The following guide will walk you through updating your WES-2 Bridge workstation with the 16.2.2 AWIPS-2 and the 16.2.2 version of the WES-2 Bridge Software. This guide requires that the WES-2 Bridge Hardware & Software Installation for the Z600/Z620 workstation has been completed successfully up to Section F: Installation of WES-2 Bridge Software.

The installation disk contains three parts: An AWIPS-2 update to 16.2.2, a WES-2 Bridge update to 16.2.2, and the 16.2.2 WES-2 Bridge Test Case. If your site either has not installed AWIPS-2 or has an older version of AWIPS-2, please follow the entire installation guide. If your site already has applied the update to 16.2.2 AWIPS-2, then you are able to start with Section 2.

For Sites Upgrading Directly From the WES-2 Bridge 14.2.4 Image

If your site is looking to upgrade to the 16.2.2 version of AWIPS-2 and WES-2 Bridge directly from the 14.2.4 WES-2 Bridge Image, there are a set of RPM libraries that are necessary for the update to be successful that are not included with this installation. If your site wants to update directly, e-mail Alex Zwink (Alexander.Zwink@noaa.gov) and these libraries will be transferred to your workstation and installed, which will allow you to continue with the installation.

Section 1: Installation for AWIPS-2

1) Reboot/turn on your WES-2 Bridge workstation. This is to ensure any removal and reinstallation of the EDEXs is performed smoothly.

2) Log into your “wes2” workstation as the root user.

3) Insert the “16.2.2 AWIPS-2, WES-2 Bridge Software Update and Test Case” disk dated 12/09/2016 into your workstation.
4) Using a terminal window, run the 16.2.2 AWIPS-2 Update with the following commands:

```
  cd /media/W2B_16_2_2
  ./installA2Update20161205.csh
```

**NOTE:** This installation script will remove the “/awips2” directory, and with it any localizations that have been copied into the central localization store at “/awips2/edex/data/utility”. To prevent having to redo your local customizations, the installer will ask if you would like to back up your copied over localization, maps, and hydro database installed on EDEX_00 (if you’ve copied these items over). You will need to provide the WFOs of the site localizations you want to back up.

**Section 2: WES-2 Bridge 14.3.1 Software Installation**

**NOTE:** If you completed Section 1, you can skip to step 5 of Section 2. Otherwise, start from the beginning of Section 2.

1) Reboot/turn on your WES-2 Bridge workstation. This is to ensure any removal and reinstallation of the EDEXs is performed smoothly.

2) Log into your “wes2” workstation as the root user.

3) Insert the “16.2.2 AWIPS-2, WES-2 Bridge Software Update and Test Case” disk dated 12/09/2016 into your workstation.

4) Using a terminal window, change directories into the Update Disk media directory.

```
  cd /media/W2B_16_2_2
```

5) While on the disk directory, run the 16.2.2 WES-2 Bridge Update Setup with the following command:

```
  ./installW2BUpdate20161205.csh
```
6) Once the updated installer has been installed, use the following commands to run the WES-2 Bridge Software Installer

```bash
cd  /w2binstall/install_20161209
./install.sh
```

7) Once the WES-2 Bridge Installer launches, select Next.

8) The license agreement will be displayed. Accept the License agreement then select Next.

9) Verify that the WES-2 Bridge Installation path is set to `/w2b/wes` then select Next.

**NOTE:** A dialog box will appear confirming your settings: Select “OK” to create.

10) Verify that the default path for EDEX instance installation is set to `/data1/edex-environment` then select Next.

**NOTE:** A dialog box will appear confirming your settings: Select “OK” to create.

11) Verify that the Text Workstation Name is `wes2-xxx` where “xxx” is your site identifier, then select Next.
12) Verify all the boxes are checked, then select **Next**.

**Note:** If your site has already installed a 16.2.2 WES-2 Bridge and are just updating the software, the Creating Instance boxes will also be unchecked.
13) The WES-2 Bridge software will begin installing. During this process, a warning message may display (seen immediately below). If this message does display, select **Yes**. Once the installation is completed, select **Next**.

![Question window](image)

14) Once the installation is complete, select **Done**.

15) **OPTIONAL AND ONLY IF YOU BACKED UP THE HYDRO DATABASE IN SECTION 1**: To restore the EDEX_00 hydro database, you can use the “ReinstallHydroDatabase.csh” script using the following commands in a terminal window:

   ```bash
cd /media/W2B_16_2_2
./ReinstallHydroDatabase.csh
```

   **NOTE:** There will be a few errors that may occur with moving the pg_hba.conf file and errors associated with restoring the hydro database. These errors are ignorable.

16) Eject the BluRay disk from your workstation. For the 16.2.2 WES-2 Bridge Test Case install, you will need to perform this on a user account, and ejecting the disk and reinserting the disk as a user account should eliminate any permission issues.

   **Note:** Ensure any terminal windows are closed if you are having issues ejecting the disk.

17) Reboot the workstation.
Section 3: Installation of the 16.2.2 Test Case

1) Log into your “wes2” workstation on a user account.

2) Insert the “16.2.2 AWIPS-2, WES-2 Bridge Software Update and Test Case” disk dated 12/09/2016 into your workstation.

3) Using a terminal window, use the following commands to run the test case installer.

   cd  /media/W2B_16_2_2/TestCase
   ./testCaseInstall-16-2-2.csh

4) Once the installation of the test case is complete, log the completion of the 16.2.2 AWIPS-2/WES-2 Bridge 20161209 Update on the Google Form that is located on the WDTD support page. Exit out of the terminal window and eject the disc.
   (Located at: http://www.wdtb.noaa.gov/tools/wes2/support.php)

Section 4: Update any WESSL-2 scripts provided by WDTD

1) Log into your “wes2” workstation on a user account.

2) Insert the “WESSL-2 Script Updater” disc dated 12/15/2016 into your workstation.

3) Using a terminal window, use the following commands to run the WESSL-2 Script Updater.

   cd  /media/ScriptUpdate
   ./scriptUpdate.csh

4) From the menu, choose which case’s WESSL-2 script you would like to update.

5) When you’re done, press Q or q. Exit out of the terminal window and eject the disc.

This completes the 16.2.2 AWIPS-2 and WES-2 Bridge Software Update and Test Case Installation. If you have any questions or any errors that occur during this install process, contact Alexander Zwink (Alexander.Zwink@noaa.gov) or Dale Morris (Dale.A.Morris@noaa.gov) with any issues.