

## Advanced Weather Interactive Processing System

Raytheon's service-oriented architecture for AWIPS – an environmental intelligence and geospatial visualization toolkit – has increased stability, extendibility 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%**

Customer assessment rating for three consecutive award terms

**124M**

**PRODUCTS UPLINKED**  
to the SBN in April 2016

**100%**

On-time program management deliverables without rework



**61%**

Reduction in number of manual steps required to perform operational SW upgrades

**48,551**

**SLOC in BMH**

BMH, which integrates the previously external critical weather radio functionality into the common AWIPS baseline and architecture, successfully completed OTE in January 2016



**100%**

Availability of the MGS point-to-multipoint SBN that delivers weather, water and climate data to over 140 field offices

RAYTHEON SDLC	LEGACY SDLC
3 OPERATIONAL RELEASES	1
469 RESOLVED DRs	82
ANALOGOUS 6 MONTHS	

**138**

**CRITICAL/HIGH PRODUCT BACKLOG ITEMS** resolved due to agile process that allows for more fixes in less time

### 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