



Appendix A: Architecture Maintenance

The Miami Valley Regional ITS Architecture should be modified as plans and priorities change, ITS projects are implemented, and the ITS needs and services evolve in the region. The Miami Valley ITS Architecture was developed with a 20 year time horizon. As the architecture is updated, it will be extended further into the future. The goal of maintaining the architecture is to keep an up-to-date regional ITS architecture that is accessible and easily used for deploying ITS in the Miami Valley region.

The key aspects of the maintenance process, which are defined in this section, are:

- Who is responsible for architecture maintenance?
- What has to be maintained?
- When will the architecture be updated (how often)?
- What is the process by which the architecture will be modified/changed?

A.1 Responsibility for Architecture Maintenance

Miami Valley Regional Planning Commission will be the keeper of the Regional Architecture. However, just as the regional ITS Stakeholders were key to the development of the Miami Valley Architecture, it is imperative that these Stakeholders stay involved in the on-going maintenance. Once the regional architecture has been completed, an Architecture Maintenance Team will be developed that is made up of the same stakeholders who developed the architecture. This Maintenance Team will assist MVRPC in modification and maintenance of the Architecture.

A.2 Elements to be maintained

The Miami Valley Regional ITS Architecture is stored in Microsoft Access databases and is represented through a set of outputs including reports and diagrams. The architecture will primarily be maintained through updates in the electronic database using Turbo Architecture™. The following information should be maintained in the TurboArchitecture™ databases:

- Description of the Region
- List of Stakeholders, including key contact information
- Inventory of existing and planned ITS systems in the region
- Documented regional needs and ITS services associated with supporting systems in the region (Market Packages)
- Existing and planned interconnects and information flows for the region.

Additionally, the Miami Valley regional ITS architecture contains several other elements that should be updated:

- Project Sequencing
- Operational Concept
- Functional Requirements
- List of Agency Agreements

A.3 Maintenance Schedule

A comprehensive architecture update will be completed every three years, concurrent with the update of the Regional Transportation Plan. The comprehensive update would



include involving new Stakeholders, reviewing services planned for the area, and other items, as appropriate.

A.4 Maintenance Process

As part of the update process every three years, Stakeholders will be solicited by MVRPC for proposed changes in writing to the Maintenance Team. A draft of the form they will use is presented in Figure A.1. Proposals should clearly define the architecture aspects to be added, deleted, or revised. The reasons for proposed modifications should be given. Each proposal should include contact information for the person proposing the change so he or she can be contacted if questions arise.

Each proposed modification will be reviewed and considered by the Maintenance Team during workshops sponsored by MVRPC during the update process. Each proposed modification will be discussed and consensus reached onto how to best integrate it into the Architecture.

Once the regional architecture has been modified, the Stakeholders in the region will be notified by MVRPC.

There are many actions that may cause a need to update the architecture below is a short list of the types of changes anticipated.

Changes for Project Definition. When actually defined, a project may add, subtract or modify elements, interfaces, or information flows of the regional ITS architecture. Because the architecture is meant to describe not only ITS planned for the region, but also the current ITS implementations, it should be updated to correctly reflect the deployed projects.

Multiple Agency Stakeholders. There are several generic Stakeholders in the Architecture. These generic Stakeholders group multiple Stakeholders from the region. As it becomes necessary to separately identify Stakeholders that are currently covered by these generic Stakeholders terms, the descriptions of these Stakeholders will be added to the Architecture. As their respective elements plan and deploy ITS systems, they should be added as separate elements and Stakeholders in the architecture.

Changes for Project Addition/Deletion. Occasionally a project will be added, deleted or modified during the planning process. When this occurs, the aspects of the regional ITS architecture associated with the project have to be added, deleted or modified.

Changes in Project Status. As projects are deployed, the status of the architecture elements, services and flows that are part of the project will have to be changed from planned to existing. Elements, services and flows will be considered to exist when they are substantially complete in that they have been turned on, tested and are currently being used.

Changes in Project Priority. Due to funding constraints, technological changes or other considerations, a project planned in the region may be delayed or accelerated. Such changes will need to be reflected in the Miami Valley ITS Architecture.



Change Title:		Origination:	
Description of Suggested Change:			
Rationale for Change:			
Originator:			
Originator	Telephone:		
	email:		
<i>To be filled out by Maintaining Organization</i>			
Change Disposition (circle one)	Accept	Reject	Defer
Affected Elements:			
Disposition Comment:			
Disposition Date:			

Figure A.1 Draft Architecture Update Form