

MAST Accounts

Anyone can use the MAST tools to search for hosted data. However, certain services and data require a MAST account. This article describes the means to establish an account, and to obtain authorizations where needed.

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Anonymous Use

Anyone can use MAST interfaces to search for hosted data; anonymous users may preview and retrieve any publicly-available data. You **do not** need a user account to access most data, documentation, or the [Archive Help Knowledge Base](#). If you have a [MyST](#) account, using the Login feature in MAST web tools is *optional* for public data.

Protected Data

Be aware that recent data from active missions can be protected during an [Exclusive Access Period \(EAP\)](#). During the EAP the Principal Investigator and their team have the opportunity to analyze and prepare their data for publication, and only *authorized* and *authenticated* users may retrieve the data. After the expiration of the EAP (denoted by the *Release Date* in MAST interfaces), the data become accessible to everyone without restriction. Metadata about observations that are under an EAP, such as coordinates, filters, exposure times, or footprints of the observations are available for anyone to see, including anonymous users.

EAP data can be queried from the MAST [Portal](#), from the [Hubble search interface](#), or from a MAST Application Programming Interface (API). EAP data are indicated in MAST interfaces in different ways, including the use of icons ().

User Accounts

User accounts enable MAST applications and services to **authenticate** individual users to the system. This is necessary only for some circumstances. Certain services also require prior **authorization** to use them, and authenticating via log-in is an essential step in that process.



User accounts for MAST are managed by STScI's Single Sign-On (SSO) system. SSO allows you to use your [MyST](#) credentials to log on to certain web-based services at the Institute, including the [MAST Portal](#), the [HST search interface](#), the STScI Grant Management System ([ST GMS](#)), and the [Astronomer's Proposal Tool](#). Rather than have each service maintain separate user accounts, logging in through the SSO Portal means remembering only one username and password.

CasJobs Accounts

MAST's environment for supporting complex queries against large catalogs, [CasJobs](#), requires a separate account which is not managed by STScI's SSO system. You may [register for a CasJobs account](#).



If you have ever been a named Principal Investigator (PI) or Co-Investigator (Co-I) on an HST or JWST proposal, or have ever received a research grant managed by STScI, you probably already have a MyST account. You can verify whether you already have a MyST account with the [MyST lookup tool](#) by entering your email address. You may create a new account from the [MyST](#) home page.

Who Needs a MAST User Account?

User accounts are only needed for certain purposes, as described in the sub-sections below. Logging in to one of the MAST applications will authenticate your identity during the lifetime of your MAST session.

anonymous

Login...

Account Info...

Portal login menu

Login: Be sure to log in to the MAST application before attempting actions that require authentication. The appearance of the login menu differs depending upon the application. After login it is possible to access information about your MyST account.

If you were logged in to MAST when you elected to stage data on the **ftp** staging disk at archive.stsci.edu, use your MyST credentials to log in to the ftp session.

Log Out

MAST Log-out
button

Log-out: If for security reasons you must log out of a Portal session (e.g., if you are obliged to share your workstation), there is a two-step process:

1. Go to <https://auth.mast.stsci.edu/sessions>. That page will contain an entry for each active MAST session for which you are logged in. Click the **Log Out** button to terminate the session in question.
2. Visit the SSO portal to log out of the MyST system: <https://ssportal.stsci.edu/idp/profile/Logout>.

If using a public computer, it is general best-practice to clear your browser's cache after you log out. MAST strongly recommends doing so after signing out of MAST applications from a shared computer. Web browsers (e.g., Microsoft Edge, Firefox, Google Chrome, Safari) will have instructions on how to clear your browser cache.



Another option when using a shared computer is to use the Private Browsing option in your web browser (Google Chrome refers to this as "Incognito"). Logging out would be as simple as closing the browser session. The next user can then also open the browser with Private Browsing / Incognito to start a fresh session.

Subscriptions to Data

[Subscribing to data notifications](#) for active missions requires a log-in. You may subscribe to be informed when data are first received in the Archive, are reprocessed for some reason, or have become public.



Currently, subscriptions for data notifications are only available through the [MAST Portal](#).

Accessing EAP Data

Previewing and retrieving EAP protected data requires both authentication and authorization. EAP data can be accessed from the MAST [Portal](#), from the [Hubble search interface](#), from the **ftp** server staging disk at archive.stsci.edu, or from a MAST Application Programming Interface (API).

Data Authorization

Principal Investigators (PIs) for approved observing programs with HST or JWST are automatically authorized to access data from their program(s).



MyST action panel after login

Each PI **must, for each active program, authorize access for Co-Investigators** and other collaborators using the MyST interface. (This does not apply if the EAP for a program has expired.) To do this:

1. Go to [MyST](#) and click the **Launch** button in the [Registered User](#) panel to login
2. Click the **Launch** button in the [Update](#) panel to modify your user settings (shown in the figure at left)
3. Select the [Manage Access to Exclusive Access Science Data](#) menu, then click the relevant program to add users



You can also use the MyST interface to change your password, or to update other information in your user profile.

Manage Access to Exclusive-Access Science Data

MyST Manage EAP data access pull-down



Each user whom PIs wish to authorize for access to EAP data must have an existing MyST account. Co-Is and other collaborators should create a MyST account if they do not already have one.

Accessing JWST Engineering Data

Currently access to JWST Engineering data is restricted to authorized individuals. Log in to the [Engineering Database Interface](#), or use an [Auth.MAST](#) token with the [Engineering Database API](#).

Using the MAST HelpDesk Portal

The MAST [HelpDesk Portal](#) provides links to certain MAST resources, and after logging in you can submit requests for assistance and track the responses to your questions.



Using the HelpDesk Portal is optional. You may instead simply send e-mail to archive@stsci.edu.

Auth.MAST Tokens

MAST also offers API token authorization for programmatic access to EAP data. Users with a MyST Account can find instructions on creating and using these tokens on the [auth.MAST documentation page](#). With a valid token in place, authorized users will then be able to retrieve MAST EAP data through [Astroquery](#) or cURL scripts. See the video on [Using Auth.MAST Tokens](#) in the [Demos and Tutorials](#) chapter of the [Portal Guide](#). The steps are simply:

1. Navigate to the [Tokens](#) page and click the **Create Token** button.
2. Record the long, alpha-numeric string in the environment variable `$MAST_API_TOKEN`, preferably in your `.bashrc` or equivalent shell file.



Be aware that API tokens expire after 10 days of inactivity or 60 days after creation, whichever comes first. Users experiencing difficulty with existing tokens should try generating a new one.

For Further Reading...

- [Portal Guide](#)
- [MyST Portal](#)
- [Exclusive Access Data](#)
- [Program Subscriptions and Notifications](#)
- [Auth.MAST Documentation](#)