

XSEDE Capability Delivery Plan

CRI-3 Globus Connect Server Deployment

Last Revised 2017-05-

Background

Use cases describe community needs, requirements, and recommendations for improvements to cyberinfrastructure “CI” resources and services. A Capability Delivery Plan “CDP” is an executive summary of use case support gaps, of plans to fill those gaps with new or enhanced capabilities, and of existing operational components that already support aspects of a use case.

Use Case Summary

Use cases CB02,04,09,10 describe how XCI wishes to enable sharing the XSEDE “environment” with campuses and to allow access to data collections on campus or XSEDE resources from both campus and XSEDE resources. Globus Connect Server is used across XSEDE for easily accomplishing these data transfer goals.

Use case document: <http://hdl.handle.net/2142/94821>

CDP Summary

The functionality described in this use case is ??% supported by the operational components listed below.

Gap(s) that we currently plan to address:

- Make easy deployment of the Globus Connect Server available

Gap(s) that will not be addressed at this time:

- None

Time and effort summary:

- 1 person-weeks of effort in 1 activities

Functionality Gaps

1. Make easy deployment of the Globus Connect Server available (priority: medium)

This use case is supported by Globus Connect Server and the XSEDE Community Software Repository. Through the XCSR, XCRI will provide Ansible playbooks that allow campus administrators to create local Globus Connect Server endpoints with a minimum of fuss. These can allow two-way access local and XSEDE resources. The Ansible scripts can be used to configure any server as a data transfer node, with sane security defaults and selinux profile for the Globus Server.

Plans: These scripts will be make available through the XCSR.

System Components That Support This Use Case

The following XSEDE operational components currently support this use case:

(Hyperlink the component <Name> to the XCSR [Component Description Repository](#))

Component	Supported Functionality
Globus Connect Server	Globus Connect Server provides the mechanism for easy data transfer between XSEDE and local campus resources. GCS allows for the creation of institution-owned endpoints on local resources.
XSEDE Community Software Repository	The XCSR will provide access to scripts and templates for easy configuration and deployment of Globus Connect Server.