

# TO8 ADE Installation and Build Instructions

## Install ADE:

Installation of the ADE (AWIPS Development Environment) includes the source code.

1. Start by bringing up the ADE-CAVE Outbriefing and reading the installation instructions starting on page 380.
2. Decide on an installation directory. Mine is */scratch/malcolm/edwards/TO8/ade* on malcolm. It's best to let the install wizard create the basename directory (*ade* in my case) but you must make sure the parent directory exists.
3. Run the wizard:

```
cd /misc/linux/awips2
./setup_ade.sh
```

Specify "ade" in your install directory path when prompted by the install wizard. It will create the "ade" directory for you. Step through the wizard and complete the install. Quit the wizard when the install is done. It will create the following directories under the install directory:

- eclipse
- projects
- Uninstaller

The source code is under the "projects" directory. For example, source code for the radar decoder is in */scratch/malcolm/edwards/TO8/ade/projects/AWIPSEdex/extensions/plugin-radar/src/com/raytheon/edex/plugin/radar*.

## Uninstall the ADE:

To **uninstall**, go to *<installDir>/ade* directory and remove the files, or go to the *<installDir>/ade/Uninstaller* directory and run **java -jar uninstaller.jar**. If you want to uninstall the install directory, select it when the pup-up box appears. I usually don't select it, but I go in and delete the install directory because the uninstall leaves files around. Then select **Uninstall**. When the uninstall is done, select **Quit**.

## Install EDEX:

If you want to run your workstation as a standalone, you will need to install EDEX as follows:

1. Go to */misc/linux/awips2* and run the install wizard **setup\_edex.sh**.
2. Follow the install instructions starting on page 282 of the ADE-CAVE Outbriefing.

3. When you get to the installation path page, enter your install path. I entered */scratch/malcolm/edwards/TO8/run-time*. DO NOT put "edex" on the end of your path. The wizard does that for you, and generates the edex directory.
4. The next page enables you to select the packages you want to install. Do not select "Server Installation". If you do, you will need to install as root, which we're trying to avoid.
5. On the hdf5 page, since you'll be running EDEX on your system and not using gwar's server, set your local hdf5 path. Mine is set to */scratch/malcolm/edwards/TO8/run-time/edex/opt/data/hdf5*. The hdf5 directory will be created when you run PostGres.
6. Everything else should be left as is.
7. When the install is complete press **Done**.

### **Uninstall EDEX:**

To uninstall EDEX, just go to your run-time directory and remove the files and directories there. Or go to the Uninstaller directory under your run-time directory and run **java -jar uninstaller.jar**. Follow the directions given above to uninstall the ADE.

### **Run EDEX Daemons:**

1. Before building EDEX, try running the servers.
  - o Download [edex.tar](#) into a directory. I placed mine in */scratch/malcolm/edwards/TO8/bin*.
  - o Untar the file. This file contains four edex\_ scripts and copyEdexFiles.sh.
  - o Modify the *prefix* target in each of the edex\_ files to your runtime directory. Mine is set to */scratch/malcolm/edwards/TO8/run-time*.
  - o Start up the edex daemons by running the edex\_ scripts in the following specified order:
    - *./edex\_postgres start*
    - *./edex\_activemq start*
    - *./edex\_mule start*
    - *./edex\_tomcat start*
2. Now, you are ready to build. Kill the daemons by running the same edex\_\* scripts followed by *stop*. I follow the reverse order when stopping, but I don't know if it matters.

### **Build EDEX:**

You can build EDEX in one of two ways, either from Eclipse or from the command line. Which way is most appropriate is unknown at this time. So, start with the simplest - Build EDEX from Eclipse.

### **Build EDEX from Eclipse:**

1. Set JAVA\_HOME and ANT\_HOME, if you haven't already done so from Jim Fluke's CAVE instructions. I do that in my .cshrc file:
  - o setenv JAVA\_HOME <runtimeDir>/jdk1.6.0\_01. My runtime directory is /scratch/malcolm/edwards/TO8/run-time. jdk1.6.0\_01 gets installed with EDEX.
  - o setenv ANT\_HOME /misc/linux/awips2/apache-ant-1.7.0 (I have my own version of ant and I set up a symbolic link to my apache-ant-1.7.0 directory.)
2. Add JAVA\_HOME and ANT\_HOME to your path. I modified my .cshrc file as follows:
  - o set path=(\$JAVA\_HOME/bin \$path)
  - o set path=(\$ANT\_HOME/bin \$path)
3. Source your .cshrc file.
4. Start up Eclipse on your workstation.
5. Select you workspace, which is your .../ade/projects directory.
6. The Java-Eclipse workbench will open and Eclipse will start compiling. You will see all of the Eclipse projects on the left side under the Packages tab. You can find the EDEX source code if you expand AWIPSEdex project by clicking on the arrow on the left. There's lots to see.

### Build EDEX from the command line:

1. If you haven't already done so, set your JAVA\_HOME and ANT\_HOME as described above.
2. Go to the directory where you untar'd the edex.tar file and modify *copyEdexFiles.sh*. Change the <ADEinstallDir> path in the "cd" command to point to yours. Don't change "projects/AWIPSEdex".
3. Run *copyEdexFiles.sh*. It cd's to <ADEinstallDir>/projects/AWIPSEdex and copies files to <ADEinstallDir>/projects/AWIPSEdex/build/lib/compile.
4. Go to your ade <installDir>/projects/AWIPSEdex/build directory and modify **build.xml** as follows:

```

in build.xml, change the 'else' and 'property name'
statements
<!-- Properties to set the installation directory and the
javadoc
directory -->
    <condition property="install.dir"
        value="${installto}"
        else="/awips">
        <isset property="installto"/>
    </condition>

```

```
<property name="install.dir" value="/awips" />
```

to something like:

```
<!-- Properties to set the installation directory and the
javadoc
directory -->
    <condition property="install.dir"
                value="{installto}"
                else="/scratch/malcolm/edwards/TO8/run-
time/edex">
        <isset property="installto"/>
    </condition>
<property name="install.dir"
value="/scratch/malcolm/edwards/TO8/run-time/edex" />
```

5. Now compile and deploy. Make sure you're pointing to the correct version of ant. If not, you will get a "filelist..." error when you try to deploy.

```
ant clean
ant build
ant jibx
ant client (really only needed by cave builds)
ant deploy (assuming you wish to deploy edex into
            a runtime location)
```

"ant" will deploy to your runtime directories. Mine is set up as  
**/scratch/malcolm/edwards/TO8/run-time.**

6. You are now ready to re-rerun your EDEX daemons. Run your edex\_\* scripts as described in section "Run EDEX Daemons".