2 Requirements and Overview

The WES 9.14 baseline operating system is the 32-bit Linux Redhat Enterprise 5 (RHEL5) operating system, which is the same as the AWIPS baseline operating system. For general WES hardware requirements, please see the WES Implementation and Operations Plan (IOP) at the following web address.

http://www.wdtb.noaa.gov/tools/wes/admin/WES-IOP-Final.pdf

If you experience problems under the KDE desktop with windows freezing after the WES software sets the hardware clock, then we recommended using the Gnome desktop. If you still choose to use KDE, we have included a program called kde-reset in the fxa user's path to unfreeze windows if you encounter this problem. The kde-reset restarts the window manager. This command can be run from a shell prompt by typing "**`kde-reset`**". In addition, if you create an icon on the desktop for the start_simulator script, you will need to select "**`Run in Terminal`**" to prevent spontaneous logouts upon exiting the simulator.

The WES 9.14 install DVD is entirely self-contained and therefore does not require any previous WES versions to be installed. If a previous version of WES was installed, the installation script will replace: 1) the WES software with WES 9.14, 2) the Linux version of AWIPS with OB9.14, and 3) the AWIPS "freeware" software.

Starting in OB7.1, AWIPS migrated to an RPM-based installation of its freeware. The WES uses the same RPM-based installation. Most of the freeware software is installed in the **`/usr/local`** directory as in previous builds. The two exceptions (AWIPS-provided postgres and perl RPM's provided by AWIPS) will update elsewhere on your machine.

With the default installation procedure, the WES install scripts uninstall postgres and perl. If dependency problems in uninstalling these two applications occur, uninstall them manually using the **`rpm`** command (see Section 24) and re-run the WES installation scripts. If you have any local files saved in your local versions of postgres and perl, you should back them up before installing WES 9.14.

If you prefer to manually install the RPMs, we have provided a "**`-norpm`**" flag in the install script (see Section 4). The "**`-norpm`**" flag will not install the RPMs, and OB9.14 will not work until you manually install the RPMs following the instructions in Section 24.

AWIPS requires /bin/compress and /bin/uncompress in order to successfully create map files. If you are installing WES on a non standard machine and you do not have these, you can link compress to gzip and uncompress to gunzip in the /bin directory as root.

If you have not previously installed WES on the machine being used for the current installation and plan on storing AWIPS data locally on your machine, then you will have to identify a large disk partition to store the files. Each case study generally occupies between 10 and 30 GB of disk space, so it is suggested that you have a MINIMUM 20GB of available space for both data and the WES 9.14 distribution. Ideally, you will

have 50GB+ set aside to handle multiple large datasets. The general convention for housing WES and WES data is to have **`/data`** and **`/awips`** be symbolic links that point to the install directory. The install script will guide you through this process. The freeware located in **`/usr/local`** is ~ 850 MB in size.

If you have not successfully installed WES before, then you will need to configure your Linux display to support AWIPS D2D. In order to run D2D, your display should be in 24-bit Truecolor mode with a minimum resolution of 1280x1024. You can check your current display with the **`xdpyinfo`** command. If you try to run D2D in 8-bit Pseudocolor mode the process will die a horrible death.

The WES 9.14 package contains both NWS AWIPS software and WES© software. The WES© software was written by CIMMS personnel at the University of Oklahoma in collaboration with the Warning Decision Training Branch and others. Limitations exist on the distribution of this package; however, NWS collaborators may obtain WES 9.14 at no cost by requesting a copy from the WES distribution focal point and by agreeing to the conditions of the WES© software license agreement in the install script. To submit requests for WES 9.14 please contact the Warning Decision Training Branch for details.

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