

Commonly Used Resources

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About



This feature is available in version 2.0-MS1.11 and later.

In order to avoid unnecessary duplication of data across institutions, increase standardization, and ease as much of the burden of data entry on users as possible, we have introduced a new concept known as **Commonly Used Resources**. This feature alleviates the need for duplication of common resources in each institutional node: rather than linking a record to a locally-created instance of a very common resource, users may now link to an instance in a centrally-curated collection that resides in a dedicated 'global' repository. This eliminates the need for locally-created copies of common resources such as major manufacturers and government agencies.

This concept has been internally referenced as 'globals' and this is reflected in the choice of configuration property names. These resources will reside in a central repository that is maintained by the eagle-i team, although all institutions will have read-access to it. We strongly encourage users to select from **Commonly Used Resources** wherever appropriate when entering data in SWEET.

As of the 2.0-MS1.11 release, only resources that link to the following resource types are affected by the implementation of the **Commonly Used Resources**:

1. [Private Company](#)
2. [Government Agency](#)

Application effect

SWEET - background effect

Once the SWEET application has been configured to use **Commonly Used Resources**, the application will periodically query the **Commonly Used Resources** data repository for a minimal set (label and URI) of information from the published data. SWEET will then place a local copy of this minimal set of information in its own data repository, in a specialized graph (`NG_GlobalProxy`). Subsequent uses of SWEET will present selections for the user from this specialized graph, as well as the default and published graphs.

SWEET - entering data

In fields that have one of the above mentioned types as a range, users will now see a new group of listings at the top:

The screenshot shows a dropdown menu for the 'Organization' field. At the top, there is a section titled 'Commonly Used Resources' which is highlighted with a red arrow and the text 'New Group of Listings'. This section lists various organizations, including 3M, A.E. Thorson & Sons Manufacturing, A.M. Bickford Inc., AB Sciex, Abaxis, Abbott Laboratories, Abcam plc, AbD Serotec, ABM, Inc., Abnova Corporation, Accelrys, Inc., Accurate Chemical & Scientific Corporation, AccuScan Instruments, Inc., ACR Image Matrix, ADInstruments, Adobe Systems Incorporated, Advanced Analytical Technologies, Inc., Advanced Chemistry Development, Inc., Advanced Realtime Tracking GmbH, Advanced Transport Refrigeration & Air Conditioning, Advion BioSciences, Inc., AEI Technologies, Inc., Affymetrix, Inc., and Aencv for Toxic Substances and Disease Registry. Below this section, there is a section titled 'All Other Resources' which lists various other organizations and programs, including Alaska Basic Neuroscience Program, Alaska Cooperative Fish and Wildlife Research Unit, Alaska Stable Isotope Facility, Animal Quarters Core Laboratory, Animals And Things Lab (TEST), Applied Science, Engineering, and Technology Laboratory, Barboza Laboratory, Barnes Laboratory, Bioinformatics Core, Built-Ito Laboratory, Burkhead Lab, Center for Alaska Native Health Research, Center for Behavioral Health Research and Services, Center for Inherited Disease Research, Johns Hopkins University, Community Engagement and Clinical Support Core, D. O'Brien Laboratory, and Department of Biology & Wildlife, University of Alaska.

Resources that are **not Commonly Used Resources** will be listed at the bottom:

The screenshot shows a dropdown menu for the 'Organization' field. At the bottom, there is a section titled 'All Other Resources' which is highlighted with a red arrow and the text 'Resources that belong to the institution'. This section lists various organizations and programs, including Alaska Basic Neuroscience Program, Alaska Cooperative Fish and Wildlife Research Unit, Alaska Stable Isotope Facility, Animal Quarters Core Laboratory, Animals And Things Lab (TEST), Applied Science, Engineering, and Technology Laboratory, Barboza Laboratory, Barnes Laboratory, Bioinformatics Core, Built-Ito Laboratory, Burkhead Lab, Center for Alaska Native Health Research, Center for Behavioral Health Research and Services, Center for Inherited Disease Research, Johns Hopkins University, Community Engagement and Clinical Support Core, D. O'Brien Laboratory, and Department of Biology & Wildlife, University of Alaska.

All other applications

From the perspective of the other eagle-i applications (such as search or dissemination pages), there is no visible effect. The triples containing the **Commonly Used Resources** will contain an object value that will be resolved by the 'global' repository.

Use

Configuration



- This section documents how institutions/clients can use **Commonly Used Resources** in their applications.
- This section does **not** detail how to set up the **Commonly Used Resources** data repository itself.
- This section requires administrative access to the institution's data repository.

To start using this feature in your institution's installation, please follow these steps:

1. Create a new user to the data repository

In order for the SWEET application to locally cache the minimal information about **Commonly Used Resources** in the institution's data repository, a new user needs to be created that has the ability to add, remove, and read the `NG_GlobalProxy` graph in the institution's data repository. See [creating repository users](#) for details on how to create a new user.

- Create a new user with a role of **Automated Agent**. In this example, the username for the new user is `GlobalUser` and the password is `GlobalPw`. We will be referring to this new user in other parts of this section.

Creating a New User

Input fields labelled in RED are required

Username:

First Name:

Last Name:

Mailbox:

Password:

Confirm Password:

Roles:

Use CTRL-click or COMMAND-click to select / deselect multiple Roles.

[Back to User List page](#)

[Create a New User Account](#)

[Return to Admin top level](#)

2. Edit configuration files

The next step is to edit the configuration files to tell the applications what credentials SWEET should use to cache the **Commonly Used Resources** data locally, how often should SWEET update its **Commonly Used Resources** data, and where to find the **Commonly Used Resources**. For this step, we will be editing the configuration files that are located in the eagle-i home directory, `${EAGLE_I_HOME}`, in the `conf` directory and in the `.config` directory.

a. eagle-i-apps-credentials.properties

To let the SWEET application know the credentials for this new user, a new set of properties needs to be added to the credentials property file. This file is located in the `.config` directory of the `${EAGLE_I_HOME}` directory, e.g. `/opt/eaglei/.config/eagle-i-apps-credentials.properties`.

Add the following lines to the `eagle-i-apps-credentials.properties` file:

```
# GLOBAL SERVICE
eaglei.datatools.globals.user=GlobalUser
eaglei.datatools.globals.password=GlobalPw
```

Please substitute the username and password that you have created for the example ones.

b. eagle-i-apps.properties

This file is located in the `conf` directory of the `${EAGLE_I_HOME}` directory, e.g. `/opt/eaglei/conf/eagle-i-apps.properties`.

- To let the applications know to use **Commonly Used Resources** data repository and where that repository is, add the following lines to the `eagle-i-apps.properties` file:

```
## -- GLOBALS --
# True if datatools needs to reach out to a global repository; Default is FALSE.
# NB: If setting this to true, be sure to add the other properties that are needed
# for configuring the global repository communication
eaglei.datatools.uses.globals=true

# the URL where the global data repository resides
eaglei.datatools.globalRepository.url=https://global.eagle-i.net
```

- To let SWEET know how often it should update its `NG_GlobalProxy` with data from **Commonly Used Resources** repository, add the following lines to the `eagle-i-apps.properties` file:

```
# the frequency to perform the polling for global information
eaglei.datatools.globalPolling.frequency=12

# the time unit for the frequency, *must* be one of java.util.concurrent.TimeUnit
# [DAYS, HOURS, MINUTES, SECONDS, MILLISECONDS, MICROSECONDS, NANOSECONDS]
eaglei.datatools.globalPolling.unit=HOURS
## -- END GLOBALS --
```

You can tweak the frequency as you see fit, however we recommend 12 hours as the polling frequency.

c. whoami.xml

Insert the following snippet at the beginning of your `whoami.xml` file, after the `<local>` tag:

```
<global url="http://global.eagle-i.net">
  <institutionList>
    <institution URI="http://purl.org/eagle-i/app-ext/#ERO_0000065_29" graphURI="
test29">
      <namespace>global.eagle-i.net</namespace>
      <logoSrc>images/logo_global.png</logoSrc>
    </institution>
  </institutionList>
</global>
```

Here is an example of a complete `whoami.xml` file with the new information about the **Commonly Used Resources**:

```
<?xml version="1.0" encoding="UTF-8"?>
<local>
  <global url="http://global.eagle-i.net">
    <institutionList>
      <institution URI="http://purl.org/eagle-i/app-ext/#ERO_0000065_29">
        <namespace>global.eagle-i.net</namespace>
        <logoSrc>images/logo_global.png</logoSrc>
      </institution>
    </institutionList>
  </global>
  <node url="http://foo.bar.edu">
    <institutionList>
      <institution URI="http://purl.org/eagle-i/app-ext/#ERO_0000065_3"
graphURI="test3">
        <namespace>foo.bar.edu</namespace>
        <label>Furry Object Orientation University</label>
        <logoSrc>images/logo_foo.png</logoSrc>
      </institution>
    </institutionList>
  </node>
</local>
```

3. Restart tomcat

Finally, restart tomcat to pick up the changes to the configuration files.

New Commonly Used Resource

At this time, if there is not a **Commonly Used Resources** that corresponds to your needs, you may still create locally instances of private companies and government agencies. We will periodically update the **Commonly Used Resources** and provide updated data migration files to reflect this.

Data Migration



If your institution is **not** one of the eagle-i network institutions (i.e. connected to central search prior to April 1, 2013), please contact us for assistance to migrate your data.

To completely integrate the **Commonly Used Resources** within the institution's data repository, the existing data in the repository needs to be migrated.

1. From the command line, navigate to the command line tools folder in the repository home directory (see [repository installation and administration guide](#)). For example

```
cd /opt/eaglei/repo/etc
```

2. Run the `globals-migration.sh` script. You will need to know the administrative credentials for the repository. In the following example, we assume the username for the administrative user is `adminUser` and the password is `adminPw`. We also assume that the url for the repository is `http://foo.bar.edu`

```
bash globals-migration.sh adminUser adminPw http://foo.bar.edu
```

Verify Commonly Used Resources works

SWEET

To verify that you have configured **Commonly Used Resources** correctly for SWEET, try to enter a new [Instrument](#). When selecting a **Manufacturer**, you should see a group of manufacturers under the heading of `Commonly Used Resources` (see image in [SWEET - Entering Data](#)).

Search - Institution (*OPTIONAL*)

If you have installed institution search and you have successfully migrated your data, you will not notice a difference in the resource's instance page. However, when you click through to a **Commonly Used Resource**, you will notice that the logo is no longer your institution's logo, but the logo for the **Commonly Used Resources** data repository.

Search - Central

You will not notice a difference in the resource's instance page. However, when you click through to a **Commonly Used Resource**, you will notice that the logo is no longer your institution's logo, but the logo for the **Commonly Used Resources** data repository.

Fine print

- **Commonly Used Resources** are not searchable as a resource themselves.
- Tomcat may appear to take a little bit longer to shut down. This is expected.