

Support to the Infrastructure

WP5 - SA2

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Maintenance and monitoring of the core infrastructure

- ❑ **Monitoring services (Nagios) are up & running**
(<https://voparis-vamdc-monitoring.obspm.fr/>)
- ❑ **The new services are included periodically**
- ❑ **The reports are accessible to the data providers**
- ❑ **The technical contact for the service receives an alert in case of failure.**

Task 1

Task 2

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Task 5

Current Network Status

Last Updated: Mon Feb 13 17:20:41 CET 2012
Updated every 90 seconds
Nagios® Core™ 3.3.1 - www.nagios.org
Logged in as Jesidaner

[View History For all hosts](#)
[View Notifications For All Hosts](#)
[View Host Status Detail For All Hosts](#)

Host Status Totals

Up	Down	Unreachable	Pending
22	0	0	0
All Problems		All Types	
0		22	

Service Status Details For All Hosts

Host	Service	Status	Last Check	Duration
CDS	CDS-tap	OK	02-13-2012 17:12:24	0d 0h 28m 17s
OA_Cagliari_PAH	Theoretical spectral database of polycyclic aromatic hydrocarbons	OK	02-13-2012 17:20:14	14d 5h 10m 27s
SMPO	Spectroscopy and Molecular Properties of Ozone	OK	02-13-2012 17:20:14	15d 13h 0m 27s
axis_xms	AXIS optical spectra XMM	OK	02-13-2012 17:18:14	0d 9h 22m 27s
basecol-tap	Basecol-tap-availability	OK	02-13-2012 17:17:24	3d 6h 48m 27s
	tomcat-mld	OK	02-13-2012 17:12:14	3d 6h 48m 27s
carbon_cluster	Theoretical spectral database of pure carbon clusters	OK	02-13-2012 17:20:14	14d 5h 10m 27s
cdms	CDMS: Cologne database for molecular spectroscopy	OK	02-13-2012 17:18:14	0d 19h 12m 27s
cdms-tap	CDMS-tap-availability	OK	02-13-2012 17:18:14	27d 11h 0m 58s
	CDMS-tap-availability-django	OK	02-13-2012 17:16:42	0d 3h 23m 59s
chianti	CHIANTI-tap-availability	OK	02-13-2012 17:18:14	0d 0h 22m 27s
dijon_methane_lines	dijon-methane-lines tap availability	OK	02-13-2012 17:17:46	20d 8h 28m 27s
ghosst-tap	ghosst-tap-availability	OK	02-13-2012 17:19:59	0d 1h 20m 42s
kida	kida-tap	OK	02-13-2012 17:16:40	0d 0h 24m 1s
stark_b	Stark-B-TAP	OK	02-13-2012 17:20:10	0d 0h 0m 31s
tipbase	TIPbase-tap	OK	02-13-2012 17:13:08	0d 0h 57m 33s
topbase	TOPbase-tap	OK	02-13-2012 17:18:08	0d 0h 52m 33s
umist	UMIST Database for Astrochemistry	OK	02-13-2012 17:18:14	23d 4h 52m 27s
umist-host-TAP	UMIST-tap-availability	OK	02-13-2012 17:12:32	0d 5h 24m 27s
vald_moscow	VALD acces in Moscow	OK	02-13-2012 17:17:32	18d 4h 26m 27s
vald_uppsala	VALD acces in Uppsala	OK	02-13-2012 17:12:14	6d 13h 18m 27s
vald_uppsala-tap	VALD TAP acces in Uppsala	OK	02-13-2012 17:14:59	0d 1h 25m 42s
vald_wien	VALD acces in Vienna	OK	02-13-2012 17:20:16	3d 18h 40m 25s
vamdc.eu	Site VAMDC	OK	02-13-2012 17:18:11	3d 6h 48m 27s

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Maintenance and monitoring of the core infrastructure

Reports are available for providers per service/host


Task 1

State	Type / Reason	Time	% Total Time	% Known Time
OK	Unscheduled	43d 17h 20m 7s	99.984%	99.984%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	43d 17h 20m 7s	99.984%	99.984%
WARNING	Unscheduled	0d 0h 0m 0s	0.000%	0.000%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	0d 0h 0m 0s	0.000%	0.000%
UNKNOWN	Unscheduled	0d 0h 0m 0s	0.000%	0.000%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	0d 0h 0m 0s	0.000%	0.000%
CRITICAL	Unscheduled	0d 0h 9m 59s	0.016%	0.016%
	Scheduled	0d 0h 0m 0s	0.000%	0.000%
	Total	0d 0h 9m 59s	0.016%	0.016%
Undetermined	Nagios Not Running	0d 0h 0m 0s	0.000%	
	Insufficient Data	0d 0h 0m 0s	0.000%	
	Total	0d 0h 0m 0s	0.000%	
All	Total	43d 17h 30m 6s	100.000%	100.000%

Service State Trends
 Last Updated: Mon Feb 13 17:43:46 CET 2012
 Nagios® Core™ 3.3.1 - www.nagios.org
 Logged in as lesidaner

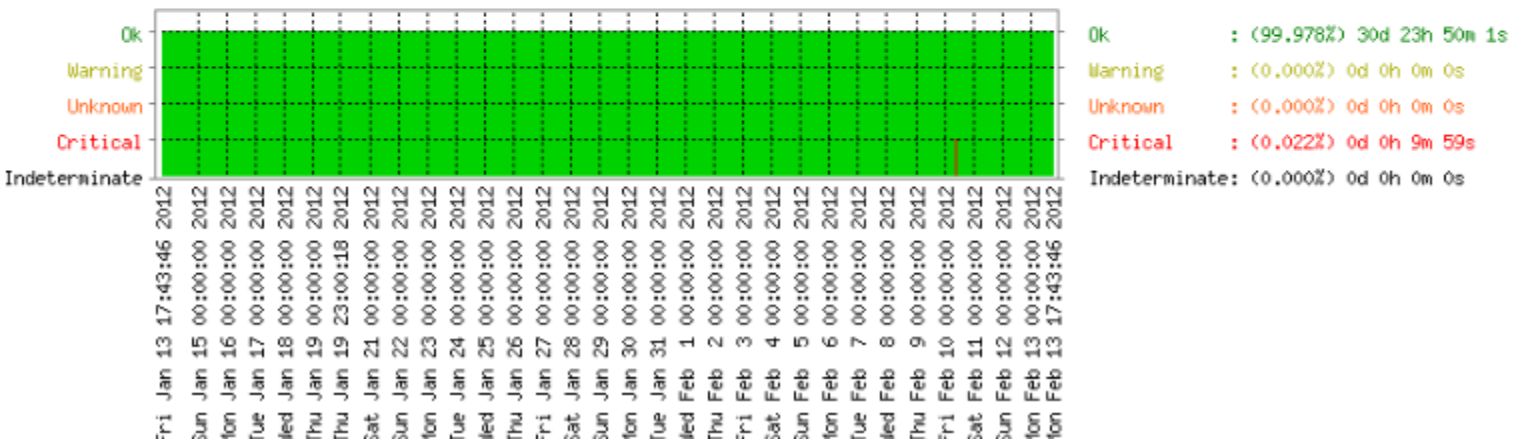
[View Trends For This Host](#)
[View Availability Report For This Service](#)
[View Alert Histogram For This Service](#)
[View Alert History For This Service](#)
[View Notifications For This Service](#)

Service 'Basecol-tap-availability' On Host 'basecol-tap'



01-13-2012 17:43:46 to 02-13-2012 17:43:46
 Duration: 31d 0h 0m 0s

State History For Service 'Basecol-tap-availability' On Host 'basecol-tap'
 Fri Jan 13 17:43:46 2012 to Mon Feb 13 17:43:46 2012



Maintenance and monitoring of the core infrastructure

□ Service

Also test on compliance using information from the registry and test using the validator.

<http://voplus.obspm.fr/vamdc/validation/compliance.html>

□ Future

Follow supervision.

Task 1

Task 2

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Grid Operations

- Making the codes executable on grid nodes
- Providing Grid portals access that are monitored and help to handle the results
- A Grid node in voparis is available it's status and use are available

<http://gstat-prod.cern.ch/gstat/site/OBSPM/statistics> at :

OBSPM Normalised CPU time (kSI2K) per VO

http://www3.egee.cesga.es/accounting/egee_view.php

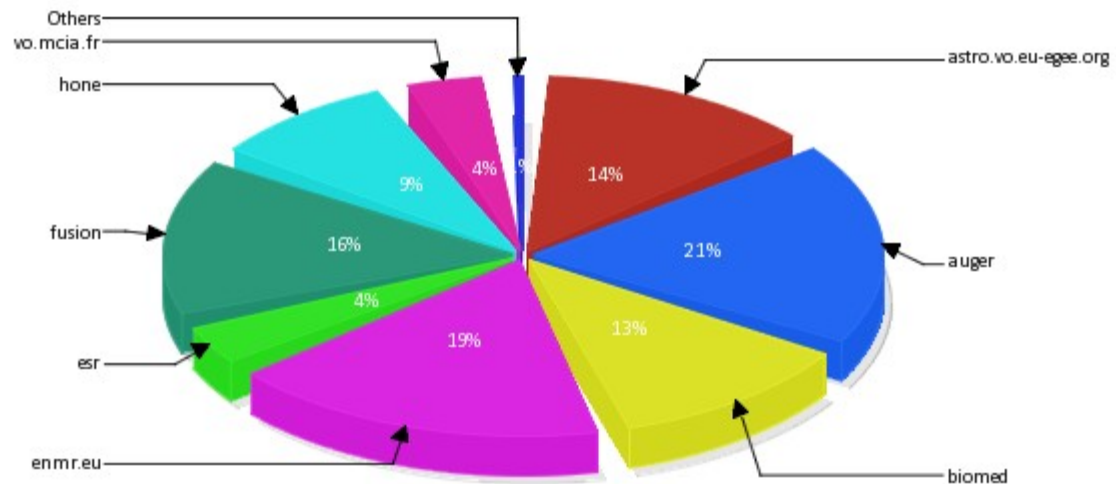
Task 1

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Task 1

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Grid Operations

- **The Documentation available about GRID access and use is available at :**

<http://www.vamdc.eu/usersupport/114-gridtuts>

- **Future**

Follow the maintenance of grid access.

Provide support to users.

Task 1

Task 2

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Support to "users" of the infrastructure

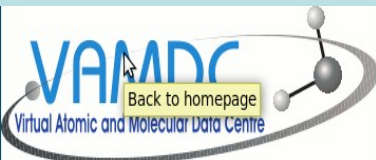
Documentation

- * documentation for user is available on the web site www.vamdc.eu => Infrastructure
- * Registry, How to publish, The Data Model, Grid tutorial.
- * soon available : monitoring, mirroring (will be modified)

Personalized Help

- *The HelpDesk is available :
using Request Tracker <https://voparis-vamdc-support.obspm.fr>.
It provides a single entry point support@vamdc.eu

Support to "users" of the infrastructure



HELPDESK : Request Tracker

*user send an email to support@vamdc.eu

* An alert is sent to the support community

Task 1

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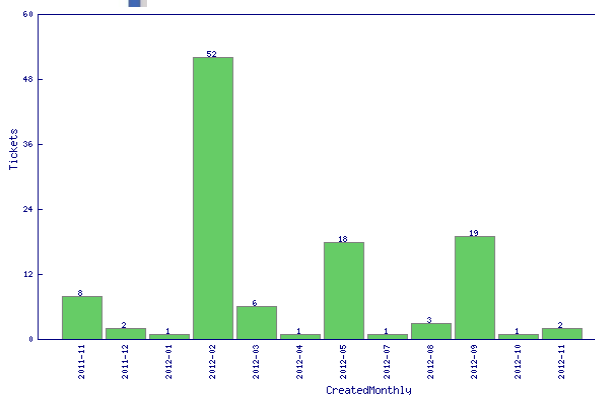
Task 4

Task 5

#	Subject	Queue	Status	Created	Take
15	One more Test on support@vamdc.eu email	VAMDC	new	2 months ago	Take
3	essai	VAMDC	open	7 months ago	Take
2	essai	VAMDC	new	7 months ago	Take

* The ticket is handle by a team

* Once the problem is solved, information is available for FAQ and statistics



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Support to "users" of the infrastructure

HELPDESK : Request Tracker

- *Every question from a user generates a ticket
- *One of the member should take ownership of a ticket or delete it.
- *Once the problem is solved the ticket status should be set to Resolved

Future

Follow the maintenance Request Tracker.

Support to "users" of the infrastructure

Development of Statistical Logging website.

Task 1

- Takes location for Registry.

Task 2

- Automated script to generate HTML pages using the Registry to point to the statistical logging site of a particular node.

Task 3

- URL:

Task 4

<https://voparis-vamdc-stats.obspm.fr/awstats.php>

Task 5

Future

URL of stat page will be maintained

Support to "users" of the infrastructure

Online video training tutorial for

Portal

Task 1

An easy to use web based interface from which queries be sent to all relevant nodes of the VAMDC infrastructure.

Task 2

Task 3

Taverna usage

Task 4

A plugin to the Taverna workflow engine, used to produce more complicated workflows utilising VAMDC and other, similar e-Infrastructures

Task 5

<http://voparis-twiki.obspm.fr/twiki/bin/view/VAMDC/UserGuides>

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Uptime and mirroring

□ Reliability and service warranty

- Multiple independent access for each instance of services
- Mirroring of services and data
- Mirroring of services will be hosted by virtual Machine (Jail FreeBSD)
- Mirroring of registries (astrogrid mirror at Obs Paris)
- Everything is transparent to users
 - The client displays only one instance of the service.



Uptime and mirroring

□ How to manage physical service replication?

- Replicate each Python based service/database using the Django framework installed in Paris
- Replicate JAVA based services/databases based using Tomcat installed in Paris:

stak-b, tipbase, topbase, hitran are already available in two instances. Caglairi is in the process.

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Registries replicated at

<http://voparis-vamdc-astrogrid.obspm.fr:8080/registry/main/index.jsp>

<http://voparis-vamdc-astrogrid.obspm.fr:8080/registry-dev/main/index.jsp>

<http://voparis-vamdc-astrogrid.obspm.fr:8080/registry1102/main/index.jsp>

<http://voparis-vamdc-astrogrid.obspm.fr:8080/registry1207/main/index.jsp>

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Uptime and mirroring

- **How to use service replication for end user**
 - In the registry a parameter define each service as Multiple URL
 - Multiple accesses will be held by the software client, only one ressource will be viewed by the end user. Only one ressource in the registry
 - No complex dynamic dns, dns round-robin, Load balancing or heart beat ...

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Quality Assurance of data and resources

Data services

- **Compliance of service to standards and XSAMS schema done by M. Doronin**

<http://voplus.obspm.fr/vamdc/validation/compliance.html>

- **Very hard to check scientific correctness of data (reponsibility of providers)**

- **Registry**

- **test as an entry the validity of the content, only if the xml is valid.**