As a continuing effort to keep the Wisconsin ITS Architecture up to date, the Turbo architecture files were updated to the most current version of Turbo 7.0. Turbo 7.0 updated the files to version 7.0.0 of National ITS Architecture’s Physical Architecture, Service (Market) Packages, and Standards Development Organization (SDO) MAP. The previous versions being used in Turbo 5.0 were Physical Architecture v. 6.1.8, Market Packages v. 6.1.6, and SDOMAP v. 6.1.6.

In 45 instances, Turbo 7.0 affected the functional requirements of elements in the Wisconsin ITS Architecture. Each of these changes fall into one of three categories: edited, renumbered, and replaced. Below are the functional requirements that were changed within the regional architecture. Many of these were listed for multiple elements but are only listed once.

Edited:  
Roadway Equipment Coordination  
Roadway Signal Controls  
TMC Signal Control  
MCV Vehicle System Monitoring and Diagnostics  
Personal Interactive Information Reception  
CV Information Exchange  
Collect Traffic Surveillance  
TMC Incident Detection

Renumbered:  
Emergency Routing

Replaced:  
TMC Freeway Management ➔ TMC Traffic Metering  
TMC Speed Monitoring ➔ TMC Speed Monitoring and Warning  
Traffic Maintenance ➔ Traffic Equipment Maintenance  
Roadway Freeway Control ➔ Roadway Traffic Metering

There was a single change to element mapping and that was the removal of the word “subsystem” from names of the subsystems. For example, “roadway subsystem” is now simply named “roadway” under the class of subsystems.

Architecture flows contained many changes but only two that were used in the Wisconsin Statewide Architecture are discontinued. The discontinued flows of “driver log request” and “on-board safety request” are both from WisDOT_DSP_SE Region_Waukesha_SWEF element to x-Commercial Vehicle. Besides the discontinued flows, there are also a variety of other changes to the architecture flows including new and replaced flows which are listed below for the Wisconsin ITS Architecture.
New: signal control status → signal fault data

Replaced: Freeway control data → traffic metering control
          Freeway control status → traffic metering status
          Incident information for media → traffic information for media
          ISP coordination → emergency traveler information
          ISP coordination → incident information
          ISP coordination → multimodal information
          ISP coordination → parking information
          ISP coordination → road network conditions
          ISP coordination → traffic images
          ISP coordination → transit service information
          Request for right-of-way → right-of-way request notification
          Road network conditions → traffic information for media
          Signal control data → signal control commands
          Signal control data → signal control device configuration
          Signal control data → signal control plans
          Signal control data → signal system configuration
          Traffic control coordination → device control request
          Traffic control coordination → device data
          Traffic control coordination → device status
          Traffic information coordination → emergency traffic coordination
          Traffic information coordination → incident information
          Traffic information coordination → road network conditions
          Traffic information coordination → traffic images
          Yellow pages information → travel services information
          Yellow pages request → travel services request

Discontinued: driver log request
               on-board safety request

The full statewide architecture is available at http://www.topslab.wisc.edu/its/architecture/. Feedback, comments, and questions should be directed to architecture@topslab.wisc.edu.