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The Open Science Grid

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We report on the status and plans for the Open Science Grid Consortium, an open, shared national distributed facility in the US which supports a multi-discplinary suite of science applications. More than fifty University and Laboratory groups, including 2 in Brazil and 3 in Asia, now have their resources and services accessible to OSG. 16 Virtual Organizations have registered their users to use the infrastructure. The US LHC experiments are depending on the Open Science Grid as the underlying facility in the US as part of the Worldwide LHC Computing Grid. The LIGO Scientific Collaboration, other astrophysics experiments, and the currently running particle physics experiments are actively engaged in moving their legacy systems to the common infrastructure to support their computing needs and extensions. We present our planned program of work to operate, mature and extend the capacities of the OSG. The activities proposed will sustain effective operation of the facility itself, increase the diversity in the applications supported, help new sites join the infrastructure and expand the scale of the fabric of computing and storage resources.

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