

Air Traffic Organization

SWIM Program Update/Status

Presented to: Tech America

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**Federal Aviation
Administration**



SWIM

FY2008 Accomplishments

- Awarded Service Container software contract ahead of schedule
- Incorporated Communities of Interest requirements into SWIM Segment 1 Final Program Requirements Document
- Developed SWIM Service Specification Document and Registry Interface Requirements Document
- Initiated JRC preparation for Segment 1 FY 11-13
(Planned for Summer 2009)
- Developed Program Level Agreements for FY09-10 with SWIM Implementing Programs (ERAM, TFM, TDDS, AIM, WMSCR, ITWS, CIWS)
- Began Segment 2 definition



SWIM

FY2009 Preview

- Train SWIM Implementing Programs on Service Container software
- SWIM Implementing Programs begin requirements analysis and design
- Continue JRC preparation for Segment 1B (FY 11-13)
- Conduct JRC FID for Segment 1B (FY11-13) by 4Q FY09
- Finalize Segment 2 definition
- Initiate Segment 2 JRC preparation



SWIM Prototype

- The ITWS-SWIM Prototype was developed as a proof of concept
 - Evaluate a service container product provided by IONA Fuse
 - Deploy the prototype service to interested non-FAA consumers to evaluate web services and XML formats, and overall products' usability
 - Publishing four ITWS weather products
 - Microbursts; Gust Fronts; Configured Alerts; Terminal Text
 - Only two products scheduled initially
- ITWS-SWIM Prototype operational Sept 30, 2008; will run until ITWS-SWIM Segment One capability is deployed in December 2010



SWIM Prototype

- Agreement reached and documented with ITWS to maintain the Prototype through FY10
 - No enhancements after initial deployment are currently funded or planned
- Volpe will provide client software and a user guide to service consumers
- More service consumers may be added until the current allocated bandwidth limit for the prototype is reached
- Similar Prototyping activity underway with CIWS



SWIM Segment 2: Plans

- Determine Operational Improvements to be supported in FY12-16
 - Input from NextGen I&I, NAS EA, JPDO, users
- Determine how the Segment 1 Architecture must evolve to meet these requirements
 - Ex. Segment 1 federated approach vs. possible future centralized approach
- Work with International Partners to Ensure Harmonization
- Segment 2 Initial Definition 2QFY09 –Operational Services Environment Definition (OSED)
 - Draft Released 3 March 2009
 - Final Release Mid April 2009
- Segment 2 Final Program Requirements by August 2009
- Determine technical requirements needed to meet these operational requirements
 - JRC Preparation begins Summer 2009 to support Summer 2010 Final Investment Decision



Latest Developments - TDDS

- Terminal Data Distribution System (TDDS) Contract awarded to Raytheon
- Contract Managed through Volpe Center



Latest Developments – XML Gateway

- Qualified Vendors List for XML Gateway announced
- 3 Qualified Vendors
 - Layer 7 Technologies
 - Cisco Systems
 - Vordel Inc
- QVL established for 6 years



Latest Developments – ITWS Prototype

- Coordination with USAF Electronics Support Center, Hanscom AFB, MA
- Investigation of Sharing ITWS data with AF METOC
- AF connectivity via VPN and ED-8 Gateway



SWIM
Web Site

www.swim.gov

