


3 - Managing a Study or Platform

This chapter describes the processes for managing studies or platforms within caIntegrator.

Topics in this chapter include:

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Managing a Study

**Note**

A user without management privileges has no access to this section of caIntegrator.

Once you have started to create a study or have deployed it, you can view metadata for the study on the Manage Studies page. For example, the metadata reveals the deployment start and finish dates and times, and whether or not caArray genomic data imported into the study has been updated since deployment. (caIntegrator refreshes caArray data hourly.) If you see that the caArray data has been updated, you could go to the study itself and ascertain the changes. You may decide to keep it as it is or redeploy the study.

Additionally, on this page you can update the study in the following ways:

- Add new attributes (annotations) and upload relevant data to the existing study.
- Disable or re-enable a study
- Delete the study
- Modify existing annotation definitions
- Reload a subset of a study data and re-deploy the study and perform new analyses
- Re-deploy the entire study with new set of data and mappings.

Editing or Updating a Study

To update, edit or delete a study, follow these steps:

1. On the left sidebar, click **Manage Studies**. The Manage Studies page appears, shown in the following figure.

Manage Studies

View studies and click Edit to modify or click Delete.

Name	Description	Last Modified By	Status	Deployment Start Date	Deployment Finish Date	caArray Data Updated	Action
Copy of meyer180technrb	Copy of tcga060137	qa1admin	Not Deployed			No	Edit Copy Disable Delete
Copy of test032812c	Copy of ETABM456	qa1admin	Not Deployed	2012/03/28 12:57:08	2012/03/28 12:57:12	No	Edit Copy Disable Delete
ispy1agilent	Test of refresh feature	qa1admin	Deployed	2012/04/27 12:05:42	2012/04/27 12:08:36	Yes	Edit Copy Disable Delete
JP test021312a	Copy of test021312a	qa1admin	Not Deployed			No	Edit Copy Disable Delete
meyer180technrb	tcga060137	qa1admin	Error	2012/03/26 11:14:59		No	Edit Copy Disable Delete
meyer180technrb	tcga060137	qa1admin	Not Deployed	2012/03/26 10:53:11	2012/03/26 10:55:37	No	Edit Copy Disable Delete
test032812c				2012/03/28 12:57:08	2012/03/28 12:57:12	No	Edit Copy Disable Delete

All of the "in process" or "completed" studies display on this page with associated metadata. Note that whoever edited or updated the study last is shown in the Last Modified Column, indicated as the Study Manager.

- Click the **Edit** link corresponding to your study of choice to open the Edit Studies page, shown in the following figure.

Edit Study

Configure your study, and click the **Save** or **Deploy Study** button at the bottom of the page when complete.

Study Overview

Study Name: Demo Study based on Rembrandt with NCRI data

Study Description: Rembrandt with NCRI. Study created via selenium.

Study Logo: None
 Logo File: Browse...
 Upload Now

Allow public to browse this study: ☐

Status: Deployed
 Status Description: Minutes for deployment (approx): 3
 Owner: marplej
 Last Modified By: manager
 Last Modified Date: 03/25/2010 08:45:43

Study Log: [View Log](#) [Edit Log](#)

Annotation Groups [Add New](#)

Group Name	Description	Number of Annotations	Action
Annotations - Default	Default annotation group	28	

Subject Annotation Data Sources [Add New](#) [Edit Survival Values](#)

Type	Description	Status	Last Modified	Action
DELIMITED_TEXT	rembrandt_clinical_Aug08_subset_mod_for_NCRI.csv	Loaded	Unavailable	Edit Annotations Reload

Genomic Data Sources [Add New](#)

Host Name	Experiment Identifier	File Description	Data Type	Status	Last Modified	Action
array.nci.nih.gov	jagla-00034	Mapping File: None Configured Control Sample Mapping File(s): None Configured	Expression	Loaded	Unavailable	Edit Edit Annotations

Imaging Data Sources [Add New](#)

Host Name	Collection Name	File Description	Status	Last Modified	Action
imaging.nci.nih.gov	NCRI	Annotation File: nci_image_annotations.csv Mapping File: nci_image_mapping.csv	Loaded	Unavailable	Edit Edit Annotations

External Links [Add New](#)

Name	Description	File Name	Number of Links
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On this page you can edit any details such as adding or deleting files, survival values, and so forth. For information about working with the Edit Study feature, see [Creating or Editing a Study](#).

- Click the **Delete** link to delete the corresponding study.

Copying a Study

On the Manage Studies page, you can copy an existing study. To do so, follow these steps:

- On the left sidebar, click **Manage Studies**. The Manage Studies page appears, displaying the studies for which you have permissions.
- In the Action column, click the **Copy** link corresponding to your study of choice. This opens the Edit Study page with enough data from the original study pre-filled that you can deploy the copied study immediately if you wish.
- You can add or edit any of the fields on the page, including the name of the study. Click **Save** to save the copied study.
- If you later decide to delete the copied study, you can do so from the Manage Studies page.

calIntegrator conventions regarding copying studies are described in the following points:

- The copied study is assigned the name of "Copy of <existing study name>".
- Data that are pre-filled from the existing study are the name, descriptions, logo, annotation groups, subject annotation data sources and external links.
- Genomic and imaging data sources are pre-filled, but no mappings are duplicated.
- The study log from the original study is not copied. The log for the copied study indicates that the study was "copied from <existing study> with <deployment date of original study>".

Disabling or Re-enabling a Study

Only the study manager of a study can disable or re-enable a study. To perform either of these tasks, follow these steps:

- On the left sidebar, click **Manage Studies**. The Manage Studies page appears, displaying the studies for which you have permissions.
- In the Action column, click the **Disable** link corresponding to your study of choice.
- To re-enable a study, click the **Enable** link corresponding to the selected study.

The Manage Studies page refreshes after clicking either of these links. The page now shows that the changed status of the study.

- Disabling a study is recorded in the study log.
- A disabled study is not searchable nor available to any user.
- A disabled study cannot be edited nor copied; the Edit and Copy links become unavailable when the study is disabled.
- When a study is re-enabled, there is no data change to the study from the original.
- A disabled study being re-enabled must not duplicate the name of a currently enabled study.

Managing Study Access

calIntegrator provides role based security which can be used to limit access to studies based on [user-assigned roles](#).

User groups are created in UPT by a UPT Admin. For more information, see [Creating a New User Group](#).

Study access is managed on the Edit Study page. When you click Manage Studies on the left sidebar, calIntegrator lists the studies that have been created and/or deployed on the Manage Studies page. Click a study to open the Edit Studies page.

At the bottom of the study page, the Authorize User Groups feature displays. This section is empty when the study is first configured. The following figure displays an two example users groups.

User Group Name	User Group Description	Action
qa1admingroup		Edit Authorization Delete
qa2admingroup		Edit Authorization Delete

[Deploy Study](#) [Save](#) [Cancel](#)

To configure access to a study, follow these steps.

1. Click **Activate Group Authorization**. The Authorize Additional User Groups page opens, listing all user groups that have been created by name and description.
2. Select one group you want to have access to the study and click "Authorize This Group". calIntegrator returns to the Edit Study page, showing the user group authorized with access to this study.
3. You can authorize additional groups, edit the authorization or delete it by selecting either of the buttons under Authorized User Groups on the Edit Study page.
4. Select **Save** at the bottom of the Edit Study page to confirm the group you have authorized for study access.

Once the authorization is assigned, study investigators in the user group can query and analyze clinical and genomic data or annotation data for the subjects/patients (studies) to which they have been granted access.

Editing User Group Authorization



Timing of user group authorization

Some users report that the functionality of managing user group authorization works best if done POST-DEPLOYMENT of the study. If done prior to deployment, there were issues with the consistency of performance.

To edit authorized user groups, follow these steps:

1. Go to any study > **Authorized User Groups** > **Activate Group Authorization**.
2. On the Authorize Additional User Groups page, authorize one or more groups. When you finish, calIntegrator returns you to the Edit Study page and a new **Edit Authorization** button becomes available.
3. If you select the **Edit Authorization** button, you are redirected to the Edit User Group Authorization page (example shown below) where you can manage the authorization group permissions to see or not see a particular part of the study. You can specify the data the group named in the dialog can see, or you can specify other restrictions the screen displays by checking or unchecking corresponding boxes.

Edit User Group Authorization

Group Name: qa2admingroup

Group Description:

Group Members: admin2, qa

Can see these data:

- tcgagbm_drug_group
 - ☒ bcr_drug_barcode
 - ☒ days_to_drug_therapy_end
 - ☒ days_to_drug_therapy_start
 - ☒ drug_category
 - ☒ drug_name
 - ☒ number_cycles
 - ☐ regimen_indication
 - ☐ route_of_administration
 - ☐ therapy_ongoing
 - ☐ total_dose
 - ☐ total_dose_units
- tcgagbm_examination_group
 - ☒ eastern_cancer_oncology_group
 - ☒ karnofsky_performance_score

Molecular Data

- Expression Experiments
 - ☒ meyer-00180
 - ☐ total-00047
- Copy Number Experiments

Restrict Subject by:

- gender
 - ☒ FEMALE
 - ☐ MALE

Save Cancel

Managing Platforms

calIntegrator supports a limited number of array platforms, all of which originate from Agilent or Affymetrix. While they do not represent all of the platforms supported by caArray, calIntegrator must have array definitions loaded for the platforms it supports, and be able to properly load the data from caArray and parse it. For more information, see [B - Platforms Supported by calIntegrator](#).

You can create a study without genomic data, but you cannot add genomic data to a calIntegrator study without a corresponding supported array platform. If you add more than one set of genomic data to the study, you can specify more than one platform for the study.

On the Manage Platforms page, you can identify, add or remove supported platforms.

To manage platforms in calIntegrator, follow these steps:

1. Click **Manage Platforms** on the left sidebar.

The Manage Platforms page that opens lists in the Existing Platforms section the platforms calIntegrator currently supports, those that the system can pull from caArray. See the following figure. You can also add a new platform by entering information in the fields in the Create a New Platform section.

Manage Platforms

Click **Create Platform** to upload a new platform or view existing platforms.

Create a New Platform

Platform Type: Affymetrix Gene Expression

Annotation File: Browse...

(csv file format)

Create Platform

Existing Platforms

Platform Name	Platform Type	Platform Channel Type	Vendor	Array Name(s)
Agilent-022522	Agilent Copy Number	Two-Color	Agilent	Agilent-022522
AgilentG4502A_07_01	Agilent Gene Expression	Two-Color	Agilent	AgilentG4502A_07_01
AgilentG4502A_07_3	Agilent Gene Expression	Two-Color	Agilent	AgilentG4502A_07_3
GeneChip Human Mapping 100K Set	Affymetrix Copy Number	One-Color	Affymetrix	Mapping50K_Hind240, Mapping
GenomeWideSNP_6_Full	Affymetrix SNP	Two-Color	Affymetrix	GenomeWideSNP_6
HG-U133_2	Affymetrix Gene Expression	One-Color	Affymetrix	HG-U133_Plus_2

2. To add a platform, in the Platform Type field, select the appropriate platform type from the drop down list.
3. Click **Browse** to navigate for the Affymetrix or Agilent file you want to add.

**Note**

Tab-delimited .txt or .tsv Agilent platform annotation files must contain the following column headers: Probeld, GeneSymbol, GeneName and Accessions.

4. Enter a **Platform Name** if the file is a NON-GEML.xml file.
Depending on the Platform Type you select, there may be other parameters to provide here as well, such as **Platform Channel Type** for an Agilent platform.
5. Click the **Browse** button to browse for the appropriate annotation file.
6. When you have located it, click **Open** in the Upload File dialog box. The system displays the annotation file you select in the Annotation File box.
7. Once all parameters have been entered, click **Create Platform**.

The platform deployment can be time-consuming. If the platform takes more than 12 hours to deploy, calIntegrator displays a "timed out" message. At that point, you can delete the platform, even if it has not loaded to the system.

**Note**

Platform loading can fail if the manufacturer's platform annotation file is missing data.