

XSEDE Operations Deployment Plan: Improve RDR Information Management SDIACT-117

8 February 2016

Version 1.3

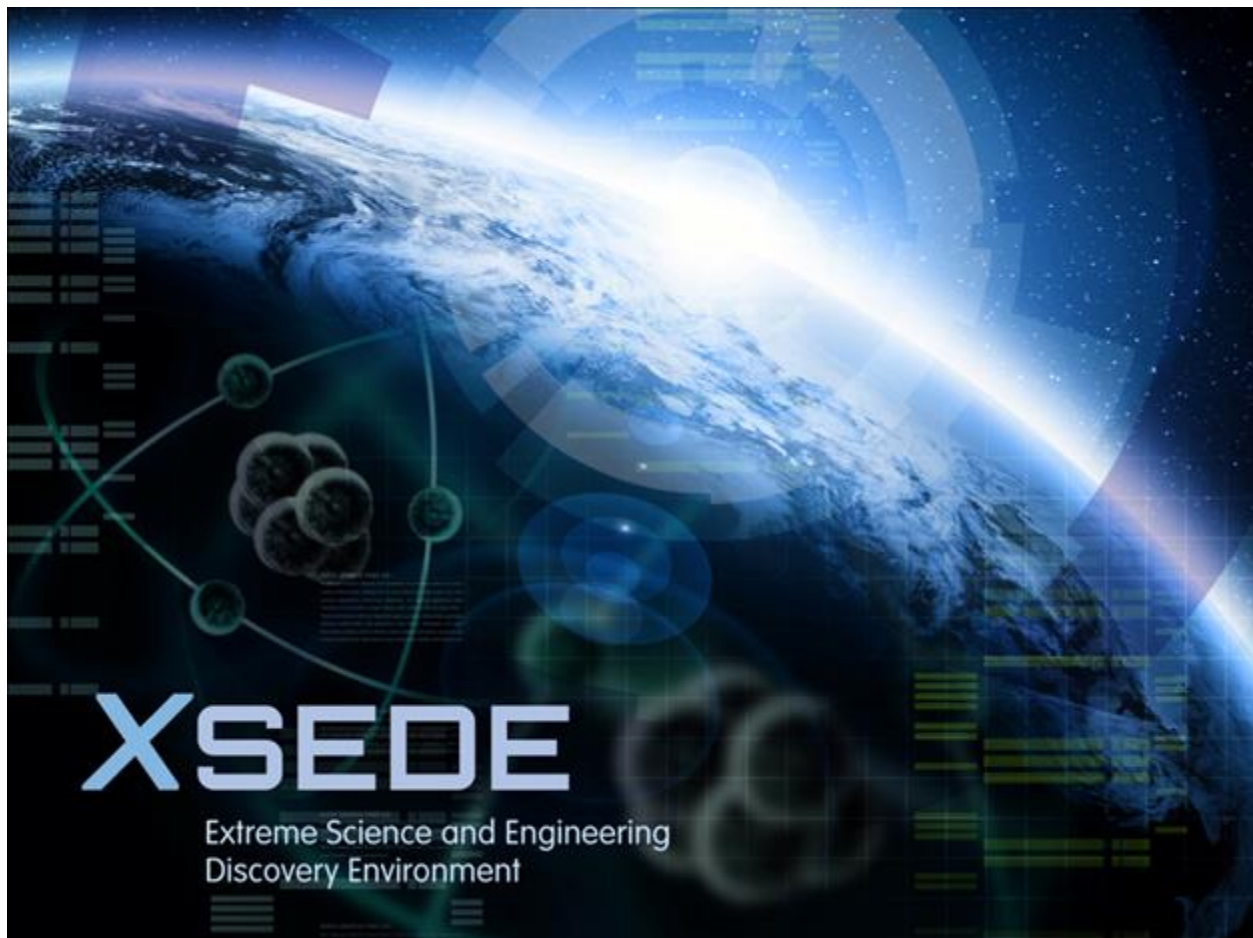


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A. Document History

Entire Document	1.0	Date	Initial draft	Who
Entire Document	1.0	20Aug2015	Initial draft	Ed Hanna, Rob Light
	1.1	16Oct2015	Pre-TRR feedback tweaks	Ed Hanna, Rob Light
Entire Document	1.2	15Jan2016	Edited overview, deployment, resources, & schedule	Tabitha Samuel
Review and updates	1.3	8Feb2016	Reviewed for content and clarity	V.Hazlewood

B. Document Scope

This document outlines the XSEDE Operations deployment plan for SDIACT-117, improve XSEDE Resource Description Repository (RDR).

C. Overview

RDR will provide a web based user interface for Service Providers to publish resource descriptions. It is SP facing and not user facing. RDR SP Web User interface and API has completed the XSEDE engineering process as "SDIACT-117, Improve Resource Description Information Management". It passed the SD&I and Operations testing and has been approved for deployment onto relevant XSEDE target operator, e.g. XSEDE Service Provider resources. The new version of RDR was put into production. SPs should verify the data ported from the old RDR to the new RDR and work with XSEDE Central Services to make sure they are using the correct Information Services data view and incorporating any changes to RDR schema. All operational and application issues should be reported to help@xsede.org. Any one representing an SP and needing access to the RDR interface

can make the request specifying their portal ID in a ticket via email to help@xse.de.org or via the XSEDE portal.

D. Resources

D.1. Human Resources

The deployment of this user interface requires installation at PSC. The following human resources have been identified:

Every SP with resources will need to have their documentation coordinator verify that their data was ported correctly and is complete. SPs will need to maintain both old-RDR and new-RDR while XSEDE Central Services converts to the new-RDR.

Victor Hazlewood will coordinate with SPs.

Rob Light and Ed Hanna will deploy new RDR UI and API server at PSC.

Rob Light will verify that XRAS is using new RDR -- XRAS will share tables in XDCDB with RDR.

Maytal Dahan will verify that XUP is using new RDR/Information Services

JP Navaro will verify that new Information Services data cache is up and running.

Nagios settings for old-RDR will need to be duplicated for new-RDR. Shava will coordinate.

Resource	SP Site/XSEDE Group/Other Resource
XSEDE staff (listed above)	Update RDR UI and API, XRAS, XUP, Nagios and XSEDE Information Services
SP Staff	NICS
Deb Nigra and Rick Costa	PSC
SP Staff	TACC
SP Staff	NCAR
SP Staff	SDSC
SP Staff	Purdue
SP Staff	Indiana
SP Staff	LSU
User Services staff	XSEDE User Services

D.2. Budget

XSEDE currently provides a server to host RDR and SD&I provides maintenance and support.

E. Coordination and Communication

The current RDR system is being replaced with this upgrade. Operations will need to support both servers for a short period of time to allow SP to verify/update their resources to the new resource structure. Because some new XSEDE resources contain multiple resource types it was necessary to make the relationship one-to-many. For example, Stampede was a compute resource and only a compute resource. Wrangler has two components, a compute resource and a storage resource, each of which is allocated independently by XSEDE XRAS.

SP will need to verify and update the data ported from old-RDR to new-RDR. Resource data updates will need to be maintained in both RDR systems for a short period of time while XSEDE Central Services (XRAS, XUP, XDCDB, etc...) point their services to the new-RDR Information Services cache. The RDR team will work with Central Services to verify their services are working properly before switching over.

F. Deployment

F.1. XSEDE Enterprise Services

RDR, Information Services

Ed and Rob will install new RDR in production at PSC and work with JP to verify Information Services is serving new RDR data. RDR production server will remain, rdr.xsede.org and will continue to be located at PSC.

Nagios

Shava will duplicate old-RDR monitoring making sure that it works for new RDR which will be using the original <https://rdr.xsede.org>

Inca

Inca should monitor the RDR API to make sure that it returns resource information.

F.2. XSEDE Service Providers

The RDR user interface will have a pointer to the SP User Guide once it is in place. This will be served by the same server as RDR UI. SP will be asked to verify the data port was done correctly and to maintain both versions of RDR for a short period of time.

F.3. XSEDE User Services

Maytal Dahan will verify that XUP is using new RDR/Information Services.

F.4. XSEDE Training

Operations will announce and work with SPs at each of the monthly SPs software calls until all SP verify their information.

G. Schedule

The schedule for deployment involves installation and configuration of RDR at PSC.

Tasks

Task #	Task	Start Date	End Date	Resource
1.	RDR team will port final resource data from old-RDR to new-RDR.	2/8/16	2/29/16	XSEDE Central Services
2.	Have SP verify or update their resources after data port.	3/1/16	3/21/16	.. SPs
3.	Have SP maintain resource data in both old-RDR and new-RDR for short transition period until we are certain all XSEDE Central Services have switched to new-RDR.	3/22/16	4/1/16	SPs
4.	Verify Information Services is publishing RDR resource info from new RDR API	4/1/16	4/15/16	XSEDE User Services
5.	Verify User Portal is using new Information Services cache.	4/1/16	4/15/16	XSEDE User Services
6.	Verify that Nagios is monitoring new RDR	4/1/16	4/15/16	XSEDE Central Services
7.	Verify that inca is verifying resource data from RDR Api	4/1/16	4/15/16	XSEDE Central Services
8.	Shut down old RDR user interface.*	4/15/16	4/20/16	XSEDE Central Services
9.	deployment complete		4/20/16	

* Shut down old-RDR interfaces -- The old RDR schema will remain in XDCDB for XDMoD and other reporting purposes.