



Enabling Grids for E-science

Grid Monitoring Tools

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CE Federation Meeting*

www.eu-egee.org



- **Current monitoring landscape**
- **Grid Service Monitoring WG**
- **Operations Automation Team**

- **SAM + Gridview**
 - referent availability info + alarms
- **Gstat**
 - version 2 based on Nagios under development
 - focused on BDII checking
- **Nagios**
 - CE regional instance
 - grid site-level prototype
- **Dashboard**
 - CMS, Atlas
- **Custom VO monitoring**
 - MonALISA – Alice VO

- **BDII**
 - depends on Yaim
 - GLUE Schema 2.0 close to Public comment
- **R-GMA**
 - primarily for accounting system APEL
- **GridICE**
 - not deployed in gLite 3.1
- **Vast of custom solutions**

- **Established in 2006.**
- **Review and integrate existing solutions, improve reliability**
- **Results**
 - Grid probes and data exchange specification
 - Grid site monitoring prototype (Nagios)
 - MSG – a Message System for Grid (Apache Active MQ)
 - Gridmap visualisation tool
- **Finished with EGEE-II**

<https://twiki.cern.ch/twiki/bin/view/LCG/GridServiceMonitoringInfo>

“This team will be tasked with coordinating monitoring tools and developments, and will have a specific goal of advising on strategic directions to take in terms of automating the operation – replacing manual processes with automated ones in order that the overall level of operations effort can be significantly reduced in any long term infrastructure.”

- **Group reports to**
 - SA1 leader
 - ROC managers
- **Milestones**
 - high-level architecture roadmap (mid-May)
 - detailed implementation plan (end-June)
 - deployment plan (end-June)
- **CE region members**
 - Marcin Radecki (COD)
 - Emir Imamagic (Nagios)
- **Mandate**
 - <https://edms.cern.ch/document/901705>

- **Nagios evolution**
 - multisite configuration generation
 - sensors development
- **SAM evolution**
 - Nagios as execution framework
 - MSG as transport mechanism
 - NCG component for providing configuration
 - distribution over ROCs
 - CE & CERN ROCs first
- **Dynamic DNS load-balancing**
 - managed by distributed monitoring system

Thank You!

Questions?