OpenCDSS Memorandum

To: Brian Macpherson (Colorado Water Conservation Board),
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From: Steve Malers (Open Water Foundation)
Subject: Notes on transferring GitHub repository from Open Water Foundation GitHub account
            to OpenCDSS GitHub account
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Introduction

This memorandum includes notes from transferring GitHub repositories from the Open Water Foundation (OWF) GitHub account (https://github.com/OpenWaterFoundation) to the OpenCDSS account GitHub account (https://github.com/OpenCDSS).

Background

The OpenCDSS project is focusing on key CDSS software, including StateMod, StateCU, TSTool, and StateDMI. In order to effectively create an open source project, each software project must have an open source license and code must be accessible in a public repository. The decision on open source license to use for OpenCDSS software has taken some time. State staff created an OpenCDSS GitHub account to house the open source software repositories. This account is not funded to pay for private repositories and therefore all repositories on the site must be public. Because a public license for software was not agreed upon until recently, OWF created private repositories for the software early in the OpenCDSS project using the OWF GitHub account, which allowed progress to be made.

Now that there is agreement to use GPLv3+ license for software and CC-BY 4.0 for documentation, it is possible to transfer from private (and public) OWF repositories to public OpenCDSS repositories. The GitHub website provides features to perform this transfer, as documented in the following sections.

The following link describes the transfer process:

https://help.github.com/articles/transferring-a-repository-owned-by-your-organization/

Of concern when transferring a repository is whether the full history and related resources such as issues are transferred. The following information indicates that such information is transferred:

https://help.github.com/articles/about-repository-transfers/

Consequently, it should be possible to transfer a repository from the OpenWaterFoundation GitHub account to OpenCDSS GitHub account with no loss in data.

Example – Documentation Repository

The following illustrates transferring a repository from the OWF GitHub account to the OpenCDSS GitHub account, in this case using the StateMod developer documentation.

Backup the Repository

Just to be safe, the repository should be backed up. One way to do this is to clone the repository. The following article discusses backup via a clone: https://stackoverflow.com/questions/4658451/can-a-local-git-clone-be-considered-a-complete-backup-of-the-repo-it-was-cloned. A simple clone is enough for OpenCDSS software because there are not currently other remotes feeding into the GitHub repository. For more persistent backup, the files can be saved to a USB drive, DVD, or other backup media.

Transfer the Repository from the Original Repository

To transfer the repository, use the *Settings* tab in the OpenWaterFoundation GitHub repository for cdss-app-statemod-fortran-doc-dev, which shows the information in the following image at the bottom of the page. The person performing the transfer must have administrator privileges in both accounts (although there may be a way to do it without administrative privileges in the receiving account – this option was not investigated because Steve Malers has administrator privileges in both accounts). The GitHub information form shown bellows seems to indicate that an acknowledgement would be requested if necessary.

Danger Zone

Make this repository private
Hide this repository from the public.

[Make private]

Transfer ownership
Transfer this repository to another user or to an organization where you have the ability to create repositories.

[Transfer]

Archive this repository
Mark this repository as archived and read-only.

[Archive this repository]

Delete this repository
Once you delete a repository, there is no going back. Please be certain.

[Delete this repository]

Select the *Transfer Ownership* button and provide the requested information, as shown below.

Transfer repository ✕

To understand admin access, teams, issue assignments, and redirects after a repository is transferred, see "**Transferring a repository**" in GitHub Help.

Transferring may be delayed until the new owner approves the transfer.
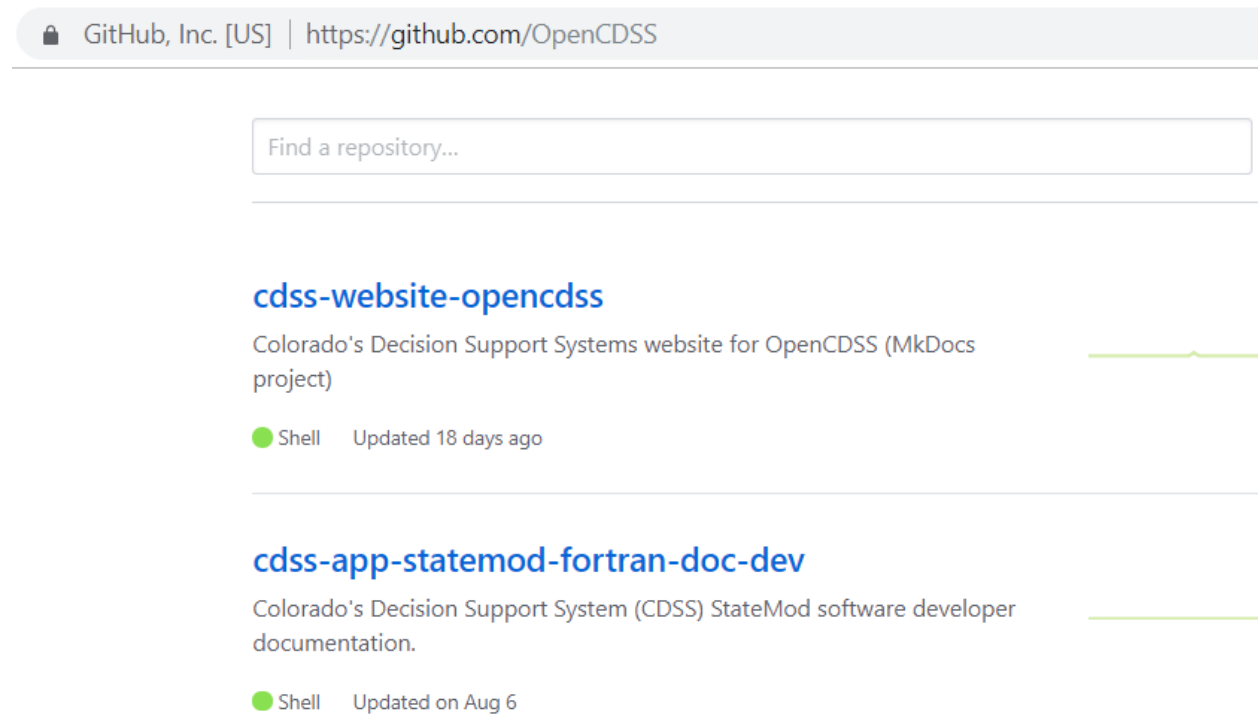
Type the name of the repository to confirm

cdss-app-statemod-fortran-doc-dev

New owner's GitHub username or organization name

OpenCDSS

[I understand, transfer this repository.]

Then press the *I understand, transfer this repository* button. The repository will then be listed on the OpenCDSS account, as shown in the following image.

A test confirmed that issues, custom issue labels, and issue attachments transferred.

The repository is no longer listed on the OpenWaterFoundation GitHub website.

Redirection of GitHub Repository URL

The new repository for the example is:

https://github.com/OpenCDSS/cdss-app-statemod-fortran-doc-dev

However, existing references to the old repository may still exist. GitHub automatically routes the old URL, shown below, to the new URL, shown above.

https://github.com/OpenWaterFoundation/cdss-app-statemod-fortran-doc-dev

![openwater FOUNDATION logo]

OpenCDSS Repositories Transferred from OpenWaterFoundation to OpenCDSS GitHub Account

The following table lists the repositories that have been transferred from the OpenWaterFoundation GitHub account to the OpenCDSS GitHub account. This table will be completed as all the OpenCDSS repositories are transferred and are properly updated with open source license and copyright notices.

Repository	Comment
cdss-app-statemod-fortran-doc-dev	StateMod developer documentation.
cdss-website-opencdss	OpenCDSS website content.