



National Weather Service

Developing a Governance Roadmap for AWIPS II

March 25, 2008 (Final)
Systems Engineering Center



Goals for this Meeting



- Review and agree to Vision Team membership and structure
- Review and discuss Initial Roadmap
 - *Draft prepared by Ed Mandel based on February 12, 2008 meeting*
- Agree to Road Map
- Implement Roadmap
- Establish pilot teams to focus on key areas



Establish Governance Vision Team



- **Possible structure**
 - **Team Lead**
 - *Ed Mandel (OST/SEC)*
 - **NWS/OST/SEC**
 - *Edwin Welles*
 - *Ronla Henry*
 - **Raytheon**
 - *Doug Lawson*
 - *Randy Ashby*



Initial Road Map



- **Establish Governance Vision Team**
- **Define Goals and Objectives**
- **Define Sponsors and Stakeholders**
- **Define Existing governance**
- **Define governance topics (finalize definition)**
- **Identify Pilot sub-teams for key topics**
- **For each pilot sub team**
 - ***Define responsibilities of each group***
 - *Determine controls (e.g., policy, directives), standards, monitoring and enforcement methods, and tools*
 - *Maintain risk analysis*
 - ***Define members and roles***
 - ***Define deliverables and success criteria***
 - *A set of reviewed and approved controls (e.g., policy, directives), standards, monitoring and enforcement methods, and tools*
 - ***Sized to fit the need***
 - ***Develop a schedule***
 - ***Establish regular status briefings to Governance Vision Team***



Initial Road Map



- Kick off Pilot sub teams
- Evaluate pilot sub team and determine lessons learned
- For each remaining sub team
 - **Define responsibilities of each group**
 - Determine controls (e.g., policy directives), standards, monitoring and enforcement methods, and tools
 - Maintain risk analysis
 - **Define members and roles**
 - **Define deliverables and success criteria**
 - A set of reviewed and approved controls (e.g., policy, directives), standards, monitoring and enforcement methods, and tools
 - **Sized to fit the need**
 - **Develop a schedule**
 - **Establish regular status briefings to Governance Vision Team**
- Kickoff remaining sub-teams
- Review sub-team deliverables
 - **Test deliverables against real life experieinces (e.g., add new data)**
- Develop signoff procedures for policies **and controls**, standards and guidelines that are produced from this effort
- Establish Web-based repository for all documents



Strategic Goals



- Maintain the integrity **and improve** maintainability of current baseline so that it can meet the operational needs of the field
- Provide quality products with confidence
- Provide an atmosphere for quicker **controlled** deployments
- Provide flexibility for developers to do creative work
- Provide atmosphere to foster collaboration



Project Objectives



- Meet the strategic goals by agreeing to specific set measurable policies **and controls**, standards and best practices methodologies that document the AWIPS decision making process



Stakeholders



- **Project Sponsor**
 - *Chuck Piercy – OST*
 - *Buddy Ritchie – Raytheon*
- **Key Stakeholders (affected by the Governance decisions)**
 - *Raytheon AWIPS II Development Team*
 - *Raytheon O&M Team*
 - *Corporate Board*
 - *OST/PPB (OSIP)*
 - *OST/SEC (All branches)*
 - *OPS*
 - *OCWWS*
 - *Regions (ER,CR,WR,CR,AR, PR)*
 - *Development Organizations (MDL, OHD, GSD)*
 - *Field and Local Developers*
 - *National Centers*
 - *Data Providers (NCEP, NESDIS)*



Stakeholders



- **Other non-NWS stakeholders (indirectly affected by the Governance decisions)**
 - *Universities (collaborative research and development)*
 - **UCAR, NCAR, FAA, NASA**
 - **Weather Channel, Accuweather**
- **Maintain connection to Stakeholders**
 - *Report governance status to the AWIPS Evolution Leadership Council (AELC) on a monthly basis*
 - *Include in appropriate sub-teams*



Existing Governance



- **Separate spreadsheet with**
 - *Area, Decision, Method, Responsible Organization, Documentation, and Tools*
 - *Government has an action to collect existing governance documents by March 31, 2008*
 - *Governance Vision Team should review and provide comments by April 14, 2008*
- **Covers areas.....**

	Hardware & Network	Baseline Software	Local Software
Requirements Definition	YES	YES	YES
Development Paradigm	TBD	YES	YES
Release Process	YES	YES	YES
Installation	YES	YES	YES
System Standards	YES	YES	YES



Possible AWIP II Governance Topics



- *Based on existing AWIPS I governance, and common ground between Raytheon and Governments February 12, 2008 briefing slides*

Topics	Hardware		Software	
	Baseline	Local	Baseline	Local
Requirements Definition	YES	YES	YES	YES
Development paradigm	TBD	TBD	YES	YES
Release process	YES	n/a	YES	YES
Installation	YES	n/a	YES	YES
System Standards	YES	YES	YES	YES

- *A draft list of decisions for each of the areas is available in second set of slides*



Governance Watch Areas



- **Maintain awareness within each Governance topic**
 - *Configuration Management*
 - *Support*
 - *Software Licensing*
 - *Security*



Governance Definition

(Summary)



- **Governance is the specific set measurable policies and controls, standards and best practices methodologies that document the AWIPS decision making process in the areas of Requirement definition, Development paradigm, Release, Installation, and System Standards and accomplish the strategic governance goals.**



Proposed Pilot Sub-Teams



- **Software - Local Applications**
 - *Requirements, Development, Release, Install, and System*
 - *Needed for beginning of local applications development (June 30, 2008)*
 - **Key driver is system standards**
- **Software – Baseline**
 - *Requirements*
 - *Concern expressed from Raytheon AWIPS II staff*
 - *Need to initiate AWIPS II SREC for post AWIPS II deployment releases*
- **Software – Baseline**
 - *Release Process (Post AWIPS II deployment)*
 - *Key driver necessary to complete other areas under Software Baseline Applications*



Pilot Sub Teams Leads and Members



- **Software Local Applications**
 - *Requirements, Development, Release, Install, and System*
 - *Lead – Thuy Tran (OST/SEC)*
 - *Members*
 - Raytheon - Doug Lawson, Karen Tepera, **Sean Webb**
 - Government - **Jay Morris (OPS), Local Applications Regional Representatives (ER, CR, SR, WR, AR, PR)**
 - *Schedule*
 - Set up a kickoff meeting for April 8, 2008



Pilot Sub Teams Leads and Members



- **Software Baseline Applications**
 - *Requirements*
 - *Lead – TBD (Government)*
 - *Members*
 - **Raytheon - TBD**
 - **Government – TBD**
 - *Schedule*
 - **TBD – third in priority of pilot tasks**



Pilot Sub Teams Leads and Members



- **Software Baseline Applications**
 - **Release Process**
 - *Lead* – **TBD (Raytheon)**
 - *Members*
 - Raytheon - **TBD**
 - Government – **TBD**
 - *Schedule*
 - **TBD – second in priority of pilot tasks**



Closed Action Items



- 1. Identify team members for Governance Vision team (Welles, Ashby – 3/7)**
- 2. Identify team members for the Local Applications team (Welles, Ashby – 3/7)**



Open Action Items



- 1. Collect existing governance documents (Mandel – 3/31)**
- 2. Provide existing coding standards used by Omaha staff (Raytheon – 3/31)**



New Action Items



- 1. Complete Roadmap (Mandel – 3/28)**
- 2. Does hardware have a Development Paradigm aspect (Mandel – 4/1)**
- 3. Review Local Application Decisions (4/1)**
- 4. Provide team members to Release Pilot team (4/8)**
- 5. Review Current Governance spreadsheet and provide comments (Governance Team - 4/15)**
- 6. Provide team members to Requirement Pilot team (4/15)**



Next Meeting



- April 1, 2008
- 1:00pm Room 14246
- Topics
 - **Local Applications Pilot Team**
 - *Define responsibilities of each group*
 - **Determine controls (e.g., policy directives), standards, monitoring and enforcement methods, and tools**
 - **Maintain risk analysis**
 - *Define members and roles*
 - *Define deliverables and success criteria*
 - **A set of reviewed and approved controls (e.g., policy, directives), standards, monitoring and enforcement methods, and tools**
 - **Properly sized - not too much detail**
 - *Develop a schedule*
 - *Establish regular status briefings to Governance Vision Team*