

## **AWIPS II Topic of the Week -- Independent Verification and Validation (IV&V) Team**

All,

One of the most critical AWIPS II activities over the coming months will be making sure the software is properly tested and evaluated. The Independent Verification and Validation (IV&V) Team is focused on making sure that happens. The following is a brief status on some of their effort from the IV&V Lead, James "Jim" Calkins:

The IV&V Team is currently responsible for verifying the Test Trouble Reports (TTRs) and Discrepancy Reports (DRs) reported to be fixed with each Task Order (TO) delivery. The Team also creates and executes new test cases to address the test "gap" in the Master Deliverables Matrix (MDM). Since the current "gap" is nearly fifty percent (50%) of the total AWIPS functionality, this is no small task! The Team is currently creating test cases to address the most critical MDM "gaps". Lastly, the IV&V Team creates the TTRs for any defects found during the installation and testing of the software.

By the end of October, Raytheon will have migrated and delivered nearly all of the legacy AWIPS functionality in the AWIPS II environment. The IV&V will continue creating and executing "gap" test cases, as well as, verifying fixed TTRs and DRs. IV&V results will be a major factor in determining whether the AWIPS II software is ready for the Operational Test & Evaluation (OT&E) scheduled for March 2010.

Many thanks to the Systems Engineering Center (SEC) Analysis Branch for their contribution and special thanks to Jim for his input. In addition, Office of Science and Technology (OST) acknowledges and thanks members of SEC, GSD, MDL, OPS/SST, OHD, OCWWS/HSD and NCEP. Without their hard work over the past year and their efforts going forward, AWIPS II would never be ready for OT&E next spring.

As always, we welcome your feedback and collaboration. For more information about IV&V and software testing, please go online to the AWIPS Tech Infusion website (<http://www.nws.noaa.gov/ost/SEC/AE/Testing.htm>).

To join the mail list for these messages, please contact Fran Curnow at [Frances.Curnow@noaa.gov](mailto:Frances.Curnow@noaa.gov).

Regards,  
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