

XSEDE Operations Deployment Plan: Upgrade xdusage to new accounting API and rename to accessusage

XCI-917

August 15, 2022

Version 1.1



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A. Document History

Document History				
Entire Document	1.0	2022-08-15	Initial draft	Shava Smallen
Entire document	1.1	2022-08-15	Reviewed document and added comments	Tabitha Samuel

B. Document Scope

This document outlines the XSEDE Operations deployment plan for XCI-917.

C. Overview

XCI-917 delivers accessusage, which is a command-line tool that reports allocation information for a given user such as total SU awarded as well as SU's used and remaining for each of their allocations. The accessusage tool replaces the XSEDE xdusage tool, is written in Python, and is compatible with both the XSEDE accounting API and the new ACCESS accounting API. XCI-917 has passed XCI Integrated Testing and has been approved for deployment onto allocated Level 1 and 2 SP resources.

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 (Bridges-2)
Staff	TACC (Stampede2, Jetstream*, Ranch)
Staff	SDSC (Expanse, Data Oasis*)
Staff	Indiana (Jetstream*, Jetstream2)
Staff	Purdue (Anvil)
Staff	JHU (Rockfish)
Staff	UDel (Darwin)
Staff	NCSA (Delta)
Staff	Texas A&M (Faster)
Staff	University of Kentucky (KyRIC)
Staff	Stony Brook University (Ookami*)

* - review if applicable

D.2. Budget

No additional hardware or software purchases are required.

E. Coordination and Communication

E.1. Deployment coordination

This update needs to be communicated to SPs and researchers.

E.2. Draft news announcement

For SPs

Title: accessusage package v0.5 is now available for SPs

The accessusage command-line tool reports allocation information for a given user such as total SUs awarded as well as SUs used and remaining for each of their allocations. The accessusage tool replaces the XSEDE xdusage tool, is written in Python, and is compatible with the XSEDE accounting API and the new ACCESS accounting API. The new accessusage deployment plan is available at:

http://software.xsede.org/production/deployment_plans/XSEDE-Deployment-XCI-917-accessusage.pdf

All Level 1 and 2 Service Providers (SPs) are asked to deploy this new accessusage version 0.5 by August 31. The XSEDE Allocations, Accounting, and Account Management (A3M) group will copy over the current XSEDE accounting database on August 23 and upgrade it to the new accounting database, which will then receive all new accounting data. The XSEDE accounting database will be put in read-only mode and will not receive new data anymore. Since the XSEDE accounting API will be shut down on August 31, the accessusage tool should be installed before August 31. Researchers can start using accessusage immediately as it is compatible with both the XSEDE and ACCESS accounting APIs.

For Researchers

Title: accessusage package v0.5 is now available

The accessusage command-line tool reports allocation information for a given user such as total SU awarded as well as SU's used and remaining for each of their allocations. The accessusage tool replaces the XSEDE xdusage tool, is written in Python, and is compatible with both the XSEDE accounting API and the new ACCESS accounting API.

The accessusage tool is already available for users on the SDSC Expanse resource and all Level 1 and 2 Service Providers (SPs) have been asked to deploy this new accessusage version 0.5 by August 31.

The XSEDE A3M group will copy over the current XSEDE accounting database on August 23 and upgrade it to the new accounting database, which will then receive all new accounting data. The XSEDE accounting database will be put in read-only mode and will not receive new data anymore.

Since the XSEDE accounting API will be shut down on August 31, researchers using the xdsusage tool should switch to the accessusage tool before August 31 if it is available on your SP resources. Researchers can start using accessusage immediately as it is compatible with both the XSEDE and ACCESS accounting APIs. Type 'man accessusage' where accessusage is available to view the user documentation.

F. Deployment

F.1. XSEDE Enterprise Services

Nagios

No tests affected.

Inca

N/A - will be retired soon

F.2. XSEDE Service Providers

XSEDE Administrators will need to install, configure, and run basic functional tests (4 hours max) of the accessusage package version 0.5 at:

<https://software.xsede.org/production/accessusage/latest>

Installation, configuration, or testing issues should be reported to help@xsede.org. After August 31, 2022, issues should be reported via the support form at <https://access-ci.org>.

F.3. XSEDE User Services

N/A -- not enough time to post changes

F.4. XSEDE Training

No new or changed training.

G. Schedule

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

Task #	Task	Start Date	End Date	Resource
1.	Install xdsusage v0.5 on allocated L1 and L2 SP resources	2022-08-18	2022-08-31	SPs
4.	Deployment complete		2022-08-31	

H. References

Document source:

https://docs.google.com/document/d/1DIukE9G0dbqgMD3EoscYobLW_vm_ewNZZYIF4A9ezA8/edit?usp=sharing