



Enabling Grids for E-sciencE

SAM - current status and plans

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Outline

Current status

Plans



Current Status 1

Enabling Grids for E-sciencE SAM Framework Web Services script SOAP JSP/XML (Python) Query SLS Α general COD-dashboard, SLS, С Nagios, ... reports COD Integrated Publish html,xls Sensors SAM Portal transport (Python) schema GridView dashboard (PHP) Standalone Sensors SAM schema GridView schema Topology Topology Nodes Regions Nodes merge GOCDB sup. (PL/SQL) GOCDB VOs Sites Countries replication Services Maintenance BDII2Oracle (Python) Test results Status history Critical tests Service/site availability FCR Alarms Summarization OSG list Experiments' Title: SAM Architecture SAM module BDII lists (VORS)

(PHP+SQL)

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GridView Other



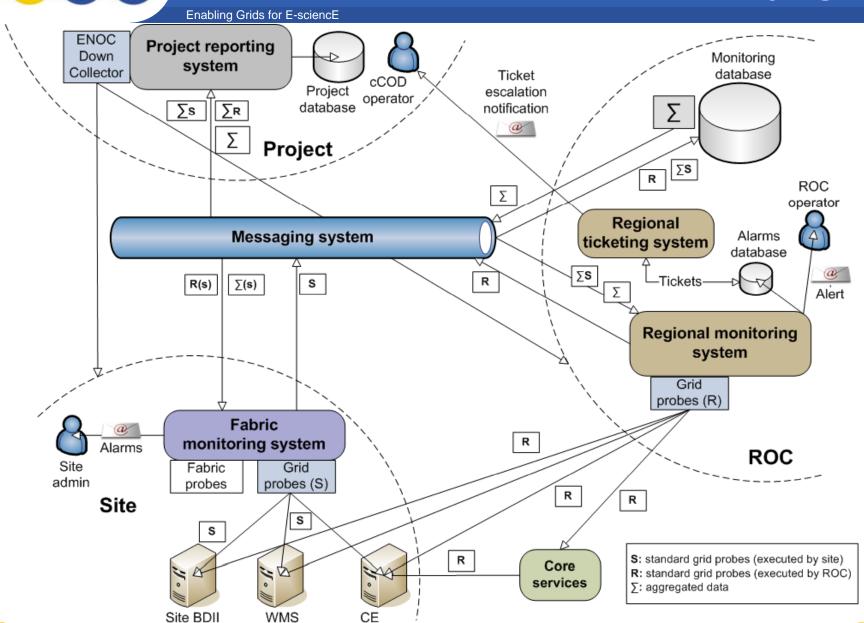
Current Status 2 - Issues

Enabling Grids for E-science

- scalability limitaions (centralised monitoring model)
- any SAM outage negatevely impacts site availability satistics
 - relies on a large central infra (UIs, RBs for submision; large highend Oracle DB)
 - publishing service SPOF
- tests granularity is too low (for rapid problem notification and precise availability figures)
- "misuse" for VO specific configuration testing (rather then for healthines and usability of services)
 - "overload" of sensors (eg. CE sensor)
 - overload of test reporting components
 - ... due to lack of proper configuration management framework

GCGG

Plans 1





Enabling Grids for E-sciencE

SAM components

- Database
 - topology (local cache), probes definisions
 - tests raw data (historcal; full results + state changes only (for some tests)), availability data
- Interface DB to/from MSG consumers / producers
- Probes
 - S standard grid probes (executed by site)
 - R regional grid probes (executed by ROC)
- SAM execution framework (as it is now) disappears. Instead:
 - Site: Fabric Monitoring System to launch Grid Probes (S)
 - Region: Regional Monitoring System to launch Grid Probes (R)
 - Project: no tests submitted by c-COD
- No alarms generation from SAM





Alarms BD

- generation
- alarm masking mechanism
- weighing of alarms
- Alarms interface http://lcg-sam.cern.ch/alarms
 - update http://lcg-sam.cern.ch/alarms/update_alarm.xsql
 - masking http://lcg-sam.cern.ch/alarms/mask_alarm.xsql

- Improvements in the interactions between SAM alarms mechanism and COD dashboard
 - short term
 - COD
 - Obtain requirements from CODs
 - SAM
 - define masking for tests from SRMv2 sensor
 - long term
 - SAM
 - Fase out alarms generation from SAM and move it to ROC monitoring based on probes results