**Subversion How To[¶](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion" \l "SubversionHowTo" \o "Link to this section)**

The first place to go for help should be the online Subversion [book](http://svnbook.red-bean.com/). By far, the most important single step you can take to learn subversion is to set aside some time and read <https://collaborate.werh.noaa.gov/wiki/index.php/SubversionHelp>, and is an exceptional intro. Nothing that follows in this section is a substitute for reading and performing the tutorials on that page.

**The Repository**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#TheRepository)

The NCLADT Subversion repository holds software to assist with the migration effort as well as field site local applications. Local applications from the LAD and STR will be maintained in the NCLADT Subversion repository. The URL to use to access this repository with the svn command is:

https://collaborate.nws.noaa.gov/svn/ncladt

To checkout the code for development or use:

svn checkout https://collaborate.nws.noaa.gov/svn/ncladt/<path> # to get an svn working copy

svn export https://collaborate.nws.noaa.gov/svn/ncladt/<path> # to download

where <path> will be ladroot/apps for LAD type applications, and ladroot/gfe for STR type applications.

Code can be browsed using the Browse Source tab above. However, always use svn commands to obtain the code. Do not use the Trac repository browser to download code.

**First Contact**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#FirstContact)

Access the repository for the first time to set up your Subversion profile. This will cache your username and authentication credentials. Access to the repository is restricted to NOAA email users. Your username is your email name (please always enter in all lower case) and the password is your NOAA email password. Perform this as your normal user login id on ADAM or an AWIPS 2 system.

svn list https://collaborate.nws.noaa.gov/svn/ncladt/ladroot

1. Answer "p" to permanently accept the certificate if an error message appears
2. Hit return at the password prompt; it is using your local login not your NOAA email ID for the username
3. At the new Username prompt, enter your NOAA email ID in all lower case.
4. Enter your NOAA email password.

You should see a list of directories containing at least apps and gfe. Here's a sample initial session:

[paulj@adam1-rnk ~]$ svn list https://140.90.75.234/svn/ncladt/ladroot

Error validating server certificate for 'https://140.90.75.234:443':

- The certificate is not issued by a trusted authority. Use the

fingerprint to validate the certificate manually!

- The certificate hostname does not match.

- The certificate has expired.

Certificate information:

- Hostname: localhost.localdomain

- Valid: from Dec 15 10:25:45 2008 GMT until Dec 15 10:25:45 2009 GMT

- Issuer: SomeOrganizationalUnit, SomeOrganization, SomeCity, SomeState, --

- Fingerprint: 80:eb:0f:12:3f:06:62:85:7f:f4:0d:42:6f:35:d0:cd:7b:77:f0:ca

(R)eject, accept (t)emporarily or accept (p)ermanently? p

Authentication realm: <https://140.90.75.234:443> AWIPS Migration Devel (Use NOAA LDAP username and password)

Password for 'paulj': # You need to hit return here, wrong username paulj

Authentication realm: <https://140.90.75.234:443> AWIPS Migration Devel (Use NOAA LDAP username and password)

Username: paul.jendrowski

Password for 'paul.jendrowski':

apps/

fit/

gfe/

lib/

plugins/

[paulj@adam1-rnk ~]$

**\*\*\*** This is now a good time to set up some Subversion preferences. See the next section.

**Setting up Subversion Environment**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#SettingupSubversionEnvironment)

See the Setting up Subversion Environment section of [SubversionTips](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/SubversionTips) to set up your $HOME/.subversion/config file.

**Where should I put my files?**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#WhereshouldIputmyfiles)

In AWIPS 2, all site files and programs should go in /localapps. Review the details on [LocalApplicationsGuide](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/LocalApplicationsGuide).

On the repository side, see [RepoLayout](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/RepoLayout) for where to put files in the repository.

**Initial Import of an Application**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#InitialImportofanApplication)

See [HowToSubversionNewApp](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversionNewApp) for instructions on how to get an AWIPS 1 local application initially into the repository or how to start a totally new application from scratch.

**Updating an AWIPS II Local Application**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#UpdatinganAWIPSIILocalApplication)

Updating something is pretty simple.

1. Check out the code to a working copy.
2. Make changes, test, then commit the changes.
3. If ready for a new version, tag the update as a new version. See [AppSvnTagRelease](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/AppSvnTagRelease) for instructions on using the tag\_release.sh utility.

Example:

# ----- Define env vars for the repository.

export WK=$HOME/svn\_work

export REPO=https://collaborate.nws.noaa.gov/svn/ncladt/ladroot/apps

# ----- Create a work area directory, CD into it, and do an svn checkout

# ----- to create a working copy.

mkdir $WK

cd $WK

svn checkout $REPO/myApp/trunk myApp

# ----- Edit the code to apply the required updates.

cd myApp

# (Edit the source code.)

# Review your changes

svn status

# Commit

svn commit -m "Updated myApp because..."

# ----- If you are publishing a new version, create a new tag

# ----- for the new version.

# ----- Use the tag\_release.sh utility to take care of the details,

# ----- it will prompt for a new version number.

tag\_release.sh

# ----- Clean up (optional, you can keep your working copy around).

rm -rf $WK/myApp

If you prefer to keep your working copy around, then do svn update in the working copy instead of the svn checkout operation.

**Downloading an application for operational use**[**¶**](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/HowToSubversion#Downloadinganapplicationforoperationaluse)

First, the application you want to install should have instructions on how to get the files. Since you are here looking for wisdom:

cd /localapps/dev/<wherever you want to download to>

svn export https://collaborate.nws.noaa.gov/svn/ncladt/<path>

In general, <path> will be something like apps/<appname>/tags/<version>. Use svn list or the Browse Source tab above to find out what's available.

That's all I can do for you. Now you will have to consult the application's documentation or the developer for specific installation instructions. If you download to /localapps/dev, you can set up the program, test, get it running without interfering with any preexisting launchers, cron jobs, etc. in /localapps/runtime. Once ready for operational use, it belongs in /localapps/runtime as specified by the [LocalApplicationsGuide](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/LocalApplicationsGuide).