

Defining the Regional Subsystems

The following briefly describe subsystem elements used in the Springfield region and their role. The subsystems are broken down by Center, Field, Travelers, and Vehicle.

Center Subsystems

Traffic Management

The Traffic Management subsystem operates within a traffic management center or other fixed location and generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Communicates with the roadway field equipment to monitor and manage traffic flow.*
- *Communicates with other Traffic Management centers to coordinate traffic information*
- *Detects and verifies incidents and incident information*
- *Provides incident information to Emergency Management, travelers, and other third parties*

Regional “Traffic Management” centers include:

- (ADD STAKEHOLDERS HERE)

Emergency Management

The Emergency Management subsystem operates in various emergency centers including fixed and mobile sites. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Supports public safety agencies, including police, fire, EMS, and HAZMAT response*
- *Supports incident management, disaster response and evacuation operations*
- *Manages sensor and surveillance equipment used to enhance transportation security*
- *Tracks and manages emergency vehicle fleets*
- *Coordinates activities with Traffic Management centers*

Regional “Emergency Management” centers include:

- (ADD Stakeholders Here)

Information Service Provider

This subsystem collects, processes, stores, and disseminates transportation information to system operators and the traveling public. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Collects traffic information from varied sources and redistributes to other service providers*
- *Delivers traveler information to subscribers and the public at large*
- *Provides basic advisories, near real time traffic condition, transit schedule, event information etc.*

Regional “Information Service Provider” centers include:

- (ADD Stakeholders Here)

Transit Management

Transit Management subsystem manages transit vehicle fleets and coordinates with other modes and transportation services. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Provides operations, maintenance, customer information, planning functions*
- *Provides dispatch and multi-modal management operations*
- *Supports fixed route, flexible route, and paratransit services*
- *Shares information with emergency response services and traffic management systems*
- *Tracks and manages vehicle fleets*

Regional “Transit Management” centers include:

- (ADD Stakeholders Here)

Maintenance and Construction Management

The subsystem represents both public and private contractors that manage activities associated with vehicle fleets, construction, maintenance, and general infrastructure support. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Manages fleets of maintenance, construction, or special service vehicles*
- *Participates in incident response, deploying maintenance and construction resources*
- *Manages field devices that monitor weather, environment, and surface conditions*
- *Monitors*
- *Manages work zones, provides alerts on pending closures or hazardous conditions*
- *Coordinates activities with Traffic, Emergency Management, and Information Service Providers*

Regional “Maintenance and Construction Management” centers include:

- (ADD Stakeholders Here)

Archived Data Management

Subsystem typically in a fixed and secure location that provides resources to collect, archive, distribute, and perform analysis on a variety of traffic related data sources. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Collects traffic data from varied sources within the region*
- *Perform as a general data clearinghouse of those with data requests*
- *Provide input into transportation administration, policy evaluation, safety, and planning*
- *Coordinate with Emergency, Traffic, Transit, Maintenance and Construction Management agencies*

Regional “Achieved Data Management” centers include:

- (ADD Stakeholders Here)

Commercial Vehicle Administration

Commercial Vehicle Administration Subsystem will operate at one or more fixed locations within a region. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Supports credentials checking, tax, and enforcing safety regulations*
- *Handles permitting for special oversize/overweight and HAZMAT operations*
- *Manages roadside field devices that interact with motor carriers*
- *Coordinates activities with Emergency Management agencies*

Regional “Commercial Vehicle Administration” centers include:

- (ADD Stakeholders Here)

Traveler Subsystems

Remote Traveler Support

This subsystem provides access to traveler information at fixed or mobile locations. Generally performs the following roles:

(ADD OR REMOVE STATEMENTS AS THEY APPLY TO YOUR REGION)

- *Supports traveler access points that display traffic data in the form of travel times, maintenance and construction alerts, transit information and points of interest.*

Regional “Remote Traveler Support” systems include:

- (ADD Stakeholders Here)

Regional Market Packages

Previously Defined Market Packages

The market packages below are those currently identified as part of the Springfield region. Please consult the National ITS Architecture for any additional market packages you may want to add to your region based on needs, goals, and feedback collected from stakeholders.

National ITS Architecture Website:

<http://www.iteris.com/itsarch/html/mp/mpindex.htm>

Achieved Data Management

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- AD2 ITS Data Warehouse

Public Transportation

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- APTS01 Transit Vehicle Tracking
- APTS02 Transit Fixed-Route Operations
- APTS03 Demand Response Transit Operations
- APTS04 Transit Fare Collection Management
- APTS05 Transit Security
- APTS06 Transit Fleet Management
- APTS07 Multi-modal Coordination
- APTS08 Transit Traveler Information

Traveler Information

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- ATIS01 Broadcast Traveler Information
- ATIS02 Interactive Traveler Information
- ATIS05 ISP Based Trip Planning and Route Guidance
- ATIS07 Yellow Pages and Reservation

Traffic Management

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- ATMS01 Network Surveillance
- ATMS03 Surface Street Control
- ATMS04 Freeway Control
- ATMS06 Traffic Information Dissemination
- ATMS07 Regional Traffic Management
- ATMS08 Traffic Incident Management System

Commercial Vehicle Operations

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- CVO03 Electronic Clearance
- CVO06 Weigh-In-Motion
- CVO10 HAZMAT Management

Emergency Management

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- EM01 Emergency Call-Taking and Dispatch

Maintenance and Construction Management

(ADD OR REMOVE MARKET PACKAGES AS THEY APPLY TO YOUR REGION)

- MC04 Weather Information Processing and Distribution