

Service monitoring: EGI requirements, short and middle term plans

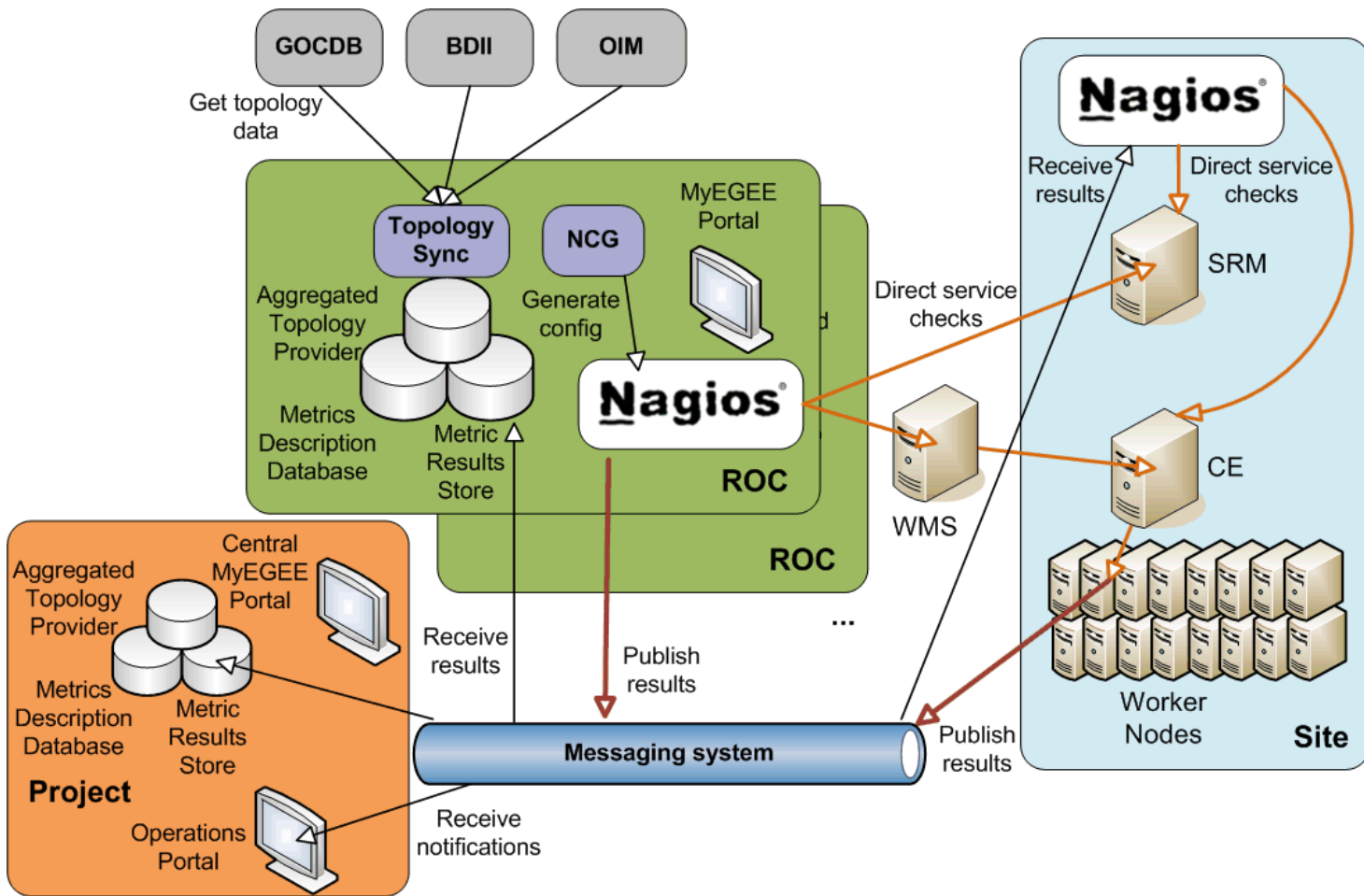
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- Service Availability Monitoring
 - Architecture
 - Probes
- EMI role
- Short term plans
- Conclusions

- Service status monitoring
 - alarms in case of failure
 - site admins, grid operators, managers
 - availability & reliability calculation
- Based on existing systems
 - Nagios, Django
- Distributed environment
 - https://wiki.egi.eu/wiki/SAM_Instances

Architecture



- Nagios plugin specification
 - <http://nagiosplug.sourceforge.net/developer-guidelines.html>
- Existing probes integrated into SAM/Nagios
 - <http://www.sysadmin.hep.ac.uk/svn/grid-monitoring/trunk/probe/>

- gLite probes
 - ch.cern – LFC, FTS, RGMA
 - hr.srce – Certificate lifetime, MyProxy, GRAM, GridFTP, VOMS
 - org.bdii – BDII
 - org.sam – CE, CREAM-CE, glexec, MPI, SRMv2, WMS, security
 - org.nagios – Nagios tests, e.g. ping, TCP check

- ARC probes
 - org.ndgf – ARC-CE
- UNICORE probes
 - <http://sourceforge.net/projects/unicore-life/files/>
- Globus 5 probes
 - integration in process

- Probe development & maintenance
 - using Nagios plugin specification
- Some already covered by EMI
 - BDII
- EGI operators feedback on probes
 - deadline 14th December 2010

- Probes handover
 - handover the probes to PTs
 - PTs evaluate existing probes
 - PTs propose list of official probes
- Probes distribution
 - part of middleware?
 - distributed separately?

- SAM instance monitors multiple middlewares
- Client libraries **must** coexist on a single machine
 - alternative = SAM instance per middleware

- Establish contacts with PTs
 - by the end of January 2011
- org.sam probes
 - developer is leaving in December 2010
 - handover by the end of the year

- Service provider knows the best how to properly monitor service
- Pinpointing problem eases operations
- Accurate probes increase monitoring efficiency