

SkyPortal Access Control List (ACL) Documentation

Role-Based ACL Assignments

Super Admin

- Has ALL ACLs (complete system access)

Group Admin

- Annotate
- Comment
- Classify
- Manage shifts
- Manage sources
- Manage users
- Manage observing runs
- Manage Analysis Services
- Manage Recurring APIs
- Manage GCNs
- Upload data
- Run Analyses
- Post taxonomy

Full User

- Annotate
- Comment
- Classify
- Upload data
- Run Analyses
- Manage observing runs

View Only

- No ACLs (read-only access)

ACL Descriptions

User Management

Become user

Allows: Impersonate/become another user account using for example :

http://localhost:5000/become_user/1 (1 is the ID of the user in the database)

Use Cases:

- Debugging user-specific issues
- Testing user permissions
- Administrative troubleshooting

Manage users

Allows: Comprehensive user account and permission management

Use Cases:

- Create, update, and delete user accounts
- Manage user invitations to the system
- Grant/revoke ACLs and roles
- Invite users to groups
- View user profiles and settings

Manage groups

Allows: Create and manage groups and their memberships

Use Cases:

- Create new groups
- Update group settings
- Delete groups
- Manage group memberships
- Configure group streams
- Set group permissions

Data operations

Comment

Allows: Create, edit, and delete comments on astronomical objects

Use Cases:

- Post comments on sources, spectra, GCN events, earthquakes, or shifts
- Update existing comments
- Remove comments
- Add bot-generated comments via API

Comments format is free from text.

Annotate

Allows: Add structured metadata (annotations) to astronomical objects

Use Cases:

- Create annotations with structured JSON data
- Update existing annotations
- Remove annotations
- Import data from external annotation services

Annotations format is JSON.

Upload data

Allows: Upload new astronomical data to the system

Use Cases:

- Upload photometry data
- Upload spectroscopic data
- Add new sources and candidates
- Create followup requests
- Save candidates to groups as sources
- Upload thumbnails and images
- Create filters for data streams
- Share data between groups
- Upload spatial catalogs
- Upload galaxy catalogs
- Create instrument logs
- Record observations
- Create photometric series
- Upload skymap triggers

Does NOT include deletion or modification of existing data

Classify

Allows: Assign and manage astronomical classifications

Use Cases:

- Create classifications for sources
- Update existing classifications
- Remove classifications
- Assign classification probabilities

Post taxonomy

Allows: Create and update classification taxonomies

Use Cases:

- Create new classification taxonomies
- Define classification schemes (e.g., supernova types)
- Update existing taxonomies
- Configure classification hierarchies

Delete taxonomy

Allows: Remove classification taxonomies from the system

Delete bulk photometry

Allows: Bulk deletion of photometry data

Use Cases:

- Delete large batches of photometry by upload_id
- Delete all photometry from a specific stream

Source & Object Management

Manage sources

Allows: Manage astronomical sources and their metadata

Use Cases:

- Modify source-level metadata
- Validate and invalidate photometry points
- Add/remove tags from sources
- Manage thumbnails for sources
- Create and manage public release pages
- Create and manage public source pages
- Delete sources

This ACL is for managing existing source records

Includes photometry validation (marking points as valid/invalid)

Manage photometry

Allows: Modify photometry data for objects in accessible groups

Use Cases:

- Update photometry records
- Delete photometry records
- Modify photometry metadata
- Only affects objects accessible to user's groups

Users without this ACL can only modify their own photometry uploads

Observational Infrastructure

Manage telescopes

Allows: Add and update telescope records

Use Cases:

- Add new telescopes to the system
- Update telescope information (name, location, diameter, etc.)

Delete telescope

Allows: Remove telescope records from the system

Use Cases:

- Delete telescopes that are no longer in use

Manage instruments

Allows: Add and update telescope instruments

Use Cases:

- Add new instruments to telescopes
- Update instrument configurations
- Manage instrument fields (FOVs)
- Configure instrument bands and filters
- Set up instrument regions

Delete instrument

Allows: Remove instrument records from the system

Use Cases:

- Delete obsolete instruments

Manage allocations

Allows: Manage telescope time allocations

Use Cases:

- Create allocations linking groups to instruments
- Update allocation details (hours, PI, etc.)
- Remove allocations
- Configure allocations for different request types:
 - Triggered observations
 - Forced photometry
 - Observation planning
- Manage MMA detector allocations
- Configure GCN-related allocations

Manage observing runs

Allows: Schedule and manage observing runs

Use Cases:

- Create scheduled observing runs
- Update run details (dates, observers, etc.)
- Assign sources to observing runs
- Plan classical observing campaigns

Manage observation plans

Allows: Create and manage observation planning and scheduling

Use Cases:

- Create observation plans for targets
- Schedule observations across multiple telescopes
- Send observation plans to telescopes
- Manage plan requests

- Integrate with Treasuremap for GW follow-up
- Plan tiled observations
- Optimize observing schedules

Manage shifts

Allows: Manage observing shifts

Use Cases:

- Create observing shifts
- Assign users to shifts
- Update shift details
- Remove shifts

Analysis & Processing

Manage Analysis Services

Allows: Configure and manage automated analysis services

Use Cases:

- Register new analysis services
- Update analysis service configurations
- Configure service parameters and resources
- Remove analysis services

Run Analyses

Allows: Execute analysis services on astronomical data

Use Cases:

- Run analysis on sources
- Update analysis results
- Delete analysis results
- Execute automated processing tasks

External Services

Manage GCNs

Allows: Manage GCN (Gamma-ray Coordinates Network) events and notices

Use Cases:

- Send GCN notices to the community
- Manage GCN event tags
- Submit GCNs to TACH (The Astronomer's Clearing House)
- Query and post to GraceDB (LIGO/Virgo gravitational wave database)
- Manage confirmed sources in GCN events
- Handle multi-messenger astronomy events

Manage sharing services

Allows: Configure external sharing services (TNS, ALeRCE, etc.)

Use Cases:

- Configure sharing service integrations (e.g., TNS - Transient Name Server)
- Manage coauthors for sharing services
- Associate groups with sharing services
- Configure auto-publishing rules
- Set up automated data sharing

Manage Recurring APIs

Allows: Schedule and manage automated recurring API calls

Use Cases:

- Create recurring API call configurations
- Schedule periodic automated operations
- Update recurring API settings
- Remove scheduled API calls

Post from SEDMListener

Allows: Receive and process messages from SEDM telescope facility

Use Cases:

- Receive automated status updates from SEDM
- Process followup request responses
- Update request status based on facility feedback

System Administration

System admin

Allows: Full system administrative access

Use Cases:

- Manage streams (alert streams)
- System-level thumbnail operations
- Manage comment attachments
- Advanced galaxy catalog operations
- Manage HEALPix localizations
- System-level GCN operations
- View database statistics
- View system logs
- Become other users
- Override sharing restrictions
- All group management operations
- Calculate photometry statistics
- Full system configuration

