

## Training Recommendation for Local Application Developer

March 20, 2008

Developers and local AWIPS System Administrators should do the following to obtain the initial knowledge and skills for local application migration and learning the AWIPS II development environment:

**Learn Javascript:** The AWIPS II scripting language will be javascript, and it will be with javascript that local app programmers will interact with the AWIPS II system. *Most local applications will likely be able to be ported using javascript.* Again, the National Core Local Application Development Team (NCLADT) will provide javascript snippets and other library functions to assist you by September 2008. Resources for javascript training may be found at:

[http://www.nwstc.noaa.gov/AWIPS/ADE/ADE\\_resources.html#js](http://www.nwstc.noaa.gov/AWIPS/ADE/ADE_resources.html#js)  
<http://www.nws.noaa.gov/ost/SEC/AE/Training.htm>  
<http://www.mozilla.org/rhino/>

Another good resource is the book, Javascript: “The Definitive Guide”, by David Flanagan. The Amazon purchase price is \$32.00. Concentrate on Part I, Core JavaScript. The AWIPS II javascript interpreter is rhino, so you need to practice with rhino. You can get rhino from [www.mozilla.org/rhino](http://www.mozilla.org/rhino).

**Learn Java:** This is for more complex local applications, and only needs to be learned by a select group. SR and WR have provided Java training. Contact your Regional AWIPS II focal point to enquire about access to this Java training.

**Download AWIPS II T.O. 8:** In April 2008, instructions will be sent out on setting up AWIPS II T.O. (Task Order) 8 on a stand alone box supplied by you. This will allow you to test the initial features of AWIPS II ( D2D, TextWS, Warngen, Database, Radar), begin learning the AWIPS II development environment (ADE), and learn various features to migrate your local applications to this new system.

Additional training support for local applications migration will come from four NWSTC modules due out from late April to late July 2008. These modules are:

1. Introduction to Service Orientated Architecture
2. Introduction to Eclipse in T.O. 8
3. Introduction to CAVE in T.O. 8
4. Javascript and Plug-Ins in T.O. 8

Gearing up an AWIPS II box at your office will allow you to test and learn other AWIPS II T.O.s as they are supplied by Raytheon in the future. The following is a listing of Task Order delivery features:

1. AWIPS II T.O. 9 due out in September/October 2008 will have IFPS and GFE.

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2. AWIPS II T.O. 10 due out in early 2009 will have RFC and WFO Hydrology.
3. AWIPS II T.O. 11 expected in summer 2009 will have Comms, LDAD, SCAN, FFMPA, and whatever else is left/needed. AWIPS II T.O. 11 is the black box AWIPS OB9 transition to AWIPS II that will be used in the national AWIPS II OT&E beginning in the fall of 2009.

### **DOs and DON'Ts:**

**DON'T:** Do **NOT** install the AWIPS II T.O. 8 or other T.O.s on the WES or your AWIPS I platform.

In regards to the WES, WDTB says their national support for the WES will be compromised if AWIPS II software is loaded on it, and they are tasked with coming up with an AWIPS II WES load six months before AWIPS II national deployment.

NWSHQ has tested AWIPS II T.O. 8 on an AWIPS I platform with undesirable results. There are too many unknowns at this time to risk operational system performance.

**DO: Download "Writing a MicroEngine Script", "MicroEngine Tasks" and "TO8 Master Document for AWIPSII" from**

<http://www.nws.noaa.gov/ost/SEC/AE/Training.htm>

The TO8 master document gives a high-level overview of the new system, and is a great introduction for newcomers. The uEngine ( *read as "microEngine"* ) documents talk in detail about javascript, and AWIPS II uEngine and its extensions.

For more information on AWIPS II, please see the AWIPS Evolution home page at:  
<http://www.weather.gov/ost/SEC/AE/index.htm>