

AWIPS II Topic of the Week -- Testing

Testing the software Raytheon delivers is a major part of the work we, the government, need to do while Raytheon writes the code. We have identified four stages of testing: Delivery Testing, Independent Verification and Validation, User Functional Evaluations and finally Operational Test and Evaluation. Each phase of the testing has a different focus. Delivery tests focus on assessing the software against the Task Order requirements. The tests are witnessed with formal test procedures defined with each Task Order. After passing the Delivery Test, the software moves on to the Independent Verification and Validation (IV&V) and User Functional Evaluation (UFE). Both are detailed tests with the IV&V focusing on the development and follow-through of detailed test cases and the UFE focusing on the assessment of the software from a user's perspective. We execute this set of three test phases with each software delivery. Issues are tracked and prioritized by the Government and then sent on to Raytheon for resolution. The OT&E will be run after the final task order and will be the forum for assessing true deployment readiness. For more information about software testing see the AWIPS Evolution Web site at <http://www.nws.noaa.gov/ost/SEC/AE/index.htm>.

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