

UPDATE TO THE METROPOLITAN WASHINGTON AREA ITS ARCHITECTURE (MWRITSA)

Status Report

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Systems Performance, Operations, and Technology Subcommittee
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Summary

- *The last update for Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA) is dated on 12/31/2007.*
- *Staff has conducted initial meetings for the update with District Department of Transportation (DDOT) and Maryland Department of Transportation State Highway Administration (MDOT/SHA).*
- *Staff has communicated with Virginia Department of Transportation (VDOT) for the update.*
- *Staff has received the most recent updates of ITS Architecture from three states*



MWRITSA

- Is a framework for describing and developing integrated transportation systems technology;
- Is intended,
 - to provide a regional ITS framework for the foreseeable future,
 - to define and validate ITS operations of regional significance, and
 - to address national and statewide conformity in accordance with federal law and guidance
- Aims to ensure knowledge of ITS operations across the region, encouraging appropriate systems integration and enhanced technical systems interoperability.
- Is based upon the structure of the official U.S. Department of Transportation's National ITS Architecture



Regulation

- The FHWA rule and FTA policy on Intelligent Transportation Systems (ITS) Architecture and Standards, issued on January 8, 2001.
 - for implementing section 5206(e) of the Transportation Equity Act for the 21st Century (TEA-21).
 - lead to accelerated deployment of integrated Intelligent Transportation Systems
 - require that all ITS projects funded from the Highway Trust Fund (which includes transit projects funded from the Mass Transit Account) be in conformance with the National ITS Architecture and appropriate standards.
 - require that the National ITS Architecture be used to develop a local implementation, or a “regional ITS architecture.”



The Six-step Process

Step 1: Get Started

- Architecture Scope
- Stakeholder Identification

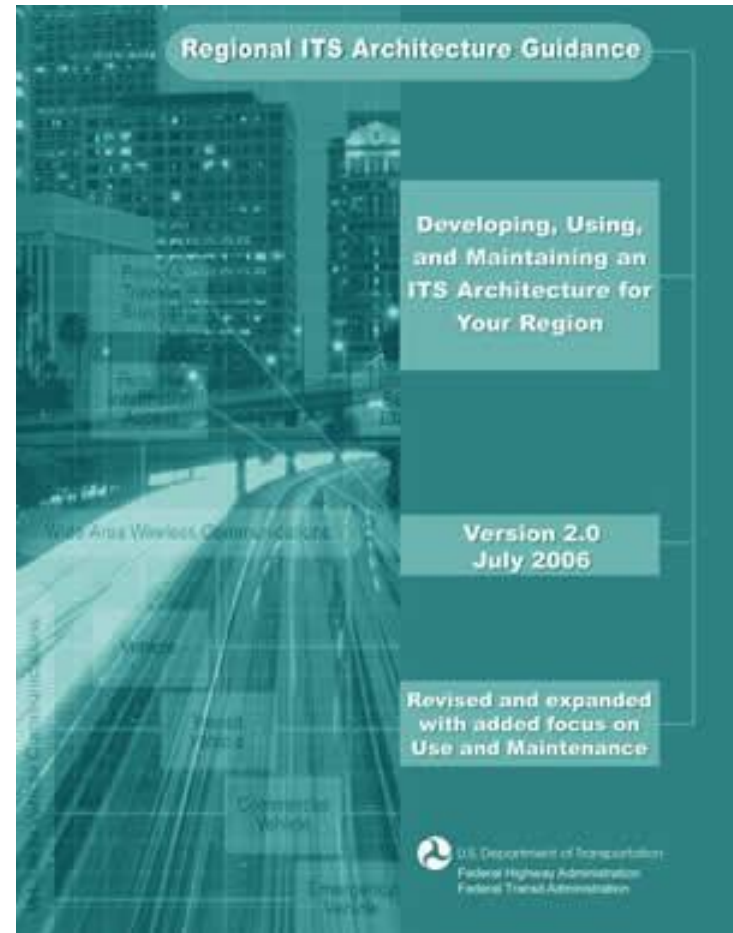
Step 2: Gather Data

- System Inventory
- Needs and Services
- Operational Concept
- Functional Requirements

Step 3: Define Interfaces

- Interfaces/Flows

Step 4: Implementation



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MWRITSA

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MWRITSA History

The Metropolitan Washington Regional Intelligent Transportation Systems Architecture (MWRITSA) is a framework for describing and developing integrated transportation systems technology. The Regional Architecture is intended to provide a regional ITS framework for the foreseeable future, to define and validate ITS operations of regional significance, and to address national and statewide conformity in accordance with federal law and

- Last update for MWRITSA is 12/31/2007
- Available at <http://www1.mwcog.org/itsarch/>

appropriate systems integration and enhanced on technology systems, the MWRITSA can business cases for state and federal ITS MWRITSA is based upon the structure of the 31/2007.

coordination among transportation and public safety organizations in the region that provide transportation services. Information exchanged among transportation and public safety organizations must be timely, accurate, useful, and consistent to enable these organizations to fulfill their functions. As demand for related services increases and organizational responsibilities increase, existing systems owned and operated by these organizations will require enhancements. Transportation and communications technology is growing exponentially, providing multiple solutions to real or perceived system deficiencies.

Majority of this web site was generated directly from a Turbo Architecture database which defines the architecture for the Metropolitan Washington region; The [source database](#) in Microsoft Access format is also available for download.

Regional Framework

Metropolitan Washington Regional ITS Architecture Framework



Progress Been Made

- Initiated collaboration with District Department of Transportation (DDOT), Maryland Department of Transportation State Highway Administration (MDOT/SHA), and Virginia Department of Transportation (VDOT) for the update.
- Materials received
 - VDOT
 - Lists of elements
 - MDOT/SHA
 - 2016 Maryland Statewide ITS Architecture and the other three documents.
 - DDOT
 - 2012 DDOT ITS Master Plan and the CAPITAL TRAFFIC OPERATION PLATFORM.



Next Steps

- Attend the FHWA/MDOT/ITS Maryland ITS Architecture Use Workshop on October 22nd and 23rd.
- Publish the draft of updated MWRITSA on the COG's website for review
- Gather information of ITS architecture from the other stakeholders, including WMATA and local agencies.
- Discuss the draft of updated MWRITSA with stakeholders



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