

Campus Bridging Use Case - Initial Prioritization

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Version 1.0



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A. Document History

Relevant Sections	Version	Date	Changes	Author
Entire Document	1.00	12/17/2012	Baseline	Craig Stewart

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B. Document Scope

XSEDE staff held a meeting and discussion on 12 September 2012, as part of the XSEDE Quarterly meeting held in Champaign Urbana Illinois. The purpose of this discussion was to prioritize XSEDE activities on the XSEDE Campus Bridging use cases.

C. Prioritization of Campus Bridging use cases

After a discussion of the defined campus bridging use cases (see Stewart, C.A.; Knepper, R.; Grimshaw, A.; Foster, I.; Bachmann, F.; Lifka, D.; Riedel, M.; Tueke, S. 2012. [XSEDE Campus Bridging Use Cases](http://hdl.handle.net/2022/14475) . <http://hdl.handle.net/2022/14475>), a breakout session of XSEDE staff arrived at the following prioritization of XSEDE campus bridging use cases:

Priority	Use Case	PY2	PY3-5
	1. InCommon-based Authentication	Not prioritized in belief that this is in process already and will be accomplished in PY2	
	4. Data Transfer	Globus Online & EFS/GFFS to be in production soon	
	7. ____ On Demand	Rockhopper (Penguin on demand), Red Cloud exist; Level 3 SP agreements to be completed PY2. Lifka leading survey effort.	Prioritization for PY3-5 not yet determined – to be revisited after survey results are complete
	6. Shared use of computational facilities mediated or facilitated by XSEDE	Variant (A): Creation and use of a Shared Virtual Compute Facility (SVCF) - High Throughput Systems. This is already available thanks to Campus Condor Flocks.	
	6. Shared use of computational facilities	Variant (B): An organization (virtual or otherwise) becomes a Level 3 Service Provider and contributes access to campus-based resources in return for in-kind use of XSEDE resources later. This is already in place for the High Throughput Computing case in the form of OSG	
	Prerequisite: ticket system that can exchange tickets	To be resolved with implementation of Request Tracker	
Not prioritized - for cause			

Use Case	Use Case	PY2	PY3-5
	3. Support for interactive computing	Not prioritized. From a general campus bridging standpoint this use case was not viewed as a high priority. This use case is relevant to campus bridging but the driver is the remote visualization services. The group meeting to prioritize campus bridging use cases agreed unanimously that the priority for this use case should be set by the groups responsible for XSEDE remove visualization services.	
Prioritized list of new / expanded activities			
Priority	Use Case	PY2	PY3-5
1	2. Information Dissemination	PY2 plan of record is Hybrid system template finalized; generic XSEDE cluster distribution (ROCKS/RPMs/ Putty/Cobbler); documentation	Clear agreement that this should be an ongoing effort as the dissemination, training, and updating will need to go on throughout XSEDE
2	5. Support for distributed workflows spanning XSEDE and campus-based data, computational, and/or visualization resources Description Enable distributed workflows – interactively or in batch mode - possibly spanning XSEDE and campus cyberinfrastructure resources, without user intervention after workflow is initiated	5. Variant (B): Distributed workflows in batch mode	
3	5. Support for distributed workflows . . .		Variant (A): Interactive management of workflows
4	6. Shared use of computational facilities mediated or facilitated by XSEDE		Variant (A): Creation and use of a Shared Virtual Compute Facility (SVCF) - High Performance systems (Clusters)

5	6. Shared use of computational facilities		Variant (B): An organization (virtual or otherwise) becomes a Level 3 Service Provider and contributes access to campus-based resources in return for in-kind use of XSEDE resources later - High Performance Systems (Clusters)
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Note that this is an initial prioritization of activities related to campus bridging for information and planning. It represents the collected opinion of a group of experts who established this prioritization after dozens of presentations to hundreds of people. This document serves as input into the XSEDE operational planning process, which involves a variety of committees within XSEDE as well as XSEDE external advisory committees.