# OSG Area Coordinators

Network Monitoring Update: February 2013

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# Key Initiatives in Network Area

- OSG modular dashboard service
  - FINALY in GitHub: https://github.com/PerfModDash
  - Delayed ~3 months from target; 30000 lines code in place now
- Documentation updates: network tools & troubleshooting
  - New draft "triage" document to point OSG users at: https://www.opensciencegrid.org/twiki/pub/Documentation/NetworkingTroubleShooting/20130204-OSG-Debug-SPM.docx
- Improving perfSONAR-PS toolkit for OSG
  - Awaiting final v3.3 perfSONAR-PS release (March 2013?) (Re)Packaging toolkit for OSG users/others?
  - Will require minor repackaging for OSG: Add integration with OSG services and coupling to OSG Dashboard
  - Advocating/supporting deployment at OSG sites begun. US ATLAS and US CMS sites pointed at OIM registration: https://www.opensciencegrid.org/bin/view/Documentation/RegisterPSinOIM

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# Top Concerns

- The modular dashboard effort would benefit from more involvement
  - Currently have Tom Wlodek, Lusi Liu and Ian Gable
  - New involvement from Soichi and Marko very welcome!
  - Possibility of getting some involvement from ESnet/Internet2
- Sub-groups have met or at least initiated some activity https://www.opensciencegrid.org/bin/view/Documentation/NetworkingModularDashboard#Planning_and_Subgroups
  - Concern is that input may be too late to influence development
- Defining what the OSG Network Service should look like needs to happen soon.
  - Operations sub-group needs to spin-up
  - Dashboard code needs to be accessible and "runnable" (now making some progress)
  - Should work with **Operations** and **Software** to make sure we agree on a "rough" vision for the service and corresponding timeline (may need to be keyed off dashboard deliverables)

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# Recent Accomplishments

- Worldwide effort in WLCG to deploy perfSONAR(-PS) at all Tier-1 and Tier-2 sites
  - Instructions for all sites at
    http://twiki.cern.ch/twiki/bin/view/LCG/PerfsonarDeployment
  - Information services (OIM/GOCDB) ready to host status for sites
- OSG Campus Infrastructures Webinar "Methods for Network Troubleshooting in Distributed High Throughput Environments" on January 25, 2013
- New perfSONAR-PS version 3.3 RC1 out mid-January
  - Under testing now by US ATLAS and US CMS
  - Has fixes we need for an OSG deployment:
    http://code.google.com/p/perfsonar-ps/issues/list?can=2&q=Milestone%3DRelease3.3
- perfSONAR-PS "Mesh" configuration being used to test perfSONAR-PS v3.3 RC1
  - Common location for all WLCG meshes created in AFS with corresponding Web-visible URL for sites to access it by.
  - Will be used by OSG to manage network testing configurations

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# Near term items

- Expediting a functional Modular Dashboard (~1 month?)
  - Need to have something that gathers and displays results
- Complete testing perfSONAR-PS beta 3.3 release to get to "final" release (March?) -> OSG distribution
- Updates to "Mesh" configuration to support "include" directives
  - In place but we need to revisit if the includes should be at the .conf or .json level and then TEST it. Next: how to use?
- Registration of existing OSG/WLCG perfSONAR-PS instances
  - Underway. Partially done at USATLAS Tier-2s. USCMS notified about "redoing" since OIM change was put in.
- Documentation updates and additions
  - Continuing to document procedures, how-tos and (eventually) tools provided by OSG

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# URLs of Relevance

- Modular Dashboard Development
  https://www.opensciencegrid.org/bin/view/Documentation/NetworkingModularDashboard

- Network Documentation
  https://www.opensciencegrid.org/bin/view/Documentation/NetworkingInOSG

- Initial OSG networking meeting notes
  https://twiki.grid.iu.edu/bin/view/Networking/WebHome

- perfSONAR-PS WLCG/OSG Installation Instructions
  https://twiki.cern.ch/twiki/bin/view/LCG/PerfsonarDeployment

- perfSONAR-PS Tips, Tuning and Best Practices
  http://www.usatlas.bnl.gov/twiki/bin/view/Projects/LHCperfSONAR (will migrate to OSG documentation pages eventually)

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# Questions or Suggestions?

Thanks

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