

Open Science Grid (OSG) and NSF eXtream Digital (XD) program

Version 2

Open Science Grid Project

February 21, 2011

The OSG is the High Throughput Computing Service Provider (SP) of the XD program. We have ongoing interaction with the leaders of the XD XSEDE proposal and will peer with XSEDE (if this is the project funded) as an SP.

OSG would have representation on the XD SP Forum, participation in the services offered to an SP, and interoperability with other SPs. The Technical Director and PI, Miron Livny, is proposed as the SP Forum representative, with the Production Coordinator, Dan Fraser, as the alternate.

OSG and XSEDE propose the following “connection points”:

- Between the OSG User Support and the XD Advanced User Support Services for applications using OSG; and, in particular, those making use of both OSG and XD;
- Between the OSG Campus activity and the XD Training Education Outreach Service Campus Champions program to facilitate the creation and distribution of materials, training, education and communications related to the resources and services available from OSG;
- Between the OSG Assessment and the XD Technology Auditing Service program for common tools on monitoring and displaying resource usage and auditing of services;
- Between the OSG Technology as well as Software Scalability and the XD Validation and the Technology Insertion Service (TIS) project, with OSG providing technology investigation and software evaluation reports to the TIS repository;
- OSG membership on the FutureGrid User Advisory Committee.

The OSG Security Officer will coordinate and collaborate with the XD security program in:

- Common approaches to the risk and software vulnerability assessment together with common personnel at NCSA (Adam Slagell).
- Common approaches to the Federated ID management services together with common personnel at NCSA (Jim Basney).
- Coordination of policy development together with the European community (Jim Marsteller, Jim Barlow).
- Coordination of response and mitigations in the case of security incidents.

Through synergistic activities at the OSG Indiana University Grid Operations Center and the NCSA Operations Activity, we will work together to support failover of the operations services in the case of local failures.

This cooperation is also fostered by

- The continuation of the OSG-TeraGrid (TG) joint program for summer students for the past 2 years. The aim is to continue these for mutual benefit.
- Sites with resources that are members of both the OSG and TG production infrastructures.
- Users that use computational resources from both OSG and TG production infrastructures.
- The joint OSG-TG satellite project “Extending Science through Enhanced National Cyberinfrastructure (ExTENCI)”.