



Statement of Work

Job Name	LSST Identity Management
From	National Center for Supercomputing Applications
Date	May 1, 2017

Summary

Provide a fully-functional identity management system for the LSST Project. The system will be based on a well-developed NCSA system and will manage identity information for both LSST staff and LSST facility users.

Major functionality shall include:

- Full copy of NCSA Identity system, including group management, account creation, Kerberos authentication, and LDAP service
- Integration with LSST's existing Widows-based Active Directory service
- Web-based directory of user profile

Project Scope

This SOW covers the following activities and deliverables:

Phase 1

- Task 1a: Full copy of the NCSA Identity system

This phase includes delivery of an identity system including account creation, group management tools, Kerberos authentication, LDAP service, simple profile data, and SSSD settings.

- Task 1b: Integration into a Windows AD based environment

This phase delivers integration of the above system into a Windows-based Active Directory environment, including support and testing of AD as an LDAP slave, support and testing of AD with external Kerberos, and operational testing of windows based applications.

- Task 1c: Web-based directory

This phase delivers integration into a Web-based user directory with profiles, including collection of necessary information.

- Task 1d: Training and documentation

Phase 2

- Task 2a: Extended user information (citizenship, export status)
- Task 2b: Email and Mailman integration
- Task 2c: Other web platform integration

Not included in the scope of this work are the following suggested follow-on activities:

- Operational support during the LSST Project construction phase, including user tickets and concerns, audit of users and tracking, user approval and support, SSSD and other authentication issues, monitoring and management of security.

Schedule and Staffing

Task	Duration
Task 1a: Full copy of the NCSA Identity system <ul style="list-style-type: none">• 1 NCSA Programmer at 0.5 FTE• 1 NCSA System Engineer at 0.25 FTE• 1 NCSA Security Engineer as needed[†]	4 months
Task 1b: Integration into a Windows AD based environment <ul style="list-style-type: none">• 1 LSST Windows Administrator at 0.5 FTE[†]• 1 NCSA System Engineer at 0.125 FTE	2 months
Task 1c: Web-based directory <ul style="list-style-type: none">• 1 NCSA Programmer at 0.25 FTE• 1 NCSA WEB Designer at 0.125 FTE	2 months
Task 1d: Training and documentation <ul style="list-style-type: none">• 1 NCSA System Engineer @ 1.0 FTE (+ travel)	1 week
Task 2a: Extended user information	
Task 2b: Email and Mailman integration	
Task 2c: Other web platform integration	

Assumptions:

- Tasks listed above are consecutive.
- All staff have been on-boarded and are available at the time of project initiation.
- Where indicated below, certain supporting activities are assumed to be part of already-existing work, and are not included in pricing.

[†] Not included in pricing.

Costs

All costs listed below are based on the scope and assumptions included in this statement.

Item	Price
Task 1a	\$35,950
Task 1b	\$3,454
Task 1c	\$8,301
Task 1d	\$3,500
TOTAL	\$51,205

Assumptions:

- All pricing represents fully burdened salaries for staff and duration described above.
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