



Open Science Grid

# The US Distributed Infrastructure: Open Science Grid (OSG) and the Transition from EGEE to EGI

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# US Distributed Infrastructure for the World Wide LHC Grid

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OSG provides the distributed infrastructure for US LHC in the US. The 2 Tier-1s (BNL and Fermilab) as well as 15 Tier-2s and currently ~20 Tier-3s are accessible through the OSG.

The OSG project is funded by DOE and NSF until October 2011.

US ATLAS, US CMS are major contributors and stakeholders (along with LIGO) in the OSG Consortium and are members of the OSG Council.

The Council has endorsed the OSG management to seek a further 5 year term of funding to sustain support and evolution of the infrastructure for its member communities.

# We are in phase three of four steps planned by the Council:

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June 2009: Documented requirements & expectations from major stakeholders and Council for 2010 to 2015.

Aug 2009: Strategic plans for some key areas of work – Campus infrastructures, Software sustainability, National cyberinfrastructure, Workforce development.

Dec 2009: Analysis of a proposal outline; documented architecture; identification of participating senior personnel (and institutions)

March 2010: Draft of proposal for endorsement by the Council.

# Planning to Sustain the US Infrastructure

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- We are in good communication with our funding agencies.
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- We are actively engaged in areas of cooperation with TeraGrid. We recently submitted a joint proposal for work in Lustre over the wide-area, virtual machines and job overlays for the Earthquake Engineering Simulation community, US LHC and STAR nuclear physics experiment.
- The goal is for cooperation to continue when TeraGrid transitions to XD.
- At last weeks DOE / NSF OSG Joint Oversight Team meeting both OSG and TG management were involved.

# The Transition from EGEE to EGI

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- Since OSG is built and operated to a Federated Cyber-infrastructure model (since our inception in 2005) we are ready for the EGEE to EGI/NGI transition to a similar federated model in Europe.
- We currently have many (>17) points of contact / joint activities between OSG and EGEE. We need to make sure we know whom to talk to continue each component of this work. In particular the ticket routing to and through the OSG Grid Operations Center needs to be maintained and watched carefully.
- We have written letters of intent to collaborate with EGI (at the time of the design study) and ROSCOE.