

# Integration with Profiles RNS

## Introduction:

This page describes the steps necessary to enable eagle-i integration with Profiles RNS. Specifically, the steps required in the eagle-i software to enable the integration. The integration relies on an eagle-i web service that is available in version 3.1 and later releases of the software, configuration of the web service, updating/creating person records in eagle-i with the corresponding Profiles URI, establishing an external recurring process to access the web service and make the data available to Profiles, and finally enabling the option in your local installation of Profiles RNS.

## Software requirements:

- eagle-i SWEET application, version 3.1 and later
- eagle-i repository application, version 3.1 and later
- Profiles RNS, version 2.5.1 and later

## eagle-i integration implementation:

1. SWEET application is required
  - a. Profiles URIs need to be added to all Person records in eagle-i
2. Define the base URL for Profiles
  - a. In the eagle-i-apps.properties, add a new property `eaglei.datatools.profilesBase`
  - b. The expected value of this property is a URL
  - c. The default value of this property is <http://connects.catalyst.harvard.edu/profiles/profile/person/>
3. In order to display resource types in a user friendly and compact format, a csv file is required. Create a csv file that maps the name of the resource type as defined by the eagle-i ontology and the desired display name
  - a. The expected name of the file is `profiles-resource-label-mappings.csv`
  - b. The expected location of the file is in the same directory as the eagle-i-apps.properties file, in other words, the eagle-i config directory.
  - c. The expected format of the file is:
    - i. lines that start with '#' and blank lines are ignored
    - ii. each line is one mapping
    - iii. each mapping is in the form of `key,value`. These are case sensitive.
    - iv. keys starting with \* indicate a partial match and are meant to cover several eagle-i terms that share a common part. For example, \*Mus means that both Mus and Mus Musculus will be mapped.
  - d. Sample file: [profiles-resource-label-mappings.csv](#)
  - e. For the mapping \*Mus,Mouse strains:

The image shows two screenshots. The top screenshot is of the eagle-i web interface. It features a search bar with the text 'Mus musculus' entered. To the left is a sidebar with 'Resource Types' including '<All Resource Types', '<Organism or Virus', '<Organism', '<Chordata', '<Vertebrata <Metazoa>', and '<Mammalia'. The main content area shows 'Mus musculus' as the 'eagle-i label for resource type'. Below this, there's a 'Research' section with a description: 'This researcher has shared information about their research resources in the eagle-i Network. To update or add resource records, contact eagle-i@hms.harvard.edu.' and a link to 'Clapham Lab - Mouse strains (30)'. The bottom screenshot shows a text editor (VIM) editing a file named 'profiles-resource-label-mappings.csv'. The file contains a list of resource types and their corresponding display names. A red box highlights the line '\*Mus,Mouse strains', with an arrow pointing to it from the text 'Corresponding file mapping'.

**eagle-i label for resource type**

**profiles display label for resource type**

**Corresponding file mapping**

```
# The contents will be parsed as a map where key=firstCol value=secondCol.
# If key starts with *, it is interpreted as the common denominator of all
# labels that need to be mapped to a value.
# Keys are case insensitive.

#Root types
Biological Specimen,Biological Specimens
Database,Databases
Human Study,Human Studies
Instrument,Instrument
Protocol,Protocol
Reagent,Reagents
Research opportunity,Research opportunities
Service,Core services

#Specific types
*Mus,Mouse strains
*Gallus,Chicken resources
Danio rerio,Zebrafish lines
*Drosophila,Drosophila lines
Caenorhabditis elegans,C. elegans lines
Saccharomyces cerevisiae,S. cerevisiae strains
Cubitermes flavus,C. flavus strains
```

4. Set up an external process which accesses the eagle-i profiles web service and writes the response to a location. This process should be recurring to get updated information.
  - a. The web service is located at [your eagle-i installation]/sweet/profiles.
  - b. For example, Harvard's eagle-i profiles web service is located at <http://harvard.eagle-i.net/sweet/profiles>
5. Configure Profiles application to access this resource dump (following Profiles instructions)