

## The DiFX Release Process

The guidelines here are not strict and may change version to version, but document the typical process used in releasing a new DiFX version.

### General principles

- We aim for a major release every ~12 months
- In between major releases, minor releases are made on an as-needed basis. Minor releases should really only be for bugfixes or very minor feature additions.

### How to do a minor release

- Test your change in trunk
- Test your change in master-tags/DiFX-2.X/
- Update the ChangeLog(s) and update package version requirements if needed
- Email difx-developers and announce the intention to make a new minor release, and request testing of the updated DiFX-2.X
- After testing is complete:
  - svn copy master-tags/DiFX-2.X/ master-tags/DiFX-2.X.Y/
  - Compile test the new tag
  - Update [news](#) and [installation](#) with the new version number
  - email difx-users and announce the new release

### How to do a major release

1. Upon nearing feature completeness or some other indicator that a release is due, somebody should email the DiFX Developers email list, encouraging a quick wrap-up of current developments for the upcoming release.
2. A countdown page [like this](#) may be created at this time to track remaining work to be done and start building release notes.
3. A second email indicating feature completeness and transition to bug fix only state is sent out when the countdown list contains only testing and documentation items.
4. Upon general agreement that the tree is ready for tagging a final email is sent suggesting that.
5. The release tagging operation involves the following steps
  1. Make the subversion tree for the release, including the version directory (e.g., DiFX-2.6) and its subdirectories (libraries, applications, ...)
  2. Update ChangeLog entries to include the new DiFX version and possibly a date.
  3. Commit the ChangeLog
  4. Make sure the configure.ac for each package requires proper versions of libraries (usually statements starting with PKG\_CHECK\_MODULES)
  5. Do a subversion copy, e.g., svn cp <https://svn.atnf.csiro.au/difx/libraries/difxio/trunk> [https://svn.atnf.csiro.au/difx/master\\_tags/DiFX-2.6/libraries/difxio](https://svn.atnf.csiro.au/difx/master_tags/DiFX-2.6/libraries/difxio) -m "Tag for version 2.6"
  6. If you copy the above line, **be sure to change the quotes to normal quotes** or else the svn cp command will fail with a misleading error message!
  7. Go back to the trunk version of each package and bump the version (usually in configure.ac) and note this in the ChangeLog.

8. Recommit the trunk version.

6. Run through the minor release procedure to create DiFX-2.X.1/ from your new DiFX-2.X/ tag.

A script, current for DiFX-2.4, is below. For future versions change NEW\_VERSION and check for package completeness.

```
export NEW_VERSION=DiFX-2.4

svn mkdir https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/ -m "top
directory for ${NEW_VERSION} release"

#mpifxcorr
svn cp https://svn.atnf.csiro.au/difx/mpifxcorr/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/mpifxcorr -m
"Tagging ${NEW_VERSION}"

#libraries
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries -m "for
${NEW_VERSION} release"
svn cp https://svn.atnf.csiro.au/difx/libraries/difxio/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/difxio -
m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/libraries/difxmessage/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/difxmess
age -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/libraries/mark5access/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/mark5acc
ess -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/libraries/perl/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/perl -m
"Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/libraries/python/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/python -
m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/libraries/vdifio/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/vdifio -
m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/libraries/vex/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/vex -m
"Tagging ${NEW_VERSION}"

#applications
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications -m
"for ${NEW_VERSION} release"
svn cp https://svn.atnf.csiro.au/difx/utilities/trunk/calcif2
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/calci
f2 -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/calcserv/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/calcs
```

```
server -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/difx2fits/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difx2fits -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/difx2mark4/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difx2mark4 -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/difxfilterbank/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difxfilterbank -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/difx_monitor/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difx_monitor -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/espresso/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/espresso -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/guiServer/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/guiServer -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/hops/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/hops -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/mk5daemon/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/mk5daemon -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/applications/vex2difx/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/vex2difx -m "Tagging ${NEW_VERSION}"

#utilities
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities -m "for ${NEW_VERSION} release"
svn cp https://svn.atnf.csiro.au/difx/utilities/trunk/bench
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/bench -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/utilities/trunk/difxdb
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/difxdb -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/utilities/trunk/misc
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/misc -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/utilities/trunk/pulsar
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/pulsar -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/utilities/trunk/vis2screen
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/vis2screen -m "Tagging ${NEW_VERSION}"

#sites
svn mkdir https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites -m
```

```
"for ${NEW_VERSION} release"
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR -m
"for ${NEW_VERSION} release"
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRA0 -m "for
${NEW_VERSION} release"
svn cp https://svn.atnf.csiro.au/difx/sites/NRA0/trunk/difxdb
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRA0/difxdb
-m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/sites/NRA0/trunk/SniffPlots
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRA0/SniffPl
ots -m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/sites/NRA0/trunk/rcwlib
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRA0/rcwlib
-m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/sites/MPIfR/README
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR/README
-m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/sites/MPIfR/difxdb
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR/difxdb
-m "Tagging ${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/sites/MPIfR/mark5
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR/mark5
-m "Tagging ${NEW_VERSION}"

#other setup things
svn cp https://svn.atnf.csiro.au/difx/setup/genippc
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/ -m "Tagging
${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/setup/install-difx
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/ -m "Tagging
${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/setup/setup.bash
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/ -m "Tagging
${NEW_VERSION}"
svn cp https://svn.atnf.csiro.au/difx/setup/setup.csh
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/ -m "Tagging
${NEW_VERSION}"
```

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