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# **Tripal HQ Documentation**

***Release 1.0***

**Bradford Condon**

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### 1.1 What is Tripal HQ?

Tripal HQ provides a user-contributed content control center and administrative toolbox for your Tripal site. This means that users are able to create whatever Chado content you'd like them, but withhold inserting it into the database until someone has approved it.

Tripal HQ Imports extends this functionality to data importers. In this way your users can submit any single-page Tripal importer and both the file and associated metadata will remain in holding for administrative review. Once approved, the importer will be run, inserting all data into the database.

HQ also provides a Chado-specific permission (currently only supporting organisms). If you have lots of organisms on your site, and want to allow users to be the admin of a specific organism or set of organisms, this feature is for you!

### 1.2 Module Features

- Users create data using your existing Bundle configuration or Importers- no extra forms!
- User dashboard area for viewing pending submissions
- Admin dashboard for viewing submissions
- Chado-based permissions to create admins for certain projects or organisms





## 2.1 Installation

### 2.1.1 Installing Tripal HQ

Clone the repo with github and enable the module with drush. For example:

```
cd /var/www/html/sites/all/modules/custom/  
git clone https://github.com/statonlab/tripal_hq.git  
drush pm-enable tripal_hq tripal_hq_imports tripal_hq_permissions
```

### 2.1.2 Additional Module Installation

#### Field Permissions

We recommend using the Drupal Field Permissions module to hide some fields from user submission forms. You can read more about why this is a good idea here: [why\\_field\\_permissions](#)

The module can be enabled directly from Drush with the below command.

```
drush pm-enable -y field_permissions
```

You can find the Field Permission module page here: [https://www.drupal.org/project/field\\_permissions](https://www.drupal.org/project/field_permissions) and a more in-depth user guide here: <https://www.drupal.org/node/2802067>

## 2.2 Configuring HQ Permissions

Tripal HQ relies heavily on Drupal permissions. If you are new to Drupal users, roles, and permissions, we strongly suggest you [review the Drupal guide first](#). Permissions can be configured at `/admin/people/permissions` in the **Tripal HeadQuarters** section.

## 2.2.1 Permissions and Roles

On installation, HQ defines the following permissions:

- **Administer Tripal HQ content:** For Admins to approve/deny content. Can be combined with the next permission to allow administration of only a subset of requests.
- **Administer CHADO-specific Tripal HQ content:** Lets you specify what Chado content a user can administer.
- **Create Tripal HQ content requests:** Allows users to submit content requests and view their dashboard.
- **Propose Tripal HQ Content** permission for each of your defined bundles. This will let you configure which bundles can be proposed by users.
- **Propose Tripal HQ Data File** permission for each available Tripal Importer. This will let you configure which importers can be proposed by users.

To get started, you'll need to create a role for your content submitters, and give them the "Create Tripal Content Requests" permission, plus whatever specific bundle permissions you'd like them to see.

For your administrators, you'll want to give them the "Administer Tripal HQ content" permission. If you'd like your admin to only see a subset of content, give them the "Administer CHADO-specific Tripal HQ content" permission and configure their specific permissions (see below).

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**Note:** You must create a role for these permissions. Using the default "Authenticated User" role will **not work**.

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### Chado specific Permissions

Chado-specific permissions can be configured at `admin/tripal/tripal_hq/chado_permissions`. Here you will see all users with the "Administer CHADO-specific Tripal HQ content" permission. Click "Assign" to give them permission for specific organisms.

The screenshot shows the "Tripal HQ Permissions" page. At the top, there is a navigation bar with links like Dashboard, Content, Structure, Tripal, Appearance, People, Bundles, Configuration, Reports, and Help. Below the navigation bar, there is a header area with "Tripal HQ Permissions" and a "My account Log out" link. A red box with a warning icon and text states: "There is a security update available for your version of Drupal. To ensure the security of your server, you should update immediately! See the available updates page for more information and to install your missing updates." Below this, there is a table with the following columns: USER NAME, NUMBER OF BASE PERMISSIONS, and SET PERMISSIONS. The table lists six users: Deputy bee, latecomer, mr register user, randodep, test user with requests, and test user without requests. Each user has a corresponding "Assign" link in the SET PERMISSIONS column.

USER NAME	NUMBER OF BASE PERMISSIONS	SET PERMISSIONS
Deputy bee	1	<a href="#">Assign</a>
latecomer	1	<a href="#">Assign</a>
mr register user	0	<a href="#">Assign</a>
randodep	82	<a href="#">Assign</a>
test user with requests	0	<a href="#">Assign</a>
test user without requests	0	<a href="#">Assign</a>

Select one or more organism for this user and click "Submit".

the [available updates](#) page for more information and to install your missing updates.

This form lets you set Chado specific administrative rights for this user.

This module supports permissions for child content for organisms and projects, meaning if, for example, an analysis is created linked to an organism, and the user is an admin of the organism, this user will have admin permissions for that analysis as well.

FIELD	VALUE
User Name	Deputy bee
User Email	test2@test.com

**Organisms**

Ms. Tiffany Terry  
Marge Rau  
Jorge Murazik  
apis mini

**Projects**

You have no Projects in the database

▶ OTHER

Submit

For now, you can only configure organism-based permissions.

Tripal HQ settings can be found at `admin/tripal/tripal_hq`.

Tripal HQ settings

Home » Administration » Tripal

The below form will let you configure site-wide preferences for this module.

**EMAIL NOTIFICATION SETTINGS**

**Content Creation Request**

☒ User

☒ Admin

When a user submits a new content creation request, an email can be sent to confirm creation to the user, and to notify the admin an action is required.

**Content Creation Request Approved**

☒ User

☒ Admin

When an admin approves a creation request, an email can be sent to notify the user and/or admin.

**Content Creation Request Denied**

☒ User

☒ Admin

When an admin rejects a creation request, an email can be sent to notify the user and/or admin.

Submit

Here, you can configure what events will contact the user or the admin via email.

## 2.3 Configuration email notices

Tripal HQ is configured to notify both users and administrators when the following events occur for a given requested record:

- Creation
- Edit (not yet implemented)
- Approval
- Rejection

## 2.4 Setting and un-setting notifications

User and administrator notifications for the above events can be configured at `admin/tripal/tripal_hq` in the **Email Notification Settings** section. If a box is checked, then email notices will be sent to that role for that event.

The below form will let you configure site-wide preferences for this module.

**EMAIL NOTIFICATION SETTINGS**  
  
**Content Creation Request**  
☒ User  
☒ Admin  
When a user submits a new content creation request, an email can be sent to confirm creation to the user, and to notify the admin an action is required.  
  
**Content Creation Request Edit**  
☒ User  
☒ Admin  
When a user edits an existing content creation request, an email can be sent to confirm creation to the user, and to notify the admin an action is required.  
  
**Content Creation Request Approved**  
☐ User  
☐ Admin  
When an admin approves a creation request, an email can be sent to notify the user and/or admin.  
  
**Content Creation Request Denied**  
☐ User  
☐ Admin  
When an admin rejects a creation request, an email can be sent to notify the user and/or admin.

Submit

### **2.4.1 Users opting out of notices**

### **2.4.2 Customizing messages**

## **2.5 Field Specific Permissions**

Please see the field permission guide in Tripal core's documentation



## 3.1 Users

### 3.1.1 Content Pages

User content submission can be reached at `tripal_hq/bio_data`.

## Submit Content

[+ Add new content](#)

Title▲	Content Type	Approval Status	Date Created	Date Updated	View/Edit
analyssi	Analysis	Pending	Oct 29 2018 17:11:57		<a href="#">Edit</a>
approve me	Analysis	Approved	Oct 23 2018 17:02:26		<a href="#">View</a>
bee sample	Biological Sample	Pending	Oct 31 2018 12:57:25		<a href="#">Edit</a>
lkjklklj	Biological Sample	Pending	Oct 29 2018 17:14:33		<a href="#">Edit</a>
pending	Contact	Pending	Oct 23 2018 17:02:13		<a href="#">Edit</a>

Approved, pending, and rejected content is displayed in the table. Clicking the View/Edit button will either link to the accepted entity, or to the submission form to submit changes.

Click the “Submit Content” button to submit Tripal Content. The submission form is the **exact same form** as the admin content creation form.

### 3.1.2 Data Files

Data files can be submitted by users at `tripal_hq/bio_data/import-data`.

[Home](#)

Navigation

- ▶ [Add Tripal Content](#)
- ▶ [Add content](#)
- [Controlled Vocabularies](#)
- ▼ [Submit Content](#)
- ▶ [Tripal HQ Admin Dashboard](#)

## Submit Content

[+ Add new content](#) [+ Import data file](#)

Content

Title ^	Content Type	Approval Status	Date Created	Date Updated	Comments	View/Edit
Best Lentil Ever	Cultivar (Germplasm Variety)	Pending	Oct 31 2019 22:28:38	Oct 31 2019 22:28:52	<a href="#">Add/View Comments (0)</a>	<a href="#">Edit</a>
Test submission 1	Project	Pending	Oct 31 2019 22:28:02		<a href="#">Add/View Comments (0)</a>	<a href="#">Edit</a>
lorem ipsum	Project	Pending	Oct 31 2019 22:28:18		<a href="#">Add/View Comments (0)</a>	<a href="#">Edit</a>

Data Files

Title ^	Content Type	Approval Status	Date Created	Date Updated	Comments	View/Edit
Chado GFF3 File Loader	Data File	Pending	Oct 31 2019 22:30:40		<a href="#">Add/View Comments (0)</a>	<a href="#">Edit</a>

As you can see in the above screenshot when Tripal HQ Imports is enabled, it adds a second table to the user dashboard. This makes it easy to see the status of both your content and data file submissions.

To submit a new data file with associated metadata, click “Import data file”. You can edit a pending submission by clicking the “Edit” link beside that particular data file. Both the submission add and edit forms match the administrative data import forms exactly which ensures consistent metadata and validation.

## 3.2 Admins

The HQ admin dashboard is located at `tripal_hq/admin`. Admins can click on the tabs to filter submissions based on their status.



## Tripal HQ Admin Dashboard

All Obsolete Pending Published Rejected

User data submissions are listed below. The tabs above will let you filter submissions based on their status. Click on any row to view that submission.

User ▲	Title	Content Type	Approval Status	Date Created	Approve	Reject
<a href="#">admin</a> (bradford.condon@gmail.com)	<a href="#">bee sample</a>	Biological Sample	pending	Oct 31 2018 12:57:25	<a href="#">Approve</a>	<a href="#">Reject</a>
<a href="#">admin</a> (bradford.condon@gmail.com)	<a href="#">lkjklklj</a>	Biological Sample	pending	Oct 29 2018 17:14:33	<a href="#">Approve</a>	<a href="#">Reject</a>
<a href="#">admin</a> (bradford.condon@gmail.com)	<a href="#">analyssi</a>	Analysis	pending	Oct 29 2018 17:11:57	<a href="#">Approve</a>	<a href="#">Reject</a>
<a href="#">admin</a> (bradford.condon@gmail.com)	<a href="#">pending</a>	Contact	pending	Oct 23 2018 17:02:13	<a href="#">Approve</a>	<a href="#">Reject</a>

Clicking on the **title** of a pending submission will bring up the edit form, and an admin can make changes to the submission before it is created.

If Chado-specific permissions are set, the admin will only see content on this page related to the organism they are Deputy of.



We're excited to work with you! Post in the issues queue with any questions, feature requests, or proposals.

### 4.1 Development

This module uses [Tripal Test Suite](#). It provides a database seeder to make development a bit easier. Once you've installed test suite (`composer install`); run `vendor/bin/tripaltest db:seed` to run all seeders. This will create fictional users on the site with pending and approved HQ submissions.

**Warning:** NEVER run seeders on production sites. They will insert fictitious data into Chado.

### 4.2 Coding Standards

This project uses code climate to ensure coding standards are met. We suggest you use `php_codesniffer` locally to check coding standards before submitting a Pull Request for a smoother experience. This can be done as follows:

1. Run `composer up` within the Tripal HQ directory. This will install `php_codesniffer` locally.
2. Check coding standards by running `./vendor/bin/phpcs --standard=vendor/drupal/coder/coder_sniffer/Drupal/ruleset.xml [file]` where `[file]` contains your changes. This will output a report meant to help you improve your code.
3. `php_codesniffer` includes a tool for automatically fixing many warnings you may have encountered. To run it execute `./vendor/bin/phpcbf --standard=vendor/drupal/coder/coder_sniffer/Drupal/ruleset.xml [file]` on the same file. Make sure to review any changes it makes.
4. Manually fix any remaining errors and re-run step 2 to confirm.

We truly appreciate your effort in keeping our project standards compliant!

## 4.3 Automated Testing

This project uses TripalTestSuite and phpunit for automated testing. To run tests:

1. Run `composer up` within the Tripal HQ directory. This will install phpunit locally.
2. Run `./vendor/bin/phpunit` to execute all tests.



Tripal HQ logoartist credit: [Jason Kang](#), Copyright 2010-2018 Blizzard Entertainment