

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. ClLogon & 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](#) 

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- info.xsede.org Server Installation and Administration
- [RabbitMQ Installation and Administration](#)
- [Warehouse Installation and Administration](#)