

AWIPS SOFTWARE INSTALLATION NOTE 68  
Maintenance, Logistics, and Acquisition Division  
W/OPS12: SG

**SUBJECT:** AWIPS Release OB8.1 and Emergency Release OB8.1.0.1

**PURPOSE:** Provides installation instructions and related information for the software release.

**SITES AFFECTED:** All Weather Forecast Offices (WFO), River Forecast Centers (RFC), regional headquarters and National Centers for Environmental Prediction (NCEP).

**AUTHORIZATION:** The authority for this note is Request for Change (RC) 10407.

**VERIFICATION STATEMENT:** This procedure was tested and verified on test platforms at the National Headquarters in Silver Spring, MD (NMTW, NMTR and NHOR), and the following operational platforms: Central Region Headquarters in Kansas City, MO (BCQ); Southern Region Headquarters in Ft Worth, TX (EHU); Pacific Region Headquarters in Honolulu, HI (PBP); Eastern Region Headquarters in Bohemia, NY (VUY); Weather Forecast Offices (WFO) Taunton, MA (BOX); Huntsville, AL (HUN), Indianapolis, IN (IND); Billings, MT (BYZ); Tampa Bay, FL (TBW); Des Moines, IA (DMX); Midland, TX (MAF); Monterey, CA (MTR), Pendleton, OR (PDT); Wilmington, NC (ILM); Gray, ME (GYX); Charleston, SC (CHS); River Forecast Centers (RFC) Northwest in Portland, OR (PTR), Ohio in Wilmington, OH (TIR); and the Radar Operations Center in Norman, OK (OSFW).

**ESTIMATED COMPLETION DATE:** All sites should complete installation by September 30, 2007. The installation date must be scheduled on the NWS Oracle AWIPS Schedule calendar.

**TIME REQUIRED:** Approximately 2 to 3 hours, depending on the number of workstations.

**ACCOMPLISHED BY:** Electronic Systems Analysts (ESA) or their designee.

**EQUIPMENT AFFECTED:** AWIPS

**SPARES AFFECTED:** None.

**PARTS/MATERIALS REQUIRED:** AWIPS OB8.1 Software Installation DVD.

**SOURCE OF PARTS/MATERIALS:** Raytheon

**DISPOSITION OF REMOVED PARTS/MATERIALS:** Not Applicable.

**TOOLS AND TEST EQUIPMENT REQUIRED:** None.

**DOCUMENTS AFFECTED:** File this note in EHB-13, Section 3.1. Discard all previous software installation instructions prior to Build OB7.1 (AWIPS Software Installation Instruction Note 64) in Section 3.1.

PROCEDURE:	<p>These instructions are written for both RFC and WFO systems. As a result, some instructions may only be applicable to RFC systems, WFO systems or individual sites. Each step or section is clearly marked. <b>All steps are required unless otherwise directed in the instructions.</b></p> <p>Script log output files for this release are available at <a href="https://www.ops1.nws.noaa.gov/Secure/awips_software.htm">https://www.ops1.nws.noaa.gov/Secure/awips_software.htm</a></p>
TECHNICAL ASSISTANCE:	<p>For questions or problems pertaining to this note, contact the Network Control Facility (NCF) at (301) 713-9344 and ask for OB8.1 installation support.</p>
REPORTING INSTRUCTIONS:	<p>Report the completed modification using the Engineering Management Reporting System (EMRS) according to the instructions in <a href="#">EHB-4, Maintenance Documentation</a>, Part 4, and Appendix F. Include the following information on the EMRS report:</p> <p>Maintenance Description (block 5): <b>Install AWIPS Release OB8.1</b></p> <p>Equipment Code (block 7): <b>AWIPS</b></p> <p>Serial Number (block 8): <b>001</b></p> <p>Maintenance Comments (block 15): <b>Installed Release OB8.1 I.A.W. AWIPS Software Installation Instruction Note 68.</b></p> <p>Mod No. (block 17a): <b>S68</b></p> <p>A sample EMRS report is provided as attachment <b>E</b>.</p>

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## ATTACHMENT A - Pre-Installation Instructions

The identity of the system can be determined by checking the `$SITE_TYPE` variable. Each AWIPS also has a unique site name, which can be determined by checking the `$SITE_IDENTIFIER` variable.

### A.1 General Information

The OB8.1 installation includes new software for AWIPS major build OB8.1 and Emergency Release OB8.1.0.1 (see Attachment E).

#### A.1.1 Prerequisites

The following installations must be completed before proceeding with the OB8.1 installation:

- AWIPS CP Replacement Procedure as per System Modification Note 32.
- AWIPS OB7.2.1 Maintenance Release as per Software Modification Note 67.

#### A.1.2 Operating System Images Included for Restoration Procedures

The OB8.1 AWIPS DVD includes RedHat 4u2 CD images (iso files) for disk 1 and disk 2. With the assistance of the NCF, these CD images can be used in a restoration procedure for LX, XT, CPSBN, AX and PX devices. Store the DVD in a known location so that the images can be retrieved when a device needs to be restored.

#### A.1.3 (WFO Systems only) WarnGen Template Information

By design, all OB7.2 templates will work with the OB8.1 WarnGen executable. However, there are minor (cosmetic) changes that can be incorporated into custom files after the installation. The Site Support Team has provided separate [instructions](#) for updating custom templates. A list of templates updated is included in Attachment C.

### A.2 Pre-Installation Procedures

Complete Sections A.2.1 through A.2.7 prior to beginning the core installation in Attachment B.

#### A.2.1 Coordinate Installation Date

Coordinate the installation with backup sites, uplink sites, hub site pairs, and Center Weather Service Units (CWSU), as applicable.

1. AWIPS will be unavailable for operational use during the installation. Coordinate with backup sites to arrange for service backup as needed.
2. Weather Wire uplink sites must ensure that the backup Weather Wire site(s) are not upgrading to this release concurrently. Contact the AWIPS Regional Focal Point to request assistance with this coordination.
3. Wide area network (WAN) hub sites must ensure that the corresponding hub site pair is not concurrently doing similar upgrades. Hub site pairs are BOX/CTP, EAX/TSA, MPX/ILN, FFC/LIX, STO/PQR and SLC/FWD. Contact the AWIPS Regional Focal Point to request assistance with this coordination.
4. Sites with connections to CWSUs must coordinate the installation of this release with those sites, since there will be a disconnection during the release installation.

### A.2.2 Download National Data Management Files

Download the required OB8.1 National Data Management (NDM) files that will be used in the installation. These files are placed in a safe directory until the main install day. Attachment D contains a list of the files downloaded in this step.

1. From a Linux Workstation, open a terminal window and logon to the **DX1** as `root`.
2. As user `root` from **DX1**, type the following commands:

```
rm -f /local/install/*
mkdir -p /data/local/nationalData
chown fxa:fxalpha /data/local/nationalData
chmod 775 /data/local/nationalData
cd /data/local/nationalData
mv /data/local/nationalData/* /tmp
```

**NOTE:** For the following sftp command, type **yes** to any system prompts about adding the RSA key.

```
sftp ftpawips@165.92.25.137 (Type in password !SAWIPS4 when prompted.)
cd pub/ndm/OB81
mget * (6 files are downloaded.)
exit
chown fxa:fxalpha *
```

**NOTE:** If the site has made localized changes to any of the files listed in Attachment D, it is necessary to merge modifications into the downloaded files before the day of the install. Send NDM changes that are applicable to Fran Curnow ([frances.curnow@noaa.gov](mailto:frances.curnow@noaa.gov))

### A.2.3 (Upper Air sites only) Check Backup Configuration for RRS

Upper air sites using the Radiosonde Replacement System (RRS) should verify the ability to transmit the upper air messages to a backup site. If the OB8.1 installation is planned during the upper air flight, transmissions must be sent to the backup site.

### A.2.4 Evaluate Database Change Impacts on Local Applications

In OB8.1, a few changes are made to existing tables in the Integrated Hydrologic Forecast System (IHFS) Database that could affect local applications.

- In LWstmt table, the “source” field is renamed to “lw\_source” and the “criteria” field is renamed to “lw\_criteria”.
- Columns “source” and “criteria” appear in other tables with differing lengths.
- In Location table, a record is added with lid = ‘XXXXX’ for use as a default value for

upstream\_seg column in FcstPtDeterm and FcstPtESP tables.

- The VTECevent and VTECpractice tables are modified to drop column “geomode” and add column “expiretime”.

If local applications are affected by the changes, make appropriate changes as necessary.

### A.2.5 Clean Up Obsolete Files in Customized Directories

Although not mandatory, it is recommended to review and remove obsolete Watch Warning Advisory (WWA) and WarnGen templates and old backup directories located in /data/fxa/customFiles and /awips/fxa/data/localization/LLL prior to the OB8.1 installation. The WWA application has been removed from the baseline and WarnGen templates prior to OB7.2 are not compatible with the OB8.1 WarnGen application.

### A.2.6 (RFC Systems Only) Save Local Changes on Archive Server

Due to a configuration management change, the OB8.1 installation will include a full install on the archive server. Any changes made to scripts to meet local requirements should be saved off and merged back in after the upgrade.

### A.2.7 Check Software Installation DVD

Verify that the installation DVD is mountable and readable. If any errors are encountered mounting the DVD or reading files using the commands, contact the NCF at (301) 713-9344, and request OB8.1 Install support.

1. Insert the AWIPS OB8.1 Software DVD into the DX1 DVD-ROM drive.
2. As user `root` from **DX1**, type the following commands to mount and check the DVD:

```
mount /dev/cdrom
```

```
cd /media/cdrecorder
```

```
cat installLinux_OB81 (Verify output is displayed.)
```

```
cat gfe/INSTALLATION.html (Verify output is displayed.)
```

```
cd /
```

```
eject /dev/cdrom
```

The pre-install steps are complete. Proceed to Attachment B for the main installation on the scheduled install day.

## ATTACHMENT B - Main Installation Instructions

### B.1 Preparation Instructions for the OB8.1 Software Upgrade

#### B.1.1 Time to Complete Install

It will take approximately 2 to 3 hours to complete the installation.

#### B.1.2 Notify the NCF

Before starting the installation, open a trouble ticket with the NCF by calling (301) 713-9344. If problems are encountered during the install, contact the NCF and ask for OB8.1 install support.

#### B.1.3 Prepare AWIPS System for Software Upgrade

1. Initiate service backup, if needed.
2. Terminate all D2D sessions and log out of the **LX** workstations.
3. Log out of all text workstations, and terminate any local and AWIPS applications open.
4. (PACE sites) Switch off PACE input during the installation.
5. (ASOS sites) Prevent ASOS from dialing in to LDAD by turning off the dial-in phone lines on the LDAD.
6. (Radar sites) Send a message indicating radar unavailability during the installation.
7. Sites with data feeds to the FAA should contact the FAA to notify them of the installation.
8. Weather Wire uplink sites should contact Dyncorp, and ensure a backup uplink site is not expected to be in service backup.
9. Sites with a CWSU connection should request that the CWSU log out of their D2D application. Unplug the wire to the CWSU.
10. Log into any workstation as `root`, open a terminal window, and log in to **DX1** (as `root`).
11. Run the script to move the NDM files into the proper location.

```
script -a -f /local/install/moveob81files.out
cd /data/local/nationalData
./moveob81files.sh          (Takes < 1 minute.)
exit
```
12. Insert the OB8.1 AWIPS Software DVD into **DX1** DVD drive.
13. As user `root` on **DX1**, type the following command to mount the DVD:

```
mount /dev/cdrom
```

## B.2 Installation Procedure for the OB8.1 Software Upgrade

This section is the core installation. Complete each step as directed.

1. Execute the following script to install AWIPS application software updates.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installLinuxOB81.out
cd /media/cdrecorder
./installLinux_OB81
```

(Takes 70 to 100 minutes.)

**NOTE:** The script may appear to hang at the Changing permissions and ownership to `fxa` display. **Do not stop the script at this point.**

```
exit
```

2. Execute the following script to install the Hydrology software. Ignore any `chmod` messages.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installOHOB81.out
cd /media/cdrecorder
./installOH_OB81
```

(Takes approximately 1 minute.)

```
exit
```

3. **(WFO Systems only)** Execute the ADAPT script. Ignore `climate_HP.tar.gz` and `wwa_hp.tar.gz` error messages.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installADAPTOB81.out
cd /media/cdrecorder
./installADAPT_OB81
```

(Takes approximately 1 minute.)

```
exit
```

4. **(RFC Systems only)** Execute the AX script to update the AX.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installAXOB81.out
cd /media/cdrecorder
./installAX_OB81
```

(Takes 1 to 3 minutes.)

```
exit
```

5. **(Select systems only)** Execute the NMAP script. The script installs NMAP version 5.10.2.

**NOTE:** Only the following sites should install the NMAP software: ACR, AFC, AFG, AJK, ALR, BCQ, EHU, FWR, GUM, HFO, KRF, MFL, MSR, NHCR, NHCW, NHDA, NHOR, NHOW, ORN, PBP, RHA, SJU, SPCW, TAR, TBDR, TIR, TUA, VHW, VRH, VUY, WNAW, WNOR, and WNOW.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installNMAPOB81.out
cd /media/cdrecorder
./installNMAP_OB81                (Takes 2 to 5 minutes.)
exit
```

6. Execute the post-install script.

As user `root` on **DX1**, type:

```
script -a -f /local/install/postinstallOB81.out
cd /media/cdrecorder
./postinstall_OB81                (Takes approximately 15 minutes.)
exit
```

7. **(WFO Systems only)** Execute the GFE Core script.

As user `root` on **DX1**, type:

```
script -a -f /local/install/gfeOB8101.out
cd /media/cdrecorder/OB8101/gfe
./masterGFEInstall XXX            (XXX is localization ID in upper case.)
exit                                (Takes 5 to 10 minutes.)
```

8. **(WFO Systems only)** Execute the IFPS install script.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installIFPSOB81.out
cd /media/cdrecorder/ifps
./installIFPS                      (Takes approximately 5 minutes.)
exit
```

9. **(WFO Systems only)** Execute the AVNFPS script to install version 3.4 of AVNFPS.

As user `root` on **DX1**, type:

```
script -a -f /local/install/installAVNFPSOB81.out
cd /media/cdrecorder
./installAVNFPS.sh /media/cdrecorder (Takes < 1 minute)
```

**exit**

10. (All sites) Install the OB8.1.0.1 patch. As user `root` on `DX1`, type:

```
script -a -f /local/install/push_OB8101.out
```

```
cd /media/cdrecorder/OB8101
```

```
./push_OB8.1.0.1 (Takes approximately 2 minutes.)
```

**exit**

Run the following command to verify if there was any problem with the push:

```
grep -i busy /local/install/push_OB8101.out
```

If any results come back, contact the NCF for assistance.

11. Unmount the DVD from the `DX1` DVD-ROM drive.

As user `root` on `DX1`, type:

```
cd /
```

```
eject /dev/cdrom
```

12. Remove the DVD from the `DX1` CD-ROM drive.

### **B.3 Post Install**

#### **B.3.1 Restore the System**

Complete or review the following steps to return the system to full operation.

1. Permit users to logon to AWIPS.
2. (PACE sites) Turn the PACE input back on.
3. (ASOS sites) Turn on the dial-in phone lines to allow ASOS to access LDAD.
4. (Radar sites) Send a message regarding the return to service of the radar.
5. Baseline crons (such as the `px1cron`) were delivered during the install. Verify crons such as `climate` are set to the proper run time.
6. Start the Mozilla browser and verify that servers and processes are processing normally.
7. Verify that radar products are being stored locally. Sites that send radar products should verify radar products are disseminated via the WAN by checking the following site:  
<http://weather.noaa.gov/monitor/radar>
8. Restore the CWSU connection, if applicable, and relay to CWSU staff of system availability.

#### **B.3.2 (WFO Systems only) MDL Application Cleanup and Localization**

The postgres database was down during the main localization. Therefore, a necessary Flash Flood Monitoring and Prediction (FFMP) file was not created correctly because the localization could not

access the hydro database. In addition, the `snow` and `safeseas` localizations ran before the Release ID was updated. Perform the following steps to rerun localization and re-initialize the FFMP and SNOW applications, as well as the SAFESEAS application at WFO Systems with maritime responsibilities.

1. As user `fxa` on **DX1**, run the forced localization for the site by typing:  

```
cd /awips/fxa/data/localization/scripts
./mainScript.csh f -scan -snow -safeseas
```
2. Stop the FFMPprocessor on PX1 by typing:  

```
ssh px1
stopFFMPprocessor
```
3. Re-start the FFMPprocessor on PX1 by typing:  

```
startFFMPprocessor
```
4. Stop the SNOWprocessor on PX1 by typing:  

```
stopSNOWprocessor
```
5. Re-start the SNOWprocessor on PX1 by typing:  

```
startSNOWprocessor
```
6. **(Maritime WFO Systems Only)** Stop the SAFESEASprocessor on PX1 by typing:  

```
stopSSprocessor
```
7. **(Maritime WFO Systems Only)** Restart the SAFESEASprocessor on PX1 by typing:  

```
startSSprocessor
exit
```

<p><b>NOTE:</b> After completing these localization procedures, the FFMP application will not function until the processor has built up data. For example, only after a minimum of 30 minutes have passed since completion of the localization procedures, the application will be able to display the 30 minute data.</p>
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### B.3.3 Notify the NCF

Contact the NCF and close the trouble ticket that was opened for the installation.

### B.3.4 (WFO Systems only) Update Customized WarnGen Templates

By design, all OB7.2 templates will work with the OB8.1 WarnGen executable. However, there are minor (cosmetic) changes that should be incorporated into custom files after the installation. Guidance on the changes is posted on the [https://www.ops1.nws.noaa.gov/Secure/awips\\_install](https://www.ops1.nws.noaa.gov/Secure/awips_install) Web page.

### B.3.5 Run Backup Localizations

A backup localization needs to be run (as user `fxa`) on each workstation before WarnGen can be used in backup mode. An example of the command to use is:

```
cd /awips/fxa/data/localization/scripts
./mainScript.csh f -WS BBB LLL
```

(Where *BBB* is the backup site and *LLL* is the local site ID.)

### B.3.6 (RFC Systems only) Edit Local Configuration File

Configure the XAPPLRESDIR environment variable to point to the X11 app-defaults file.

1. As user `oper` from **DX1**, type the following command:

```
cd /awips/hydroapps/lx/public/bin
```

2. Edit the `awips.profile` file and add or edit so that an entry looks like the following:

```
export XAPPLRESDIR=/usr/X11R6/lib/X11/app-defaults/
```

3. Save and exit.

### B.3.7 (RFC Systems Only) Edit the cron file on PX1 and PX2

1. As user `root` from **PX1** type the following command:

```
cd /etc/ha.d/cron.d
```

2. Edit the `px1cron` file so that an entry looks like the following:

```
#
# generate qpe mosaic (at WFOs only)
#
#05,20,35,50 * * * * oper /awips/hydroapps/precip_proc/local/bin/process_qpe_mosaic
#
```

3. Copy the `px1cron` file to the `/etc/cron.d` directory on **PX2** by typing the following command from the `/etc/ha.d/cron.d` directory:

```
scp -rp px1cron px2-<site id>:/etc/ha.d/cron.d/px1cron
```

4. Copy the `px1cron` file to the `/etc/cron.d` directory by typing the following command from the `/etc/ha.d/cron.d` directory:

```
cp px1cron /etc/cron.d
```

5. Restart the cron by typing the following command:

```
touch /etc/cron.d
```

### B.3.8 Provide Comments (optional)

Send any comments, problems, or suggestions for improvements to the installation instructions to Sanford Garrard [sanford.garrard@noaa.gov](mailto:sanford.garrard@noaa.gov) of the AWIPS Support Branch at NWS Headquarters in Silver Spring, MD.

## ATTACHMENT C - WarnGen Template Changes

The following WarnGen templates are delivered to /data/fxa/nationalData in OB8.1:

wwa\_dam\_break.preWWA  
wwa\_ffw.preWWA  
wwa\_ffw\_svr.preWWA  
wwa\_flflood\_sta\_county.preWWA  
wwa\_flood\_adv.preWWA  
wwa\_flood\_adv\_sta.preWWA  
wwa\_flood\_wrn.preWWA  
wwa\_svr.preWWA  
wwa\_mar\_wx\_sta.preWWA  
wwa\_mws\_nosmw.preWWA  
wwa\_specmarine.preWWA  
wwa\_svrwx\_sta\_county.preWWA  
wwa\_tor.preWWA

The following templates (Extreme Wind Warning) are placed in /data/fxa/nationalData at the 47 sites who are authorized to use them.

wwa\_eww.preWWA  
wwa\_eww\_svs.preWWA

**ATTACHMENT D - NDM Files Updated in OB8.1**

The following National Data Management (NDM) files are downloaded from the NOAA1 server for the OB8.1 installation:

dataInfo.manual

depictInfo.manual

productButtonInfo.txt

GOESImagerInfo.txt

redbookHPCMenus.txt

moveob81files.sh

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**ATTACHMENT E - DRs Fixed in Emergency Release OB8.1.0.1**

The 4 DRs fixed in OB8.1.0.1 are as follows:

- 19242 GFE: ETNs for TS and HU not being maintained in the CWF (Ref DR19096)
- 19231 OB8.1.0.1: HandleGenericMsg incorrectly sets valid flag (Ref OB7.2.1.1 DR 19130)
- 19232 OB8.1.0.1: RadarStorage mishandles the Mesocyclone Detection product (DR 18498)
- 19252 SCAN: DMD icon and Table display occasionally crashed for OB7.2.1. Duplicate of DR 19140 No code changes

ATTACHMENT F - Sample EMRS Report

<span>New A26</span> <span>Commit A26</span> <span>Place on Hold</span> <span>Copy A26</span> <span>Delete A26</span> <span>Detail Report</span> <span>Document Summary</span> <span>Create USOS</span> <span>Help</span>									
<b>GENERAL INFORMATION</b> NEW RECORD      WFO* DVN      Document No.* DVN70720000									
1. Open Date	Open Time	2. Op Initials	3. Response Priority		4. Close Date	Close Time			
07/20/2007	08:00	WSH	<input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		07/20/2007	11:00			
5. Maintenance Description					481 characters left      AWIPS				
AWIPS Release OB8.1									
<b>EQUIPMENT INFORMATION</b> 6. Station ID* DVN      7. Equipment Code* AWIPS      8. Serial Number 001      9. TM M      10. AT M      11. How Mal 999									
Alert: <span style="color: blue;">Time Remaining:</span> (For Block 12 use only)									
<b>13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING</b>									
ASN	Vendor Part No. (New Part)	Serial Number (Old Part)	Serial Number (New Part)	New Row					
				Delete Row					
<b>14. WORKLOAD INFORMATION</b>									
a. Routine		b. Non-Routine		c. Travel		d. Misc		e. Overtime	
Hours	Minutes	Hours	Minutes	Hours	Minutes	Hours	Minutes	Hours	Minutes
						3	0		
<b>MISCELLANEOUS INFORMATION</b> 15. Maintenance Comments 674 characters left Installed AWIPS OB8.1 I.A.W. AWIPS Software Installation Instruction Note 68									
									16. Tech Initials WSO
<b>17. SPECIAL PURPOSE REPORTING INFORMATION</b>									
a. Mod No.	b. Mod Act/Deact Date	c. Block C	d. Trouble Ticket No.	e. USOS Outage Doc No.	Expand				
S68	07/20/2007								
<b>18. Work Order Information:</b>									
Work Accomplished by <input type="radio"/> Region Headquarters <input checked="" type="radio"/> Electronics <input type="radio"/> WFO/Office <input type="radio"/> Facilities <input type="radio"/> Maintenance Contractor					Est. Cost or Bid      Req. Completion Date \$				
Contractor Maintenance Time Hours      Minutes									
<span>Commit A26</span> <span>Schedule on Commit</span> <span>Place on Hold</span> <span>Schedule on Hold</span> <span>Copy A26</span> <span>New A26</span> <span>Cancel</span>									