

Overview

LSST has two apparently conflicting goals:

1. **Openness** - public access to scientific data
2. **Security** - reliable infrastructure and long-term data integrity

We will need to find a balance between these two, for each component and participant of LSST.

Realms

1. Physical Security
2. System-level Security
3. Applications Security
4. Public Access

Sites

- Mountaintop
 - ◆ Network access **strictly through base facility**
 - ◆ Important roles: Buffering, Network transfer to Base Facility
- Base facility (at La Serena)
 - ◆ *Who can access?*
 - ◆ **No public access** (all through collocated Data Access Center)
 - ◆ Nightly processing (real-time)
 - ◆ Data transferred to Archive Center
- Archive Center (at NCSA)
 - ◆ *Who can access?*
 - ◆ Data Archive
 - ◆ Primary data processing
- Data access Centers
 - ◆ Operated by LSST
 1. Collocated with the Archive Center (NCSA)
 2. Collocated with Base Facility (La Serena)
 3. San Diego
 4. Education and Public Outreach (EPO)
 - ◆ Possibly others, independently funded

Shared Facilities

Where LSST shares a site, we can expect to collaborate with other organizations on security, especially physical security.

- NCSA
 - ◆ LSST will share a major new data center with NCSA, whose most notable resident will be the NSF supercomputing cluster Blue Waters which is expected to come online in 2011.

[Needed: list of other organizations whose facilities we will share]

Source Documentation

?NCSA Security Policies