



AWIPS II Update

Unidata Policy Committee Meeting

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Agenda



- AWIPS II Status
- AWIPS II Software Distribution
- AWIPS II Extended
- Questions/Answers



AWIPS II Status



- System OT&E
 - Goal: Provide high quality software (field ready) for Field phase of OT&E (e.g., WFOs, RFCs, CWSUs, National Centers)
 - Focus Areas: Functionality; Stability; Performance
 - Where, we stand...
 - Most functionality available
 - Much improved stability
 - Performance testing pending H/W architecture completion
 - Significant number of Discrepancy Reports (DRs) to be resolved
 - Schedule
 - Begin Date: May 11, 2010
 - Length undetermined
 - Extensive effort underway to determine realistic schedule
 - Ultimately, event driven
- Impact on NAWIPS Migration
 - No anticipated delay to NAWIPS Migration schedule
 - OST and NCO continue to monitor and work closely together to fully analyze and address any potential impacts



AWIPS II Software Distribution



- AWIPS II release to customers and partners
 - Preliminary version of AWIPS II: September, 2010
 - Intermediate version: January, 2011
 - Earlier versions could be made available upon request
- Packaging of “Open Source” Release
 - Contractor has made it possible to remove access to proprietary data (e.g., lightning, ECWMF, etc.)
 - Contractor removed “Copyright” markings



AWIPS Extended Projects



Weather Event Simulator (WES)



- Objective: Develop enterprise solution to support NWS training requirements
 - Phase I: Provide bridge for current WES capability into AWIPS II. Also serves as a pathfinder for Phase II
 - Phase II: Develop integrated solution for AWIPS enterprise
- Key Benefits
 - Provides robust, sustainable baseline solution to support NWS training requirements
 - Allows training users to have access to latest built set of AWIPS capabilities
 - Provides training solution for all AWIPS applications
- Stakeholders: WFOs, RFCs, NCEP Centers
- Status and Deliverables
 - Phase I
 - Develop WES Bridge: In progress - Release to support FOTE - 8/10
 - Phase II
 - Updating IWT with WES2 Bridge prototyping plans (2Q10) and preparing for Gate 3 (3Q10)
 - Data Pump RTS Task Order Planned for Post TO11
 - Deployment Target – 4Q12



AWIPS II Thin Client



- Objective: Develop enterprise solution for remote access to AWIPS capabilities
- Key Benefits
 - Incorporate FX-Net capabilities into baseline
 - Provides common solution to support Incident Meteorologists, e.g., Fire Wx, Weather Service Offices, etc. remote access requirements
 - Allows remote users to have access to latest set of AWIPS capabilities
 - Provides partial solution for COOP scenarios at NCs
 - In combination with Data Delivery Project, enables future capabilities for cloud computing paradigm
- Stakeholders: NWS Incident Meteorologists, NCEP Centers, River Forecast Centers (RFCs), Weather Service Offices (WSOs), CWSUs
- Status and Deliverables
 - Prototyping and Technical Requirements Development: In Progress - 2QFY10
 - System Analysis and Preliminary Design: In Progress - 3QFY10
 - Production Design and Development: 3QFY10-2QFY11
 - Integration Test: 3QFY11
 - Deployment: 1QFY12



Data Delivery



- Objective: Develop operational robust infrastructure to support “intelligent” access to non-local datasets
 - User defined sub-setting by space, time, and parameter
 - Subscription or Ad-hoc access methods based on weather events
- Key Benefits
 - Mitigates impacts on SBN by addressing significant growth in data volumes, e.g., ensembles, GOES-R, NPOESS
 - Enables effective on-demand access to Weather Information Database
 - Allows users to access just the data they need by space, time, parameter
 - Enables synergy and interoperability with NextGen technologies, e.g., data discovery services, data access services and data providers.
- Stakeholders: NWS enterprise, NextGen, external data partners
- Status and Deliverables
 - ConOPS and Use Case Development: In Progress - 3QFY10
 - IT Architecture Document: In Progress - 3QFY10
 - High Level IT Design Document: 1QFY11
 - IOC Technical Requirements: 2QFY11
 - IOC (Access to MADIS and NOMADS): 4Q12



Collaboration



- Objective: Develop capabilities to support real-time collaboration
 - Phase I: Develop/Enhance internal NWS collaboration capabilities
 - Phase II: Develop/Enhance IOC collaboration capabilities with external partners
 - Phase III: Improve collaboration capabilities with external partners
- Key Benefits
 - Enables more effective collaboration across all levels of NWS promoting a more coordinated and seamless set of products and services – fosters consistency
 - Enables interoperability between NWS and trusted partners, e.g., emergency managers to support Decision Support Services
 - Opportunity for synergy with RENCI and AES collaboration projects
- Stakeholders: NWS enterprise, external data partners
- Status and Deliverables
 - ConOPS, Use Case Development: In Progress - 3QFY10
 - Technical Requirements Development and Prototypes Phase I: - 2QFY11
 - Phase I Deployment Target: 2QFY12



Questions?