17.1-1.e16	<span>FALSE</span>	0	999999999	0	999999999	0	999999999	999999999	999999999		

Showing 1 to 10 of 628 entries

[Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) ... [63](#) [Next](#)

# Cloud Resources

[Help](#)
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Search: 

Show **10** entries

Site	Entity											Interface		
	Site Name	Cloud ID	URL	Authentication	Implementation Version	HealthState	Quality Level	Technology	Capability	Serving State	Implementor	Interface Name	Interface Version	
100IT	<a href="https://occi-api.100percentit.com:8787/occi1.1/_OCCI_1.1_X509-VOMS">https://occi-api.100percentit.com:8787/occi1.1/_OCCI_1.1_X509-VOMS</a>	<a href="https://occi-api.100percentit.com:8787/occi1.1/">https://occi-api.100percentit.com:8787/occi1.1/</a>	X509-VOMS	Juno	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem', 'cloud.vm.uploadImage']</code>	<span>production</span>	OpenStack	OCCI	1.1		
BEgrid-BELNET	<a href="https://rocci.ihe.ac.be:11443_OCCI_1.1_X509-VOMS">https://rocci.ihe.ac.be:11443_OCCI_1.1_X509-VOMS</a>	<a href="https://rocci.ihe.ac.be:11443">https://rocci.ihe.ac.be:11443</a>	X509-VOMS	5.0.2	<span>ok</span>	<span>testing</span>	<span>None</span>	<code>['cloud.managementSystem']</code>	<span>testing</span>	OpenNebula Team	OCCI	1.1		
BIFI	<a href="http://server4-eupt.unizar.es:8787/_OCCI_1.1_X509-VOMS">http://server4-eupt.unizar.es:8787/_OCCI_1.1_X509-VOMS</a>	<a href="http://server4-eupt.unizar.es:8787/">http://server4-eupt.unizar.es:8787/</a>	X509-VOMS	icehouse	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem', 'cloud.vm.uploadImage']</code>	<span>production</span>	OpenStack	OCCI	1.1		
CESGA	<a href="https://cloud.cesga.es:3202_OCCI_1.1_X509-VOMS">https://cloud.cesga.es:3202_OCCI_1.1_X509-VOMS</a>	<a href="https://cloud.cesga.es:3202">https://cloud.cesga.es:3202</a>	X509-VOMS	4.12.1	<span>ok</span>	<span>production</span>	<span>None</span>	<code>['cloud.managementSystem']</code>	<span>production</span>	OpenNebula Team	OCCI	1.1		
CESNET-MetaCloud	<a href="https://carach5.ics.muni.cz:11443_OCCI_1.1_X509-VOMS">https://carach5.ics.muni.cz:11443_OCCI_1.1_X509-VOMS</a>	<a href="https://carach5.ics.muni.cz:11443">https://carach5.ics.muni.cz:11443</a>	X509-VOMS	4.1	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem']</code>	<span>production</span>	OpenNebula Team	OCCI	1.1		
CETA-GRID	<a href="https://controller.ceta-ciemat.es:8787/_OCCI_1.1_X509-VOMS">https://controller.ceta-ciemat.es:8787/_OCCI_1.1_X509-VOMS</a>	<a href="https://controller.ceta-ciemat.es:8787/">https://controller.ceta-ciemat.es:8787/</a>	X509-VOMS	icehouse	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem', 'cloud.vm.uploadImage']</code>	<span>production</span>	OpenStack	OCCI	1.1		
CYFRONET-CLOUD	<a href="https://control.cloud.cyfronet.pl:8787/_OCCI_1.1_X509-VOMS">https://control.cloud.cyfronet.pl:8787/_OCCI_1.1_X509-VOMS</a>	<a href="https://control.cloud.cyfronet.pl:8787/">https://control.cloud.cyfronet.pl:8787/</a>	X509-VOMS	juno	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem', 'cloud.vm.uploadImage']</code>	<span>production</span>	OpenStack	OCCI	1.1		
FZJ	<a href="https://fsd-cloud.zam.kfa-juelich.de:8787/_OCCI_1.1_X509-VOMS">https://fsd-cloud.zam.kfa-juelich.de:8787/_OCCI_1.1_X509-VOMS</a>	<a href="https://fsd-cloud.zam.kfa-juelich.de:8787/">https://fsd-cloud.zam.kfa-juelich.de:8787/</a>	X509-VOMS	icehouse	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem', 'cloud.vm.uploadImage']</code>	<span>production</span>	OpenStack	OCCI	1.1		
GoeGrid	<a href="https://occi.cloud.gwdg.de:3100_OCCI_1.1_X509-VOMS">https://occi.cloud.gwdg.de:3100_OCCI_1.1_X509-VOMS</a>	<a href="https://occi.cloud.gwdg.de:3100">https://occi.cloud.gwdg.de:3100</a>	X509-VOMS	4.4	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem']</code>	<span>production</span>	OpenNebula Team	OCCI	1.1		
HG-09-Okeanos-Cloud	<a href="https://okeanos-occi2.hellasgrid.gr:9000_OCCI_1.1_X509-VOMS">https://okeanos-occi2.hellasgrid.gr:9000_OCCI_1.1_X509-VOMS</a>	<a href="https://okeanos-occi2.hellasgrid.gr:9000">https://okeanos-occi2.hellasgrid.gr:9000</a>	X509-VOMS	0.15	<span>ok</span>	<span>production</span>	<span>REST</span>	<code>['cloud.managementSystem', 'cloud.vm.uploadImage']</code>	<span>production</span>	Synnefo	OCCI	1.1		

Showing 1 to 10 of 23 entries

[Previous](#) [1](#) [2](#) [3](#) [Next](#)

## VAPOR : Next Steps

- Improve the job monitoring scripts
- Improve the detection/correction of inconsistencies of the GLUE2 publication
- In next version : a public API

Contact : [cic-information@cc.in2p3.fr](mailto:cic-information@cc.in2p3.fr)