

Integration of D-Grid Sites in NGI-DE Monitoring

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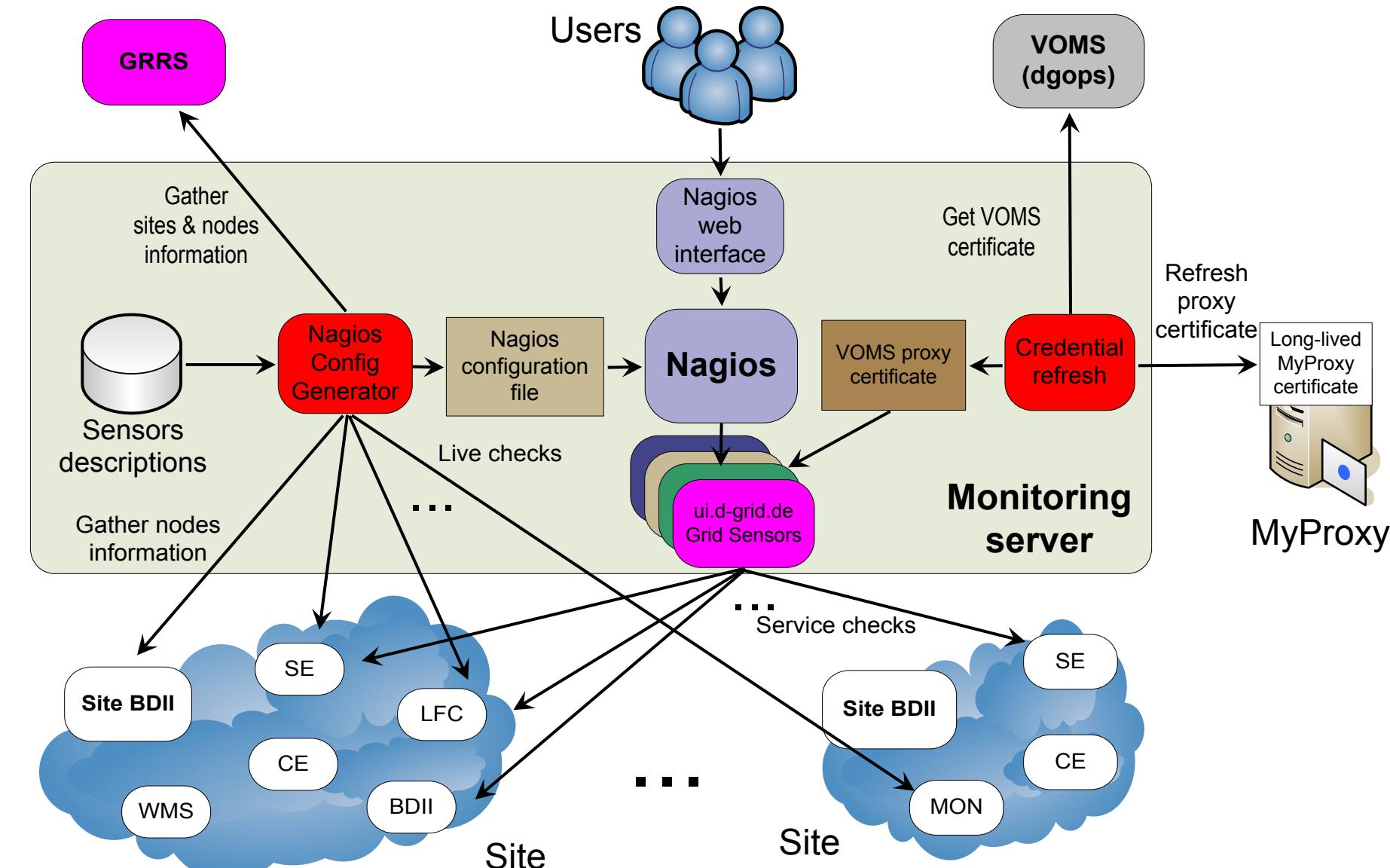


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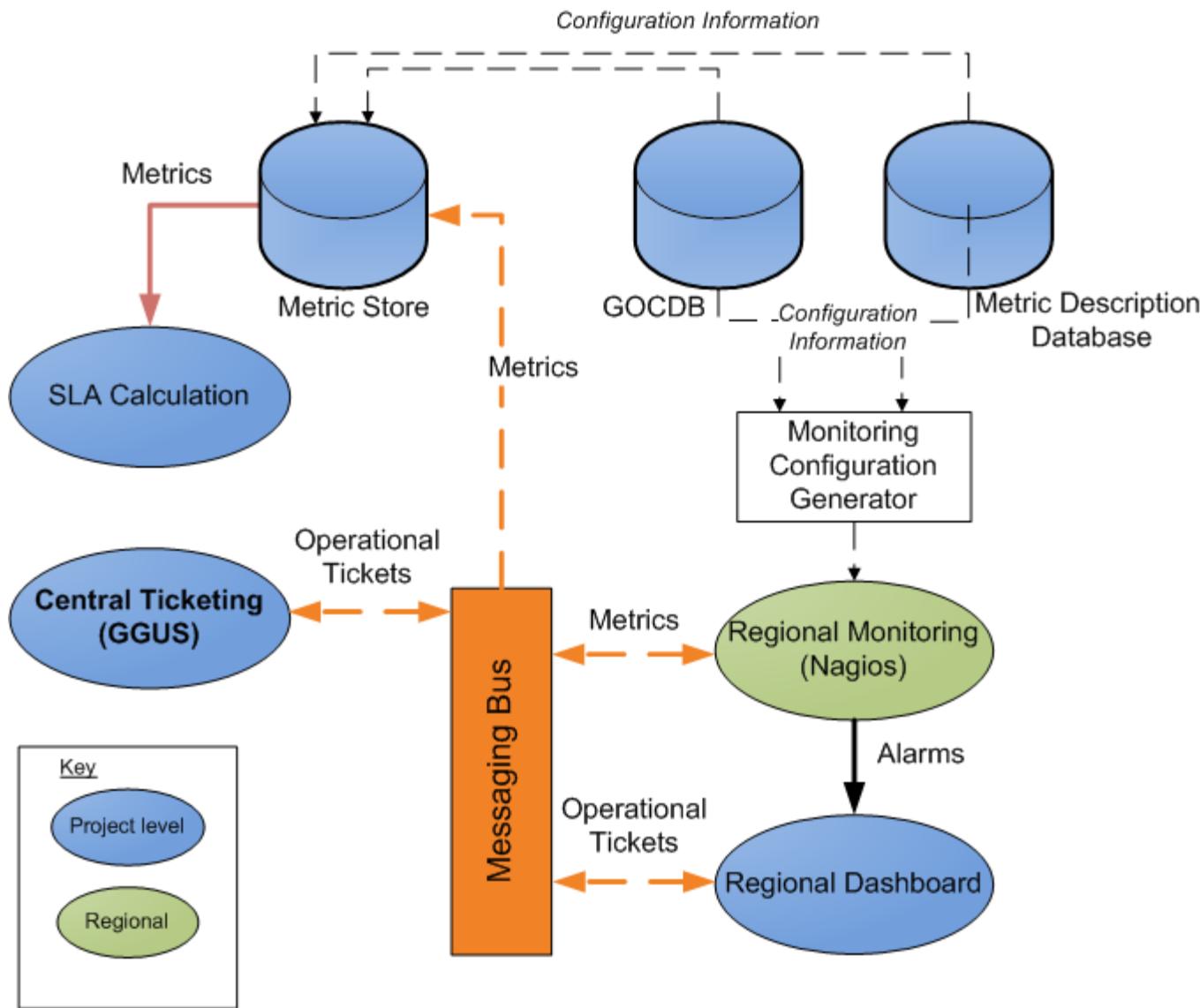
- Prototype D-Grid Site monitoring based on Nagios running on sitemon.d-grid.de at KIT
- Use of VO dgops to submit monitoring tests from central D-Grid UI ui.d-grid.de
- Only 6 D-Grid sites are monitored (RRZN, DESY, LRZ, FZJ, KIT, UDO)
- Monitoring of all in D-Grid supported Middleware
- No Synchronization with GRRS yet
- Manual configuration of the monitoring probes associated with the service
- Will be switched off after full migration to NGI-DE monitoring

D-Grid Site Monitoring architecture



Monitoring infrastructure in EGI

- Migration from SAM central Monitoring in EGEE to regional Nagios Monitoring in EGI
- One regional Nagios instance needed pro NGI
- Messaging Interface to operation dashboard to propagate alarms
- Automatic reconfiguration of monitored services
- Synchronization of downtimes and resource information from GOCDB
- Critical probes results used for monthly availability calculation
- Monitoring of UNICORE 6 and Globus 5 services soon coming



Interactions between EGEE Operational Monitoring Components

UNICORE and Globus Integration in EGI

- UNICORE and Globus integration Taskforces initiated
- NGI-DE sites involved in the Integration: LRZ, KIT, FZJ
- New Globus 5 and UNICORE 6 service types added to GOCDB:
 - unicore6.registry
 - unicore6.UNICOREX
 - unicore6.gateway
 - globus-GRAM5
 - globus-GRIDFTP
 - globus-GSISSHD
- UNICORE 6 (from NGI_PL) and Globus 5 (from LRZ)
Nagios Probes will be released
- Looking now for new early adopters

NGI-DE regional Monitoring

- regional Nagios instance running in KIT on
<https://ngi-de-nagios.gridka.de/nagios>
- MyEGI Monitoring Visualization Portal running on
<https://ngi-de-nagios.gridka.de/myegi>
- Currently monitoring 19 NGI-DE and 6 NGI-CH productive Sites
- Test Nagios instance
<https://rocmon-fzk.gridka.de/nagios> used to monitor uncertified sites
- Use of ops VO subgroup /ops/NGI/Germany to execute Nagios probes
- D-Grid Site FZJ already joined the NGI-DE Monitoring
- Technical Support by the NGI-DE Monitoring Support Unit (KIT) through NGI-DE Helpdesk <https://helpdesk.ngi-de.eu>

Dashboard regional View

Operations-Portal | Dashboard

egi.eu https://operations-portal.evi.eu/dashboard

Most Visited - Getting Started GridDay - swing-grid - EGIeu - EGI - Grid - SMSCG - Todo - Tools - Nagios - GGUS - DocuTaskForce - SWITCH intern - EMI - OldBookmarks -

Operations-Portal | Dashboard +

 European Grid **Infrastructure**
Towards a sustainable grid infrastructure



Dashboard Vo Management EGI Broadcast Vo Admin About Us

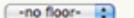
Welcome Andres Aeschlimann  

 operations PORTAL

CENTRAL OPERATIONS PORTAL
Master Instance

Dashboard | Downtimes | Handover | User List | Regional List | Metrics ?

Set your filter sites in my scope 

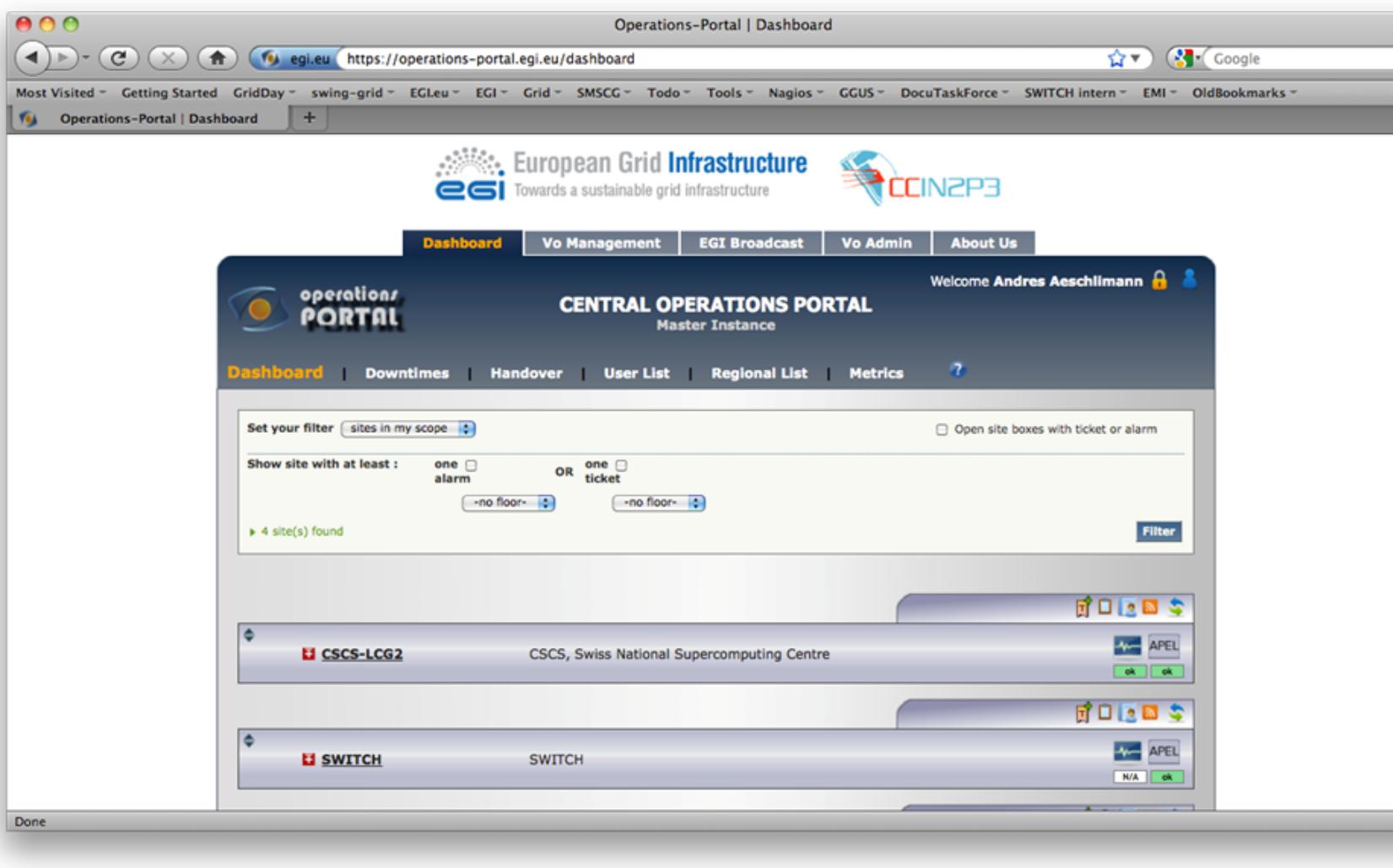
Show site with at least : one alarm OR one ticket
 

▶ 4 site(s) found 


CSCS-LCG2 CSCS, Swiss National Supercomputing Centre   


SWITCH   

Done

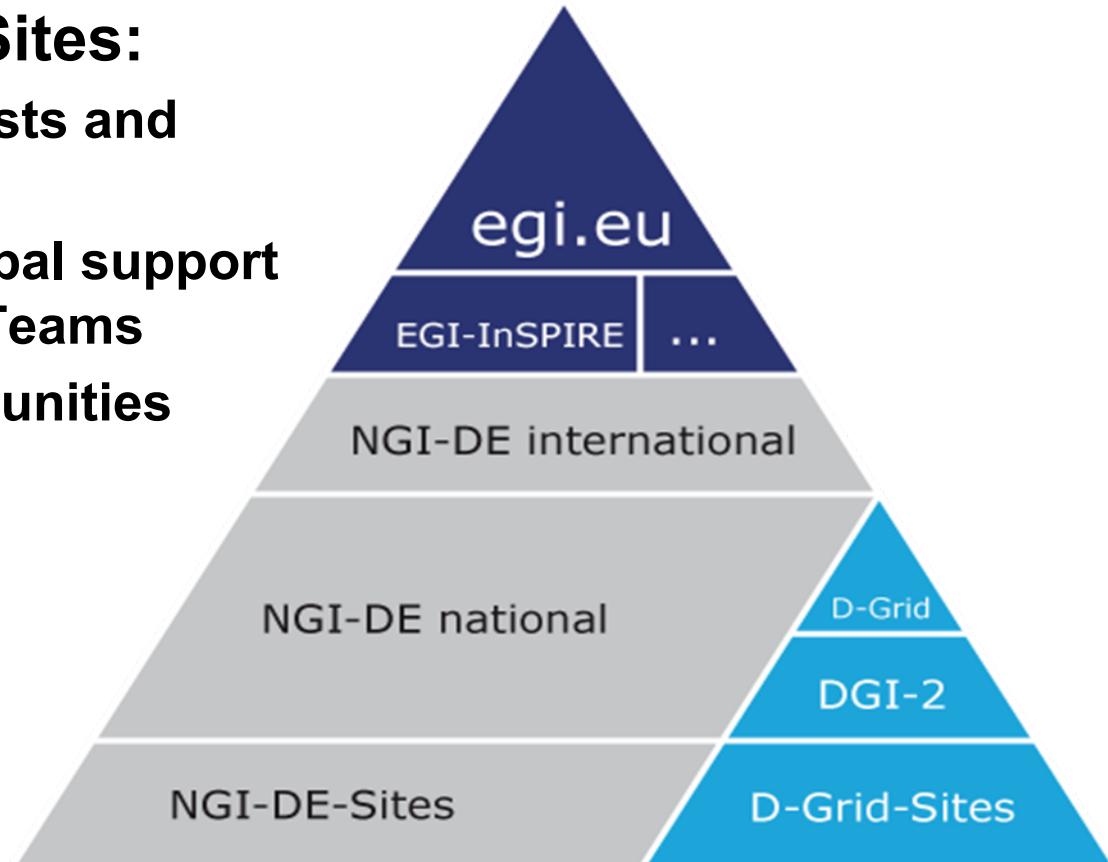


D-Grid Integration in NGI-DE

- Full Integration of D-Grid Sites expected by end of DGI-2 in 2012

- Benefits for D-Grid Sites:

- Reduce operation costs and complexity
- International and global support through ROD / COD Teams
- Gain new user communities



How to integrate D-Grid Sites in EGI

■ Registration:

- site manager sends e-mail to ngi-de-admin@lists.kit.edu
- regional manager adds site to GOCDB as „candidate“

■ Preparation:

- Site manager apply for GOCDB user role
- Site manager fills site information in GOCDB

■ Installation:

- at least one Middleware should be supported
- enable support for OPS subgroup /ops/NGI/Germany
- register installed service nodes under GOCDB
- check if the site is fully functional in test Nagios Portal

■ Certification:

- When fully functional regional manager switch site to „certified“
- Site should be visible in Production Nagios and Dashboard

Future Work

- Deploy a regional GOCDB instance
- Synchronize regional GOCDB and GRRS entries
- Documentation of integration requirements for D-Grid sites in reference installation wiki
- Use identical site names for sites providing services both for D-Grid and for NGI-DE

Questions

Questions are welcome!