

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.

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](#) is usually 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-2.0.1) 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-2.0.1/libraries/difxio -m "Tag for version 2.0.1"`
 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. Announce to the DiFX Users mailing list that the new version is ready, including a copy of release notes.
7. Edit the [news](#) page of the wiki with the release date

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}/

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

#libraries
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries
svn cp https://svn.atnf.csiro.au/difx/libraries/difxio/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/difxio
svn cp https://svn.atnf.csiro.au/difx/libraries/difxmessage/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/difxmessage
```

```
svn cp https://svn.atnf.csiro.au/difx/libraries/mark5access/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/mark5access
svn cp https://svn.atnf.csiro.au/difx/libraries/perl/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/perl
svn cp https://svn.atnf.csiro.au/difx/libraries/python/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/python
svn cp https://svn.atnf.csiro.au/difx/libraries/vdifio/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/vdifio
svn cp https://svn.atnf.csiro.au/difx/libraries/vex/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/libraries/vex
```

#applications

```
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications
svn cp https://svn.atnf.csiro.au/difx/applications/calcif2
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/calcif2
svn cp https://svn.atnf.csiro.au/difx/applications/calcs
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/calcs
server
svn cp https://svn.atnf.csiro.au/difx/applications/difx2fits
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difx2fits
svn cp https://svn.atnf.csiro.au/difx/applications/difx2mark4
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difx2mark4
svn cp https://svn.atnf.csiro.au/difx/applications/difxfilterbank
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difxfilterbank
svn cp https://svn.atnf.csiro.au/difx/applications/difx_monitor
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/difx_monitor
svn cp https://svn.atnf.csiro.au/difx/applications/espresso
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/espresso
svn cp https://svn.atnf.csiro.au/difx/applications/guiServer
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/guiServer
svn cp https://svn.atnf.csiro.au/difx/applications/hops
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/hops
svn cp https://svn.atnf.csiro.au/difx/applications/mk5daemon
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/mk5daemon
svn cp https://svn.atnf.csiro.au/difx/applications/vex2difx
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/applications/vex2difx
```

#utilities

```
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities
```

```

svn cp https://svn.atnf.csiro.au/difx/libraries/bench/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/bench
svn cp https://svn.atnf.csiro.au/difx/libraries/difxdb/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/difxdb
svn cp https://svn.atnf.csiro.au/difx/libraries/misc/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/misc
svn cp https://svn.atnf.csiro.au/difx/libraries/pulsar/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/pulsar
svn cp https://svn.atnf.csiro.au/difx/libraries/vis2screen/trunk
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/utilities/vis2screen

```

#sites

```

svn mkdir https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR
svn mkdir
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRAO
svn cp https://svn.atnf.csiro.au/difx/sites/NRAO/trunk/difxdb
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRAO/difxdb
svn cp https://svn.atnf.csiro.au/difx/sites/NRAO/trunk/SniffPlots
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRAO/SniffPlots
svn cp https://svn.atnf.csiro.au/difx/sites/NRAO/trunk/rcwlib
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/NRAO/rcwlib
svn cp https://svn.atnf.csiro.au/difx/sites/MPIfR/trunk/README
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR/README
svn cp https://svn.atnf.csiro.au/difx/sites/MPIfR/trunk/difxdb
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR/difxdb
svn cp https://svn.atnf.csiro.au/difx/sites/MPIfR/trunk/mark5
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/sites/MPIfR/mark5

```

#other setup things

```

svn cp https://svn.atnf.csiro.au/difx/setup/genippc
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/
svn cp https://svn.atnf.csiro.au/difx/setup/install-difx
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/
svn cp https://svn.atnf.csiro.au/difx/setup/setup.bash
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/
svn cp https://svn.atnf.csiro.au/difx/setup/setup.csh
https://svn.atnf.csiro.au/difx/master_tags/${NEW_VERSION}/

```

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