

XSEDE Operations Deployment Plan: Data Transfer Logging and Transfer Analysis Service

Monitor and improve data transfer performance with
a central logging and transfer analysis service
SDIACT-200

17 August 2016

Version 1.3



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A. Document History

Entire Document	1.0	2016-06-08	Initial draft	Shava Smallen
Sections D.1,G	1.1	2016-06-14	Changes to Human resources, Schedule	Tabitha Samuel
F.1	1.2	2016-07-25	Update to admin doc url	Shava Smallen
Entire Document	1.3	17 Aug 2016	Review and update document prior to announcement	V. Hazlewood

B. Document Scope

This document outlines the XSEDE Operations deployment plan for a new logging and transfer analysis service.

C. Overview

Supporting activities that already exist in XSEDE to monitor and report on data transfer activities from XSEDE Service Providers (SPs), SDIACT-200 provides a new data transfer logging and analysis service to support the diagnosis of performance issues, identification of areas for improvement, and appropriate setting of user expectations based on actual transfers. This component has completed the XSEDE engineering process as “SDIACT-200 Improve data transfer performance with a central logging and transfer analysis service”. It passed the SD&I and Operations testing and has been approved for deployment onto relevant XSEDE Service Provider resources.

The activity description and links to relevant documents is available on the XSEDE JIRA at <https://software.xsede.org/jira/view/sdiact-200>.

D. Resources

D.1. Human Resources

The deployment of this component requires installation at each of the SPs. The following human resources have been identified:

Resource	SP Site/XSEDE Group/Other Resource
Staff	PSC (Greenfield, Bridges)
Staff	TACC (Stampede, JetStream, Wrangler)
Staff	Indiana (Jetstream)
Staff	LSU (SuperMIC)
Staff	Stanford (XStream)
Staff	SDSC (Comet, Gordon)
Staff	Any Level 3 SPs running GridFTP
Systems Operations staff	Any Data Transfer Services managed by XSEDE

D.2. Budget

Service Providers already provide service nodes on their systems for the GridFTP services that interface with the site compute resources. No additional resources are provided by XSEDE.

E. Coordination and Communication

This is a new component deployment and will not cause any existing service outages. No coordination with other XSEDE components required.

F. Deployment

A.1. XSEDE Enterprise Services

Nagios

A new host and SSH service check should be added for the log server at s254-108.wrangler.tacc.utexas.edu.

Inca

No monitoring changes required for Inca.

F.1. XSEDE Service Providers

Please see admin guide on the XSEDE wiki at <https://confluence.xsede.org/display/XT/GridFTP+Logging+Upload+Configuration>.

F.2. XSEDE User Services

No related user services issues with this deployment as it is not user facing.

F.3. XSEDE Training

No related user facing training issues with this deployment.

G. Schedule

The schedule for deployment involves installation and configuration of the software and testing by the SPs.

Task #	Task	Start Date	End Date	Resource
1.	Configuring GridFTP Log Upload on GridFTP endpoints	8/17/16	9/30/16	SP admins
2.	Add Nagios checks for host server	8/17/16	9/30/16	XSEDE Enterprise services staff
3.	deployment complete		9/30/16	