AWIPS II Update
Unidata Policy Committee Meeting

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April 15, 2010

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

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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?

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