Operations Portal

Operations Workshops – EGI TF 2012

Cyril L'Orphelin – CCIN2P3/CNRS

Tool Overview

The Operations Portal is based on the ‘actor’s view’ principle where each actor of the community has access to information accordingly to his role in EGI, such as grid operators, who monitor the status of resources and grid services, VO/site/NGI managers, who provide services for specific groups.
The Operations Portal provides various services to these actors, such as Virtual Organization administration tool, communication tools (the broadcast and downtime system), and dashboards (Operations dashboard, security dashboard, VO operations Dashboard).
The Operations Portal is available as a central service and a regional package to be installed at the NGIs which will automatically synchronize information with the central instance.

Activity	Task	PM	Partner
SA1.4	Operation of the portal	12 (Y1,Y2,Y3,Y4)	CNRS
JRA1.2	Tool Maintenance and Development	12 (Y1,Y2,Y3,Y4)	CNRS
JRA1.3	Supporting national and deployment models	3 (Y1,Y2)	CNRS
JRA1.5	Integrated Operations Portal	53 (Y1,Y2,Y3)	CNRS

Application Hosted By CCIN2P3

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Contributors : Sylvain Reynaud (Lavoisier), Philippe Correia (Graphic Design)

Components Overview

1) Web frontend and backend

- Php, html, javascript
- Web frameworks : symfony , bootstrap

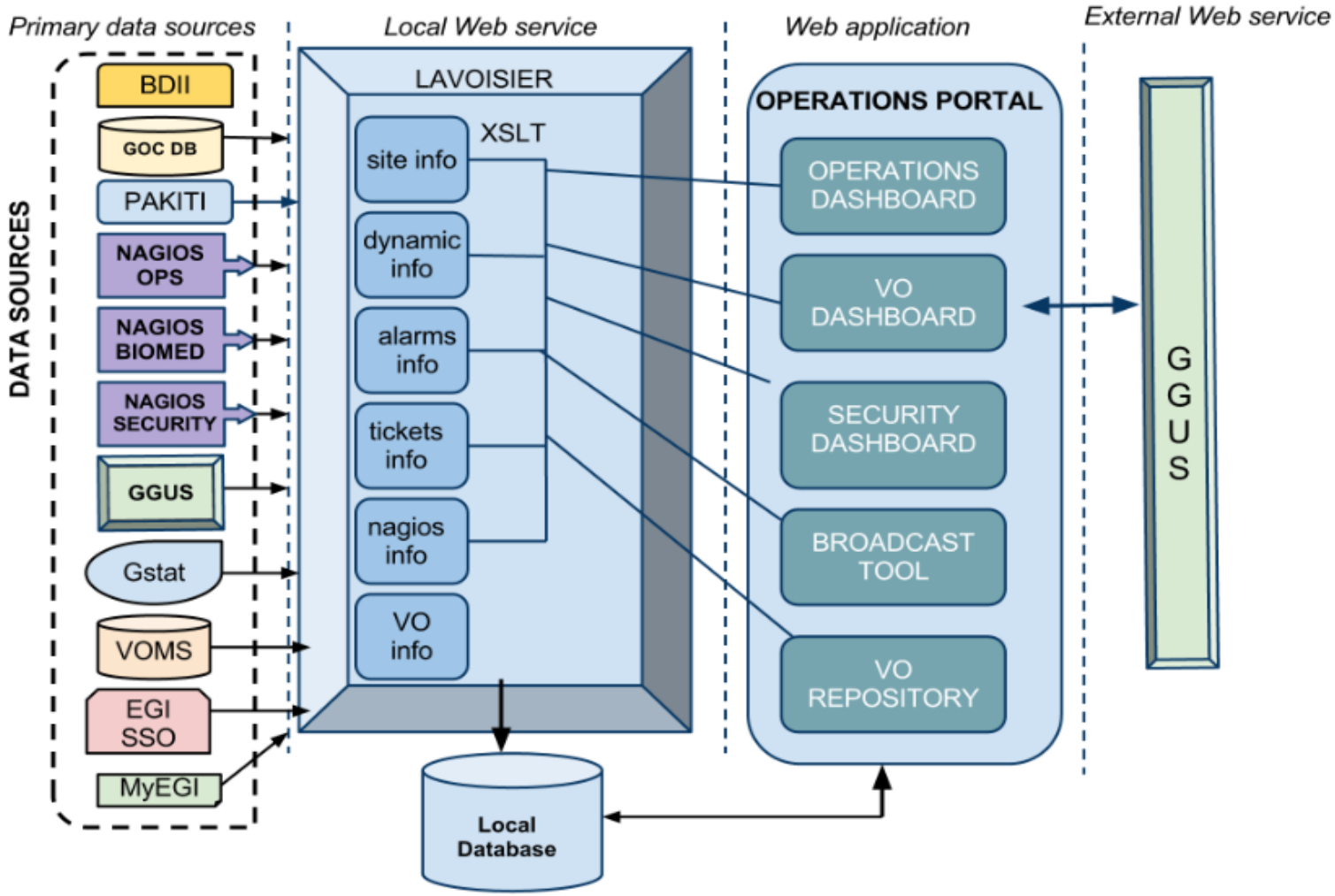
2) Extensive Web Service (Lavoisier)

- Java, xml, xsl, xpath

3) Database : Mysql + Oracle (only for downtime announcements)

- 3 web instances : dev, preprod, prod
- 4 Lavoisier Instances
- 3 DB instances

Components Overview



Central Activities

JRA1.2 **Tool Maintenance And Development**	• Regular Dashboard • COD dashboard • Security Dashboard • VO Operations Dashboard • Broadcast • Downtime Notification • VO Information Module • VO management Module • A/R Module • Lavoisier Web Service • MySQL Database + High availability effort Integration of MySQL Cluster, Web Cluster, configuration files stored in SVN, Lavoisier duplications
JRA1.5 Integrated Portal **SA1.4 Operations of the portal**	**Work achieved** • Symfony Porting **Work on going** •Vo dashboard •Security dashboard •Availability/Reliability Module •Harmonization with other portal frameworks •Integration of new middlewares •Service oriented model • Mobile version **Operation of the portal** •Installation •upgrade code with the releases •Hardware maintenance

Regionalisation(1/2)

Supporting national and deployment models

- Specific national packages
- Complete synchronisation with the central portal
  The regional portal is the authoritative source and the central portal is updated with its data. The regional portal could work without the central one
- Upgraded with the major releases of the central portal
- Regional packages releases : code integration, deployment and test
- Regional packages support – mostly at installation

Remarks

- This task has been completely under estimated .
- The time spent on the support is too important .
- NGI regionalized packages are not upgraded at the same place and frequency. It requires specific support for each instance.
- Only funded for 2 years

Regionalisation(2/2)

Regional requirements

The management of “non EGI Issues” for the dashboard could be done in the regional views in a specific view and it will work

- For the non EGI sites we can use the "scope" mechanism done by GOC DB.
- For the alarms not critical
- For not production Sites / not production Services

Last Developments

- **Since User Community Forum**

  - 4 central releases
  - 4 regional patches
  - CIC portal decommission
  - Improvements and finalization of the VO and CSI dashboards
  - New modules : availability / reliability module
  - New entry in the broadcast (contact all sites supporting a dedicated VO)
  - Improvements on the VO ID cards and VO Management module

Av/Re Module

Availabilities & Reliabilities > Last 30 days

NGI > NGI_FRANCE

Site	Ngi	Line Chart	Gantt Chart	Availability	Reliability	Updated At
AUVERGRID	NGI_FRANCE			88.76	100.00	2012-09-17 13:17:02
BRGM-ORLEANS	NGI_FRANCE			98.83	98.83	2012-09-17 13:17:02
GRIF	NGI_FRANCE			100.00	100.00	2012-09-17 13:17:05
IBCP-GBIO	NGI_FRANCE			96.33	100.00	2012-09-17 13:17:05
IN2P3-CC	NGI_FRANCE			100.00	100.00	2012-09-17 13:17:06
IN2P3-CC-T2	NGI_FRANCE			100.00	100.00	2012-09-17 13:17:06
IN2P3-CPPM	NGI_FRANCE			99.49	99.93	2012-09-17 13:17:06
IN2P3-IPNL	NGI_FRANCE			99.87	99.87	2012-09-17 13:17:06
IN2P3-IRES	NGI_FRANCE			99.62	99.62	2012-09-17 13:17:06
IN2P3-LAPP	NGI_FRANCE			96.33	99.85	2012-09-17 13:17:06
IN2P3-LPC	NGI_FRANCE			100.00	100.00	2012-09-17 13:17:06
IN2P3-LPSC	NGI_FRANCE			97.12	97.39	2012-09-17 13:17:06
IN2P3-SUBATECH	NGI_FRANCE			89.92	100.00	2012-09-17 13:17:06
INSU01-PARIS	NGI_FRANCE			90.94	90.94	2012-09-17 13:17:07
M3PEC	NGI_FRANCE			99.92	99.92	2012-09-17 13:17:08
MSFG-OPEN	NGI_FRANCE			92.61	92.61	2012-09-17 13:17:09
OBSPM	NGI_FRANCE			97.10	97.86	2012-09-17 13:17:09
UNIV-LILLE	NGI_FRANCE			83.43	91.39	2012-09-17 13:17:11

VO Operations Dashboard

Biomed

> HISTORY > CRITICAL

ADMINISTRATION EVENTS TICKETS OPERATIONS PORTAL TOOLS

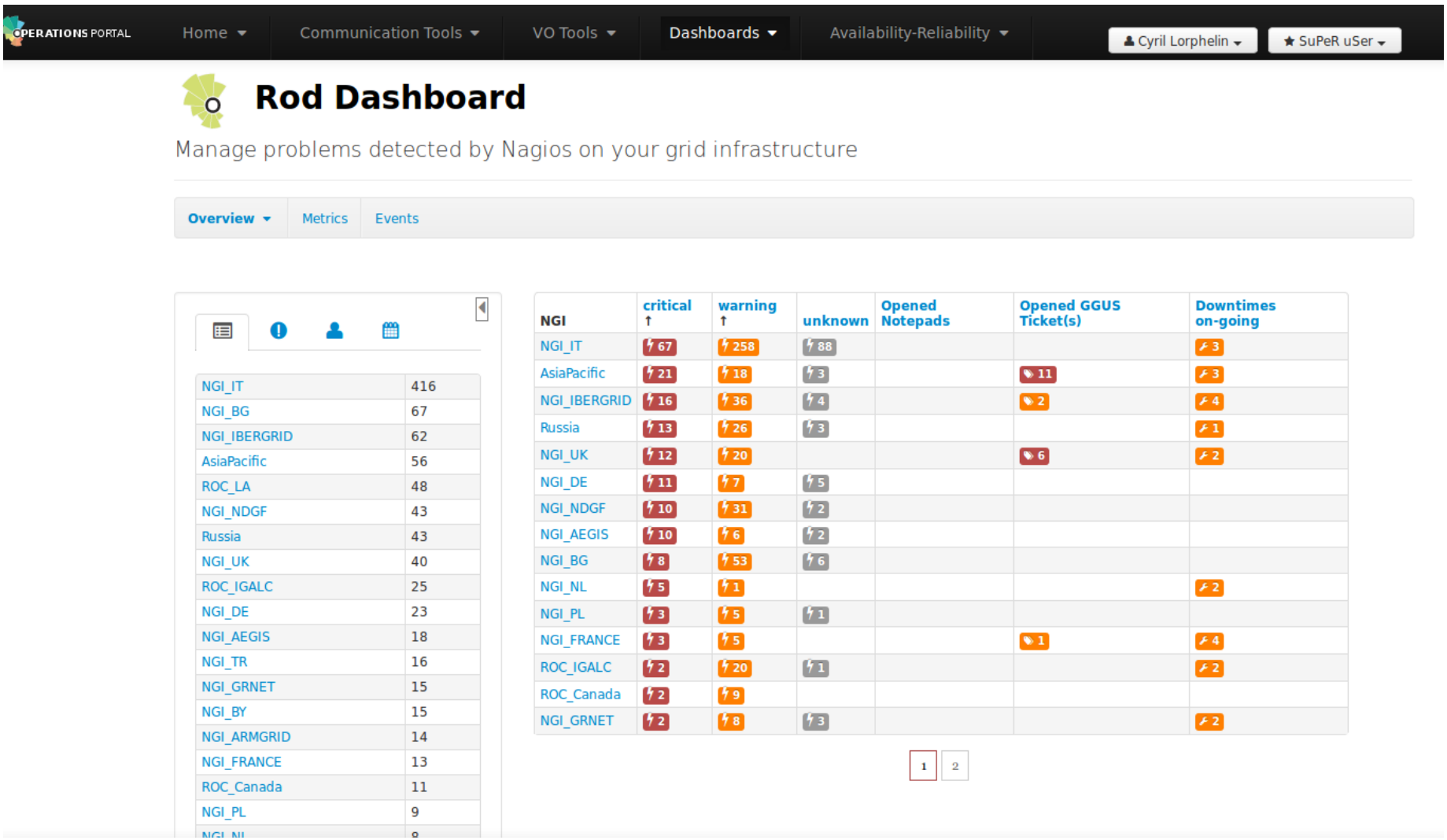
▸ monitoring > site (5)

	SITE	NGI	WARNING	CRITICAL	UNKNOWN	OPENED GGUS TICKET(S)	OPENED NOTEPADS	
⊕	GRIF	NGI_FRANCE	3		3			
⊕	IN2P3-CPPM	NGI_FRANCE	2		2			
⊕	IN2P3-IRES	NGI_FRANCE	2		1			
⊕	IN2P3-LPC	NGI_FRANCE		4				
⊕	IN2P3-LAPP	NGI_FRANCE	1					

What's next ?

- **Main Release : release 3.0 (before the end of the year)**

  - New portal look and feel
  - Use of the CSS framework of Tweeter : boostrap
  - Improvements on efficiency, on reactivity and visibility
  - Homogenization of the display
  - New version of the regular Operations Dashboard
    - In a prototype version soon (release 2.9.6)


OPERATIONS PORTAL
Home
Communication Tools
VO Tools
Dashboards
Availability-Reliability
Cyril Lorphelin
SuPeR uSer
Rod Dashboard
Manage problems detected by Nagios on your grid infrastructure
Overview
Metrics
Events
NGI_IT 416
NGI_BG 67
NGI_IBERGRID 62
AsiaPacific 56
ROC_LA 48
NGI_NDGF 43
Russia 43
NGI_UK 40
ROC_IGALC 25
NGI_DE 23
NGI_AEGIS 18
NGI_TR 16
NGI_GRNET 15
NGI_BY 15
NGI_ARMGRID 14
NGI_FRANCE 13
ROC_Canada 11
NGI_PL 9
NGI_IT 67 258 88 3
AsiaPacific 21 18 3 11 3
NGI_IBERGRID 16 36 4 2 4
Russia 13 26 3 1
NGI_UK 12 20 6 2
NGI_DE 11 7 5
NGI_NDGF 10 31 2
NGI_AEGIS 10 6 2
NGI_BG 8 53 6
NGI_NL 5 1 2
NGI_PL 3 5 1
NGI_FRANCE 3 5 1 4
ROC_IGALC 2 20 1 2
ROC_Canada 2 9
NGI_GRNET 2 8 3 2
1 2

Future Evolution

Extend and continue the continuous integration with :

- A modular tool providing interfaces but also services (API, RSS, widgets)
- A generic tool providing solutions and information about any new middleware .
- A tool providing also services for the cloud computing .
- Propose version for mobiles and tablets
- Follow and integrate the last Web technologies and/or frameworks to improve the efficiency and the usability

But to continue to offer a high quality of services and developments our proposal is to

- Remove the regional instances and offer a central hosting .
- To replace it by regional view in the central portal or to host regional instances