

**T.O. 9 Forecaster Initial Testing (FIT) – Technical Interchange Meeting (TIM)
Orientation Meeting Agenda**
(12/2/08 – 12/4/08)

Meeting Location: 1325 East West Highway / Building SSMC-2 / Room 8246 (8th floor)
Start Time: 8:15 AM

- I) **Introduction**
 - a. **FIT Team**
 - i. **Field Team**
 1. Paul Jendrowski: WFO RNK (NCLADT member)
 2. Matt Davis: WFO ARX (NCLADT member)
 3. Dan Porkorny: RFC MSR (NCLADT member)
 4. Jamie Frederick: WFO TSA (NCLADT member)
 5. Jay Smith: WFO AFG (UFE team member)
 6. Eric Lau: Pacific Region (AWIPS Focal Point)
 7. Mark Fenbers: RFC TIR (NCLADT member)
 - ii. **Support Team**
 1. Ashley Kells: SEC (Site Migration Team Lead)
 2. Jim Calkins: SEC (IV&V Lead)
 3. Jim Williams: SEC
 4. John Olsen: SEC (NCLADT Lead)
 5. Bob Rood: SEC (FIT & UFE Lead)
- II) **FIT Team Responsibilities Review**
 - a. **Test Team**
 - b. **Support Team**
- III) **Test Platform Overview (Refer to Appendix A)**
 - a. **NHDA Configuration**
 - b. **CAVE Setup**
 - c. **Accessing the Internet from the NHDA Workstations (Refer to Appendix B)**
- IV) **Primary T.O. 9 Functional Overview**
 - a. **Major functionality delivered**
 - i. GFE
 - ii. WarnGen (follow-up template delivered)
 - iii. AvnFPS
 - b. **Documentation Review (Appendix C provides links to T.O. 9 documents)**
 - c. **Review results of Government Development Organization's menu mapping exercise)**
- V) **FIT-TIM Schedule/Agenda Review**
 - a. **FIT (12/2 – 12/3) - Refer to Appendix D**
 - b. **TIM (12/4) - Refer to Appendix E**
- VI) **Problem Reporting**
 - a. **TTRs**

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Appendix A

Test Platform Overview

NHDA Configuration

NHDA is a combined AWIPS WFO and RFC with localization for Sterling, Virginia (LWX). In most respects NHDA is configured as a WFO, but it has RFC databases and radars configured for MARFC (Mid-Atlantic RFC, State College, PA) to support testing by the Office of Hydrologic Development (OHD). In addition, NHDA has an RFC Archiver (RAX) to support OHD. NHDA does not have a REP rack. NHDA supports many external interfaces and data sources: CRS; NWWWS; Nexrad ORPG dedicated radar from KLWX, KCRI, KAKQ, KOUN; TDWR dedicated radar from TBWI; ARSR/ASR radars from FQWA and EERI; WAN OTR radars from dozens of sites; LDAD with support for RRS and ASOS; SBN data providing GOES imagery, NCEP model data, and Nexrad radar data from about 50 nexrad sites. NHDA is running AWIPS I and II concurrently. The AWIPS I software is OB9 beta 5 which runs on the baseline AWIPS I hardware. AWIPS II is TO9. The TO9 server-side runs as a standalone edex node ("edex1") and a dedicated postgres server ("edex3"); both the edex node and postgres server run on Dell 2950 servers. CAVE may be run from any workstation in which each user creates and runs from their own personal cave configuration in their home directory (see the attached file "README.TO9-cave.txt" for instructions on setting up your own personal cave on NHDA). TO9 edex is receiving a live SBN data feed for OAX and is ingesting grib, radar, satellite, bufrmos, goes/poes/model soundings, redbook, etc. CAVE is localized to the TO9 baseline OAX.

Configuring and Running CAVE on NHDA (TO9)

- 1) login to any lx or xt
- 2) set up your own personal CAVE (in your home directory). Execute the following on the lx or xt - /data/local/AWIPS2/setupCAVE.sh
- 3) Launch cave. cd to the new "cave" subdir in your home directory and launch cave from a terminal window on an lx or xt console - cd ~/cave ./cave.sh

NOTES:

- a) The setup script "setupCAVE.sh" needs to be run only once. After that, your personal cave should be functional on NHDA.
- b) You may run "setupCAVE.sh" as many times as you want. For example, if you think your personal cave is corrupt, try re-running the setupCAVE.sh script. It will rebuild your personal installation.
- c) It is recommended that you run one cave instance only per workstation. Running more than one may lead to problems and has not been thoroughly tested (and is not recommended by Raytheon).
- d) Running CAVE and an AWIPS I GUI app (D-2D, GFE, etc) at the same time on one workstation may result in poor workstation performance.
- e) The personal cave configuration was developed to support a multi-user environment. However, it is unofficial and not supported by Raytheon. If you are having problems on NHDA and believe it is due to the personal cave configuration, please let me know

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Appendix B
Internet/web/email access from NHDA

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Appendix C

T.O. 9 Support Documents

- **Tech Infusion (Test Page)**
 - <http://www.nws.noaa.gov/ost/SEC/AE/Testing.htm>

- **Product Matrix:** Identifies implementation T.O. for NWS product
 - [Product Matrix](#)

- **Model Ingests (new for T.O. 9)**
 - ruc80 model
 - nam12 model

- **Task Order Contents**
 - [TO9 Kickoff](#)

- **Test Plans and Procedures**
 - [TO9 Delivery Test plan](#)
 - [TO9 Delivery Test and Pre-Delivery test procedures/test cases](#)
 - [TO9 Delivery Test Report](#)

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Appendix D

**T.O. 9 FIT-TIM Schedule
12/02 – 12/03**

Day 1 (Tuesday, 12/02): FIT

Time	Test Event Description
8:15 – 9:15 AM	T.O. 9 FIT-TIM Kick-off Meeting – SSMC-2 Room 8246
9:30 AM - 12:00 PM	a. GFE Testing (Grid editing, etc) & Deviation Identification (via Side-by-Side Testing) b. WarnGen Life Cycle Testing c. AvnFPS Testing d. Adhoc Testing
12:00 – 1:00 PM	Lunch
1:00 – 4:15 PM	a. Bundle Development and Test b. Operational Scenario Development and Testing c. Additional Side-by-Side Testing
4:15 – 4:45 PM	Daily Test Review and Wrap-Up Meeting

Day 2 (Wednesday, 12/03): FIT

Time	Test Event Description
8:15 – 10:15 AM	Operational Test Case Development and Testing
10:15 – 10:30 AM	Break
10:30 – 11:30 AM	UFE Lessons Learned/Improvement Planning Discussion (Bob Rood – Lead)
11:30 – 12:00 AM	Performance Testing Discussion (Jim Calkins – Lead)
11:15 – 12:00 AM	Site
12:00 – 1:00 PM	Lunch
1:00 – 2:00 PM	Site Migration Planning Discussion (Ashley Kells/John Olsen - Lead)
2:00 – 2:15 PM	Break
2:15 – 4:45 PM	NCLADT Planning / Pre-TIM Government Workshop (John Olsen – Lead)

Day 3 (Thursday, 12/04): TIM

Time	Test Event Description
8:30 – 9:30 AM	Intro to Camel
9:30 – 9:45 AM	Break
9:45 – 10:30 AM	Nov 5 TIM Follow-up Discussion
10:30 AM – 12:00 PM	Responses to NCLADT generated talking points/questions
12:00 – 1:00 PM	Lunch
1:00 – 2:00 PM	NAWIPS transition
3:00 – 3:15 PM	Break
3:15 – 4:30 PM	Responses to NCLADT generated talking points/questions - Continued
4:30 – 5:00 PM	Hydro Issues and General Q&A

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Appendix E

AWIPS II On-Site TIM Agenda

12/04/08

8:30 AM – 5:00 PM ET

1. Intro to Camel
 - a. At the Nov 5 TIM we found out the Mule Enterprise Service Bus which sits at the core of the EDEX (Environmental Data EXchange) needed to be changed out. It will be replaced with the Open Source project Camel from Apache. How does it differ from Mule
2. Follow-up to Nov 5 TIM (smart tools, design of the subscription service that is to replace our current database triggers; GFE architecture - infrastructure needed to support SmartTools, SmartInits, and Procedures, etc.)
 - a. Responses to open action items
3. Responses to NCLADT generated talking points/questions (Refer to document titled, **“NCLADT generated TIM talking points/questions”**, dated 11/21/08)
4. NAWIPS transition
 - a. Interchange of knowledge between NCO and RTS on the NAWIPS transition.
 - b. High level design document for the transition of NAWIPS into the AWIPS-II architecture (refer document titled **“NAWIPS Migration High-Level Software Information Exchange and Design Document”**)
5. Hydro Issues
 - a. Response to open action items/issues from T.O. 10 Hydro TIM
 - b. Description of functions integrated into CAVE?
 - c. How should OHD specifically approach development of CAVE plug-ins and EDEX access for Hydro beyond generics if possible?
 - d. General Design Q&A including:
 - i. What capabilities will exist for direct interaction with the database?
 - ii. Will psql continue to be supported?
 - iii. Will there be a tool which provides the functionality of psql, allowing the user to directly query--and if necessary insert or update--tables in the database
6. General Q&A