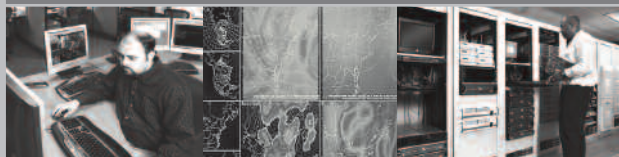


AWIPS 10-Year Forecast Innovation, Partnership, Responsibility



Key Features and Benefits

- Raytheon manages the operations, maintenance, and evolution of AWIPS, leading an experienced, reliable team that supports NOAA/NWS' efforts
- Our "Voice of the Forecaster" program allows forecasters to participate in AWIPS improvement initiatives.
- Raytheon's Service Level Management Process defines a life cycle of continuous improvement grounded in open communications. It ensures that we respond quickly to changes in NOAA/NWS' scientific, technology, and business goals for AWIPS.
- We provide hardware, software and communications services to the entire AWIPS network, including NWS Weather Forecast Offices, River Forecast Centers, Regional Headquarters, and National Centers dispersed across the U.S. and its territories.

The Advanced Weather Interactive Processing System (AWIPS) is used by the National Oceanic and Atmospheric Administration/National Weather Service (NOAA/NWS) to ingest, analyze, and disseminate operational weather data including time-sensitive, high-impact warnings. Since 2005, Raytheon has been NOAA's partner for the operations, maintenance and evolution of AWIPS, providing the integrated mission services required to sustain and enhance system performance.

AWIPS plays a critical role in the ability of U.S. forecasters to make weather predictions that can save lives and safeguard property. It's a complex network of systems that ingests, integrates and processes meteorological, hydrological, satellite, and radar data. Forecasters at more than 130 weather forecast offices and river forecast centers across the nation utilize the capabilities of AWIPS to make increasingly accurate weather, water, and climate predictions, and to rapidly dispense highly reliable warnings and advisories.

Raytheon

Customer Success Is Our Mission

AWIPS II: The Next-Generation Weather Forecasting System

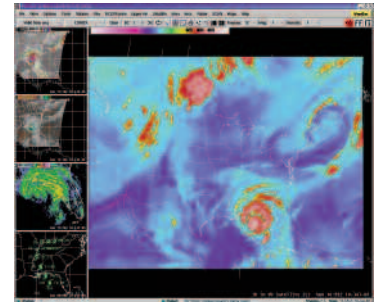
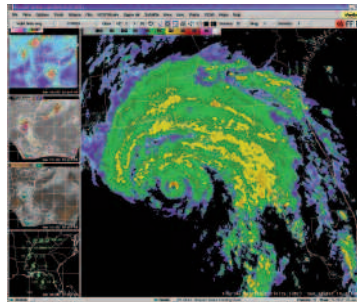
As the architect of the AWIPS evolution, Raytheon designed, developed, and is currently deploying the system's next-generation software to NWS forecast offices. AWIPS II brings advanced functionality to forecasters in the field. It also simplifies code and consequently strengthens system performance while reducing the maintenance burden. All of this is achieved while retaining a system look and feel that is familiar to the forecaster.

The AWIPS Software Re-Architecture Product Improvement Plan, authored by Raytheon and known as AWIPS II, was built on a Service Oriented Architecture. The AWIPS II structure also takes advantage of open source software. Key attributes include:

- Non-proprietary software which utilizes open source packages
- Scalable from laptop to servers
- High performance data services using advanced data serialization techniques to enable gaming style interaction with dynamic data updates

- Situational awareness and decision-making visualization that is very adaptable and can perform Geographical Information System (GIS) projections of all data very rapidly
- Visualization is customizable at the base/site/user level through XML files and scripts that give users a completely tailored view of the data and con-ops
- Warnings and reports done quickly through GIS interactions and automated text generation through template engine
- Plug-and-play adaptable to a variety of data types

As AWIPS II rolls out to more than 130 weather forecast offices and river forecast centers, Raytheon is working closely with the NWS program management office to keep the larger AWIPS community informed and aware of system advances. By using our AWIPS "Voice of the Forecaster" program, we are able to relay AWIPS II concepts and strategies, deliver technical briefings, and tap into the invaluable input and insights of forecasters in the field. We provide forums for sharing information, ideas and insights, we solicit feedback, and we encourage participation in software testing.



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