

AWIPS APPLICATION INSTALLATION INSTRUCTION NOTE 6 (for Electronics Technicians)
Maintenance, Logistics, and Acquisition Division
W/OPS12: JCS

SUBJECT : AvnFPS 2.0 Full Installation Instructions

PURPOSE : To issue AvnFPS 2.0 **Full** software installation instructions.

EFFECTIVITY : All CONUS and OCONUS AWIPS WFO sites must install AvnFPS 2.0 release. This mod note does not cover delta upgrades for AvnFPS 2.0 alpha or beta sites. Those procedures will be addressed in a separate mod note. The list of sites not covered by this mod note are provided.

PREINSTALLATION REQUIREMENTS : For full install: OB2 must be installed on your AWIPS system.

AUTHORIZATION : The authority for this modification note is Request for Change AB862.

VERIFICATION STATEMENT : The AvnFPS 2.0 Full installation procedures were tested and verified on OS&T's NMTW test platform in Silver Spring, MD and the following sites:

- Boston/Taunton, MA (BOX)
- Dodge City, KS (DDC)
- Amarillo, TX (AMA)
- Caribou, ME (CAR)
- Hastings, NE (GID)
- Jackson. MS (JAN)

ESTIMATED TIME REQUIRED : Approximately 15 minutes.

SECURITY LEVEL : root

EFFECT ON OTHER INSTRUCTIONS : None.

TECHNICAL SUPPORT : For questions or problems regarding these installation instructions or installing this release, please contact the NCF at (301) 713-9344.

GENERAL:

The AvnFPS 2.0 Full installation upgrade kit includes four files pushed to each site's /data/local/avnfps directory labeled, (1) AVNFPS2.0.OB3delta.tar.gz, (2) upgradeAVNFPS2.0.OB3.sh, (3) installAVNFPS2.0.sh, and (4) AVNFPS2.0.OB2.tar.gz, dated January 15, 2004.

AvnFPS 2.0 Delivered Functionality

- AvnFPS is now configured to ingest GFE gridded data that provides the ability to monitor

NOTE: Refer to the web address provided below for the following AvnFPS 2.0 (full) related material:

- Introduction
- AvnFPS2.0 User's Guide
- Release Notes
- Installation Instructions
- Frequently Asked Questions (FAQs)/AvnFPS Troubleshooting
- Support
- Completing and Returning the AvnFPS2.0 Feedback Assessment Form (Only to be completed and returned by AvnFPS Alpha and Beta Sites)
- AvnFPS ListServer
- Sample AvnFPS Install Log (i.e., on an OB3 system)
- Sample AvnFPS Deinstall Log
- Links to Other AvnFPS Builds

<http://www.nws.noaa.gov/mdl/icwf/AVNFPS2.0/AvnFPS2.0.html>

and compare wind and weather grids from GFE to the TAFs.

- A graphical TAF editor, using METAR, TAF and AVN/NGMMOS has been added.
- The capability of an office to create and use smart tools.
- A tools directory is new in this release. A tool is a module called from the TAF editor that decodes current forecasts, modifies data, and puts the resulting forecast back into the text editor in AVNFPS 2.0.
- Guidance/METARs formatted like a TAF and the text is color coded for VFR/IFR, etc., has been added.
- Ability to resize windows several ways.
- Additional AvnFPS data sources have been added. In addition to monitoring METARs, AvnFPS 2.0 also monitors lightning data (cloud to ground strikes in AWIPS), and MOS lightning forecasts (MOS lightning probabilities).
- User interface enhancements.
- To learn more about these new features, go to the AvnFPS2.0 User's Guide at:

<http://www.nws.noaa.gov/mdl/icwf/avnfps2/>

General Installation Guidelines:

- NCF upgrade support is available from 7 a.m. to 7 p.m. EDT, Monday through Thursday.
- OCONUS sites requiring upgrade assistance outside the set support hours on Thursdays, must coordinate through their AWIPS regional focal point. If the NCF is not advised ahead of time, they will assume a scheduled OCONUS site will follow the set support hours.

INSTALLATION PROCEDURE

Refer to the following web address for AvnFPS 2.0 Full installation instructions:

http://www.nws.noaa.gov/mdl/icwf/avnfps2/avnfps2.0_install.htm

CRITICAL NOTE:

OB3 binaries were built with a newer version (i.e., 3.2) of the gcc compiler than the version (2.95) used to generate some of the AvnFPS1.0 binaries. As a result, some AvnFPS1.0 binaries will fail to execute or properly execute when loaded on an AWIPS Build OB3 system. Therefore, in order to have a functioning version of AvnFPS on a AWIPS OB3 system, it is **MANDATORY** to install or to upgrade to AvnFPS2.0.

Sites running OB2 are required to install AvnFPS 2.0 and then, immediately after upgrading to AWIPS OB3, update the AvnFPS 2.0 binaries. The OB3 install instructions will direct a site through the binary upgrade steps. Should a site install OB3 prior to installing AvnFPS 2.0, the AvnFPS2.0 installation script will select the proper binaries.

ALPHA/BETA SITE LIST

The following site installs are **not** covered by this mod note.

AFG - Fairbanks, AK	AJK - Juneau, AK	AMA - Amarillo, TX
BOX - Boston/Taunton, MA	BUF - Buffalo, NY	CAR - Caribou, ME
CTP - Central PA WFO	DDC - Dodge City, KS	DLH - Duluth, MN
GID - Hastings, NE	HFO - Honolulu, HI	JAN - Jackson, MS
LOT - Chicago WFO	MOB - Mobile, AL	MRX - Morristown, TN
PBZ - Pittsburgh, PA	PQR - Portland, OR	SGF - Springfield, MO
SHV - Shreveport, LA	TBW - Tampa, FL	TSA - Tulsa

REPORTING INSTRUCTIONS:

Report the completed modification using the Engineering Management Reporting System (EMRS) according to the instructions in NWS Instruction 30-2104, Maintenance Documentation, Part 4, Appendix F. Include the following information on the EMRS Report:

Block #	Block Type	Information
5	Description	Install AvnFPS 2.0
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Downloaded and installed AvnFPS version 2.0 I.A.W. AWIPS Application Installation Instruction Note 6
17a	Mod. No.	AS6

A sample EMRS report is provided as attachment A.

Mark S. Paese
Director, Maintenance, Logistics, and Acquisition Division

Attachment A - EMRS Report Sample

Attachment A - EMRS Report Sample

A26 Detail Form - ESCM2, SILVER SPRING, MD :: JOHN MERHI - Microsoft Internet Explorer

New A26 Commit A26 Place on Hold Copy A26 Delete A26 Detail Report Document Summary Help

GENERAL INFORMATION

NEW RECORD WFO* PHI Document No.* PHI40209000

1. Open Date	Open Time	2. Op Initials	3. Response Priority	4. Close Date	Close Time
02/09/2004	07:00	WSH	<input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable	02/09/2004	07:30

5. Maintenance Description 482 characters left AWIPS

Install AvnFPS 2.0

EQUIPMENT INFORMATION

6. Station ID*	7. Equipment Code	8. Serial Number	9. TM	10. AT	11. How Mal
PHI	AWIPS	001	M	M	999

Alert: Time Remaining:
(For Block 12 use only)

13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING

ASN	Vendor Part No. (New Part)	Serial Number (Old Part)	Serial Number (New Part)	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	New Row
				Delete Row

14. WORKLOAD INFORMATION

a. Routine	b. Non-Routine	c. Travel	d. Misc	e. Overtime
Hours Minutes				
<input type="text"/>				
			30	<input type="text"/>

MISCELLANEOUS INFORMATION

15. Maintenance Comments 676 characters left

Downloaded and installed AvnFPS 2.0 I.A.W. AWIPS Application Instruction 6

16. Tech Initials

JB

17. SPECIAL PURPOSE REPORTING INFORMATION

a. Mod No.	b. Mod Act/Deact Date	c. Block C	d. Trouble Ticket No.	e. Block E
AS6	02/09/2004	<input type="text"/>	<input type="text"/>	<input type="text"/>

Commit A26 Place on Hold Copy A26 New A26 Cancel

Done Internet