

## 6 Customize AWIPS OB8.3 in WES8.3

### 6.1 Migrate Local AWIPS Customizations to the WEScustomization Directory in WES8.3

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1. These customization instructions were designed to transfer AWIPS customization files from a real-time AWIPS with Build OB8.3 to WES8.3. If you don't have access to AWIPS customizations, then skip to Section 9.
2. The concept of migrating customizations to WES8.3 is to transfer all your important customization files from your local AWIPS to a central location on WES (`/awips/fxa/WEScustomization`) that will not be removed by future WES installations. Once your customizations have been brought over to the WES they will be copied to the AWIPS on WES in Section 6.2. Section 6 needs to be completed with help from the local AWIPS focal point who understands how the local AWIPS has been customized. To illustrate the following commands we will use the Chicago office, LOT, as the local CWA.
3. Log in to your WES machine as user fxa.
4. Identify a temporary storage directory on your local AWIPS to transfer AWIPS customization files to. You may find it helpful to use an NFS mounted partition like `/data/fxa` to collect files from different machines. In this example we will create `/data/fxa/localfiles` to collect AWIPS customization files.

e.g. `cd /data/fxa`

e.g. `mkdir localfiles`

5. On your DX1, copy `/data/fxa/customFiles`, `/data/fxa/userPrefs`, `/data/fxa/tstorm`, and `/data/fxa/ffmp` directories into the temporary storage directory:

e.g. `cp -R /data/fxa/customFiles /data/fxa/localfiles`

e.g. `cp -R /data/fxa/userPrefs /data/fxa/localfiles`

e.g. `cp -R /data/fxa/tstorm /data/fxa/localfiles`

e.g. `cp -R /data/fxa/ffmp /data/fxa/localfiles`

6. On your LX1, copy the following directories over to the temporary storage directory:

- /awips/fxa/data/localization/XXX directory (where XXX is your localization ID) ,
- /awips/fxa/data/colorMaps.nc ,
- /awips/fxa/data/fxa-users ,
- /data/fxa/workFiles/customColorMaps.nc:

e.g. `cp -R /awips/fxa/data/localization/LOT /data/fxa/localfiles`

e.g. `cp /awips/fxa/data/colorMaps.nc /data/fxa/localfiles`

e.g. `cp /awips/fxa/data/fxa-users /data/fxa/localfiles`

e.g. `cp /data/fxa/workFiles/customColorMaps.nc /data/fxa/localfiles`

7. If you have browser\*.txt volume browser files in your customFiles directory (step 5), then skip this step. If you do not have browser\*.txt files in customFiles and you have customized these files on your AWIPS, then you will need to copy /awips/fxa/data/vb/browser\*.txt files from your LX1 to the temporary storage directory:

e.g. `cp /awips/fxa/data/vb/browser*.txt /data/fxa/localfiles`

8. On your LX1 workstation copy the FFMP\* and ffmp\* files in /awips/fxa/data/localization/nationalData to the temporary storage directory:

e.g. `cd /awips/fxa/data/localization/nationalData`

e.g. `cp FFMP* /data/fxa/localfiles`

e.g. `cp ffmp* /data/fxa/localfiles`

9. Copy any specialized map files ( \*.bcx found in the /awips/fxa/data/localizationDataSets/XXX directory) into the the temporary storage directory.
10. Transfer the temporary storage directory to the WES via CD, scp, ftp, etc.
11. If you have previously customized your WES using previous WES customization instructions, you will need to back up the **customFiles**, **userPrefs**, **global-LLL-files**, **storagefiles**, **mainConfig**, and the **XXX** directory (e.g. **LOT**) in the /awips/fxa/WEScustomization directory on the WES machine before you update WES8.3 with your new OB8.3 customizations.

e.g. `cd /awips/fxa/WEScustomization/` (on WES machine)

e.g. `mv customFiles customFiles.ob82`

e.g. `mv userPrefs userPrefs.ob82`

e.g. `mv global-LLL-files global-LLL-files.ob82`

e.g. `mv storagefiles storagefiles.ob82`

e.g. `mv mainConfig mainConfig.ob82`

e.g. `mv LOT LOT.ob82`

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**Note:** One backup version is probably enough, so you can delete previous backups.

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12. Change directory to the temporary storage directory you copied over to the WES to prepare for copying files to `/awips/fxa/WEScustomization`.

e.g. `cd /media/cdrecorder/localfiles`

13. As user **fxa**, copy the following directories to `/awips/fxa/WEScustomization`: **customFiles**, **userPrefs**, **ffmp**, **tstorm**, and the **XXX** directory (where XXX is your localization ID) from step 6

e.g. `cp -R customFiles /awips/fxa/WEScustomization`

e.g. `cp -R userPrefs /awips/fxa/WEScustomization`

e.g. `cp -R ffmp /awips/fxa/WEScustomization`

e.g. `cp -R tstorm /awips/fxa/WEScustomization`

e.g. `cp -R LOT /awips/fxa/WEScustomization`

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**Note:** The XXX directory is the relatively small site-specific customization directory, `/awips/fxa/data/localization/XXX`, and **not** the big `/awips/fxa/data/localizationDataSets/XXX` directory.

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14. Copy the following files to the `/awips/fxa/WEScustomization/storagefiles` directory: **colorMaps.nc**, **fxa-users**, **customColorMaps.nc**, **browser\*.txt**, **\*.bcx**, **FFMP\***, **ffmp\***.

e.g. `cp colorMaps.nc /awips/fxa/WEScustomization/storagefiles`

e.g. `cp fxa-users /awips/fxa/WEScustomization/storagefiles`

e.g. `cp customColorMaps.nc  
/awips/fxa/WEScustomization/storagefiles`

e.g. `cp browser*.txt /awips/fxa/WEScustomization/storagefiles`

e.g. `cp *.bcx /awips/fxa/WEScustomization/storagefiles`

e.g. `cp FFMP* /awips/fxa/WEScustomization/storagefiles`

e.g. `cp ffmp* /awips/fxa/WEScustomization/storagefiles`

15. Copy any other relevant local customized files to the `/awips/fxa/WEScustomization/storagefiles` directory.
16. Change the permissions on the `colorMaps.nc` file to “-rw-rw-rw” if they aren’t set this way:

e.g. `chmod 666  
/awips/fxa/WEScustomization/storagefiles/colorMaps.nc`

17. Copy the `/awips/fxa/WEScustomization/userPrefs/$user` directory (where \$user is your favorite user’s preferences) into the `/awips/fxa/WEScustomization/userPrefs/fxa` directory. This set of user preferences will be applied to everyone logged in as user fxa.

e.g. `cd /awips/fxa/WEScustomization/userPrefs`

e.g. `mv fxa fxa.backup`

e.g. `ls`

e.g. `cp -R jhays fxa`

## **6.2 Migrate the Local AWIPS OB8.3 Customizations to the New OB8.3 with WES8.3**

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1. The following instructions assume you have copied over your AWIPS customizations to the `WEScustomization` directory as instructed in section 6.1
2. Identify a local case in `/data/awips` to localize with your CWA. To illustrate the following commands, we will use a 2002Jun12 case from the LOT CWA as an example.

3. If you have already applied steps 4, 5, 6, and 7 (below) in a previous WES customization using WES customization instructions, you can skip steps 4, 5, 6, and 7.

4. As user fxa, backup your customFiles and userPrefs directories in your case:

e.g. `cd /data/awips/2002Jun12`

e.g. `mv customFiles customFiles.orig`

e.g. `mv userPrefs userPrefs.orig`

5. Make a customFiles symbolic link in your data case that points to the customFiles directory in WEScustomization:

e.g. `ln -s /awips/fxa/WEScustomization/customFiles  
/data/awips/2002Jun12/customFiles`

6. Make a userPrefs symbolic link in your data case that points to the userPrefs directory in WEScustomization:

e.g. `ln -s /awips/fxa/WEScustomization/userPrefs  
/data/awips/2002Jun12/userPrefs`

7. Cd to the data case and list out the contents of the links to ensure the links resolve the appropriate directories and files in /awips/fxa/WEScustomization.

e.g. `cd /data/awips/2002Jun12`

e.g. `ls customFiles`

e.g. `ls userPrefs`

8. Cd to /awips/fxa/data/localization and backup your local CWA XXX directory:

e.g. `cd /awips/fxa/data/localization`

e.g. `mv LOT LOT.orig`

9. While in the same directory as step 8 (/awips/fxa/data/localization), make an XXX symbolic link (where XXX is the localization ID) that points to the pre-localization directory in WEScustomization:

e.g. `ln -s /awips/fxa/WEScustomization/LOT LOT`

10. List out the contents of the XXX link in /awips/fxa/data/localization/ created in the previous step to ensure the link resolves the appropriate directories and files in /awips/fxa/WEScustomization.

e.g. `ls /awips/fxa/data/localization/LOT`

11. Copy the **tstorm** and **ffmp** directories from `/awips/fxa/WEScustomization` into your data case:

e.g. `cd /awips/fxa/WEScustomization`

e.g. `cp -R tstorm /data/awips/2002Jun12`

e.g. `cp -R ffmp /data/awips/2002Jun12`

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**Note:** These directories and their contents must be copied to your case. Do not link these between multiple cases or you will have lots of problems.

**Note:** If you are assembling a data case for a non-local CWA you will need to modify the `/data/fxa/tstorm/FFMPPradartoCWA.txt` file to be consistent with your radar data before localizing.

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12. Make an XXX directory in `/awips/fxa/data/localization/nationalData/WES-FFMP` (where XXX is the localization ID) to prepare for customizing FFMP on WES.

e.g. `mkdir /awips/fxa/data/localization/nationalData/WES-FFMP/LOT`

13. Before copying any of the following files into the WES AWIPS, make a backup version of the file(s) you are copying over.

e.g. `cd /awips/fxa/WEScustomization/storagefiles` and copy:

| File                            | To Location   |
|---------------------------------|---|
| <code>browser*.txt</code>       | <code>/awips/fxa/data/vb</code> (only if <code>browser*</code> is not in <code>customFiles</code> ) |
| <code>fxa-users</code>          | <code>/awips/fxa/data</code>  |
| <code>customColorMaps.nc</code> | <code>&lt;data_case&gt;/workFiles</code>  |
| <code>FFMP*</code>              | <code>/awips/fxa/data/localization/nationalData/WES-FFMP/XXX</code>                                 |
| <code>ffmp*</code>              | <code>/awips/fxa/data/localization/nationalData/WES-FFMP/XXX</code>                                 |

where `<data_case>` refers to your case (e.g. 2002Jun12), and **XXX** is your localization ID.

14. Copy any other relevant files in the `storagefiles` directory except the `*.bcx` files and the `colorMaps.nc` files to the appropriate AWIPS directory. These files will be put into the localization after running `mainScript.csh` in Section 7.
15. Now you are ready to create a localization for your local case.