Raytheon’s service-oriented architecture for AWIPS – an environmental intelligence and geospatial visualization toolkit – has increased stability, extensibility and accessibility of weather, water, and climate data for the NWS.

AWIPS reduces the transition time from research to operations and total-cost of ownership for undifferentiated IT services by providing consistent, collaborative and agile development throughout the system’s development life cycle. This helps keep focus on the current and emerging mission requirements, driving toward a fully-integrated, common operational platform.

**AWIPS by the Numbers**

- **95%** Decrease in disruptive maintenance and critical SW restarts
- **100%** On-time program management deliverables without rework
- **100%** Availability of the MGS point-to-multipoint SBN that delivers weather, water and climate data to over 140 field offices
- **100%** Customer assessment rating for three consecutive award terms
- **61%** Reduction in number of manual steps required to perform operational SW upgrades
- **124M** PRODUCTS UPLINKED to the SBN in April 2016
- **48,551** SLOC in BMH
- **138** CRITICAL/HIGH PRODUCT BACKLOG ITEMS resolved due to agile process that allows for more fixes in less time
- **3 OPERATIONAL RELEASES** RAYTHEON SDLC
- **1 OPERATIONAL RELEASE** LEGACY SDLC
- **469 RESOLVED DRs** ANALOGOUS 6 MONTHS
- **82 RESOLVED DRs**

**Additional Key AWIPS Accomplishments**

Findings from initial vulnerability code scan results returned extremely low number of critical and high findings for code base size. All have been remediated.

**TERMS**

- BMH – Broadcast Message Handler
- DR – Discrepancy Report
- IT – Information Technology
- MGS – Master Ground Station
- NWS – National Weather Service
- OTE – Operational Test and Evaluation
- SBN – Satellite Broadcast Network
- SDLC – Systems Development Life Cycle
- SLOC – Software Lines Of Code
- SW – Software

All statistics recorded in the most recent 6 month award term