WBS 2.3.2 Requirements Analysis & Capability Delivery (RACD)

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Mission Statement

The Requirements Analysis and Capability Delivery (RACD) team prepares and supports software and services that: 1) enable user access to and use of XSEDE federated infrastructure, and 2) enable infrastructure and service providers to federate with XSEDE. Starting from XSEDE prioritized user requirements (use cases) RACD coordinates the engineering work necessary to integrate software and services into production at SPs and campuses, as XSEDE central services, as external vendor services, or on user personal systems. RACD uses engineering best practices and tools, works with external vendors and software partners to minimize integration cost to XSEDE, and aims to maximize ROI to XSEDE and the NSF.

Goals, Metrics & KPIs

RACD L3 Metrics

RACD Metric	Target	Subgoal
Number of capability delivery plans (CDPs) prepared for UREP prioritization	12/yr	Advance - Create an open and evolving e-infrastructure
Number of CI integration assistance engagements	6/yr	Advance - Create an open and evolving e-infrastructure
Number of significant fixes and enhancements to production components (a)	16/yr	Advance - Create an open and evolving e-infrastructure
Number of new components instrumented and tracked for usage and ROI analysis	4/yr	Advance - Create an open and evolving e-infrastructure
Average satisfaction rating for RACD services (b)	4 of 5/yr	Advance - Create an open and evolving e-infrastructure
Average time from support request to solution	<30 days	Advance - Create an open and evolving e-infrastructure

RACD Appendix Metric	Target	Subgoal
Number of maintenance releases and upgrades delivered of service provider software (a)	4/yr	Advance - Create an open and evolving e-infrastructure
Number of fixes and enhancements to centrally operated services (a)	12/yr	Advance - Create an open and evolving e-infrastructure
User rating of components delivered in production (b)	4 of 5/yr	Advance - Create an open and evolving e-infrastructure

Operator rating of components delivered for production deployment (b)	4 of 5/yr	Advance - Create an open and evolving e-infrastructure
Software/service provider rating of our integration assistance (b)	4 of 5/yr	Advance - Create an open and evolving e-infrastructure

XCI L2 KPIs and Metrics

Team Members

- Position/Role Descriptions
- Non-public Member Information

Name	Institution	Position
JP Navarro	Univ. of Chicago/Argonne Nat. Lab.	Manager, Requirements Analysis Engineer, and Integration Engineer
Shava Smallen	SDSC	Deputy Manager, Evaluation and Testing Coordinator
Choonhan Youn	SDSC	Research Software Portal Engineer
Lee Liming	Univ. of Chicago	Requirements Analysis Lead
Jim Basney	NCSA	Lead Security Designer and Requirements Analysis Engineer
Eric Blau	Univ. of Chicago/Argonne Nat. Lab.	Integration & Information Services Engineer
Scott Koranda	NCSA	Security Engineer
Jonathan Kim	NCSA	Information Services Engineer
Liz Pantalone	PSC	Information Services Engineer
Jeff Makey	SDSC	Evaluation & Testing Engineer
Susan Litzinger	PSC	Evaluation & Testing Engineer
Derek Simmel	PSC	Evaluation & Testing Engineer
Peter Enstrom	NCSA	Evaluation & Testing Engineer

Communication & Meetings

- Meeting Agendas and Minutes
- Meeting Coordinates

Email Lists

- xci (xci-mgmt + xci-racd + xci-cri)
- xci-mgmt (Dave, Craig, Rich, Shava, JP)
- xci-racd (xci-design + xci-integrate + xci-test)
- xci-design (Lee Liming, Jim Basney, JP Navarro)
- xci-integrate (JP Navarro, Galen Arnold, Eric Blau, Rob Light)
- xci-test (Shava Smallen, Galen Arnold, Choonhan Youn, Christopher Irving, Susan Litzinger, Derek Simmel, Peter Enstrom)
- xci-cri (everyone currently in "campusbridging-list")

New Staff Orientation

- RACD Allocation Access Instructions
- RACD Ticket Management Instructions

Risks

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

⚠ Jira project doesn't exist or you don't have permission to view it.

View these issues in Jira

Activities and Projects

Significant new deliverables before the end of the program (completion date)

1. Kepler and Pegasus workflows
2. Globus Connect Server version 5.4 as a new way to implement Globus endpoints
3. CoManage (staff, allocation, uses) group management
4. XCI component metrics services
5. CVMFS for XSEDE and SP software sharing
6. Open OnDemand
7. Information Services, Cross-Organization Research Resource Discovery Catalog
8. Research Software Portal
9. Research data metadata management tools
10. Enhanced RDR
11. CILogon & idp.xsede.org replaces weblogin.xsede.org (as an identity provider)
12. OAuth-SSH as a new way to implement SSH services

Significant completed deliverables (completion date)

1. <IDENTIFY>

Significant retirements

1. Karnak
2. GT6 GridFTP, GSI OpenSSH, and client tools

Resource Discovery Roadmap

Resources

Engineering Process

- Engineering Overview
- Issue Tracking Practices
- Agile Engineering Practices
- Community Software Repository (CSR)
    - CSR High-Level Design and Roll Out Plans
- Packaging and distribution material
    - Software Packaging Developer Documentation
    - Software Publishing Repository Administration Documentation
    - Software Packaging and Distribution Design
- Requirements and Plans
- Evaluations

Online Resources

- RACD Google Home
- Archived SD&I Wiki

Description	Catalog	Source	Published
Use Cases	Registry	Google Drive	Ideals
Capability Delivery Plans	JIRA	Google Drive	

Activities	JIRA	Google Drive SVN	
Reviews	View		
Available Components	Registry	SVN	Development Repo Production Repo
Deployed Components	Registry		
Bugs and Feature Requests	JIRA		
Tickets	Ticket System		

Server and Service Administration

- Google folder

JIRA and Confluence

- Google folder

software.xsede.org

info.xsede.org

- info.xsede.org Server Installation and Administration
- RabbitMQ Installation and Administration
- Warehouse Installation and Administration