

# **XSEDE Capability Delivery Plan**

## **DA-1 Data Analytics Resources and Information**

### **Last revised 2016-06-21**

#### **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 case DA-1 describes how users obtain/discover information about data analytics in XSEDE, including: 1) definitions and examples of data analytics in the context of XSEDE, 2) a comprehensive list of and user guide for computational resources, software, and services available for data analytics, and 3) support for gaining access to and performing data analytics on XSEDE resources.

Use case document(s): <http://hdl.handle.net/2142/43883>

#### **CDP Summary**

The functionality described in this use case are partially supported by the operational components listed below. The missing pieces are enhanced user documentation and resource, software, and service infrastructure information.

Gap(s) that we currently plan to address:

- Prepare a Data Analytics XSEDE portal home page that includes glossary of terms; use support information in the form of staff expert contacts, workshops, and training course; resources, software, and service information; and information on gaining access.
- Review/enhance data analytics supporting resource (RDR) information for display thru the XSEDE portal Data Analytics page
- Review/enhance data analytics supporting software/service information for display thru the XSEDE portal Data Analytics page

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

- None

Time and effort summary: 8 FTE-weeks across CEE, ECSS, and XCI.

## Functionality Gaps

### 1. Data Analytics XUP documentation (suggested priority: high)

ECSS and XUP staff identify all the material that should be included in Data Analytics XUP documentation and work with appropriate staff to prepare the material.

**Plans:** Prepare documentation (<https://software.xsede.org/view/xci-1>) (6 weeks of effort)

### 2. Data Analytics resource, software, and service information (suggested priority: high)

SPs tag data analytics components so that they show up in the data analytics XUP documentation. XCI enhances RDR and software/service information with data analytics related information.

**Plans:** Enhance resource/software/service information (<https://software.xsede.org/view/xci-1>) (2 weeks of effort)

## System Components That Support This Use Case

The following XSEDE operational components currently support this use case:

(TODO: Hyperlink the component <Name> to the XCSR Component Description Repository)

Component	Supported Functionality
XSEDE User Portal (XUP)	The front-end user interface to the XSEDE system where end users register with XSEDE, manage their user profile information, request allocations to use XSEDE SP resources, and access documentation about XSEDE resources, software, services, and more.
RDR	Manages compute, storage, and visualization resource descriptions
Software/Service Descriptions and Availability	Manages software and service descriptions and availability information
XSEDE Pub/Sub	Enables SPs to publish software and service availability information

## References

(remove this section when not needed)

1.

2.