

User Administration Guide

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Chapter

# Chapter 1: User Administration Overview

As tranSMART User Administrator, you are responsible for the following tasks:

* Adding new users to the tranSMART access list
* Granting permissions to users through role assignments and access rights to private Dataset Explorer studies
* Creating user groups, and assigning these groups access rights to private Dataset Explorer studies
* Creating and mapping user roles
* Setting up security for private Dataset Explorer studies

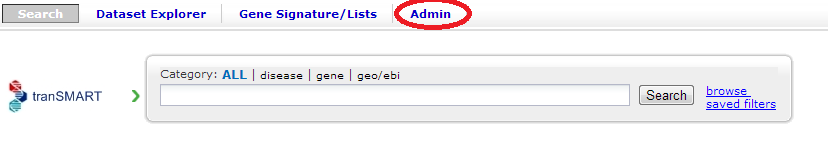
## Administrator Privileges

In addition to performing administration tasks, you, as the tranSMART User Administrator, are a tranSMART super-user with access privileges to all tranSMART resources, including all Dataset Explorer studies and both public and private gene signatures. You also have access to the tranSMART access log.

tranSMART user administrators are assigned the role ROLE\_ADMIN.

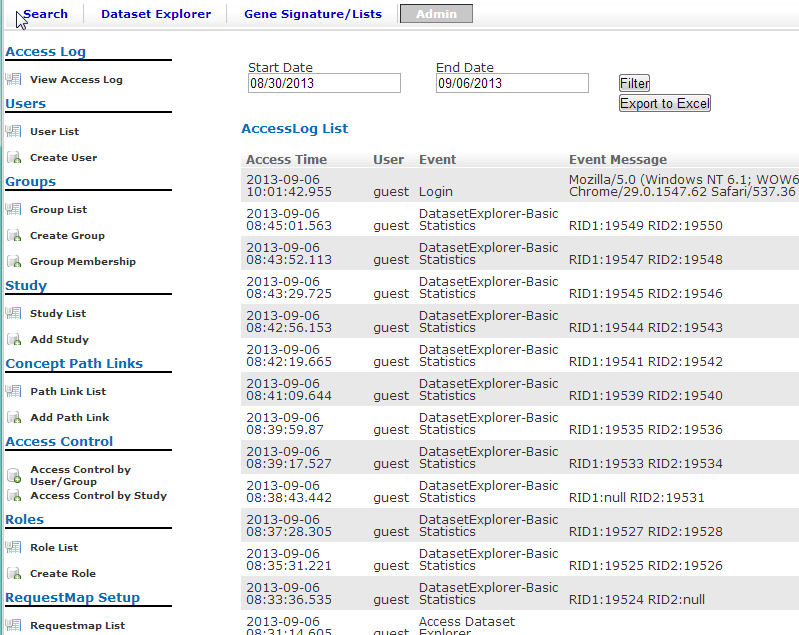
## The Administrator’s Console

To access the console where you perform administrator tasks, click the Admin tab:



**Note:** Only tranSMART users who are assigned the roleROLE\_ADMINcan see the Admin tab.

On initialization, the administrator’s console displays the tranSMART access log:



### Tasks in the Administrator’s Console

The tasks you can perform as administrator are listed vertically along the left edge of the administrator’s console. The following table summarizes the tasks:

|  |  |
| --- | --- |
| Administrator Task | Description |
| [View Access Log](#ViewAccessLog) | Display the tranSMART access log. |
| [Group List](#GroupList) | List all user groups, and edit or delete groups. |
| [Create Group](#CreateGroup) | Create a user group. |
| [Group Membership](#GroupMembership) | Add users to a group, or remove users from a group. |
| [User List](#UserList) | List of all tranSMART users, and edit or delete users. |
| [Create User](#CreateUser) | Create a tranSMART user. |
| [Access Control by Group](#AccessControlByGroup) | Grant users and groups access privileges to private Dataset Explorer studies, or remove access privileges for users and groups. |
| [Access Control by Study](#AccessControlByStudy) | Grant users and groups access privileges to private Dataset Explorer studies, or remove access privileges for users and groups. |
| [Study List](#StudyList) | List the Dataset Explorer studies that are protected by access control. |
| [Add Study](#AddStudy) | Designate a Dataset Explorer study as a secure object – that is, one that is protected by access control. |
| [Role List](#RoleList) | List all tranSMART roles, and edit or delete roles. |
| [Create Role](#CreateRole) | Create a tranSMART role. |
| [Requestmap List](#RequestmapList) | Display mappings between tranSMART roles and the tranSMART URLs that each role grants access to, and edit or delete mappings. |
| [Requestmap Create](#RequestmapCreate) | Create a mapping between a role and a tranSMART URL. |

Chapter

# Chapter 2: Managing tranSMART Users

Managing users involves the following tasks:

* Creating and editing user accounts
* Assigning users roles
* Assigning users and groups access rights to private Dataset Explorer studies

## Understanding User Roles and Access Rights

Users are granted permissions to access private Dataset Explorer studies in two ways:

* Through roles
* Through the access level assigned to the user or group for a private study

For information about access levels, see on page 27.

### User Roles

When you create or edit a user account, you can assign the user one or more of the roles in the table below.

For information on creating or editing a user account, see on page 9.

|  |  |
| --- | --- |
| Role | Permissions |
| ROLE\_SPECTATOR | **tranSMART Search**   * All functions   **Dataset Explorer**   * Access to a private study if the user is assigned a VIEW or EXPORT access level for the study. * Export ability for a private study if the user is assigned an EXPORT access level for the study. * Access to all studies in the Public Studies folder. No access level is required.   Note: Users with this role cannot be assigned the OWN access level for a study.  **Gene Signature**   * Create signatures * View/clone/export public signatures |
| ROLE\_STUDY\_OWNER | **tranSMART Search**   * All functions   **Dataset Explorer**   * Access to a private study if the user is assigned a VIEW, EXPORT, or OWN access level for the study. * Export ability for a private study if the user is assigned an EXPORT or OWN access level for the study. * Access to all studies in the Public Studies folder. No access level is required.   **Gene Signature**   * Create signatures * View/clone/export public signatures |
| ROLE\_DATASET\_EXPLORER\_ADMIN | **tranSMART Search**   * All functions   **Dataset Explorer**   * Access to all studies * Export ability for all studies   **Gene Signature**   * Create signatures * View/clone/export public signatures   Note: The Dataset Explorer administrator has no user administration permissions. |
| ROLE\_ADMIN | **tranSMART Search**   * All functions   **Dataset Explorer**   * Access to all studies * Export ability for all studies   **Gene Signature**   * Create signatures * Perform all operations on public and private signatures   **User Administration**   * Full user administration functions |
| ROLE\_PUBLIC\_USER | This is a limited-access role used for trainee accounts and for non-Johnson & Johnson users on the training server.  **tranSMART Search**   * Search functions against public data only. All search results exclude internal Johnson & Johnson data such as clinical trials and documents. Also, the Pictor, ResNet, and GeneGo tabs are hidden, as are links to Ariadne Pathway Studio.   **Dataset Explorer**   * Access to studies in the Public Studies folder only. * Export ability for all public studies.   **Gene Signature**   * Create signatures * View/clone/export public signatures |

**Note:** For information on creating new roles that you can assign to users, see on page 6.

### Access Rights to Dataset Explorer Studies

Dataset Explorer studies can be either public or private. Public studies are in the Public Studies folder of the Dataset Explorer navigation tree. All other studies are private.

Access rights to public and private studies are as follows:

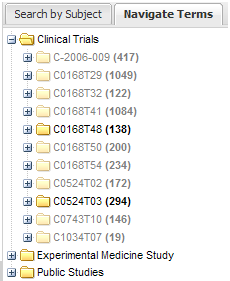
* Public studies

All tranSMART users have full access to the studies in the Public Studies folder. No access level is required for these studies.

* Private studies

By default, tranSMART users cannot access private studies. To allow a user to make comparisons between cohorts in a private study, you must grant the user access rights to that particular study.

If a user does not have access rights to a particular private study, the study is grayed out when the user displays the list of studies in the Dataset Explorer navigation tree. For example, in the following figure, the only private clinical studies the user has access to are C0168T48 and C0524T03:



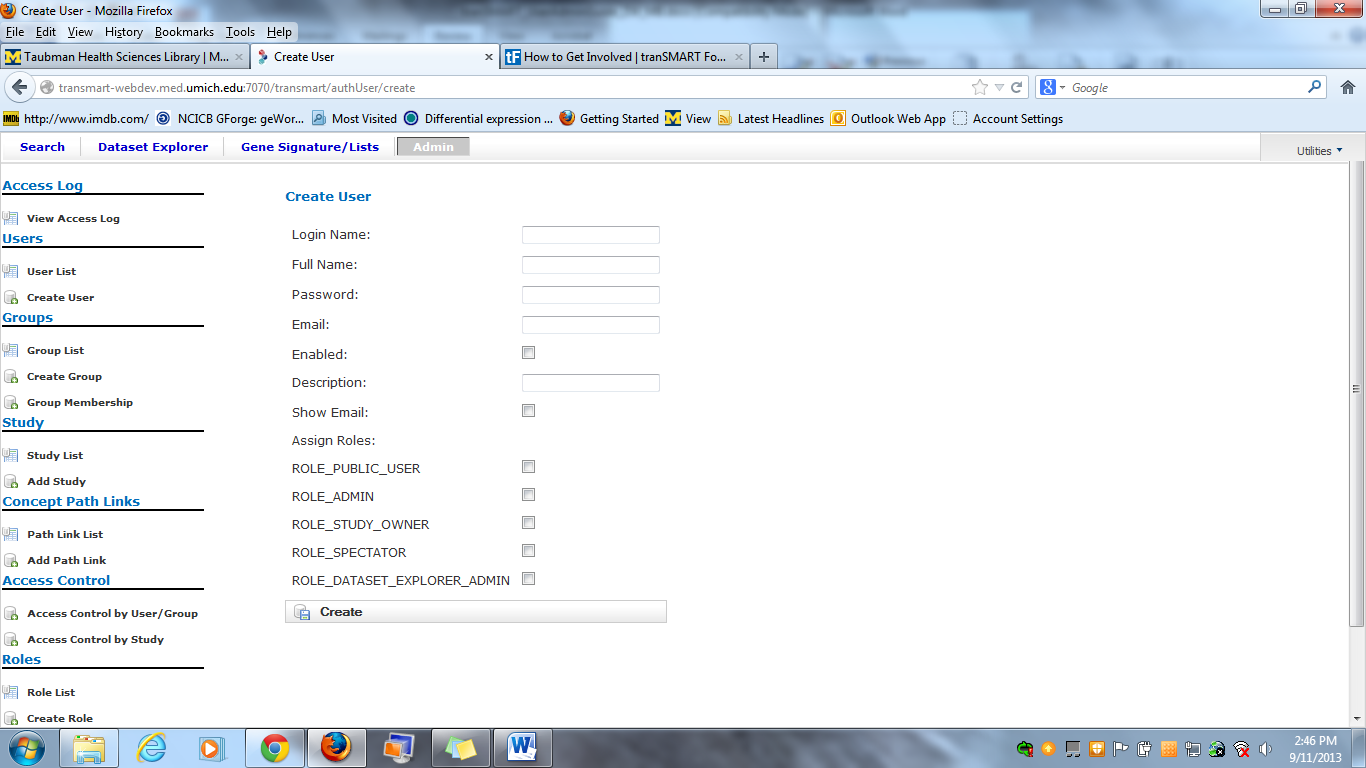
**Note:** Even if a user does not have access rights to a private study, the user can see a description of the study by right-clicking the study name in the navigation tree, and then clicking Show Definition.

## Managing User Accounts

### Creating a User Account

1. To create a user account:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Create User.

The Create User window appears:



* 1. Provide values for the fields in the Create AuthUser window, as follows:

|  |  |  |
| --- | --- | --- |
| Field | Description | Required |
| Login Name | The user’s login ID. | Yes |
| Full Name | The name to display in the tranSMART window for this user. | Yes |
| Password | This field is obsolete and will be removed in a future tranSMART release.  Type any random text in this field. Do not give the user the text you type. Do not leave the field blank. | No |
| Email | The user’s email address. | No |
| Enabled | Check this box to enable the user to log into tranSMART. If you leave the box blank, the user’s account is disabled, and the user will not be able to log into tranSMART. | No |
| Description | An optional description of the user.  The description appears in the user list (displayed with the User List task in the administrator’s console). | No |
| Show Email | Check this box to display the user’s email address.  Note: The email display functionality is reserved for future use. Currently, the user’s email address is displayed only when you or another User Administrator view or edit a user’s account. | No |
| Assign Roles | Assign one or more roles to the user by checking the boxes next to the names of the roles to assign.  If you do not check any of the boxes, the user will not be able to log into tranSMART.  Note: For information about the roles you can assign to the user, see the section on page 6. | Yes |

* 1. When finished defining the user account, click Create.

### Editing or Deleting a User Account

1. To edit or delete a user account:
   1. Click the Admin tab to display the administrator’s console.
   2. Click User List.

The AuthUser List window appears.

* 1. Click the column heading Full Name to sort the list of user names alphabetically.

Sorting the list may help you find the name in the list of users.

**Note:** You can sort any of the columns in the AuthUser List by clicking the column heading.

* 1. Locate the name of the user whose account you want to edit or delete.
  2. Click Show for the account to edit or delete:



The User window appears.

* 1. Take one of the following actions:
  + To delete the account, click Delete, then click OK to confirm the deletion.

**Note:** Deleting a user account does not delete the user’s records in the access log. Also, records of Dataset Explorer studies are independent of any associated user account. For example, if a user is the owner of a particular study, the study remains in Dataset Explorer even after the user is deleted, even if no other user has access privileges for the study.

* + To edit the account, click Edit. After making the edits, click Update.

Chapter

# Chapter 3: Managing tranSMART Roles

A role is mapped to one or more tranSMART URLs. Each URL provides access to a tranSMART resource.

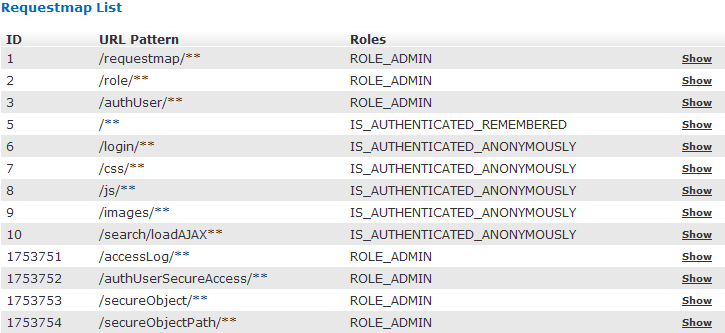
If a user is assigned a particular role, the user is able to access the URL mapped to the role, and therefore, to the resource available through the URL.

For example, the role ROLE\_ADMIN is mapped to the URL pattern /authUser/\*\* on the tranSMART site. At this location, users assigned ROLE\_ADMIN (that is, administrators like yourself) can view, create, edit, and delete tranSMART user accounts.

A URL pattern can be mapped to one or more roles. Since /authUser/\*\* is mapped to no other role than ROLE\_ADMIN, only users assigned this role can perform tasks on user accounts.

## Understanding Role / URL Mappings

Roles are mapped to URLs on the Requestmap List window of the administrator’s console:



URLs in this window are expressed as fragments of URLs called URL patterns. tranSMART determines the full URL to associate with a role by adding the URL pattern to the root URL for the tranSMART site. For example, if the tranSMART root URL is https://transmart.jnj.com/transmart and the URL pattern is /authUser/\*\*, the complete URL mapped to the role ROLE\_ADMIN is the following:

https://transmart.jnj.com/transmart/authUser/\*\*

The request map supports the \*\* pattern-matching characters. For example, in the above URL, the URL pattern /authUser/\*\* matches both of the following URLs:

|  |  |
| --- | --- |
| URL | Purpose |
| https://hostname/transmart/authUser/list | View, edit, and delete tranSMART users. |
| https://hostname/transmart/authUser/create | Create tranSMART users. |

### Default Role / URL Mappings

The following table describes the pre-defined mappings between tranSMART roles and URL patterns:

|  |  |  |
| --- | --- | --- |
| URL Pattern | Mapped Role | Purpose |
| /accessLog/\*\* | ROLE\_ADMIN | View the tranSMART access log.  When you click the Admin tab to access the administrator’s console, the log is displayed by default. |
| /authUser/\*\* | ROLE\_ADMIN | Create, view, edit, and delete tranSMART users.  Currently, only tranSMART administrators can perform these tasks. |
| /role/\*\* | ROLE\_ADMIN | Create, view, edit, and delete tranSMART roles.  Currently, only tranSMART administrators can perform these tasks. |
| /requestmap/\*\* | ROLE\_ADMIN | Create, view, edit, and delete mappings between roles and URLs.  Currently, only tranSMART administrators can perform these tasks. |
| /authUserSecureAccess/\*\* | ROLE\_ADMIN | Create, view, edit, and delete a user’s access rights to specific clinical trials. |
| /secureObject/\*\* | ROLE\_ADMIN | Create, view, edit, and delete IDs and other attributes of a clinical trial. |
| /secureObjectPath/\*\* | ROLE\_ADMIN | No longer used. |
| /\*\* | IS\_AUTHENTICATED\_REMEMBERED | Attempt to access any tranSMART URL.  Note that:   * If the user has not yet logged into tranSMART, the tranSMART login screen appears. * If the user successfully logs in, or if the user is already logged in, access to the specified URL depends upon the user’s role. |
| /login/\*\* | IS\_AUTHENTICATED\_ANONYMOUSLY | These URLs can be accessed by anyone. |
| /css/\*\* | IS\_AUTHENTICATED\_ANONYMOUSLY |
| /js/\*\* | IS\_AUTHENTICATED\_ANONYMOUSLY |
| /images/\*\* | IS\_AUTHENTICATED\_ANONYMOUSLY |
| /search/loadAJAX\*\* | IS\_AUTHENTICATED\_ANONYMOUSLY |

**Note:** The roles IS\_AUTHENTICATED\_REMEMBERED and IS\_AUTHENTICATED\_ANONYMOUSLY cannot be edited, deleted, or explicitly assigned to users.

## Managing User Roles

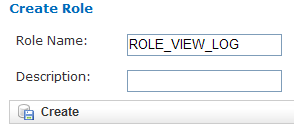
### Creating a Role

1. To create a tranSMART user role:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Create Role.

The Create Role window appears.

* 1. In Role Name, type a name for the role.

Role names must be upper case and must be prefixed with ROLE\_ – for example:



**Note:** In this example, a user assigned the role ROLE\_VIEW\_LOG can view the access log on the administrator’s console, but cannot perform any of the other tasks on the console.

* 1. In Description, type a description for the role.

A description is required.

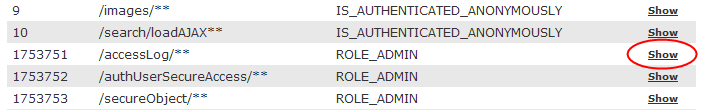
* 1. Click Create.

You must now map the role to a URL. Choose one of the following actions:

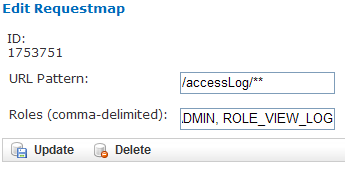
* + Adding a Role to an Existing Request Map (page 17)
  + Creating a New Request Map (page 17)

### Adding a Role to an Existing Request Map

* 1. If the administrator’s console isn’t already displayed, click the Admin tab to display it.
  2. Click Requestmap List.
  3. Click Show for the mapping to which you want to add a new role:



* 1. Click Edit.
  2. In Roles (comma-delimited), type a comma and a space character after the rightmost role in the field, then type the name of the role to add to the map.



* 1. Click Update.

### Creating a New Request Map

* 1. If the administrator’s console isn’t already displayed, click the Admin tab to display it.
  2. Click Requestmap Create.
  3. In URL Pattern, type the URL pattern to map to a role.

**Note:** Double-check your entry to ensure that the URL exists. tranSMART does not validate the entry.

* 1. In role (comma-delimited), type the role name in upper case.

If you are mapping multiple roles to the URL, separate the role names with a comma.

* 1. Click Create.

### Assigning a Role to a User

You assign a role to a user when you create or edit the user’s account. For instructions, see on page 9.

### Editing or Deleting a Role

1. To edit or delete a role:
   1. If the administrator’s console isn’t already displayed, click the Admin tab to display it.
   2. Click Role List.
   3. Click Show for the role to edit or delete.
   4. Take one of the following actions:
   * To delete the role, click Delete, then click OK to confirm the deletion.
   * To edit the role, click Edit. After making the edits, click Update.

### Editing or Deleting a Request Map

1. To edit or delete a mapping between a role and a URL:
   1. If the administrator’s console isn’t already displayed, click the Admin tab to display it.
   2. Click Requestmap List.
   3. Click Show for the map to edit or delete.
   4. Take one of the following actions:
   * To delete the map, click Delete, then click OK to confirm the deletion.
   * To edit the map, click Edit. After making the edits, click Update.

## Accessing the Administrator’s Console

There are two ways for a user to attempt to access the administrator’s console:

* Click the Admin tab on the tranSMART window (see on page 1).

The Admin tab is displayed only for users who are assigned the role ROLE\_ADMIN.

* Enter the complete URL for a task performed on the console.

For example, the following URL allows an administrator to create a new user:

https://transmart.jnj.com/transmart/authUser/create

A user who enters a URL for an administrative task, but who has not been assigned a role mapped to that URL, sees the following access-denied response:



### Partial Administrator Rights

If a user is assigned a role that is mapped to one of the tasks on the administrator’s console, that user can access the console and click on all of the links to administrator tasks. However, the only task the user will be allowed to perform is the one authorized through a role.

For example, suppose you create the role ROLE\_VIEW\_LOG to allow a user to view the tranSMART access log. A user with this role can view the log by entering the full URL for this administrator task – for example:

https://transmart.jnj.com/transmart/accessLog/list

However, if the user clicks on any of the other links on the administrator’s console, the access-denied message is displayed.

Chapter

# Chapter 4: Managing Security for Dataset Explorer Studies

Users are able to perform operations with private Dataset Explorer studies only if you or another administrator grant the user (or a group that the user belongs to) access rights to do so.

Before you can assign a user or a user group access rights to a protected study, the following tasks must be performed:

* 1. The study must be loaded into a database server (Development, QA, Production).

For information, see the tranSMART ETL Analyst’s Guide. tranSMART ETL Analyst’s Guide|group=ETLguide

* 1. You must protect the study by defining it as a secure object, using the tranSMART administrator’s console.

This step must be performed on the Development, QA, and Production servers separately, after the study has been loaded to the corresponding database server.

The following section describes how to perform this task.

## Managing Secure Objects

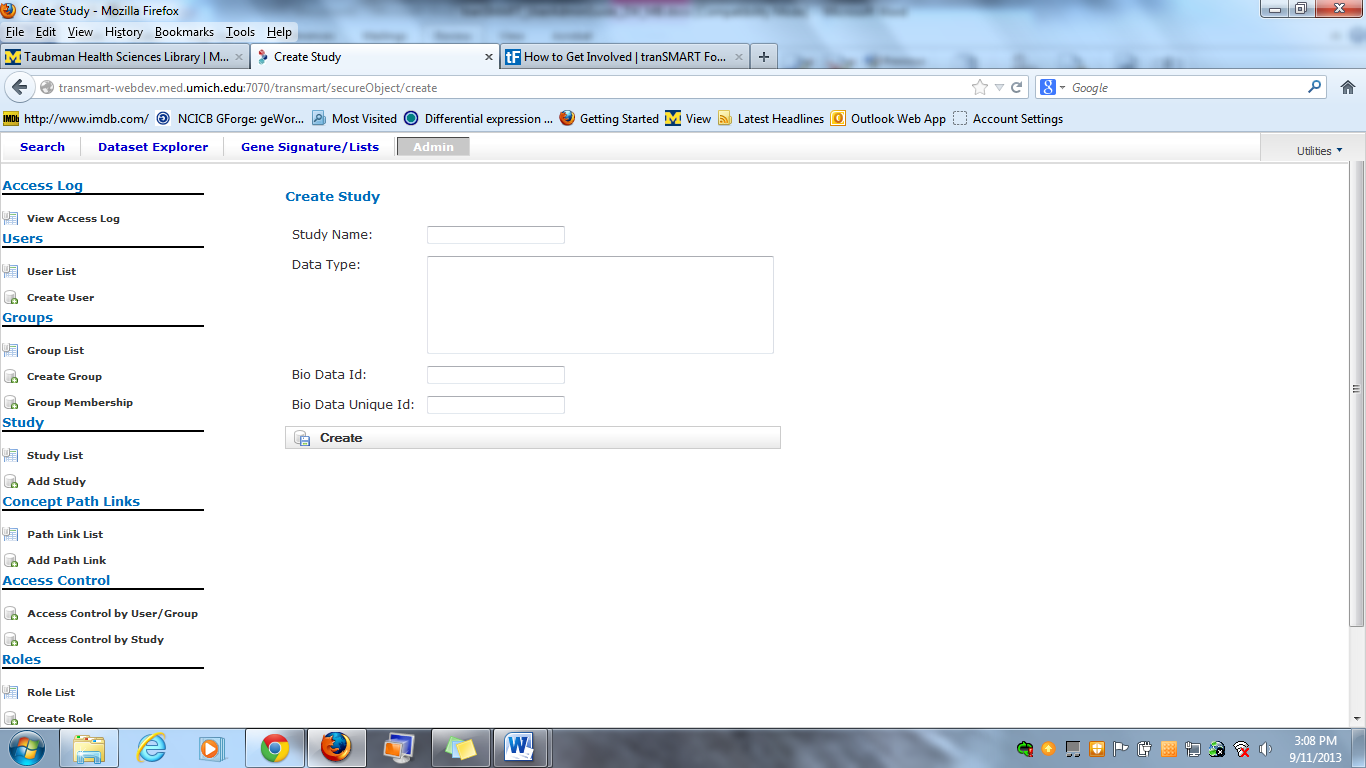
A secure object is a Dataset Explorer study that has restricted access. All studies except those in the Dataset Explorer Public Studies node should be defined as secure objects.

### Defining a Secure Object

**Note:** To define a secure object in the administrator’s console, you must have access to the information in the SEARCH\_SECURE\_OBJECT table (SEARCHAPP schema) for the study you are defining as a secure object.

1. To define a Dataset Explorer study as a secure object:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Add Study.

The Create SecureObject window appears:



Note that the fields in the Create SecureObject window correspond to columns in the SEARCH\_SECURE\_OBJECT table, as follows:

|  |  |
| --- | --- |
| Create SecureObject Field | SEARCH\_SECURE\_OBJECT Column |
| Bio Data Id | BIO\_DATA\_ID |
| Data Type | DATA\_TYPE |
| Bio Data Unique Id | BIO\_DATA\_UNIQUE\_ID |
| Study Name | STUDY\_NAME |

* 1. Type the values from the SEARCH\_SECURE\_OBJECT table into the corresponding fields of the Create SecureObject window.
  2. Click Create.

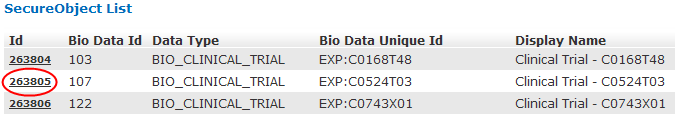
The Show SecureObject window appears, confirming the addition of the secure object.

### Editing or Deleting a Secure Object

1. To edit or delete a secure object definition:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Study List.

The SecureObject List window appears.

* 1. Click the ID of the secure object to edit or delete:



* 1. Take one of the following actions:
  + To delete the secure object, click Delete, then click OK to confirm the deletion.
  + To edit the secure object, click Edit. After making the edits, click Update.

**Note:** The Concept Paths field contains a link to SecureObjectPath. This path is no longer used and does not need to be defined.

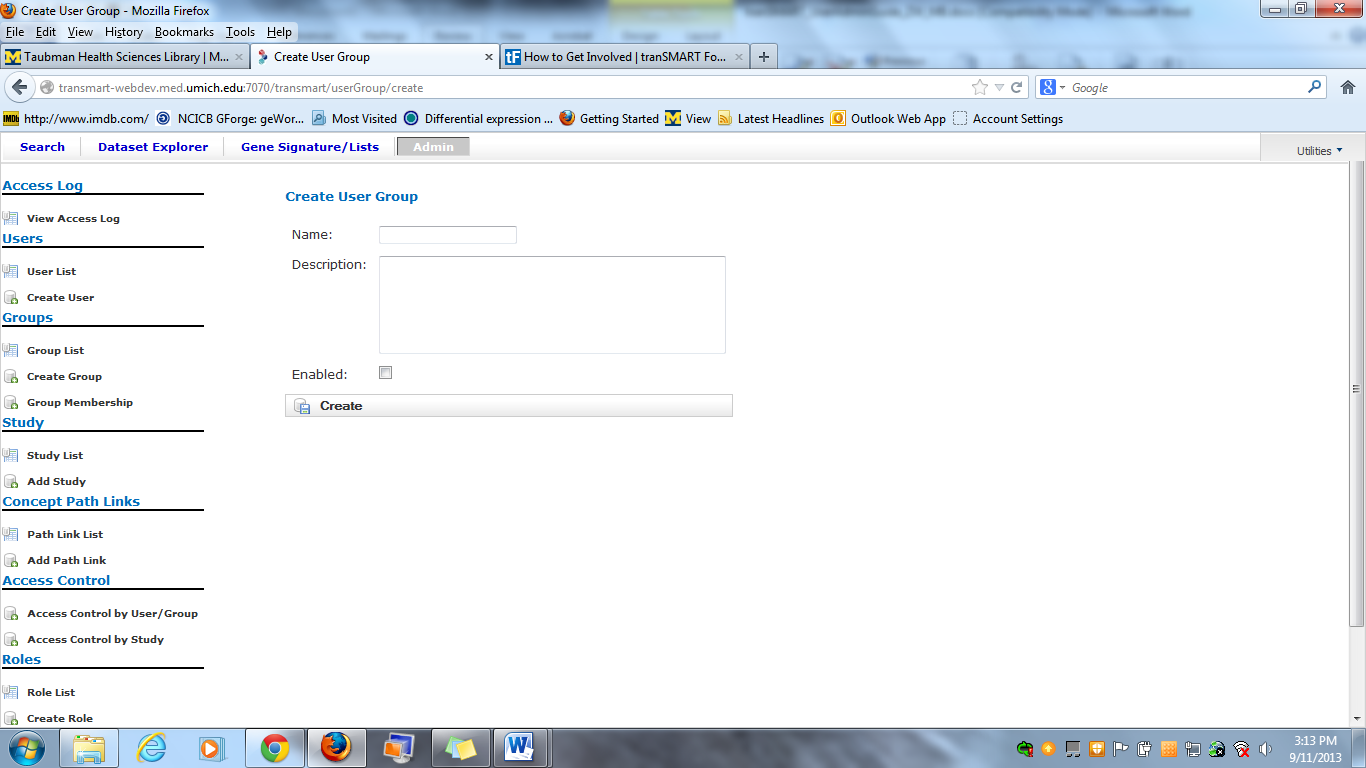
## Managing Groups

Access privileges for a study can be assigned to users individually or to a group of users. Assigning access privileges to a group of users can be more convenient than assigning privileges individually.

### Creating a Group

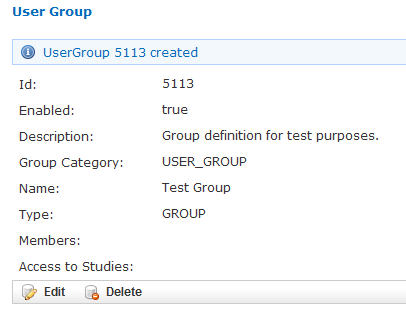
1. To create a group:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Create Group.

The following window appears:



* 1. In Name, assign a name to the group.
  2. Optionally, in Description, type an optional description of the group.
  3. To enable the group’s privileges, select Enabled.
  4. Leave Unique ID blank. A unique ID will be assigned to the group.
  5. Click Create.

In the following figure, the group Test Group has been created. Note that it currently has no members or privileges to access any studies.



### Managing a Group’s Users

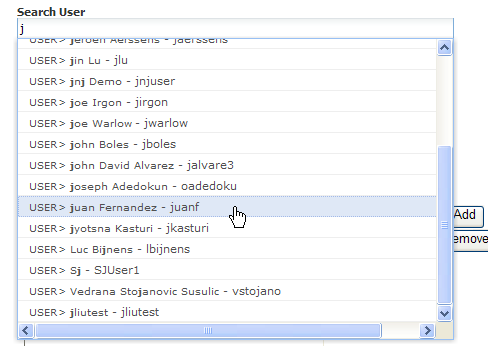
1. To add users to a group, or remove users from a group:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Group Membership.

The following window appears:



* 1. In Search User, type part or all of a user name, then select the name from the autotype dropdown.

In the following figure, user Juan Fernandez is being selected:



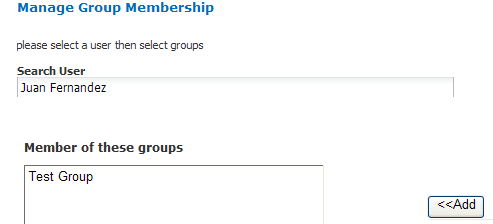
Next you will specify the group that the user is being added to or removed from.

* 1. Click Search Groups.

The list of the available groups appears in the Available groups box.

* 1. Click the group name, then click Add to add the user to the group, or Remove to remove the user from the group.

In the figure below, the specified user has been added to the group Test Group:



* 1. Click another administrative task, or leave the administrator’s console. No “Save” action is required.

### Editing or Deleting a Group

1. To edit or delete a group:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Group List.
   3. Click the ID of the group to edit or delete.
   4. In the User Group window, click Edit or Delete:
   * If editing, make the changes and click Update.

You may need to scroll down to the bottom of the window to see the edit fields.

* + If deleting, click Delete, then click OK to confirm the deletion.

## Managing Access Privileges

You assign a user or group access privileges to a study by assigning the user or group a particular access level for the study. Access levels determine the kinds of operations that the user can perform when accessing the study.

### Access Levels

Individual users and groups of users can be assigned the following access levels for a study:

|  |  |
| --- | --- |
| Access Level | Description |
| OWN | User is the owner of the study with full access privileges. |
| EXPORT | User is not the owner of the study, but the user can define cohorts and points of comparison from the study. The user can also export all generated summary statistics and comparison data to a Microsoft Excel spreadsheet. |
| VIEW | User is not the owner of the study, but the user can define cohorts and points of comparison from the study. However, the user cannot export any data. |

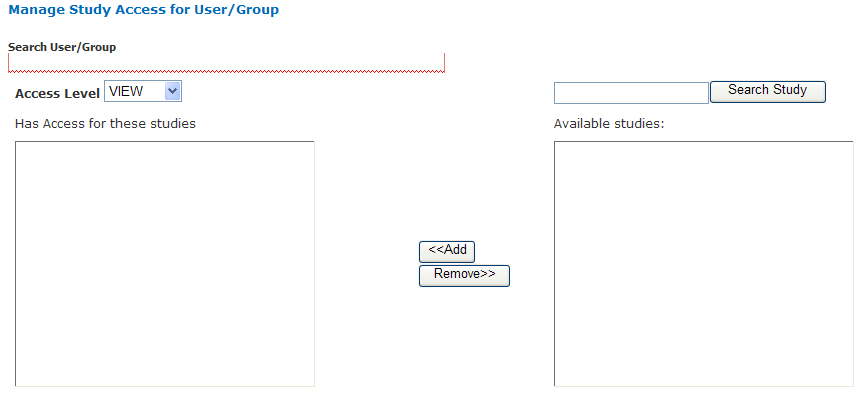
### Managing Access Privileges for a User or Group

In the Manage Study Access for User/Group window, you can perform the following tasks:

* Assign or remove access privileges to one or more studies for a user or group.
* Assign the access level for the access privileges.

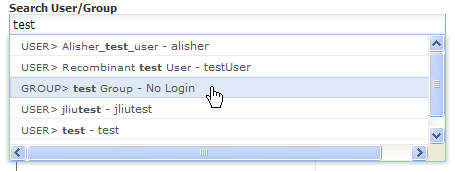
1. To assign a user or group access privileges for a study:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Access Control by **User/**Group.

The following window appears:



* 1. In Search User/Group, type part or all of a user or group name, then select the name from the autotype dropdown.

In the following figure, the group Test Group is being selected:

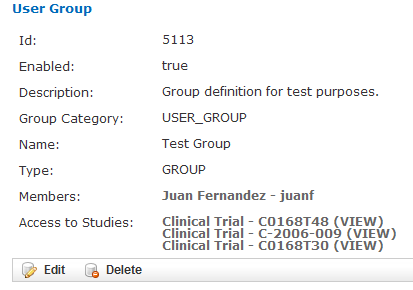


* 1. In the Available studies box, select one or more studies that the members of the group can access, then click Add.
  2. In Access Level, select the access level (VIEW, EXPORT, OWN), to give to the members of the group for the selected studies.

For descriptions of these access levels, see on page 27.

* 1. Click another administrative task, or leave the administrator’s console. No “Save” action is required.

If you now click Groups > Group List, and then click the ID of the new group you created in on page 23, you will see the members of the groups the studies to which the members have access privileges, and the access level for each study:



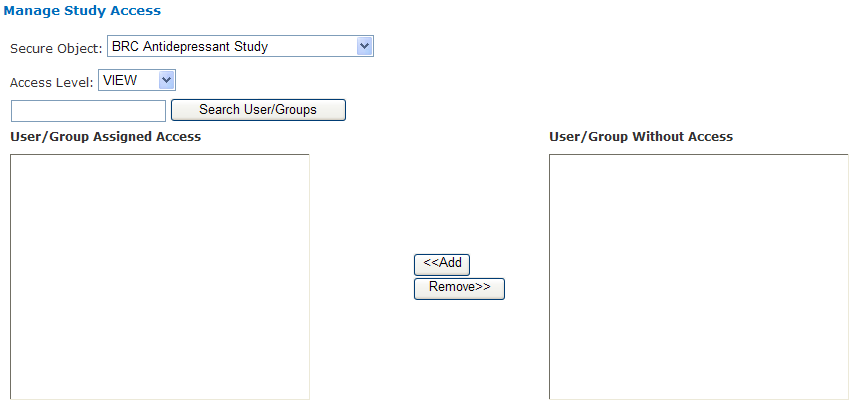
### Managing Access Privileges for a Study

In the Manage Study Access window, you can perform the following tasks:

* Assign or remove access privileges to one or more users or groups for a secure object (such as a study or an entire study category).
* Assign the access level for the access privileges.

1. To grant access privileges to a study:
   1. Click the Admin tab to display the administrator’s console.
   2. Click Access Control by Study.

The following window appears:



* 1. In Secure Object, select the study or study category to which access is being granted.
  2. In the User/Group Without Access box, select the users and/or groups who can access the secure object, then click Add.
  3. In Access Level, select the access level (VIEW, EXPORT, OWN) for accessing this secure object by the selected users/ groups.

For descriptions of these access levels, see on page 27.

* 1. Click another administrative task, or leave the administrator’s console. No “Save” action is required.

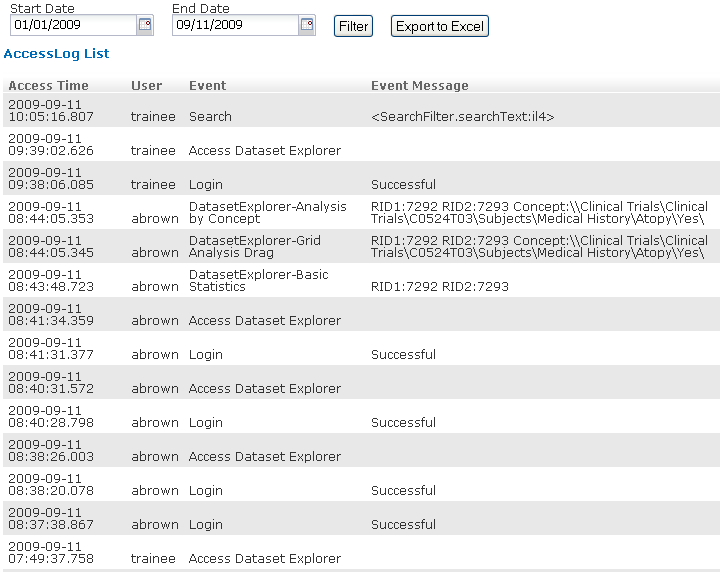
Chapter

# Chapter 5: Viewing the tranSMART Access Log

The Access Log lets you view tranSMART events such as logins, logouts, searches, and Dataset Explorer analyses. For each event, the log notes the time and date of the event and the user who performed the operation.

The access log displays events beginning with the most recent.

The following figure shows an example of the access log.



## Displaying the Access Log

When you open the administrator’s console, the log is displayed by default.

If you are in a different window of the administrator’s console and want to display the access log, click View Access Log.

## Exporting the Access Log to a Spreadsheet

1. To export the access log to a Microsoft Excel spreadsheet:
   1. With the access log displayed, click Export to Excel.
   2. Specify whether you want to display the access log within a spreadsheet, or immediately save the spreadsheet to a file.

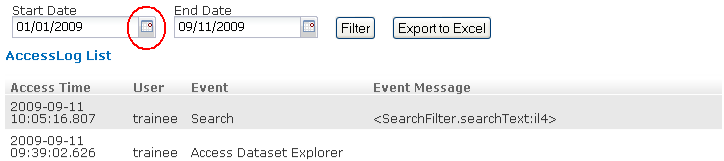
## Specifying the Timeframe for the Access Log

By default, the log shows all events, starting with the most recent event and extending back to the earliest.

You can specify a particular timeframe for the events you want to display or export.

1. To specify a timeframe:
   1. With the access log displayed, type the date of the earliest events to display in the Start Date field.

Alternatively, select the start date by clicking the calendar icon circled in red below, and then using the calendar controls to select the date:



* 1. Repeat Step 1 for the End Date field.
  2. Click Filter.