

Migration from Subversion (SVN) to Git

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Code Repository

The official repositories are on ASF Gitbox, only those are committers writable.

We have also Github mirrors. Committers can push to them they are synced to Gitbox, even using Subversion!

There are actually two mirrors, before and after release16.11.

Since release branch 16.11, we disentangled the plugin components (previously under the specialpurpose folder) into a separate repository called ofbiz-plugins

ASF Gitbox (official repository replacing Subversion now read-only, committers writable)

<https://gitbox.apache.org/repos/asf/ofbiz-framework.git>

<https://gitbox.apache.org/repos/asf/ofbiz-plugins.git>

<https://gitbox.apache.org/repos/asf/ofbiz-site.git>

<https://gitbox.apache.org/repos/asf/ofbiz-tools.git>

Github (official mirrors of the ASF Gitbox repositories)

Synced with Gitbox, can be forked, and PRs can be made

release16.11 and previous releases

<https://github.com/apache/ofbiz/>

Trunk and releases after 16.11

<https://github.com/apache/ofbiz-framework>

<https://github.com/apache/ofbiz-plugins>

<https://github.com/apache/ofbiz-site>

<https://github.com/apache/ofbiz-tools>



Committers: Github, Subversion and Gitbox

Note that you can use Subversion through those repository to finally commit to Gitbox. You can also checkout. A Github feature^[1] allows that. You can do it by checking out from Github. For instance, simply try
svn co <https://github.com/apache/ofbiz-plugins/trunk/ecommerce>
If you then Svn commit, the Github repo will be the ending container and will sync to ASF Gitbox

I have used the same in build.Gradle:



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I don't say it's a definitive solution. At least it allows to think more about the best solution...

[1] <https://help.github.com/en/github/importing-your-projects-to-github/working-with-subversion-on-github>

- ✓ Communicate with ASF Infra team to enable write access in the above repositories.
- ✓ After successful migration to Git, mark the SVN repository as read-only
- ✓ PR can be asked but we have still to discuss if we want that to be used. I believe the Jira way should be still the official way. Clarification in

progress, see



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Workflow

As nicely explained by [Taher Alkhateeb](#) in the [mail thread](#), here details on workflow.

The contribution workflow for small features/bug fixes and large features.

Small Features / Bug Fixes

Small features follow the exact same workflow that currently exists in SVN.

You do your work, diff it, and attach the patch to a JIRA and request a commit from one of the committers. As explained in [Contributing via Git and Github - WIP](#)

Large Features

For large features usually multiple people need to collaborate on a separate branch. Here is where git shines and the distributed model kicks in:

1. A JIRA is created for a large feature.
2. The team (not necessarily having a committer) creates a remote repository which itself may have many branches with the master branch having all the work agreed upon and merged (actually, rebased)
3. The collaboration for this branch happens in the JIRA including discussions, comments, and even links to the commits, etc ...
4. A request is made to the project, to make a pull request from the repository after reaching a certain milestone with consensus from the community of course.
5. Here, for extra safety, the branch model may have a trunk and a develop branches. Everything is pulled to the develop branch and trickles down to the master branch after thorough and proper testing.

The above workflow can also adhere to the now famous Vincent Driessen git branching model found here -> <http://nvie.com/posts/a-successful-git-branching-model/>

Buildbot configuration with Git (Build Scripts)

- ☒ We should make sure the buildbots are enabled on the commits for the above mentioned git repositories. I have created

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for that. Addressed in

Revert workflow

The git revert command can use be revert a commit, more details can be found [here](#).

```
git revert <commit-revision>
```

Backport the fixes

In SVN we have script to merge and commit the fixes from trunk to release branches.

- ☐ All the releases are branches in the repository of Git, we can write similar script mergefromtrunk.sh(bat) and mergefromplugins.sh(bat) See

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Release management

We will have a branch for the release management, currently we have three branches in <https://github.com/apache/ofbiz-framework/>

trunk, release17.12 and release18.12

Cut a release

In OFBiz, we cut a release and thoroughly test it and then finally make it available to the public.

To create a new release, a branch will be cut from the trunk.

Ideally, the branch will be cut from the trunk branch. So make sure you are on the trunk branch. Here is the example, we have cut the release19.06.

```
git checkout -b release19.06
git push origin release19.06
```

Publish the release

Once the branch is ready to publish, we will cut a tag to the release branch. As per our example above we can cut a tag release19.06.01

Here is the example, we have cut a tag for release19.06 branch. Make sure you are on release19.06 branch

```
git tag release19.06.01
git push origin release19.06.01
```

Equivalent of svn:auto-props properties

- ☐ As mentioned by [Jacques Le Roux](#), we should have an equivalent of svn:auto-props properties on the server. Something we will need to not forget when we will switch to Git: <https://help.github.com/articles/dealing-with-line-endings/#per-repository-settings>

Update the website, wiki documents, and references

After the successful migration to Git, we should update this information to various resources like website, wiki documents, and references.

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Update the information related to Git on OFBiz website. See

<https://ofbiz.apache.org/source-repositories.html>

☐

Update the information related to Git to OFBiz tutorials
[OFBiz Tutorial - A Beginners Development Guide](#)

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Update <https://projects.apache.org/project.html?ofbiz> We now need to move from svnpubsub to gitpubsub

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Migrate svn pre/post commit hooks

As mentioned by [Deepak Kumar Dixit Dixit](#), we have hooks on commits, like the word limit in a line for Java file.

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Check and migrate the svn pre/post commit hook for Git.

Update the RAT tool if needed to use git repository

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Check if we are using any RAT related thing, and impact of using Git repository on this. We finally use the associated Svn repo associated by

Github, it works.

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