Research Report
KTC-03-08/SPR188-98-2F

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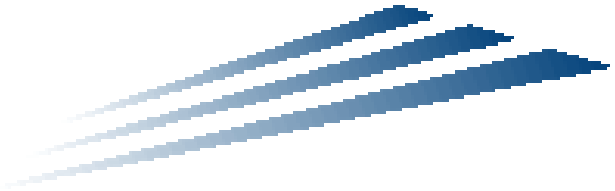
INTELLIGENT TRANSPORTATION SYSTEMS STATEWIDE ARCHITECTURE



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INTELLIGENT TRANSPORTATION SYSTEMS STATEWIDE ARCHITECTURE
(Final Report)

by

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and

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Kentucky Transportation Center
College of Engineering
University of Kentucky
Lexington, Kentucky

in cooperation with

Kentucky Transportation Cabinet
Commonwealth of Kentucky

and

Federal Highway Administration
U.S. Department of Transportation

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16. Abstract

This report describes the development of Kentucky's Statewide Intelligent Transportation Systems (ITS) Architecture. The process began with the development of an ITS Strategic Plan in 1997-2000. A Business Plan, developed in 2000-2001, translated the goals of the Strategic Plan into specific project recommendations. To develop the Statewide Architecture, the project team first inventoried all existing and planned ITS projects in the state. A project architecture was developed for each identified project, and these project architectures were then merged to form the Statewide Architecture. This report describes the background work that set the stage for the architecture, the actual architecture development process, and some of the key issues and challenges faced during the development. In addition, this report provides a description of the actual deliverables that resulted from the architecture development.

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EXECUTIVE SUMMARY

In 1997, the Kentucky Transportation Cabinet recognized the need for vision and strategic planning with respect to the deployment of Intelligent Transportation Systems (ITS). In response to this need, the Transportation Cabinet initiated a project through the Kentucky Transportation Center (at the University of Kentucky) to develop an ITS Strategic Plan for Kentucky. As the project progressed, it expanded to include the development of an ITS Business Plan and a Statewide ITS Architecture.

The ITS Strategic Plan was prepared in two phases. The first phase focused on the functional areas of Advanced Traveler Information Systems, Advanced Rural Transportation Systems, and Commercial Vehicle Operations. The second phase focused on Advanced Traffic Management Systems, Advanced Public Transportation Systems, and Advanced Vehicle Safety Systems. The final report for the ITS Strategic Plan was published in June 2000. The report included an inventory and map of existing ITS projects in Kentucky, with a one-page description for each project. The report also presented a mission statement, a vision, and a set of goals for each functional area of ITS. Finally, the Strategic Plan included brief discussions of Public Relations and Marketing, Operations and Maintenance, and Organizational Structure.

The purpose of the ITS Business Plan was to take the goals presented in the Strategic Plan and translate them into specific project recommendations. As with the Strategic Plan, the Business Plan development depended heavily on stakeholder involvement. The National ITS Architecture was a key tool in the process. As a starting point in developing a list of projects for the Business Plan, the goals defined in Kentucky's Strategic Plan were mapped against the 63 (there are now 75) market packages in the National Architecture, to determine which market packages were applicable to meeting Kentucky's goals. This process identified 50 market packages that were necessary to achieve all of the goals in the Strategic Plan. Through an iterative process involving project staff and stakeholders, priorities were assigned and the list was pared down to 16 market packages for inclusion in the Business Plan. From these market packages, a list of specific project recommendations was developed. The resulting list was included in the Business Plan Final Report, which was published in September 2001. That report included an inventory of current ITS deployment in Kentucky, a discussion of ITS infrastructure considerations, and descriptions of 21 recommended projects. For each recommended project, the report included an objective, a project description, the recommended location(s), the anticipated cost, and the recommended implementation schedule. Also included, where appropriate, was a map of the recommended location(s).

In early 1999, members of the Kentucky Transportation Cabinet's ITS Team determined that Kentucky needed to develop a Statewide ITS Architecture. The Architecture development was added, as a new task, to the existing Strategic/Business Plan project. One of the early challenges was determining what such an architecture should "look like." At that time, there was very little guidance available on how to prepare a regional ITS architecture. Three significant decisions that were made early in the project were: (1) to build the architecture at the project level first, and then merge these project architectures into a regional architecture; (2) to use market packages (and market package diagrams) as the primary "communications and documentation" tool for development of project architectures; and (3) to use the Turbo Architecture software for building and merging the architectures.

With these decisions made, development of the ITS Architecture for Kentucky began, using the inventory of projects that was included in the ITS Strategic Plan. Individual project architectures were prepared for every project on the list. For some major projects, a project architecture (or regional architecture) was already in existence or was being prepared by a private sector firm. In most cases, however, the project architecture had to be developed "from scratch." The process for developing these project architectures typically involved the following steps:

1. Identify and interview stakeholders to assist in defining the scope and details of the project.

2. Prepare market package diagrams to match the project definition.

3. Review the market package diagrams with stakeholders to verify their accuracy, and make changes as needed.

4. Create a project architecture using the Turbo Architecture software, based on the final market package diagrams.

The Architecture needed to reflect planned projects as well as existing projects. Thus, the above process was carried out not only for existing projects, but also for the recommended projects in the ITS Business Plan.

Once the project architectures had been completed, they needed to be reviewed and compared for consistency before being merged. Since some of the project architectures were developed by project staff and some were developed by private sector firms, there were differences, and it was necessary to make changes to the architectures to bring them into conformity.

Once the changes had been made and the project architectures were consistent with one another, the project architectures were merged into a "regional" (i.e., Statewide) architecture. This was a straightforward process, accomplished using the "merge" feature of the Turbo Architecture software.

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INTRODUCTION

Like many other states, Kentucky has recognized the need for vision and strategic planning with respect to ITS technology deployment. This prompted some key individuals within the Kentucky Transportation Cabinet to begin a process nearly five years ago that has culminated in an ITS Strategic Plan, an ITS Business Plan, and a Statewide ITS Architecture.

The purpose of presenting Kentucky's experience in this report is not to imply that Kentucky's process is perfect or that other jurisdictions should do it the same way. It is simply to share Kentucky's successes and challenges, in the hope that they may prove useful to others who are venturing down the same path. This report describes the process that was followed, discusses some of the key issues that were encountered and key decisions that were made, and presents the deliverables that resulted from the architecture development process.

THE STRATEGIC PLAN

In 1997, Kentucky had many ITS projects already deployed or in the process of deployment. Most of these projects were independent efforts. There was little coordination among projects, no statewide vision or strategy, and no established priorities for ITS deployment. In recognition of this situation, the Kentucky Transportation Cabinet approached the Kentucky Transportation Center with the concept of developing a Strategic Plan for ITS deployment in Kentucky. A work plan was developed in early 1997. The work plan called for development of the Strategic Plan in two phases; the first phase would focus on the areas of Advanced Traveler Information Systems (ATIS), Advanced Rural Transportation Systems (ARTS), and Commercial Vehicle Operations (CVO). The remaining areas of Advanced Traffic Management Systems (ATMS), Advanced Public Transportation Systems (APTS), and Advanced Vehicle Safety Systems (AVSS) were included in the second phase of the project.

The Strategic Plan development began with a survey of other states to determine the status of their strategic planning efforts. Focus groups were then formed and workshops were held to gather input from stakeholders throughout Kentucky regarding ITS issues and opportunities.

The first phase of the Strategic Plan development culminated in the publication of the Phase 1 report in May 1998.

The Strategic Plan Final Report (report number KTC-00-5) was published in June 2000. Information from both phases of the project was incorporated into the final report, so that it was a stand-alone document. The final report included an inventory and map of existing ITS projects in Kentucky. A total of 21 projects were identified, and a one-page description was included for each project. The report also presented a mission statement, a vision, and a set of goals for each functional area of ITS. Finally, the Strategic Plan included brief discussions of Public Relations and Marketing, Operations and Maintenance, and Organizational Structure.

THE BUSINESS PLAN

In order for the Strategic Plan to have practical value, it became clear that the goals stated in the Strategic Plan would need to be translated into specific project recommendations. This was the impetus for development of the ITS Business Plan. The stated purpose of the Business Plan was to guide the implementation of ITS technologies in Kentucky, so that the goals stated in the Strategic Plan would be achieved.

As with the Strategic Plan, the Business Plan development focused heavily on stakeholder involvement. The National ITS Architecture was also a key tool in the process. The National Architecture described ITS in terms of 31 user services (this has increased to 32 with the recent release of Version 4.0 of the Architecture), and these services were further broken down into 63 market packages (now 75). As a starting point in developing a list of projects for the Business Plan, the goals defined in Kentucky's Strategic Plan were mapped against the market packages in the National Architecture, to determine which market packages were applicable to meeting Kentucky's goals. This process identified 50 market packages that were necessary to achieve all of the goals in the Strategic Plan. This list of market packages was then reviewed to identify those market packages that would be implemented by the private sector, local agencies, or different divisions of state government. This review also identified those market packages that could not reasonably be implemented within a six-year time frame, which was the selected time window for the Business Plan.

The resulting, pared-down list of market packages was reviewed again, and priorities were assigned to the market packages based on stakeholder input, engineering judgment, and the number of goals addressed by each market package. This process resulted in a list of 13 primary market packages, three secondary market packages, and three additional packages for consideration. The Study Advisory Committee provided input to the project staff in developing a final list of market packages for inclusion in the Business Plan. The Committee also assisted in updating the inventory of current and planned projects, and in suggesting specific locations where the recommended market packages should be implemented.

The approved list of market packages was used to develop a list of specific project recommendations for the Business Plan. That list was reviewed with selected stakeholders, and was revised based on their input. The resulting list was included in the Business Plan Final Report, which was published in September 2001 (report number KTC-01-23). That report included an inventory of current ITS deployment in Kentucky, a discussion of ITS infrastructure considerations, and descriptions of 21 recommended projects. For each recommended project, the report included an objective, a project description, the recommended location(s), the anticipated cost, and the recommended implementation schedule. Also included, where appropriate, was a map of the recommended location(s).

THE ARCHITECTURE DEVELOPMENT PROCESS

Preliminary Steps and Decisions

In early 1999, during phase two of the Strategic Plan development, members of the Kentucky Transportation Cabinet's ITS Team determined that Kentucky needed to develop a Statewide ITS Architecture. It was recognized that the Architecture would depend heavily on the Strategic Plan and the Business Plan, so the Architecture development was added, as a new task, to the existing Strategic/Business Plan project.

One challenge in developing a regional architecture, particularly a statewide architecture, is determining what such an architecture should "look like." If one were to contact five different states that have prepared statewide architectures and request a copy from each, one would typically get five very different products. In many cases, what is advertised as a statewide architecture is actually more of a strategic plan, or perhaps a business plan, often with an accompanying "sausage diagram." For Kentucky, it was determined that the Statewide Architecture needed to be more than a single, top-level diagram.

At the time when Kentucky began its Architecture development, there was little guidance available on how to prepare a regional ITS architecture. Three significant decisions that were made early in the project were: (1) to build the architecture at the project level first, and then merge these project architectures into a regional architecture; (2) to use market packages (and market package diagrams) as the primary "communications and documentation" tool for development of project architectures; and (3) to use the Turbo Architecture software for building and merging the architectures.

Developing an Inventory and Individual Project Architectures

With these decisions made, development of the ITS Architecture for Kentucky began, using the inventory of projects from the ITS Strategic Plan. Individual project architectures were prepared for every project on the list. For some major projects, a project or regional architecture was already in existence or was being prepared by a private sector firm. In most cases, however, the project architecture had to be developed "from scratch." Through trial and error, project staff developed a procedure for development of a project architecture. That procedure typically involved the following steps:

1. Identify and interview stakeholders to assist in defining the scope and details of the project.

   This step usually involved telephone and in-person interviews with key stakeholders, focusing on gaining an understanding of the services provided (or functions performed) by the project, the key subsystems or elements involved, and the information flows necessary for the project to accomplish its desired functions.

2. Prepare market package diagrams to match the project definition.

   These diagrams were prepared and customized based on the information gathered during the stakeholder interviews.

3. Review the market package diagrams with stakeholders to verify their accuracy, and make changes as needed.

   This was an iterative process where the market package diagrams were presented to key stakeholders and reviewed to verify their accuracy. Errors or omissions in the diagrams were corrected, and the diagrams were again presented to stakeholders for verification.

4. Create a project architecture using the Turbo Architecture software, based on the final market package diagrams.

   Once the diagrams were confirmed to be accurate, the information in the diagrams was used to create and customize a project architecture, using the Turbo Architecture software. This was, for the most part, a fairly straightforward process.

Early in the Architecture development process, it became clear that the Architecture needed to reflect planned projects as well as existing projects. Thus, it was evident that the Architecture could not be completed until after the Business Plan was completed. There were also separate efforts underway (using private sector firms) to develop regional ITS architectures for the Cincinnati / Northern Kentucky region and the Cumberland Gap Tunnel region, and these architectures needed to be included in the Statewide Architecture. The Business Plan was published in September 2001, the Northern Kentucky architecture was delivered in November 2001, and the Cumberland Gap Tunnel regional architecture was delivered in June 2002. This cleared the way for completion of the Statewide Architecture.

Merging the Project Architectures to Create a Statewide Architecture

Once the project architectures had been completed, it was necessary to review and compare all the architectures to verify consistency and identify possible redundancy. Specifically, the architectures were compared in terms of the following questions:

1) If the same specific element (e.g., the Statewide Transportation Operations Center) appeared in more than one regional architecture, did it have the same name in each?

2) If a single operational unit (like a traffic control center) performed multiple functions (such as traffic management center, information service provider, etc.), was it entered into the architecture as a single element, mapped to multiple entities, or as multiple elements, each mapped to a single entity?

3) For "generic" elements that would appear in multiple architectures, such as enforcement vehicles, transit vehicles, travelers, etc., were they given generic names from the National Architecture or project-specific names?

As might be expected, since different individuals and organizations were responsible for developing some of the project architectures, there were some differences with regard to the questions above. It was therefore necessary to make changes to the project architectures to bring them into conformity.

Once the project architectures were consistent with one another, it was time to merge the project architectures into a "regional" (i.e., Statewide) architecture. The first step was to get all of the project architectures into a single Turbo Architecture data file. This was accomplished using the "import" function of the Turbo Architecture software. Once the project architectures were all in the same file, the "merge" feature of the Turbo Architecture software was used to create a regional (i.e., Statewide) architecture.

ISSUES AND QUESTIONS THAT WERE ENCOUNTERED

Major Decisions

Some of the primary decisions that were made early in the architecture development process were the following:

1) The decision to use market package diagrams as the primary communications and documentation tool for developing the project architectures.

2) The decision to use the Turbo Architecture software for the development.

In retrospect, these proved to be sound decisions. Market package diagrams and descriptions provide an effective tool for describing the services that an ITS project will provide and how the project elements will work together to provide the services. Once the diagrams have been developed, they provide virtually all of the information necessary to create the project architecture.

The Turbo Architecture software proved to be effective and relatively easy to use. Further comments on the Turbo Architecture, as well as on the National ITS Architecture, can be found below.

Minor Decisions

In addition to the major decisions regarding how to develop a statewide architecture, there were a lot of minor decisions required along the way. Some examples include:

1. Is it better to create a new Turbo file for each new project architecture, or should all project architectures be created in a single Turbo file?

   This may turn out to be primarily a matter of user preference, since it is quite easy to import project architectures from multiple files into a single file.

2. When a specific element (such as the TRIMARC control center) serves multiple functions (such as Traffic Management Center, Information Service Provider, etc.), is it better to create a single element and map it to several entities or to create several elements, each mapped to one entity?

   There may not be a single "right" answer to this question, but it is quite important to achieve consistency from project to project.

3. For elements that will occur in several different project architectures (such as drivers, vehicles, transit vehicles, emergency vehicles, etc.), is it better to create specific elements for each project (with project-specific names) or a generic element that will be included in each project?

As with question number two, this is probably more a matter of consistency than it is right or wrong. In other words, either approach should be fine, as long as it is used consistently from project to project.

These issues can be a particular challenge when more than one staff person is working on the architecture, or when different consultants are used to prepare different project architectures, since different people are likely to come up with different answers to the above questions. Then, when the time comes to merge the various project architectures, the inconsistencies become apparent.

Comments on the National Architecture and the Turbo Software

For the most part, the project staff found the National ITS Architecture and the Turbo Architecture software to be excellent tools for regional architecture development. The only "negative" observations were the following:

1) Using the market package diagrams from the National ITS Architecture has one drawback—some of the architecture flows that are included in the market package are not included in the market package diagram. Apparently, this was done to keep the market package diagrams from being overly complex. This was not discovered by the project staff until the architecture development was well underway.

2) The project staff experienced occasional anomalies with the Turbo Architecture Software. Specifically, there were occasions where reports produced by the Turbo software did not match what was in the database itself.

3) With the Turbo Architecture software, it is important to be cautious when making changes to an architecture that has already been customized. It is possible for earlier work (i.e., customizing the architecture) to be lost when the architecture is rebuilt. This can be avoided by making sure the correct options are selected when the architecture is rebuilt.

On the positive side, the Turbo Architecture software was easy to learn and easy to use. In particular, the process of merging project architectures into a regional architecture proved to be amazingly simple and quick.

ARCHITECTURE DELIVERABLES AND DOCUMENTATION

The Statewide Architecture Data File

The primary deliverable from the Statewide Architecture Development is the Microsoft Access database file, which was created using the Turbo Architecture software.

Reports

Using the Turbo Architecture software, numerous reports were generated to display the contents of the Statewide Architecture. These reports include an Inventory Report, Architecture Summary, and Architecture Report. They are presented in Appendix A.

Market Package Diagrams

The market package diagrams were a key element in the architecture development. They were used to define the individual project architectures, and they were the "authoritative source" of data for input into the Turbo Architecture software. Because these diagrams were developed on a project-specific basis, they are presented by project in Appendix B. The color convention used in these market package diagrams is as follows: elements and flows shown in black are currently existing; green items are planned; red items are those that are in the National Architecture but not included in Kentucky's Architecture; and blue items are those that are not in the National Architecture but have been added for Kentucky's Architecture.

Architecture Availability

The Statewide Architecture database file, along with all documentation (including this report), is available on a compact disk from the Kentucky Transportation Center. In addition, the Architecture has been placed on the Center's web site and on the Kentucky Transportation Cabinet's web site. It can be downloaded from either site. The web address for the Kentucky Transportation Center is www.ktc.uky.edu. The web address for the Transportation Cabinet is www.kytc.state.ky.us/operations/ITSB.html.

APPENDIX A

TURBO ARCHITECTURE REPORTS

Architecture Summary

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Architecture Name	Architecture Description	Status

Statewide (Region)

Statewide Architecture for Kentucky. Created by merging project architectures.

ARTIMIS (Project) Existing

Associated Element: ARTIMIS Archived Data Administrator
Associated Element: ARTIMIS Archived Data Management
Associated Element: ARTIMIS Area 911/CAD Centers
Associated Element: ARTIMIS Area Emergency Response Agencies
Associated Element: ARTIMIS Emergency Management
Associated Element: ARTIMIS Freeway Incident Response Teams
Associated Element: ARTIMIS Information Service Provider
Associated Element: ARTIMIS Traffic Management
Associated Element: Boone County 911/CAD
Associated Element: City of Cincinnati 911/CAD
Associated Element: City of Cincinnati Parking Management
Associated Element: City of Cincinnati Traffic Management
Associated Element: Hamilton County 911/CAD
Associated Element: METRO Transit Dispatch Center
Associated Element: Other Traffic Management
Associated Element: Remote Traveler Support Kiosks
Associated Element: Roadway Subsystem
Associated Element: TANK Transit Dispatch Center

Bridge Anti-Icing System (Project) Existing

This describes the automated roadway treatment system in Corbin on I-75.
Associated Element: Anti-Icing System
Associated Element: Bridge monitoring camera
Associated Element: Department of Highways District 11

Coordinate Traffic Signal Systems (Project) Existing

Statewide effort to coordinate traffic signal systems within cities in Kentucky.
Associated Element: Driver
Associated Element: KYTC Division of Traffic
Associated Element: Roadway Subsystem

Cumberland Gap Tunnel (Project) Existing

Associated Element: Academic / Research Organizations
Associated Element: Basic Vehicle
Associated Element: CGT Area Emergency Response Agencies
Associated Element: CGT Construction/Maintenance Central Repository
Associated Element: CGT Historical Incident Data Repository
Associated Element: CGT Historical Traffic Data Repository
Associated Element: CGT Regional GIS Agency
Associated Element: CGTMC Archive Data Administrator
Associated Element: CGTMC Operators / Dispatcher

Architecture Name	Architecture Description	Status
	Associated Element: Commercial Fleet Management *Associated Element:* Commercial Vehicle Administration *Associated Element:* Commercial Vehicle Subsystem *Associated Element:* Cumberland Gap Information Service Provider *Associated Element:* Cumberland Gap ISP Operator *Associated Element:* Cumberland Gap Traffic Management Center *Associated Element:* Driver *Associated Element:* Emergency Vehicle *Associated Element:* Event Promoters *Associated Element:* Fatal Analysis Reporting System *Associated Element:* Highway Performance Monitoring System *Associated Element:* Kentucky Historical Incident Data Repository *Associated Element:* Kentucky Historical Traffic Data Repository *Associated Element:* Media *Associated Element:* Personal Information Access *Associated Element:* Private commercial information providers *Associated Element:* Remote Traveler Support Kiosks *Associated Element:* Roadway Environment *Associated Element:* Roadway Subsystem *Associated Element:* RWIS Stations *Associated Element:* STOC Information Service Provider *Associated Element:* Tennessee Historical Incident Data Repository *Associated Element:* Tennessee Historical Traffic Data Repository *Associated Element:* Traffic *Associated Element:* Traveler *Associated Element:* Tunnel Electronic Tag Reader *Associated Element:* Tunnel Emergency Management Center *Associated Element:* Tunnel Emergency Personnel *Associated Element:* Tunnel Emergency System Operator *Associated Element:* Tunnel Roadway Subsystem *Associated Element:* Vehicles on the Road *Associated Element:* Weather Service *Associated Element:* Yellow Pages Service Providers	
CVO (Project)	Single project architecture to describe all ITS/CVO projects in KY *Associated Element:* Commercial Fleet Management *Associated Element:* Commercial Vehicle *Associated Element:* Commercial Vehicle Administration *Associated Element:* Commercial Vehicle Driver *Associated Element:* Commercial Vehicle Inspection Facility *Associated Element:* Commercial Vehicle Subsystem *Associated Element:* CVO Information Requestor *Associated Element:* CVO Inspector *Associated Element:* Financial Institution *Associated Element:* IRP Clearinghouse *Associated Element:* MARS *Associated Element:* MCMIS *Associated Element:* Other CVAS *Associated Element:* Payment Instrument *Associated Element:* Remote Monitoring System *Associated Element:* RPC *Associated Element:* SAFER	Existing

Architecture Name	Architecture Description	Status
Lexington (Project)		Existing
	ITS applications in the Lexington-Fayette Co. area *Associated Element:* Driver *Associated Element:* Emergency Vehicle *Associated Element:* Event Promoters *Associated Element:* Financial Institution *Associated Element:* Fire and Emergency Services Personnel *Associated Element:* Government Reporting Systems *Associated Element:* Lexington Archived Data Administrator *Associated Element:* Lexington Archived Data Management Center *Associated Element:* Lexington Archived Data User Systems *Associated Element:* Lexington Emergency Management Center *Associated Element:* Lexington Emergency Management Center Personnel *Associated Element:* Lexington Police Department *Associated Element:* Lexington TMC Operations Personnel *Associated Element:* Lexington Traffic Management *Associated Element:* Lexington Transit Management Center *Associated Element:* Lexington Transit Mgmt. Center Personnel *Associated Element:* LFUCG Division of Streets and Roads *Associated Element:* Media *Associated Element:* Other Traffic Management *Associated Element:* Payment Instrument *Associated Element:* Pedestrians *Associated Element:* Personal Information Access *Associated Element:* Police Personnel *Associated Element:* Remote Traveler Support Kiosks *Associated Element:* Roadway Environment *Associated Element:* Roadway Subsystem *Associated Element:* Traffic *Associated Element:* Traffic Information Network *Associated Element:* Traffic Information Network Personnel *Associated Element:* Transit Driver *Associated Element:* Transit User *Associated Element:* Transit Vehicle *Associated Element:* Traveler *Associated Element:* Vehicle *Associated Element:* Weather Service	
Pulaski County Signal Preemption (Project)		Existing
	This project describes the signal preemption system in Pulaski county at US27 and Sallee Street. *Associated Element:* Department of Highways District 8 *Associated Element:* Roadway Subsystem *Associated Element:* Somerset Fire Station	
Signal Preemption for Bowling Green (Project)		Existing
	Associated Element: Department of Highways District 3 *Associated Element:* Fire Vehicles *Associated Element:* Roadway Subsystem	
Signal Preemption for Owensboro (Project)		Planned

Architecture Name	Architecture Description	Status

Associated Element: Department of Highways District 2
Associated Element: Fire Vehicles
Associated Element: Roadway Subsystem

Signal Pre-emption in Flemingsburg (Project) Existing

This project architecture describes the pre-emption system in Flemingsburg at KY11 & KY32/KY57 and KY32 & KY11/KY559.

Associated Element: Department of Highways District 9
Associated Element: Emergency Vehicle Personnel
Associated Element: Fleming County Dispatch Center
Associated Element: Roadway Subsystem

Signal Preemption Paducah (Project) Existing

This architecture describes the signal preemption systems in Paducah at intersections US45 & Jackson Street and US60 & Wayne Sullivan Drive.

Associated Element: Department of Highways District 1
Associated Element: Paducah Fire Stations
Associated Element: Roadway Subsystem

STOC (Project) Existing

Statewide Transportation Operations Center

Associated Element: ARTIMIS Traffic Management
Associated Element: Basic Vehicle
Associated Element: Commonwealth EOC
Associated Element: Driver
Associated Element: Emergency Vehicle
Associated Element: Event Promoters
Associated Element: Financial Institution
Associated Element: Indianapolis Traffic Management
Associated Element: Kentucky State Police
Associated Element: KVE Emergency Management
Associated Element: KYTC District Maintenance
Associated Element: Lexington Traffic Management
Associated Element: Media
Associated Element: Nashville Traffic Management
Associated Element: Other Information Service Providers
Associated Element: Personal Information Access
Associated Element: Private commercial information providers
Associated Element: Remote Traveler Support Kiosks
Associated Element: Roadway Environment
Associated Element: Roadway Subsystem
Associated Element: Rural Transit Providers
Associated Element: RWIS Stations
Associated Element: STOC Information Service Provider
Associated Element: STOC Operations Personnel
Associated Element: STOC Traffic Management
Associated Element: TRIMARC Traffic Management
Associated Element: Weather Service
Associated Element: Yellow Pages Service Providers

TRIMARC (Project) Existing

Architecture Name	Architecture Description	Status
	Louisville Area Project Architecture *Associated Element:* ARTIMIS Traffic Management *Associated Element:* Basic Vehicle *Associated Element:* Driver *Associated Element:* Emergency Vehicle *Associated Element:* Event Promoters *Associated Element:* Indianapolis Traffic Management *Associated Element:* INDOT District Maintenance *Associated Element:* Jefferson County EMA *Associated Element:* KIPDA Data System *Associated Element:* KYTC District Maintenance *Associated Element:* KYTC ftp server *Associated Element:* Lexington Traffic Management *Associated Element:* Location Data Source *Associated Element:* Media *Associated Element:* Nashville Traffic Management *Associated Element:* Other EM *Associated Element:* Other Information Service Providers *Associated Element:* Personal Information Access *Associated Element:* Remote Traveler Support Kiosks *Associated Element:* Roadway Environment *Associated Element:* Roadway Subsystem *Associated Element:* STOC Traffic Management *Associated Element:* TARC Transit Management *Associated Element:* Transit User *Associated Element:* Transit Vehicle *Associated Element:* TRIMARC Archived Data Management *Associated Element:* TRIMARC Area Emergency Response Agencies *Associated Element:* TRIMARC Data Administrator *Associated Element:* TRIMARC Freeway Service Patrol Vans *Associated Element:* TRIMARC Information Service Provider *Associated Element:* TRIMARC Operations Personnel *Associated Element:* TRIMARC Traffic Management *Associated Element:* Vehicle *Associated Element:* Weather Service	
Truck Rollover Warning Project (Project)	Based on length, commercial vehicles are identified. Then based on speed, specific vehicles receive a message, "Trucks Reduce Speed". *Associated Element:* Acoustic detectors *Associated Element:* Basic Vehicle *Associated Element:* Department of Highways District 2 *Associated Element:* EIS wide beam radar *Associated Element:* Fiber Optic Message Sign	Existing

Stakeholders Report

9/5/2002 11:22:44AM

Stakeholder

Boone County

Description:

Associated Element: Boone County 911/CAD

Bowling Green Fire Department

Description:

Associated Element: Fire Vehicles

City of Cincinnati

Description:

Associated Element: City of Cincinnati 911/CAD
Associated Element: City of Cincinnati Parking Management
Associated Element: City of Cincinnati Traffic Management

City of Flemingsburg

Description:

Associated Element: Emergency Vehicle Personnel
Associated Element: Fleming County Dispatch Center

County/State Agencies

Description:

Associated Element: CGT Area Emergency Response Agencies

Department of Highways - D2

Description:

Associated Element: Acoustic detectors
Associated Element: EIS wide beam radar
Associated Element: Fiber Optic Message Sign

Dept of Vehicle Regulation

Description:

Associated Element: Commercial Vehicle Administration
Associated Element: Commercial Vehicle Inspection Facility
Associated Element: CVO Inspector
Associated Element: KVE Emergency Management
Associated Element: Remote Monitoring System

Division of Emergency Management

Description:

Associated Element: Commonwealth EOC

FHWA

Description:

Associated Element: Fatal Analysis Reporting System
Associated Element: Highway Performance Monitoring System

Finance and Administration Cabinet

Description:

Associated Element: MARS

Stakeholder

FMCSA--USDOT

Description:

Associated Element: MCMIS
Associated Element: SAFER

Hamilton County

Description: Ohio

Associated Element: Hamilton County 911/CAD

IFTA, Inc.

Description:

Associated Element: RPC

Indiana DOT

Description:

Associated Element: Indianapolis Traffic Management
Associated Element: INDOT District Maintenance

Individual

Description:

Associated Element: Traveler

IRP, Inc.

Description: International Registration Plan

Associated Element: IRP Clearinghouse

Jefferson County EMA

Description:

Associated Element: Jefferson County EMA

Kentucky State Police

Description:

Associated Element: Kentucky State Police

Kentucky Transportation Cabinet

Description:

Associated Element: Anti-Icing System
Associated Element: Bridge monitoring camera
Associated Element: Department of Highways District 1
Associated Element: Department of Highways District 11
Associated Element: Department of Highways District 2
Associated Element: Department of Highways District 3
Associated Element: Department of Highways District 8
Associated Element: Department of Highways District 9
Associated Element: KYTC District Maintenance
Associated Element: KYTC Division of Traffic
Associated Element: KYTC ftp server
Associated Element: Location Data Source
Associated Element: Remote Traveler Support Kiosks
Associated Element: Roadway Subsystem
Associated Element: RWIS Stations
Associated Element: STOC Information Service Provider
Associated Element: STOC Operations Personnel

Associated Element: STOC Traffic Management
Associated Element: TRIMARC Archived Data Management
Associated Element: TRIMARC Data Administrator
Associated Element: TRIMARC Freeway Service Patrol Vans
Associated Element: TRIMARC Information Service Provider
Associated Element: TRIMARC Operations Personnel
Associated Element: TRIMARC Traffic Management

KIPDA

Description: Kentucky-Indiana Planning and Development Agency
Associated Element: KIPDA Data System

KYTC

Description:
Associated Element: Kentucky Historical Incident Data Repository
Associated Element: Kentucky Historical Traffic Data Repository
Associated Element: Tunnel Electronic Tag Reader

KYTC and ODOT

Description: Kentucky Transportation Cabinet and Ohio Department of Transportation
Associated Element: ARTIMIS Archived Data Administrator
Associated Element: ARTIMIS Archived Data Management
Associated Element: ARTIMIS Emergency Management
Associated Element: ARTIMIS Freeway Incident Response Teams
Associated Element: ARTIMIS Information Service Provider
Associated Element: ARTIMIS Traffic Management

KYTC District 10

Description:
Associated Element: CGT Construction/Maintenance Central Repository
Associated Element: CGT Historical Incident Data Repository
Associated Element: CGT Historical Traffic Data Repository
Associated Element: CGTMC Archive Data Administrator
Associated Element: CGTMC Operators / Dispatcher
Associated Element: Cumberland Gap Information Service Provider
Associated Element: Cumberland Gap ISP Operator
Associated Element: Cumberland Gap Traffic Management Center
Associated Element: Tunnel Emergency Management Center
Associated Element: Tunnel Emergency Personnel
Associated Element: Tunnel Emergency System Operator
Associated Element: Tunnel Roadway Subsystem

Lexington-Fayette Urban County Government

Description:
Associated Element: Lexington Traffic Management

LexTran

Description:
Associated Element: Lexington Transit Management Center
Associated Element: Lexington Transit Mgmt. Center Personnel

LFUCG

Description: Lexington-Fayette Urban County Government

Stakeholder

LFUCG Division of Fire and Emergency Services

Description:

Associated Element: Fire and Emergency Services Personnel

LFUCG Division of Planning/MPO

Description:

Associated Element: Government Reporting Systems
Associated Element: Lexington Archived Data Administrator
Associated Element: Lexington Archived Data Management Center
Associated Element: Lexington Archived Data User Systems

LFUCG Division of Police

Description:

Associated Element: Lexington Emergency Management Center
Associated Element: Lexington Emergency Management Center Personnel
Associated Element: Lexington Police Department
Associated Element: Police Personnel

LFUCG Division of Streets and Roads

Description:

Associated Element: LFUCG Division of Streets and Roads

LFUCG Division of Traffic Engineering

Description:

Associated Element: Lexington TMC Operations Personnel
Associated Element: Traffic Information Network
Associated Element: Traffic Information Network Personnel

METRO

Description:

Associated Element: METRO Transit Dispatch Center

National Weather Service

Description:

Associated Element: Weather Service

Paducah Fire Department

Description:

Associated Element: Paducah Fire Stations

Somerset Fire Department

Description:

Associated Element: Somerset Fire Station

TANK

Description: Transit Authority of Northern Kentucky

Associated Element: TANK Transit Dispatch Center

TARC

Description: Transit Authority of River City

Associated Element: TARC Transit Management
Associated Element: Transit User
Associated Element: Transit Vehicle

Stakeholder

TDOT

Description:

Associated Element: Tennessee Historical Incident Data Repository

Associated Element: Tennessee Historical Traffic Data Repository

Tennessee DOT

Description:

Associated Element: Nashville Traffic Management

Trucking company

Description:

Associated Element: Commercial Fleet Management

Associated Element: Commercial Vehicle

Associated Element: Commercial Vehicle Driver

Associated Element: Commercial Vehicle Subsystem

Various Owners

Description:

Associated Element: Academic / Research Organizations

Associated Element: CGT Regional GIS Agency

Inventory Report

9/5/2002 11:21:10AM

Element Inventory for Region Statewide

Academic / Research Organizations

Status: Existing
Associated Stakeholder: Various Owners
Mapped to Entity: Archived Data User Systems *Project:* Cumberland Gap Tunnel

Acoustic detectors

Status: Existing
Associated Stakeholder: Department of Highways - D2
Mapped to Entity: Roadway Subsystem *Project:* Truck Rollover Warning Project

Anti-Icing System

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet
Mapped to Entity: Roadway Subsystem *Project:* Bridge Anti-Icing System

ARTIMIS Archived Data Administrator

Status: Planned
Associated Stakeholder: KYTC and ODOT
Mapped to Entity: Archived Data Administrator *Project:* ARTIMIS

ARTIMIS Archived Data Management

Status: Planned
Associated Stakeholder: KYTC and ODOT
Mapped to Entity: Other Archives *Project:* ARTIMIS
Mapped to Entity: Archived Data Management Subsystem *Project:* ARTIMIS

ARTIMIS Area 911/CAD Centers

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Emergency Management *Project:* ARTIMIS
Mapped to Entity: Other EM *Project:* ARTIMIS

ARTIMIS Area Emergency Response Agencies

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Other EM *Project:* ARTIMIS
Mapped to Entity: Emergency Management *Project:* ARTIMIS

ARTIMIS Emergency Management

Status: Existing
Associated Stakeholder: KYTC and ODOT
Mapped to Entity: Emergency Management *Project:* ARTIMIS
Mapped to Entity: Other EM *Project:* ARTIMIS

ARTIMIS Freeway Incident Response Teams

Status: Planned
Associated Stakeholder: KYTC and ODOT
Mapped to Entity: Emergency Vehicle Subsystem *Project:* ARTIMIS

ARTIMIS Information Service Provider

Element Inventory for Region Statewide

Status: Existing
Associated Stakeholder: KYTC and ODOT

Mapped to Entity: Information Service Provider	*Project:* ARTIMIS
Mapped to Entity: Other ISP	*Project:* ARTIMIS

ARTIMIS Traffic Management

Status: Existing
Associated Stakeholder: KYTC and ODOT

Mapped to Entity: Other TM	*Project:* ARTIMIS
Mapped to Entity: Traffic Management	*Project:* ARTIMIS
Mapped to Entity: Other TM	*Project:* STOC
Mapped to Entity: Traffic Management	*Project:* STOC
Mapped to Entity: Other TM	*Project:* TRIMARC
Mapped to Entity: Traffic Management	*Project:* TRIMARC

Basic Vehicle

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Basic Vehicle	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Basic Vehicle	*Project:* STOC
Mapped to Entity: Basic Vehicle	*Project:* TRIMARC
Mapped to Entity: Basic Vehicle	*Project:* Truck Rollover Warning Project

Boone County 911/CAD

Status: Existing
Associated Stakeholder: Boone County

Mapped to Entity: Emergency Management	*Project:* ARTIMIS
Mapped to Entity: Other EM	*Project:* ARTIMIS

Bridge monitoring camera

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Roadway Subsystem	*Project:* Bridge Anti-Icing System

CGT Area Emergency Response Agencies

Status: Existing
Associated Stakeholder: County/State Agencies

Mapped to Entity: Other EM	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Emergency Management	*Project:* Cumberland Gap Tunnel

CGT Construction/Maintenance Central Repository

Status: Planned
Associated Stakeholder: KYTC District 10

Mapped to Entity: Construction and Maintenance	*Project:* Cumberland Gap Tunnel

CGT Historical Incident Data Repository

Status: Existing
Associated Stakeholder: KYTC District 10

Mapped to Entity: Other Archives	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Archived Data Management Subsystem	*Project:* Cumberland Gap Tunnel

CGT Historical Traffic Data Repository

Status: Existing
Associated Stakeholder: KYTC District 10

Mapped to Entity: Archived Data Management Subsystem — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Other Archives — *Project:* Cumberland Gap Tunnel

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CGT Regional GIS Agency

Status: Existing
Associated Stakeholder: Various Owners
Mapped to Entity: Map Update Provider — *Project:* Cumberland Gap Tunnel

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CGTMC Archive Data Administrator

Status: Planned
Associated Stakeholder: KYTC District 10
Mapped to Entity: Archived Data Administrator — *Project:* Cumberland Gap Tunnel

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CGTMC Operators / Dispatcher

Status: Planned
Associated Stakeholder: KYTC District 10
Mapped to Entity: Traffic Operations Personnel — *Project:* Cumberland Gap Tunnel

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City of Cincinnati 911/CAD

Status: Existing
Associated Stakeholder: City of Cincinnati
Mapped to Entity: Emergency Management — *Project:* ARTIMIS
Mapped to Entity: Other EM — *Project:* ARTIMIS

City of Cincinnati Parking Management

Status: Planned
Associated Stakeholder: City of Cincinnati
Mapped to Entity: Parking Management — *Project:* ARTIMIS

City of Cincinnati Traffic Management

Status: Existing
Associated Stakeholder: City of Cincinnati
Mapped to Entity: Other TM — *Project:* ARTIMIS
Mapped to Entity: Traffic Management — *Project:* ARTIMIS

Commercial Fleet Management

Status: Existing
Associated Stakeholder: Trucking company
Mapped to Entity: Fleet and Freight Management — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Fleet and Freight Management — *Project:* CVO

Commercial Vehicle

Status: Existing
Associated Stakeholder: Trucking company
Mapped to Entity: Commercial Vehicle — *Project:* CVO

Commercial Vehicle Administration

Status: Existing
Associated Stakeholder: Dept of Vehicle Regulation
Mapped to Entity: Commercial Vehicle Administration — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Other CVAS — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Commercial Vehicle Administration — *Project:* CVO
Mapped to Entity: Other CVAS — *Project:* CVO

Commercial Vehicle Driver

Element Inventory for Region Statewide

Status: Existing
Associated Stakeholder: Trucking company
Mapped to Entity: Commercial Vehicle Driver *Project:* CVO

Commercial Vehicle Inspection Facility

Status: Existing
Associated Stakeholder: Dept of Vehicle Regulation
Mapped to Entity: Commercial Vehicle Check *Project:* CVO

Commercial Vehicle Subsystem

Status: Existing
Associated Stakeholder: Trucking company
Mapped to Entity: Commercial Vehicle Subsystem *Project:* Cumberland Gap Tunnel
Mapped to Entity: Commercial Vehicle Subsystem *Project:* CVO

Commonwealth EOC

Status: Existing
Associated Stakeholder: Division of Emergency Management
Mapped to Entity: Other EM *Project:* STOC
Mapped to Entity: Emergency Management *Project:* STOC

Cumberland Gap Information Service Provider

Status: Planned
Associated Stakeholder: KYTC District 10
Mapped to Entity: Information Service Provider *Project:* Cumberland Gap Tunnel
Mapped to Entity: Other ISP *Project:* Cumberland Gap Tunnel

Cumberland Gap ISP Operator

Status: Planned
Associated Stakeholder: KYTC District 10
Mapped to Entity: ISP Operator *Project:* Cumberland Gap Tunnel

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Cumberland Gap Traffic Management Center

Status: Planned
Associated Stakeholder: KYTC District 10
Mapped to Entity: Traffic Management *Project:* Cumberland Gap Tunnel
Mapped to Entity: Other TM *Project:* Cumberland Gap Tunnel

CVO Information Requestor

Status: Existing
Associated Stakeholder: None
Mapped to Entity: CVO Information Requestor *Project:* CVO

CVO Inspector

Status: Existing
Associated Stakeholder: Dept of Vehicle Regulation
Mapped to Entity: CVO Inspector *Project:* CVO

Department of Highways District 1

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet
Mapped to Entity: Other TM *Project:* Signal Preemption Paducah
Mapped to Entity: Traffic Management *Project:* Signal Preemption Paducah

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Department of Highways District 11

Element Inventory for Region Statewide

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Other TM	*Project:* Bridge Anti-Icing System
Mapped to Entity: Traffic Management	*Project:* Bridge Anti-Icing System

Department of Highways District 2

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Traffic Management	*Project:* Signal Preemption for Owensboro
Mapped to Entity: Other TM	*Project:* Signal Preemption for Owensboro
Mapped to Entity: Other TM	*Project:* Truck Rollover Warning Project
Mapped to Entity: Traffic Management	*Project:* Truck Rollover Warning Project

Department of Highways District 3

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Other TM	*Project:* Signal Preemption for Bowling Green
Mapped to Entity: Traffic Management	*Project:* Signal Preemption for Bowling Green

Department of Highways District 8

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Other TM	*Project:* Pulaski County Signal Preemption
Mapped to Entity: Traffic Management	*Project:* Pulaski County Signal Preemption

Department of Highways District 9

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Traffic Management	*Project:* Signal Pre-emption in Flemingsburg
Mapped to Entity: Other TM	*Project:* Signal Pre-emption in Flemingsburg

Driver

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Driver	*Project:* Coordinate Traffic Signal Systems
Mapped to Entity: Driver	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Driver	*Project:* Lexington
Mapped to Entity: Driver	*Project:* STOC
Mapped to Entity: Driver	*Project:* TRIMARC

EIS wide beam radar

Status: Existing
Associated Stakeholder: Department of Highways - D2

Mapped to Entity: Roadway Subsystem	*Project:* Truck Rollover Warning Project

Emergency Vehicle

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Emergency Vehicle Subsystem	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Emergency Vehicle Subsystem	*Project:* Lexington
Mapped to Entity: Emergency Vehicle Subsystem	*Project:* STOC
Mapped to Entity: Emergency Vehicle Subsystem	*Project:* TRIMARC

Emergency Vehicle Personnel

Element Inventory for Region Statewide

Status: Existing
Associated Stakeholder: City of Flemingsburg
Mapped to Entity: Emergency Personnel — *Project:* Signal Pre-emption in Flemingsburg

Event Promoters

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Event Promoters — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Event Promoters — *Project:* Lexington
Mapped to Entity: Event Promoters — *Project:* STOC
Mapped to Entity: Event Promoters — *Project:* TRIMARC

Fatal Analysis Reporting System

Status: Existing
Associated Stakeholder: FHWA
Mapped to Entity: Government Reporting Systems — *Project:* Cumberland Gap Tunnel

Fiber Optic Message Sign

Status: Existing
Associated Stakeholder: Department of Highways - D2
Mapped to Entity: Roadway Subsystem — *Project:* Truck Rollover Warning Project

Financial Institution

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Financial Institution — *Project:* CVO
Mapped to Entity: Financial Institution — *Project:* Lexington
Mapped to Entity: Financial Institution — *Project:* STOC

Fire and Emergency Services Personnel

Status: Existing
Associated Stakeholder: LFUCG Division of Fire and Emergency Services
Mapped to Entity: Emergency Personnel — *Project:* Lexington

Fire Vehicles

Status: Existing
Associated Stakeholder: Bowling Green Fire Department
Mapped to Entity: Emergency Vehicle Subsystem — *Project:* Signal Preemption for Bowling Green
Mapped to Entity: Emergency Vehicle Subsystem — *Project:* Signal Preemption for Owensboro

Fleming County Dispatch Center

Status: Existing
Associated Stakeholder: City of Flemingsburg
Mapped to Entity: Other EM — *Project:* Signal Pre-emption in Flemingsburg
Mapped to Entity: Emergency Management — *Project:* Signal Pre-emption in Flemingsburg

Government Reporting Systems

Status: Existing
Associated Stakeholder: LFUCG Division of Planning/MPO
Mapped to Entity: Government Reporting Systems — *Project:* Lexington

Hamilton County 911/CAD

Status: Existing
Associated Stakeholder: Hamilton County
Mapped to Entity: Other EM — *Project:* ARTIMIS

Mapped to Entity: Emergency Management — *Project:* ARTIMIS

Highway Performance Monitoring System

Status: Existing
Associated Stakeholder: FHWA

Mapped to Entity: Government Reporting Systems — *Project:* Cumberland Gap Tunnel

Indianapolis Traffic Management

Status: Existing
Associated Stakeholder: Indiana DOT

Mapped to Entity: Traffic Management — *Project:* STOC
Mapped to Entity: Other TM — *Project:* STOC
Mapped to Entity: Traffic Management — *Project:* TRIMARC
Mapped to Entity: Other TM — *Project:* TRIMARC

INDOT District Maintenance

Status: Existing
Associated Stakeholder: Indiana DOT

Mapped to Entity: Construction and Maintenance — *Project:* TRIMARC

IRP Clearinghouse

Status: Existing
Associated Stakeholder: IRP, Inc.

Mapped to Entity: Other CVAS — *Project:* CVO

Jefferson County EMA

Status: Existing
Associated Stakeholder: Jefferson County EMA

Mapped to Entity: Emergency Management — *Project:* TRIMARC
Mapped to Entity: Other EM — *Project:* TRIMARC

Kentucky Historical Incident Data Repository

Status: Existing
Associated Stakeholder: KYTC

Mapped to Entity: Other Archives — *Project:* Cumberland Gap Tunnel

Kentucky Historical Traffic Data Repository

Status: Existing
Associated Stakeholder: KYTC

Mapped to Entity: Other Archives — *Project:* Cumberland Gap Tunnel

Kentucky State Police

Status: Existing
Associated Stakeholder: Kentucky State Police

Mapped to Entity: Other EM — *Project:* STOC

KIPDA Data System

Status: Existing
Associated Stakeholder: KIPDA

Mapped to Entity: Archived Data User Systems — *Project:* TRIMARC

KVE Emergency Management

Status: Existing
Associated Stakeholder: Dept of Vehicle Regulation

Mapped to Entity: Emergency Management — *Project:* STOC

Mapped to Entity: Other EM — *Project:* STOC

KYTC District Maintenance

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Construction and Maintenance — *Project:* STOC
Mapped to Entity: Construction and Maintenance — *Project:* TRIMARC

KYTC Division of Traffic

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Other TM — *Project:* Coordinate Traffic Signal Systems
Mapped to Entity: Traffic Management — *Project:* Coordinate Traffic Signal Systems

KYTC ftp server

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Archived Data User Systems — *Project:* TRIMARC

Lexington Archived Data Administrator

Status: Existing
Associated Stakeholder: LFUCG Division of Planning/MPO

Mapped to Entity: Archived Data Administrator — *Project:* Lexington

Lexington Archived Data Management Center

Status: Existing
Associated Stakeholder: LFUCG Division of Planning/MPO

Mapped to Entity: Other Archives — *Project:* Lexington
Mapped to Entity: Archived Data Management Subsystem — *Project:* Lexington

Lexington Archived Data User Systems

Status: Existing
Associated Stakeholder: LFUCG Division of Planning/MPO

Mapped to Entity: Archived Data User Systems — *Project:* Lexington

Lexington Emergency Management Center

Status: Existing
Associated Stakeholder: LFUCG Division of Police

Mapped to Entity: Other EM — *Project:* Lexington
Mapped to Entity: Emergency Management — *Project:* Lexington

Lexington Emergency Management Center Personnel

Status: Existing
Associated Stakeholder: LFUCG Division of Police

Mapped to Entity: Emergency System Operator — *Project:* Lexington

Lexington Police Department

Status: Existing
Associated Stakeholder: LFUCG Division of Police

Mapped to Entity: Enforcement Agency — *Project:* Lexington

Lexington TMC Operations Personnel

Status: Existing
Associated Stakeholder: LFUCG Division of Traffic Engineering

Mapped to Entity: ISP Operator — *Project:* Lexington

Mapped to Entity: Traffic Operations Personnel *Project:* Lexington

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Lexington Traffic Management

Status: Existing
Associated Stakeholder: Lexington-Fayette Urban County Government

Mapped to Entity: Traffic Management *Project:* Lexington
Mapped to Entity: Other TM *Project:* Lexington
Mapped to Entity: Other TM *Project:* STOC
Mapped to Entity: Traffic Management *Project:* STOC
Mapped to Entity: Other TM *Project:* TRIMARC
Mapped to Entity: Traffic Management *Project:* TRIMARC

Lexington Transit Management Center

Status: Existing
Associated Stakeholder: LexTran

Mapped to Entity: Other TRM *Project:* Lexington
Mapped to Entity: Transit Management *Project:* Lexington

Lexington Transit Mgmt. Center Personnel

Status: Existing
Associated Stakeholder: LexTran

Mapped to Entity: Transit System Operators *Project:* Lexington
Mapped to Entity: Transit Fleet Manager *Project:* Lexington

LFUCG Division of Streets and Roads

Status: Existing
Associated Stakeholder: LFUCG Division of Streets and Roads

Mapped to Entity: Construction and Maintenance *Project:* Lexington

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Location Data Source

Status: Planned
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Location Data Source *Project:* TRIMARC

MARS

Status: Existing
Associated Stakeholder: Finance and Administration Cabinet

Mapped to Entity: Government Administrators *Project:* CVO

MCMIS

Status: Existing
Associated Stakeholder: FMCSA--USDOT

Mapped to Entity: Other CVAS *Project:* CVO

Media

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Media *Project:* Cumberland Gap Tunnel
Mapped to Entity: Media *Project:* Lexington
Mapped to Entity: Media *Project:* STOC
Mapped to Entity: Media *Project:* TRIMARC

METRO Transit Dispatch Center

Status: Existing
Associated Stakeholder: METRO

Mapped to Entity: Other TRM — *Project:* ARTIMIS
Mapped to Entity: Transit Management — *Project:* ARTIMIS

Nashville Traffic Management

Status: Existing
Associated Stakeholder: Tennessee DOT
Mapped to Entity: Traffic Management — *Project:* STOC
Mapped to Entity: Other TM — *Project:* STOC
Mapped to Entity: Traffic Management — *Project:* TRIMARC
Mapped to Entity: Other TM — *Project:* TRIMARC

Other CVAS

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Other CVAS — *Project:* CVO

Other EM

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Other EM — *Project:* TRIMARC

Other Information Service Providers

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Information Service Provider — *Project:* STOC
Mapped to Entity: Other ISP — *Project:* STOC
Mapped to Entity: Other ISP — *Project:* TRIMARC
Mapped to Entity: Information Service Provider — *Project:* TRIMARC

Other Traffic Management

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Other TM — *Project:* ARTIMIS
Mapped to Entity: Traffic Management — *Project:* ARTIMIS
Mapped to Entity: Traffic Management — *Project:* Lexington
Mapped to Entity: Other TM — *Project:* Lexington

Paducah Fire Stations

Status: Existing
Associated Stakeholder: Paducah Fire Department
Mapped to Entity: Other EM — *Project:* Signal Preemption Paducah
Mapped to Entity: Emergency Management — *Project:* Signal Preemption Paducah

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Payment Instrument

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Payment Instrument — *Project:* CVO
Mapped to Entity: Payment Instrument — *Project:* Lexington

Pedestrians

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Pedestrians — *Project:* Lexington

Element Inventory for Region Statewide

Personal Information Access

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Personal Information Access	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Personal Information Access	*Project:* Lexington
Mapped to Entity: Personal Information Access	*Project:* STOC
Mapped to Entity: Personal Information Access	*Project:* TRIMARC

Police Personnel

Status: Existing
Associated Stakeholder: LFUCG Division of Police

Mapped to Entity: Emergency Personnel	*Project:* Lexington

Private commercial information providers

Status: Planned
Associated Stakeholder: None

Mapped to Entity: Other ISP	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Information Service Provider	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Other ISP	*Project:* STOC
Mapped to Entity: Information Service Provider	*Project:* STOC

Remote Monitoring System

Status: Existing
Associated Stakeholder: Dept of Vehicle Regulation

Mapped to Entity: Roadway Subsystem	*Project:* CVO

Remote Traveler Support Kiosks

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Remote Traveler Support	*Project:* ARTIMIS
Mapped to Entity: Remote Traveler Support	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Remote Traveler Support	*Project:* Lexington
Mapped to Entity: Remote Traveler Support	*Project:* STOC
Mapped to Entity: Remote Traveler Support	*Project:* TRIMARC

Roadway Subsystem

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Roadway Subsystem	*Project:* ARTIMIS
Mapped to Entity: Roadway Subsystem	*Project:* Coordinate Traffic Signal Systems
Mapped to Entity: Roadway Subsystem	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Roadway Subsystem	*Project:* Lexington
Mapped to Entity: Roadway Subsystem	*Project:* Pulaski County Signal Preemption
Mapped to Entity: Roadway Subsystem	*Project:* Signal Preemption for Bowling Green
Mapped to Entity: Roadway Subsystem	*Project:* Signal Preemption for Owensboro
Mapped to Entity: Roadway Subsystem	*Project:* Signal Pre-emption in Flemingsburg
Mapped to Entity: Roadway Subsystem	*Project:* Signal Preemption Paducah
Mapped to Entity: Roadway Subsystem	*Project:* STOC
Mapped to Entity: Roadway Subsystem	*Project:* TRIMARC

RPC

Element Inventory for Region Statewide

Status: Existing
Associated Stakeholder: IFTA, Inc.
Mapped to Entity: Other CVAS — *Project:* CVO

Rural Transit Providers

Status: Existing
Associated Stakeholder: None
Mapped to Entity: Other TRM — *Project:* STOC
Mapped to Entity: Transit Management — *Project:* STOC

RWIS Stations

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet
Mapped to Entity: Roadway Subsystem — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Roadway Subsystem — *Project:* STOC

SAFER

Status: Existing
Associated Stakeholder: FMCSA--USDOT
Mapped to Entity: Other CVAS — *Project:* CVO

Somerset Fire Station

Status: Existing
Associated Stakeholder: Somerset Fire Department
Mapped to Entity: Emergency Management — *Project:* Pulaski County Signal Preemption
Mapped to Entity: Other EM — *Project:* Pulaski County Signal Preemption

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STOC Information Service Provider

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet
Mapped to Entity: Other ISP — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Information Service Provider — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Information Service Provider — *Project:* STOC
Mapped to Entity: Other ISP — *Project:* STOC

STOC Operations Personnel

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet
Mapped to Entity: Traffic Operations Personnel — *Project:* STOC

STOC Traffic Management

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet
Mapped to Entity: Traffic Management — *Project:* STOC
Mapped to Entity: Other TM — *Project:* STOC
Mapped to Entity: Other TM — *Project:* TRIMARC
Mapped to Entity: Traffic Management — *Project:* TRIMARC

TANK Transit Dispatch Center

Status: Existing
Associated Stakeholder: TANK
Mapped to Entity: Other TRM — *Project:* ARTIMIS
Mapped to Entity: Transit Management — *Project:* ARTIMIS

TARC Transit Management

Element Inventory for Region Statewide

Status: Existing
Associated Stakeholder: TARC

Mapped to Entity: Transit Management — *Project:* TRIMARC
Mapped to Entity: Other TRM — *Project:* TRIMARC

Tennessee Historical Incident Data Repository

Status: Existing
Associated Stakeholder: TDOT

Mapped to Entity: Other Archives — *Project:* Cumberland Gap Tunnel

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Tennessee Historical Traffic Data Repository

Status: Existing
Associated Stakeholder: TDOT

Mapped to Entity: Other Archives — *Project:* Cumberland Gap Tunnel

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Traffic Information Network

Status: Existing
Associated Stakeholder: LFUCG Division of Traffic Engineering

Mapped to Entity: Information Service Provider — *Project:* Lexington
Mapped to Entity: Other ISP — *Project:* Lexington

Traffic Information Network Personnel

Status: Existing
Associated Stakeholder: LFUCG Division of Traffic Engineering

Mapped to Entity: ISP Operator — *Project:* Lexington

Transit Driver

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Transit Driver — *Project:* Lexington

Transit User

Status: Existing
Associated Stakeholder: TARC

Mapped to Entity: Transit User — *Project:* Lexington
Mapped to Entity: Transit User — *Project:* TRIMARC

Transit Vehicle

Status: Existing
Associated Stakeholder: TARC

Mapped to Entity: Transit Vehicle Subsystem — *Project:* Lexington
Mapped to Entity: Transit Vehicle Subsystem — *Project:* TRIMARC

Traveler

Status: Existing
Associated Stakeholder: Individual

Mapped to Entity: Traveler — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Traveler — *Project:* Lexington

TRIMARC Archived Data Management

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Archived Data Management Subsystem — *Project:* TRIMARC
Mapped to Entity: Other Archives — *Project:* TRIMARC

TRIMARC Area Emergency Response Agencies

Status: Existing
Associated Stakeholder: None

Mapped to Entity: Other EM	*Project:* TRIMARC
Mapped to Entity: Emergency Management	*Project:* TRIMARC

TRIMARC Data Administrator

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Archived Data Administrator	*Project:* TRIMARC

TRIMARC Freeway Service Patrol Vans

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Emergency Vehicle Subsystem	*Project:* TRIMARC

TRIMARC Information Service Provider

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Other ISP	*Project:* TRIMARC
Mapped to Entity: Information Service Provider	*Project:* TRIMARC

TRIMARC Operations Personnel

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Traffic Operations Personnel	*Project:* TRIMARC

TRIMARC Traffic Management

Status: Existing
Associated Stakeholder: Kentucky Transportation Cabinet

Mapped to Entity: Other TM	*Project:* STOC
Mapped to Entity: Traffic Management	*Project:* STOC
Mapped to Entity: Traffic Management	*Project:* TRIMARC
Mapped to Entity: Other TM	*Project:* TRIMARC

Tunnel Electronic Tag Reader

Status: Planned
Associated Stakeholder: KYTC

Mapped to Entity: Commercial Vehicle Check	*Project:* Cumberland Gap Tunnel

Tunnel Emergency Management Center

Status: Existing
Associated Stakeholder: KYTC District 10

Mapped to Entity: Emergency Management	*Project:* Cumberland Gap Tunnel
Mapped to Entity: Other EM	*Project:* Cumberland Gap Tunnel

Tunnel Emergency Personnel

Status: Existing
Associated Stakeholder: KYTC District 10

Mapped to Entity: Emergency Personnel	*Project:* Cumberland Gap Tunnel

Tunnel Emergency System Operator

Status: Existing
Associated Stakeholder: KYTC District 10

Mapped to Entity: Emergency System Operator — *Project:* Cumberland Gap Tunnel

Tunnel Roadway Subsystem

Status: Existing
Associated Stakeholder: KYTC District 10

Mapped to Entity: Roadway Subsystem — *Project:* Cumberland Gap Tunnel

Vehicle

Status: Planned
Associated Stakeholder: None

Mapped to Entity: Other Vehicle — *Project:* Lexington
Mapped to Entity: Vehicle — *Project:* Lexington
Mapped to Entity: Vehicle — *Project:* TRIMARC
Mapped to Entity: Other Vehicle — *Project:* TRIMARC

Weather Service

Status: Existing
Associated Stakeholder: National Weather Service

Mapped to Entity: Weather Service — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Weather Service — *Project:* Lexington
Mapped to Entity: Weather Service — *Project:* STOC
Mapped to Entity: Weather Service — *Project:* TRIMARC

Yellow Pages Service Providers

Status: Planned
Associated Stakeholder: None

Mapped to Entity: Yellow Pages Service Providers — *Project:* Cumberland Gap Tunnel
Mapped to Entity: Yellow Pages Service Providers — *Project:* STOC

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
Academic / Research Organizations	CGT Historical Incident Data Repository	archived data product requests	Existing
Academic / Research Organizations	CGT Historical Traffic Data Repository	archived data product requests	Existing
Acoustic detectors	Department of Highways District 2	roadway information system status	Existing
ARTIMIS Archived Data Administrator	ARTIMIS Archived Data Management	archive management requests	Planned
ARTIMIS Archived Data Management	ARTIMIS Archived Data Administrator	archive management data	Planned
ARTIMIS Archived Data Management	ARTIMIS Area 911/CAD Centers	archive requests	Planned
ARTIMIS Archived Data Management	ARTIMIS Area 911/CAD Centers	archive status	Planned
ARTIMIS Archived Data Management	ARTIMIS Area Emergency Response Agencies	archive requests	Planned
ARTIMIS Archived Data Management	ARTIMIS Area Emergency Response Agencies	archive status	Planned
ARTIMIS Archived Data Management	ARTIMIS Emergency Management	archive requests	Planned
ARTIMIS Archived Data Management	ARTIMIS Emergency Management	archive status	Planned
ARTIMIS Archived Data Management	ARTIMIS Information Service Provider	archive requests	Planned
ARTIMIS Archived Data Management	ARTIMIS Information Service Provider	archive status	Planned
ARTIMIS Archived Data Management	ARTIMIS Traffic Management	archive requests	Planned
ARTIMIS Archived Data Management	ARTIMIS Traffic Management	archive status	Planned
ARTIMIS Archived Data Management	Boone County 911/CAD	archive requests	Planned
ARTIMIS Archived Data Management	Boone County 911/CAD	archive status	Planned
ARTIMIS Archived Data Management	City of Cincinnati 911/CAD	archive requests	Planned
ARTIMIS Archived Data Management	City of Cincinnati 911/CAD	archive status	Planned
ARTIMIS Archived Data Management	City of Cincinnati Parking Management	archive requests	Planned
ARTIMIS Archived Data Management	City of Cincinnati Parking Management	archive status	Planned
ARTIMIS Archived Data Management	City of Cincinnati Traffic Management	archive requests	Planned
ARTIMIS Archived Data Management	City of Cincinnati Traffic Management	archive status	Planned
ARTIMIS Archived Data Management	Hamilton County 911/CAD	archive requests	Planned
ARTIMIS Archived Data Management	Hamilton County 911/CAD	archive status	Planned
ARTIMIS Archived Data Management	METRO Transit Dispatch Center	archive requests	Planned
ARTIMIS Archived Data Management	METRO Transit Dispatch Center	archive status	Planned
ARTIMIS Archived Data Management	Other Traffic Management	archive requests	Planned
ARTIMIS Archived Data Management	Other Traffic Management	archive status	Planned
ARTIMIS Archived Data Management	Roadway Subsystem	sensor and surveillance control	Existing
ARTIMIS Archived Data Management	TANK Transit Dispatch Center	archive requests	Planned
ARTIMIS Archived Data Management	TANK Transit Dispatch Center	archive status	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Archived Data Management	emergency archive data	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Emergency Management	incident report	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Emergency Management	incident response coordination	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Information Service Provider	incident information	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Traffic Management	emergency traffic control request	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Traffic Management	incident information	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Traffic Management	incident response status	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Traffic Management	remote surveillance control	Planned
ARTIMIS Area 911/CAD Centers	ARTIMIS Traffic Management	resource request	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Archived Data Management	emergency archive data	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Emergency Management	incident report	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Emergency Management	incident response coordination	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Information Service Provider	incident information	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Traffic Management	emergency traffic control request	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Traffic Management	incident information	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Traffic Management	incident response status	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Traffic Management	remote surveillance control	Planned
ARTIMIS Area Emergency Response Agencies	ARTIMIS Traffic Management	resource request	Planned
ARTIMIS Emergency Management	ARTIMIS Archived Data Management	emergency archive data	Planned

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
ARTIMIS Emergency Management	ARTIMIS Area 911/CAD Centers	incident report	Planned
ARTIMIS Emergency Management	ARTIMIS Area 911/CAD Centers	incident response coordination	Planned
ARTIMIS Emergency Management	ARTIMIS Area Emergency Response Agencies	incident report	Planned
ARTIMIS Emergency Management	ARTIMIS Area Emergency Response Agencies	incident response coordination	Planned
ARTIMIS Emergency Management	ARTIMIS Freeway Incident Response Teams	emergency dispatch requests	Planned
ARTIMIS Emergency Management	ARTIMIS Freeway Incident Response Teams	incident command information	Planned
ARTIMIS Emergency Management	ARTIMIS Freeway Incident Response Teams	suggested route	Planned
ARTIMIS Emergency Management	ARTIMIS Information Service Provider	incident information	Existing
ARTIMIS Emergency Management	ARTIMIS Traffic Management	emergency traffic control request	Existing
ARTIMIS Emergency Management	ARTIMIS Traffic Management	incident information	Existing
ARTIMIS Emergency Management	ARTIMIS Traffic Management	incident response status	Existing
ARTIMIS Emergency Management	ARTIMIS Traffic Management	remote surveillance control	Existing
ARTIMIS Emergency Management	ARTIMIS Traffic Management	resource request	Existing
ARTIMIS Emergency Management	Boone County 911/CAD	incident report	Planned
ARTIMIS Emergency Management	Boone County 911/CAD	incident response coordination	Planned
ARTIMIS Emergency Management	City of Cincinnati 911/CAD	incident report	Planned
ARTIMIS Emergency Management	City of Cincinnati 911/CAD	incident response coordination	Planned
ARTIMIS Emergency Management	City of Cincinnati Traffic Management	emergency traffic control request	Planned
ARTIMIS Emergency Management	City of Cincinnati Traffic Management	incident information	Planned
ARTIMIS Emergency Management	City of Cincinnati Traffic Management	incident response status	Planned
ARTIMIS Emergency Management	City of Cincinnati Traffic Management	remote surveillance control	Existing
ARTIMIS Emergency Management	City of Cincinnati Traffic Management	resource request	Planned
ARTIMIS Emergency Management	Hamilton County 911/CAD	incident report	Planned
ARTIMIS Emergency Management	Hamilton County 911/CAD	incident response coordination	Planned
ARTIMIS Emergency Management	METRO Transit Dispatch Center	transit emergency coordination data	Planned
ARTIMIS Emergency Management	Other Traffic Management	emergency traffic control request	Planned
ARTIMIS Emergency Management	Other Traffic Management	incident information	Planned
ARTIMIS Emergency Management	Other Traffic Management	incident response status	Planned
ARTIMIS Emergency Management	Other Traffic Management	remote surveillance control	Planned
ARTIMIS Emergency Management	Other Traffic Management	resource request	Planned
ARTIMIS Emergency Management	TANK Transit Dispatch Center	transit emergency coordination data	Planned
ARTIMIS Freeway Incident Response Teams	ARTIMIS Emergency Management	emergency dispatch response	Planned
ARTIMIS Freeway Incident Response Teams	ARTIMIS Emergency Management	emergency vehicle tracking data	Planned
ARTIMIS Freeway Incident Response Teams	ARTIMIS Emergency Management	incident status	Planned
ARTIMIS Information Service Provider	ARTIMIS Archived Data Management	traveler archive data	Planned
ARTIMIS Information Service Provider	ARTIMIS Area 911/CAD Centers	incident information request	Planned
ARTIMIS Information Service Provider	ARTIMIS Area Emergency Response Agencies	incident information request	Planned
ARTIMIS Information Service Provider	ARTIMIS Emergency Management	incident information request	Existing
ARTIMIS Information Service Provider	ARTIMIS Traffic Management	logged special vehicle route	Existing
ARTIMIS Information Service Provider	ARTIMIS Traffic Management	request for traffic information	Existing
ARTIMIS Information Service Provider	ARTIMIS Traffic Management	road network use	Existing
ARTIMIS Information Service Provider	Boone County 911/CAD	incident information request	Planned
ARTIMIS Information Service Provider	City of Cincinnati 911/CAD	incident information request	Planned
ARTIMIS Information Service Provider	City of Cincinnati Parking Management	parking lot data request	Planned
ARTIMIS Information Service Provider	City of Cincinnati Parking Management	parking reservations request	Planned
ARTIMIS Information Service Provider	City of Cincinnati Traffic Management	logged special vehicle route	Planned
ARTIMIS Information Service Provider	City of Cincinnati Traffic Management	request for traffic information	Planned
ARTIMIS Information Service Provider	City of Cincinnati Traffic Management	road network use	Planned
ARTIMIS Information Service Provider	Hamilton County 911/CAD	incident information request	Planned
ARTIMIS Information Service Provider	METRO Transit Dispatch Center	transit information request	Planned
ARTIMIS Information Service Provider	Other Traffic Management	logged special vehicle route	Planned

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
ARTIMIS Information Service Provider	Other Traffic Management	request for traffic information	Planned
ARTIMIS Information Service Provider	Other Traffic Management	road network use	Planned
ARTIMIS Information Service Provider	Remote Traveler Support Kiosks	broadcast information	Planned
ARTIMIS Information Service Provider	Remote Traveler Support Kiosks	traveler information	Planned
ARTIMIS Information Service Provider	Remote Traveler Support Kiosks	trip plan	Planned
ARTIMIS Information Service Provider	Remote Traveler Support Kiosks	yellow pages information	Planned
ARTIMIS Information Service Provider	TANK Transit Dispatch Center	transit information request	Planned
ARTIMIS Traffic Management	ARTIMIS Archived Data Management	traffic archive data	Planned
ARTIMIS Traffic Management	ARTIMIS Area 911/CAD Centers	current network conditions	Planned
ARTIMIS Traffic Management	ARTIMIS Area 911/CAD Centers	emergency traffic control response	Planned
ARTIMIS Traffic Management	ARTIMIS Area 911/CAD Centers	incident information	Planned
ARTIMIS Traffic Management	ARTIMIS Area 911/CAD Centers	incident information request	Planned
ARTIMIS Traffic Management	ARTIMIS Area 911/CAD Centers	resource deployment status	Planned
ARTIMIS Traffic Management	ARTIMIS Area Emergency Response Agencies	current network conditions	Planned
ARTIMIS Traffic Management	ARTIMIS Area Emergency Response Agencies	emergency traffic control response	Planned
ARTIMIS Traffic Management	ARTIMIS Area Emergency Response Agencies	incident information	Planned
ARTIMIS Traffic Management	ARTIMIS Area Emergency Response Agencies	incident information request	Planned
ARTIMIS Traffic Management	ARTIMIS Area Emergency Response Agencies	resource deployment status	Planned
ARTIMIS Traffic Management	ARTIMIS Emergency Management	current network conditions	Existing
ARTIMIS Traffic Management	ARTIMIS Emergency Management	emergency traffic control response	Existing
ARTIMIS Traffic Management	ARTIMIS Emergency Management	incident information	Existing
ARTIMIS Traffic Management	ARTIMIS Emergency Management	incident information request	Existing
ARTIMIS Traffic Management	ARTIMIS Emergency Management	resource deployment status	Existing
ARTIMIS Traffic Management	ARTIMIS Information Service Provider	request fare and price information	Existing
ARTIMIS Traffic Management	ARTIMIS Information Service Provider	traffic information	Existing
ARTIMIS Traffic Management	Boone County 911/CAD	current network conditions	Planned
ARTIMIS Traffic Management	Boone County 911/CAD	emergency traffic control response	Planned
ARTIMIS Traffic Management	Boone County 911/CAD	incident information	Planned
ARTIMIS Traffic Management	Boone County 911/CAD	incident information request	Planned
ARTIMIS Traffic Management	Boone County 911/CAD	resource deployment status	Planned
ARTIMIS Traffic Management	City of Cincinnati 911/CAD	current network conditions	Planned
ARTIMIS Traffic Management	City of Cincinnati 911/CAD	emergency traffic control response	Planned
ARTIMIS Traffic Management	City of Cincinnati 911/CAD	incident information	Planned
ARTIMIS Traffic Management	City of Cincinnati 911/CAD	incident information request	Planned
ARTIMIS Traffic Management	City of Cincinnati 911/CAD	resource deployment status	Planned
ARTIMIS Traffic Management	City of Cincinnati Traffic Management	traffic control coordination	Planned
ARTIMIS Traffic Management	City of Cincinnati Traffic Management	traffic information coordination	Planned
ARTIMIS Traffic Management	Hamilton County 911/CAD	current network conditions	Planned
ARTIMIS Traffic Management	Hamilton County 911/CAD	emergency traffic control response	Planned
ARTIMIS Traffic Management	Hamilton County 911/CAD	incident information	Planned
ARTIMIS Traffic Management	Hamilton County 911/CAD	incident information request	Planned
ARTIMIS Traffic Management	Hamilton County 911/CAD	resource deployment status	Planned
ARTIMIS Traffic Management	METRO Transit Dispatch Center	request transit information	Planned
ARTIMIS Traffic Management	METRO Transit Dispatch Center	traffic information for transit	Planned
ARTIMIS Traffic Management	Other Traffic Management	traffic control coordination	Planned
ARTIMIS Traffic Management	Other Traffic Management	traffic information coordination	Planned
ARTIMIS Traffic Management	Roadway Subsystem	freeway control data	Existing
ARTIMIS Traffic Management	Roadway Subsystem	roadway information system data	Existing
ARTIMIS Traffic Management	Roadway Subsystem	sensor and surveillance control	Existing
ARTIMIS Traffic Management	STOC Traffic Management	traffic control coordination	Planned
ARTIMIS Traffic Management	STOC Traffic Management	traffic information coordination	Planned

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
ARTIMIS Traffic Management	TANK Transit Dispatch Center	request transit information	Planned
ARTIMIS Traffic Management	TANK Transit Dispatch Center	traffic information for transit	Planned
Boone County 911/CAD	ARTIMIS Archived Data Management	emergency archive data	Planned
Boone County 911/CAD	ARTIMIS Emergency Management	incident report	Planned
Boone County 911/CAD	ARTIMIS Emergency Management	incident response coordination	Planned
Boone County 911/CAD	ARTIMIS Information Service Provider	incident information	Planned
Boone County 911/CAD	ARTIMIS Traffic Management	emergency traffic control request	Planned
Boone County 911/CAD	ARTIMIS Traffic Management	incident information	Planned
Boone County 911/CAD	ARTIMIS Traffic Management	incident response status	Planned
Boone County 911/CAD	ARTIMIS Traffic Management	remote surveillance control	Planned
Boone County 911/CAD	ARTIMIS Traffic Management	resource request	Planned
Bridge monitoring camera	Department of Highways District 11	traffic images	Existing
CGT Area Emergency Response Agencies	CGT Historical Incident Data Repository	emergency archive data	Existing
CGT Area Emergency Response Agencies	CGT Regional GIS Agency	map update request	Planned
CGT Area Emergency Response Agencies	Commercial Fleet Management	HAZMAT information request	Planned
CGT Area Emergency Response Agencies	Cumberland Gap Traffic Management Center	emergency traffic control request	Planned
CGT Area Emergency Response Agencies	Cumberland Gap Traffic Management Center	incident information	Planned
CGT Area Emergency Response Agencies	Cumberland Gap Traffic Management Center	incident response status	Planned
CGT Area Emergency Response Agencies	Cumberland Gap Traffic Management Center	resource request	Planned
CGT Area Emergency Response Agencies	Personal Information Access	emergency acknowledge	Existing
CGT Construction/Maintenance Central Repository	CGT Historical Traffic Data Repository	construction and maintenance archive data	Planned
CGT Construction/Maintenance Central Repository	Cumberland Gap Traffic Management Center	equipment maintenance status	Planned
CGT Construction/Maintenance Central Repository	Cumberland Gap Traffic Management Center	maintenance resource response	Planned
CGT Construction/Maintenance Central Repository	Cumberland Gap Traffic Management Center	work zone status	Planned
CGT Historical Incident Data Repository	Academic / Research Organizations	archived data products	Existing
CGT Historical Incident Data Repository	CGT Area Emergency Response Agencies	archive requests	Planned
CGT Historical Incident Data Repository	CGT Area Emergency Response Agencies	archive status	Planned
CGT Historical Incident Data Repository	CGTMC Archive Data Administrator	archive management data	Planned
CGT Historical Incident Data Repository	Cumberland Gap Traffic Management Center	archive requests	Planned
CGT Historical Incident Data Repository	Cumberland Gap Traffic Management Center	archive status	Planned
CGT Historical Incident Data Repository	Fatal Analysis Reporting System	government reporting system data	Existing
CGT Historical Incident Data Repository	Kentucky Historical Incident Data Repository	archive coordination	Planned
CGT Historical Incident Data Repository	Tennessee Historical Incident Data Repository	archive coordination	Planned
CGT Historical Incident Data Repository	Tunnel Emergency Management Center	archive requests	Planned
CGT Historical Incident Data Repository	Tunnel Emergency Management Center	archive status	Planned
CGT Historical Traffic Data Repository	Academic / Research Organizations	archived data products	Existing
CGT Historical Traffic Data Repository	CGT Construction/Maintenance Central Repository	archive requests	Planned
CGT Historical Traffic Data Repository	CGT Construction/Maintenance Central Repository	archive status	Planned
CGT Historical Traffic Data Repository	CGTMC Archive Data Administrator	archive management data	Planned
CGT Historical Traffic Data Repository	Cumberland Gap Traffic Management Center	archive requests	Planned
CGT Historical Traffic Data Repository	Cumberland Gap Traffic Management Center	archive status	Planned
CGT Historical Traffic Data Repository	Highway Performance Monitoring System	government reporting system data	Existing
CGT Historical Traffic Data Repository	Kentucky Historical Traffic Data Repository	archive coordination	Planned
CGT Historical Traffic Data Repository	Roadway Subsystem	sensor and surveillance control	Planned
CGT Historical Traffic Data Repository	RWIS Stations	sensor and surveillance control	Planned
CGT Historical Traffic Data Repository	Tennessee Historical Traffic Data Repository	archive coordination	Planned
CGT Historical Traffic Data Repository	Tunnel Roadway Subsystem	sensor and surveillance control	Planned
CGT Regional GIS Agency	CGT Area Emergency Response Agencies	map updates	Planned
CGT Regional GIS Agency	Cumberland Gap Information Service Provider	map updates	Planned
CGT Regional GIS Agency	Cumberland Gap Traffic Management Center	map updates	Planned
CGT Regional GIS Agency	Remote Traveler Support Kiosks	map updates	Planned

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
CGT Regional GIS Agency	Tunnel Emergency Management Center	map updates	Planned
CGTMC Archive Data Administrator	CGT Historical Incident Data Repository	archive management requests	Planned
CGTMC Archive Data Administrator	CGT Historical Traffic Data Repository	archive management requests	Planned
CGTMC Operators / Dispatcher	Cumberland Gap Traffic Management Center	traffic operator inputs	Planned
City of Cincinnati 911/CAD	ARTIMIS Archived Data Management	emergency archive data	Planned
City of Cincinnati 911/CAD	ARTIMIS Emergency Management	incident report	Planned
City of Cincinnati 911/CAD	ARTIMIS Emergency Management	incident response coordination	Planned
City of Cincinnati 911/CAD	ARTIMIS Information Service Provider	incident information	Planned
City of Cincinnati 911/CAD	ARTIMIS Traffic Management	emergency traffic control request	Planned
City of Cincinnati 911/CAD	ARTIMIS Traffic Management	incident information	Planned
City of Cincinnati 911/CAD	ARTIMIS Traffic Management	incident response status	Planned
City of Cincinnati 911/CAD	ARTIMIS Traffic Management	remote surveillance control	Planned
City of Cincinnati 911/CAD	ARTIMIS Traffic Management	resource request	Planned
City of Cincinnati Parking Management	ARTIMIS Archived Data Management	parking archive data	Planned
City of Cincinnati Parking Management	ARTIMIS Information Service Provider	parking information	Planned
City of Cincinnati Parking Management	ARTIMIS Information Service Provider	parking lot reservation confirmation	Planned
City of Cincinnati Traffic Management	ARTIMIS Archived Data Management	traffic archive data	Planned
City of Cincinnati Traffic Management	ARTIMIS Emergency Management	current network conditions	Planned
City of Cincinnati Traffic Management	ARTIMIS Emergency Management	emergency traffic control response	Planned
City of Cincinnati Traffic Management	ARTIMIS Emergency Management	incident information	Planned
City of Cincinnati Traffic Management	ARTIMIS Emergency Management	incident information request	Planned
City of Cincinnati Traffic Management	ARTIMIS Emergency Management	resource deployment status	Planned
City of Cincinnati Traffic Management	ARTIMIS Information Service Provider	request fare and price information	Planned
City of Cincinnati Traffic Management	ARTIMIS Information Service Provider	traffic information	Planned
City of Cincinnati Traffic Management	ARTIMIS Traffic Management	traffic control coordination	Planned
City of Cincinnati Traffic Management	ARTIMIS Traffic Management	traffic information coordination	Planned
City of Cincinnati Traffic Management	Roadway Subsystem	roadway information system data	Planned
City of Cincinnati Traffic Management	Roadway Subsystem	sensor and surveillance control	Existing
City of Cincinnati Traffic Management	Roadway Subsystem	signal control data	Existing
Commercial Fleet Management	CGT Area Emergency Response Agencies	HAZMAT information	Planned
Commercial Fleet Management	Commercial Vehicle Administration	credential application	Existing
Commercial Fleet Management	Commercial Vehicle Administration	information request	Existing
Commercial Fleet Management	Commercial Vehicle Administration	tax filing, audit data	Existing
Commercial Fleet Management	Payment Instrument	request for payment	Existing
Commercial Fleet Management	Tunnel Emergency Management Center	HAZMAT information	Planned
Commercial Vehicle	Commercial Vehicle Inspection Facility	CVO weight and presence	Existing
Commercial Vehicle	Remote Monitoring System	CVO weight and presence--remote	Existing
Commercial Vehicle Administration	Commercial Fleet Management	activity reports	Existing
Commercial Vehicle Administration	Commercial Fleet Management	electronic credentials	Existing
Commercial Vehicle Administration	Commercial Fleet Management	Tax default notification	Existing
Commercial Vehicle Administration	Commercial Vehicle Inspection Facility	credentials information	Existing
Commercial Vehicle Administration	Commercial Vehicle Inspection Facility	CVO database update	Existing
Commercial Vehicle Administration	Commercial Vehicle Inspection Facility	safety information	Existing
Commercial Vehicle Administration	Commercial Vehicle Inspection Facility	System configuration	Existing
Commercial Vehicle Administration	CVO Information Requestor	credentials and safety information response	Existing
Commercial Vehicle Administration	Financial Institution	payment request	Existing
Commercial Vehicle Administration	IRP Clearinghouse	CVAS information exchange	Existing
Commercial Vehicle Administration	MARS	Accounting Entry	Existing
Commercial Vehicle Administration	Other CVAS	CVAS information exchange	Planned
Commercial Vehicle Administration	RPC	CVAS information exchange	Existing
Commercial Vehicle Administration	SAFER	CVAS information exchange	Existing

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
Commercial Vehicle Administration	Tunnel Electronic Tag Reader	CVO database update	Planned
Commercial Vehicle Inspection Facility	Commercial Vehicle Administration	credentials information request	Existing
Commercial Vehicle Inspection Facility	Commercial Vehicle Administration	roadside log update	Existing
Commercial Vehicle Inspection Facility	Commercial Vehicle Administration	safety information request	Existing
Commercial Vehicle Inspection Facility	Commercial Vehicle Driver	CVO Pull in Message	Existing
Commercial Vehicle Inspection Facility	Commercial Vehicle Subsystem	pass/pull-in	Existing
Commercial Vehicle Inspection Facility	Commercial Vehicle Subsystem	screening request	Existing
Commercial Vehicle Inspection Facility	CVO Inspector	CVO inspector information	Existing
Commercial Vehicle Subsystem	Commercial Vehicle Driver	CVO Pull in Message	Existing
Commercial Vehicle Subsystem	Commercial Vehicle Inspection Facility	screening data	Existing
Commercial Vehicle Subsystem	Tunnel Electronic Tag Reader	screening data	Planned
Commonwealth EOC	Kentucky State Police	incident report	Existing
Commonwealth EOC	Kentucky State Police	incident response coordination	Existing
Commonwealth EOC	KVE Emergency Management	incident report	Existing
Commonwealth EOC	KVE Emergency Management	incident response coordination	Existing
Commonwealth EOC	STOC Information Service Provider	incident information	Existing
Commonwealth EOC	STOC Information Service Provider	logged special vehicle route-2	Existing
Commonwealth EOC	STOC Traffic Management	incident information	Existing
Cumberland Gap Information Service Provider	CGT Regional GIS Agency	map update request	Planned
Cumberland Gap Information Service Provider	Cumberland Gap ISP Operator	ISP operating parameters	Planned
Cumberland Gap Information Service Provider	Cumberland Gap Traffic Management Center	logged special vehicle route	Planned
Cumberland Gap Information Service Provider	Cumberland Gap Traffic Management Center	request for traffic information	Planned
Cumberland Gap Information Service Provider	Cumberland Gap Traffic Management Center	road network use	Planned
Cumberland Gap Information Service Provider	Media	traveler information for media	Planned
Cumberland Gap Information Service Provider	Personal Information Access	traveler information	Planned
Cumberland Gap Information Service Provider	Personal Information Access	yellow pages information	Planned
Cumberland Gap Information Service Provider	Private commercial information providers	ISP coordination	Planned
Cumberland Gap Information Service Provider	Remote Traveler Support Kiosks	traveler information	Planned
Cumberland Gap Information Service Provider	Remote Traveler Support Kiosks	yellow pages information	Planned
Cumberland Gap Information Service Provider	STOC Information Service Provider	ISP coordination	Planned
Cumberland Gap Information Service Provider	Yellow Pages Service Providers	provider profile confirm	Planned
Cumberland Gap Information Service Provider	Yellow Pages Service Providers	travel service request	Planned
Cumberland Gap ISP Operator	Cumberland Gap Information Service Provider	ISP operating parameter updates	Planned
Cumberland Gap Traffic Management Center	CGT Area Emergency Response Agencies	current network conditions	Planned
Cumberland Gap Traffic Management Center	CGT Area Emergency Response Agencies	emergency traffic control response	Planned
Cumberland Gap Traffic Management Center	CGT Area Emergency Response Agencies	incident information	Planned
Cumberland Gap Traffic Management Center	CGT Area Emergency Response Agencies	incident information request	Planned
Cumberland Gap Traffic Management Center	CGT Area Emergency Response Agencies	resource deployment status	Planned
Cumberland Gap Traffic Management Center	CGT Construction/Maintenance Central Repository	closure coordination	Planned
Cumberland Gap Traffic Management Center	CGT Construction/Maintenance Central Repository	maintenance resource request	Planned
Cumberland Gap Traffic Management Center	CGT Construction/Maintenance Central Repository	traffic equipment status	Planned
Cumberland Gap Traffic Management Center	CGT Historical Incident Data Repository	traffic archive data	Planned
Cumberland Gap Traffic Management Center	CGT Historical Traffic Data Repository	traffic archive data	Planned
Cumberland Gap Traffic Management Center	CGT Regional GIS Agency	map update request	Planned
Cumberland Gap Traffic Management Center	CGTMC Operators / Dispatcher	traffic operator data	Planned
Cumberland Gap Traffic Management Center	Cumberland Gap Information Service Provider	request fare and price information	Planned
Cumberland Gap Traffic Management Center	Cumberland Gap Information Service Provider	traffic information	Planned
Cumberland Gap Traffic Management Center	Event Promoters	event confirmation	Planned
Cumberland Gap Traffic Management Center	Media	traffic information for media	Planned
Cumberland Gap Traffic Management Center	Roadway Subsystem	freeway control data	Planned
Cumberland Gap Traffic Management Center	Roadway Subsystem	roadway information system data	Planned

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SourceElement	DestinationElement	FlowName	FlowStatus
Cumberland Gap Traffic Management Center	Roadway Subsystem	sensor and surveillance control	Planned
Cumberland Gap Traffic Management Center	RWIS Stations	freeway control data	Planned
Cumberland Gap Traffic Management Center	RWIS Stations	sensor and surveillance control	Planned
Cumberland Gap Traffic Management Center	Tunnel Emergency Management Center	current network conditions	Planned
Cumberland Gap Traffic Management Center	Tunnel Emergency Management Center	emergency traffic control response	Planned
Cumberland Gap Traffic Management Center	Tunnel Emergency Management Center	incident information	Planned
Cumberland Gap Traffic Management Center	Tunnel Emergency Management Center	incident information request	Planned
Cumberland Gap Traffic Management Center	Tunnel Emergency Management Center	resource deployment status	Planned
Cumberland Gap Traffic Management Center	Tunnel Roadway Subsystem	freeway control data	Planned
Cumberland Gap Traffic Management Center	Tunnel Roadway Subsystem	roadway information system data	Planned
Cumberland Gap Traffic Management Center	Tunnel Roadway Subsystem	sensor and surveillance control	Planned
CVO Information Requestor	Commercial Vehicle Administration	credentials and safety information request	Existing
CVO Inspector	Commercial Vehicle Inspection Facility	CVC override mode	Existing
CVO Inspector	Commercial Vehicle Inspection Facility	CVO inspector input	Existing
CVO Inspector	Commercial Vehicle Inspection Facility	System configuration	Existing
Department of Highways District 1	Roadway Subsystem	signal control data	Existing
Department of Highways District 11	Anti-Icing System	freeway control data	Existing
Department of Highways District 11	Anti-Icing System	Treatment Control Data	Existing
Department of Highways District 11	Bridge monitoring camera	freeway control data	Existing
Department of Highways District 11	Bridge monitoring camera	sensor and surveillance control	Existing
Department of Highways District 2	Acoustic detectors	Status Request	Existing
Department of Highways District 2	EIS wide beam radar	Status Request	Existing
Department of Highways District 2	Fiber Optic Message Sign	Status Request	Existing
Department of Highways District 2	Roadway Subsystem	signal control data	Existing
Department of Highways District 3	Roadway Subsystem	signal control data	Existing
Department of Highways District 8	Roadway Subsystem	signal control data	Existing
Department of Highways District 9	Roadway Subsystem	signal control data	Existing
EIS wide beam radar	Department of Highways District 2	roadway information system status	Existing
Emergency Vehicle	Fire and Emergency Services Personnel	dispatch information	Existing
Emergency Vehicle	Fire and Emergency Services Personnel	incident command information presentation	Existing
Emergency Vehicle	KVE Emergency Management	incident status	Existing
Emergency Vehicle	Lexington Emergency Management Center	emergency dispatch response	Existing
Emergency Vehicle	Lexington Emergency Management Center	emergency vehicle tracking data	Planned
Emergency Vehicle	Lexington Emergency Management Center	incident command request	Existing
Emergency Vehicle	Lexington Emergency Management Center	incident status	Existing
Emergency Vehicle	Police Personnel	dispatch information	Planned
Emergency Vehicle	Police Personnel	incident command information presentation	Existing
Emergency Vehicle	TRIMARC Area Emergency Response Agencies	incident status	Existing
Emergency Vehicle	Tunnel Emergency Management Center	incident command request	Existing
Emergency Vehicle	Tunnel Emergency Management Center	incident status	Existing
Emergency Vehicle	Tunnel Emergency Personnel	incident command information presentation	Existing
Emergency Vehicle Personnel	Fleming County Dispatch Center	Vehicle location data	Existing
Event Promoters	Cumberland Gap Traffic Management Center	event plans	Planned
Event Promoters	Lexington Emergency Management Center	event plans	Existing
Event Promoters	Lexington Traffic Management	event plans	Existing
Event Promoters	STOC Traffic Management	event plans	Existing
Fiber Optic Message Sign	Basic Vehicle	broadcast advisories	Existing
Fiber Optic Message Sign	Department of Highways District 2	roadway information system status	Existing
Financial Institution	Commercial Vehicle Administration	transaction status	Existing
Financial Institution	Lexington Transit Management Center	transaction status	Planned
Financial Institution	Private commercial information providers	transaction status	Planned

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SourceElement	DestinationElement	FlowName	FlowStatus
Fire and Emergency Services Personnel	Emergency Vehicle	emergency personnel inputs	Existing
Fire Vehicles	Roadway Subsystem	local signal preemption request	Existing
Fleming County Dispatch Center	Roadway Subsystem	signal preemption request	Existing
Government Reporting Systems	Lexington Archived Data Management Center	government reporting data receipt	Existing
Hamilton County 911/CAD	ARTIMIS Archived Data Management	emergency archive data	Planned
Hamilton County 911/CAD	ARTIMIS Emergency Management	incident report	Planned
Hamilton County 911/CAD	ARTIMIS Emergency Management	incident response coordination	Planned
Hamilton County 911/CAD	ARTIMIS Information Service Provider	incident information	Planned
Hamilton County 911/CAD	ARTIMIS Traffic Management	emergency traffic control request	Planned
Hamilton County 911/CAD	ARTIMIS Traffic Management	incident information	Planned
Hamilton County 911/CAD	ARTIMIS Traffic Management	incident response status	Planned
Hamilton County 911/CAD	ARTIMIS Traffic Management	remote surveillance control	Planned
Hamilton County 911/CAD	ARTIMIS Traffic Management	resource request	Planned
Indianapolis Traffic Management	STOC Traffic Management	traffic control coordination	Planned
Indianapolis Traffic Management	STOC Traffic Management	traffic information coordination	Planned
INDOT District Maintenance	TRIMARC Traffic Management	closure coordination-2	Existing
INDOT District Maintenance	TRIMARC Traffic Management	maintenance resource response	Existing
IRP Clearinghouse	Commercial Vehicle Administration	CVAS information exchange	Existing
Jefferson County EMA	TRIMARC Information Service Provider	incident information	Existing
Kentucky Historical Incident Data Repository	CGT Historical Incident Data Repository	archive coordination	Planned
Kentucky Historical Traffic Data Repository	CGT Historical Traffic Data Repository	archive coordination	Planned
Kentucky State Police	Commonwealth EOC	incident report	Existing
Kentucky State Police	Commonwealth EOC	incident response coordination	Existing
Kentucky State Police	KVE Emergency Management	incident report	Existing
Kentucky State Police	KVE Emergency Management	incident response coordination	Existing
KIPDA Data System	TRIMARC Archived Data Management	archived data product requests	Planned
KVE Emergency Management	Commonwealth EOC	incident report	Existing
KVE Emergency Management	Commonwealth EOC	incident response coordination	Existing
KVE Emergency Management	Emergency Vehicle	emergency dispatch requests	Existing
KVE Emergency Management	Emergency Vehicle	incident command information	Existing
KVE Emergency Management	Kentucky State Police	incident report	Existing
KVE Emergency Management	Kentucky State Police	incident response coordination	Existing
KVE Emergency Management	STOC Information Service Provider	incident information	Existing
KVE Emergency Management	STOC Information Service Provider	logged special vehicle route-2	Existing
KVE Emergency Management	STOC Traffic Management	incident information	Existing
KVE Emergency Management	STOC Traffic Management	remote surveillance control	Existing
KVE Emergency Management	STOC Traffic Management	resource request	Existing
KYTC District Maintenance	STOC Traffic Management	closure coordination-2	Existing
KYTC District Maintenance	STOC Traffic Management	maintenance resource response	Existing
KYTC District Maintenance	TRIMARC Traffic Management	closure coordination-2	Existing
KYTC District Maintenance	TRIMARC Traffic Management	maintenance resource response	Existing
KYTC Division of Traffic	Roadway Subsystem	signal control data	Existing
Lexington Archived Data Administrator	Lexington Archived Data Management Center	archive management requests	Existing
Lexington Archived Data Management Center	Government Reporting Systems	government reporting system data	Existing
Lexington Archived Data Management Center	Lexington Archived Data Administrator	archive management data	Existing
Lexington Archived Data Management Center	Lexington Archived Data User Systems	archive analysis results	Existing
Lexington Archived Data Management Center	Lexington Archived Data User Systems	archive request confirmation	Existing
Lexington Archived Data Management Center	Lexington Archived Data User Systems	archived data products	Existing
Lexington Archived Data Management Center	Lexington Traffic Management	archive requests	Existing
Lexington Archived Data Management Center	Lexington Traffic Management	archive status	Existing
Lexington Archived Data Management Center	Weather Service	archive requests	Existing

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SourceElement	DestinationElement	FlowName	FlowStatus
Lexington Archived Data Management Center	Weather Service	archive status	Existing
Lexington Archived Data User Systems	Lexington Archived Data Management Center	archive analysis requests	Existing
Lexington Archived Data User Systems	Lexington Archived Data Management Center	archived data product requests	Existing
Lexington Emergency Management Center	Emergency Vehicle	emergency dispatch requests	Existing
Lexington Emergency Management Center	Emergency Vehicle	incident command information	Existing
Lexington Emergency Management Center	Emergency Vehicle	suggested route	Existing
Lexington Emergency Management Center	Event Promoters	event confirmation	Existing
Lexington Emergency Management Center	Lexington Emergency Management Center Personnel	emergency operations status	Existing
Lexington Emergency Management Center	Lexington Traffic Management	incident information	Existing
Lexington Emergency Management Center	Lexington Traffic Management	incident response status	Existing
Lexington Emergency Management Center	Lexington Traffic Management	remote surveillance control	Existing
Lexington Emergency Management Center	Lexington Traffic Management	resource request	Existing
Lexington Emergency Management Center	Lexington Transit Management Center	transit emergency coordination data	Existing
Lexington Emergency Management Center	Media	incident information for media	Existing
Lexington Emergency Management Center	Traffic Information Network	incident information	Existing
Lexington Emergency Management Center Personnel	Lexington Emergency Management Center	emergency operations request	Existing
Lexington TMC Operations Personnel	Lexington Traffic Management	ISP operating parameter updates	Existing
Lexington TMC Operations Personnel	Lexington Traffic Management	traffic operator inputs	Existing
Lexington TMC Operations Personnel	Traffic Information Network	ISP operating parameter updates	Existing
Lexington Traffic Management	Event Promoters	event confirmation	Existing
Lexington Traffic Management	Lexington Archived Data Management Center	traffic archive data	Existing
Lexington Traffic Management	Lexington Archived Data Management Center	traveler archive data	Existing
Lexington Traffic Management	Lexington Emergency Management Center	current network conditions	Existing
Lexington Traffic Management	Lexington Emergency Management Center	incident information	Existing
Lexington Traffic Management	Lexington Emergency Management Center	incident information request	Existing
Lexington Traffic Management	Lexington Emergency Management Center	resource deployment status	Existing
Lexington Traffic Management	Lexington TMC Operations Personnel	ISP operating parameters	Existing
Lexington Traffic Management	Lexington TMC Operations Personnel	traffic operator data	Existing
Lexington Traffic Management	Lexington Transit Management Center	demand responsive transit request	Existing
Lexington Traffic Management	Lexington Transit Management Center	request transit information	Planned
Lexington Traffic Management	Lexington Transit Management Center	traffic information for transit	Existing
Lexington Traffic Management	Lexington Transit Management Center	transit information request	Planned
Lexington Traffic Management	LFUCG Division of Streets and Roads	closure coordination	Existing
Lexington Traffic Management	LFUCG Division of Streets and Roads	maintenance resource request	Existing
Lexington Traffic Management	LFUCG Division of Streets and Roads	traffic equipment status	Existing
Lexington Traffic Management	Media	traffic information for media	Existing
Lexington Traffic Management	Media	traveler information for media	Existing
Lexington Traffic Management	Other Traffic Management	traffic control coordination	Planned
Lexington Traffic Management	Other Traffic Management	traffic information coordination	Existing
Lexington Traffic Management	Personal Information Access	broadcast information	Existing
Lexington Traffic Management	Personal Information Access	traveler information	Existing
Lexington Traffic Management	Remote Traveler Support Kiosks	broadcast information	Existing
Lexington Traffic Management	Remote Traveler Support Kiosks	traveler information	Existing
Lexington Traffic Management	Roadway Subsystem	roadway information system data	Existing
Lexington Traffic Management	Roadway Subsystem	sensor and surveillance control	Existing
Lexington Traffic Management	Roadway Subsystem	signal control data	Planned
Lexington Traffic Management	STOC Traffic Management	traffic control coordination	Planned
Lexington Traffic Management	STOC Traffic Management	traffic information coordination	Planned
Lexington Traffic Management	Traffic Information Network	ISP coordination	Existing
Lexington Traffic Management	Traffic Information Network	traffic information	Existing
Lexington Traffic Management	Traffic Information Network Personnel	ISP operating parameters	Existing

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SourceElement	DestinationElement	FlowName	FlowStatus
Lexington Traffic Management	Vehicle	broadcast information	Existing
Lexington Traffic Management	Vehicle	traveler information	Existing
Lexington Transit Management Center	Financial Institution	payment request	Planned
Lexington Transit Management Center	Lexington Emergency Management Center	transit emergency data	Existing
Lexington Transit Management Center	Lexington Police Department	violation notification	Existing
Lexington Transit Management Center	Lexington Traffic Management	demand responsive transit plan	Existing
Lexington Transit Management Center	Lexington Traffic Management	transit and fare schedules	Planned
Lexington Transit Management Center	Lexington Traffic Management	transit incident information	Existing
Lexington Transit Management Center	Lexington Traffic Management	transit request confirmation	Existing
Lexington Transit Management Center	Lexington Transit Mgmt. Center Personnel	transit operations planning data	Existing
Lexington Transit Management Center	Lexington Transit Mgmt. Center Personnel	transit operator display	Existing
Lexington Transit Management Center	Media	transit incidents for media	Existing
Lexington Transit Management Center	Media	transit information for media	Existing
Lexington Transit Management Center	Remote Traveler Support Kiosks	transit fare payment responses	Planned
Lexington Transit Management Center	Remote Traveler Support Kiosks	transit traveler information	Planned
Lexington Transit Management Center	Traffic Information Network	demand responsive transit plan	Existing
Lexington Transit Management Center	Traffic Information Network	transit and fare schedules	Planned
Lexington Transit Management Center	Traffic Information Network	transit incident information	Existing
Lexington Transit Management Center	Traffic Information Network	transit request confirmation	Existing
Lexington Transit Management Center	Transit Driver	route assignment	Planned
Lexington Transit Management Center	Transit Vehicle	bad tag list	Planned
Lexington Transit Management Center	Transit Vehicle	driver instructions	Planned
Lexington Transit Management Center	Transit Vehicle	fare management information	Planned
Lexington Transit Management Center	Transit Vehicle	transit schedule information	Existing
Lexington Transit Management Center	Transit Vehicle	transit traveler information	Planned
Lexington Transit Mgmt. Center Personnel	Lexington Transit Management Center	transit fleet manager inputs	Existing
Lexington Transit Mgmt. Center Personnel	Lexington Transit Management Center	transit operator management data	Planned
LFUCG Division of Streets and Roads	Lexington Traffic Management	equipment maintenance status	Existing
LFUCG Division of Streets and Roads	Lexington Traffic Management	maintenance resource response	Existing
LFUCG Division of Streets and Roads	Lexington Traffic Management	work zone status	Existing
Location Data Source	Vehicle	position fix	Planned
MCMIS	Commercial Vehicle Administration	CVAS information exchange	Existing
Media	Cumberland Gap Information Service Provider	external reports	Planned
Media	Cumberland Gap Information Service Provider	media information request	Planned
Media	Cumberland Gap Traffic Management Center	external reports	Planned
Media	Cumberland Gap Traffic Management Center	media information request	Planned
Media	Lexington Emergency Management Center	media information request	Existing
Media	Lexington Traffic Management	external reports	Existing
Media	Lexington Traffic Management	media information request	Existing
Media	Lexington Transit Management Center	media information request	Existing
Media	Traffic Information Network	media information request	Existing
METRO Transit Dispatch Center	ARTIMIS Archived Data Management	transit archive data	Planned
METRO Transit Dispatch Center	ARTIMIS Information Service Provider	demand responsive transit plan	Planned
METRO Transit Dispatch Center	ARTIMIS Information Service Provider	transit and fare schedules	Planned
METRO Transit Dispatch Center	ARTIMIS Information Service Provider	transit incident information	Planned
METRO Transit Dispatch Center	ARTIMIS Information Service Provider	transit request confirmation	Planned
METRO Transit Dispatch Center	ARTIMIS Traffic Management	transit system data	Planned
Nashville Traffic Management	STOC Traffic Management	traffic control coordination	Planned
Nashville Traffic Management	STOC Traffic Management	traffic information coordination	Planned
Other CVAS	Commercial Vehicle Administration	CVAS information exchange	Planned
Other EM	TRIMARC Area Emergency Response Agencies	incident report	Existing

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SourceElement	DestinationElement	FlowName	FlowStatus
Other EM	TRIMARC Area Emergency Response Agencies	incident response coordination	Existing
Other Information Service Providers	Private commercial information providers	ISP coordination	Planned
Other Traffic Management	ARTIMIS Archived Data Management	traffic archive data	Planned
Other Traffic Management	ARTIMIS Emergency Management	current network conditions	Planned
Other Traffic Management	ARTIMIS Emergency Management	emergency traffic control response	Planned
Other Traffic Management	ARTIMIS Emergency Management	incident information	Planned
Other Traffic Management	ARTIMIS Emergency Management	incident information request	Planned
Other Traffic Management	ARTIMIS Emergency Management	resource deployment status	Planned
Other Traffic Management	ARTIMIS Information Service Provider	request fare and price information	Planned
Other Traffic Management	ARTIMIS Information Service Provider	traffic information	Planned
Other Traffic Management	ARTIMIS Traffic Management	traffic control coordination	Planned
Other Traffic Management	ARTIMIS Traffic Management	traffic information coordination	Planned
Other Traffic Management	Lexington Traffic Management	traffic control coordination	Planned
Other Traffic Management	Lexington Traffic Management	traffic information coordination	Existing
Other Traffic Management	Roadway Subsystem	roadway information system data	Planned
Other Traffic Management	Roadway Subsystem	sensor and surveillance control	Existing
Other Traffic Management	Roadway Subsystem	signal control data	Existing
Paducah Fire Stations	Roadway Subsystem	signal preemption request	Existing
Payment Instrument	Commercial Fleet Management	payment	Existing
Payment Instrument	Remote Traveler Support Kiosks	payment	Existing
Payment Instrument	Transit Vehicle	payment	Planned
Pedestrians	Roadway Subsystem	crossing call	Existing
Personal Information Access	CGT Area Emergency Response Agencies	emergency notification	Existing
Personal Information Access	Cumberland Gap Information Service Provider	traveler profile	Planned
Personal Information Access	Cumberland Gap Information Service Provider	traveler request	Planned
Personal Information Access	Cumberland Gap Information Service Provider	yellow pages request	Planned
Personal Information Access	Lexington Traffic Management	traveler request	Existing
Personal Information Access	Lexington Transit Management Center	transit information user request	Existing
Personal Information Access	Payment Instrument	request for payment	Existing
Personal Information Access	Private commercial information providers	yellow pages request	Planned
Personal Information Access	STOC Information Service Provider	traveler request	Existing
Personal Information Access	Traffic Information Network	traveler request	Existing
Personal Information Access	Traveler	traveler interface updates	Planned
Personal Information Access	TRIMARC Information Service Provider	traveler request	Existing
Personal Information Access	Tunnel Emergency Management Center	emergency notification	Planned
Police Personnel	Emergency Vehicle	emergency personnel inputs	Planned
Private commercial information providers	Cumberland Gap Information Service Provider	ISP coordination	Planned
Private commercial information providers	Financial Institution	payment request	Planned
Private commercial information providers	Other Information Service Providers	ISP coordination	Planned
Private commercial information providers	Personal Information Access	yellow pages information	Planned
Private commercial information providers	Yellow Pages Service Providers	travel service request	Planned
Remote Monitoring System	Commercial Vehicle Inspection Facility	Vehicle Images	Existing
Remote Traveler Support Kiosks	ARTIMIS Information Service Provider	traveler request	Planned
Remote Traveler Support Kiosks	CGT Regional GIS Agency	map update request	Planned
Remote Traveler Support Kiosks	Cumberland Gap Information Service Provider	traveler request	Planned
Remote Traveler Support Kiosks	Cumberland Gap Information Service Provider	yellow pages request	Planned
Remote Traveler Support Kiosks	Lexington Traffic Management	traveler request	Existing
Remote Traveler Support Kiosks	Lexington Transit Management Center	secure area surveillance data	Existing
Remote Traveler Support Kiosks	Lexington Transit Management Center	transit fare payment requests	Planned
Remote Traveler Support Kiosks	Lexington Transit Management Center	transit information user request	Planned
Remote Traveler Support Kiosks	Payment Instrument	request for payment	Existing

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SourceElement	DestinationElement	FlowName	FlowStatus
Remote Traveler Support Kiosks	Traffic Information Network	traveler request	Existing
Remote Traveler Support Kiosks	Transit User	transit user fare status	Planned
Remote Traveler Support Kiosks	Transit User	transit user outputs	Planned
Remote Traveler Support Kiosks	Traveler	traveler interface updates	Planned
Roadway Subsystem	ARTIMIS Archived Data Management	roadside archive data	Planned
Roadway Subsystem	ARTIMIS Traffic Management	environmental conditions	Planned
Roadway Subsystem	ARTIMIS Traffic Management	fault reports	Existing
Roadway Subsystem	ARTIMIS Traffic Management	freeway control status	Existing
Roadway Subsystem	ARTIMIS Traffic Management	incident data	Existing
Roadway Subsystem	ARTIMIS Traffic Management	request for right-of-way	Existing
Roadway Subsystem	ARTIMIS Traffic Management	roadway information system status	Existing
Roadway Subsystem	ARTIMIS Traffic Management	signal control status	Planned
Roadway Subsystem	ARTIMIS Traffic Management	traffic flow	Existing
Roadway Subsystem	ARTIMIS Traffic Management	traffic images	Existing
Roadway Subsystem	Basic Vehicle	broadcast advisories	Planned
Roadway Subsystem	CGT Historical Traffic Data Repository	roadside archive data	Planned
Roadway Subsystem	City of Cincinnati Traffic Management	fault reports	Existing
Roadway Subsystem	City of Cincinnati Traffic Management	request for right-of-way	Planned
Roadway Subsystem	City of Cincinnati Traffic Management	roadway information system status	Planned
Roadway Subsystem	City of Cincinnati Traffic Management	signal control status	Existing
Roadway Subsystem	City of Cincinnati Traffic Management	traffic flow	Existing
Roadway Subsystem	City of Cincinnati Traffic Management	traffic images	Planned
Roadway Subsystem	Cumberland Gap Traffic Management Center	fault reports	Planned
Roadway Subsystem	Cumberland Gap Traffic Management Center	freeway control status	Planned
Roadway Subsystem	Cumberland Gap Traffic Management Center	incident data	Planned
Roadway Subsystem	Cumberland Gap Traffic Management Center	roadway information system status	Planned
Roadway Subsystem	Cumberland Gap Traffic Management Center	traffic flow	Planned
Roadway Subsystem	Cumberland Gap Traffic Management Center	traffic images	Planned
Roadway Subsystem	Driver	driver information	Planned
Roadway Subsystem	Lexington Traffic Management	environmental conditions	Existing
Roadway Subsystem	Lexington Traffic Management	fault reports	Existing
Roadway Subsystem	Lexington Traffic Management	incident data	Existing
Roadway Subsystem	Lexington Traffic Management	request for right-of-way	Planned
Roadway Subsystem	Lexington Traffic Management	reversible lane status	Planned
Roadway Subsystem	Lexington Traffic Management	roadway information system status	Existing
Roadway Subsystem	Lexington Traffic Management	signal control status	Planned
Roadway Subsystem	Lexington Traffic Management	traffic flow	Existing
Roadway Subsystem	Lexington Traffic Management	traffic images	Existing
Roadway Subsystem	Other Traffic Management	fault reports	Existing
Roadway Subsystem	Other Traffic Management	request for right-of-way	Planned
Roadway Subsystem	Other Traffic Management	roadway information system status	Planned
Roadway Subsystem	Other Traffic Management	signal control status	Existing
Roadway Subsystem	Other Traffic Management	traffic flow	Existing
Roadway Subsystem	Other Traffic Management	traffic images	Planned
Roadway Subsystem	Pedestrians	crossing permission	Existing
Roadway Subsystem	STOC Traffic Management	environmental conditions	Existing
Roadway Subsystem	STOC Traffic Management	roadway information system status	Planned
Roadway Subsystem	TRIMARC Traffic Management	incident data	Planned
Roadway Subsystem	TRIMARC Traffic Management	request for right-of-way	Planned
Roadway Subsystem	TRIMARC Traffic Management	roadway information system status	Existing
Roadway Subsystem	TRIMARC Traffic Management	signal control status	Planned

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SourceElement	DestinationElement	FlowName	FlowStatus
Roadway Subsystem	TRIMARC Traffic Management	traffic flow	Existing
Roadway Subsystem	TRIMARC Traffic Management	traffic images	Existing
RPC	Commercial Vehicle Administration	CVAS information exchange	Existing
Rural Transit Providers	STOC Information Service Provider	transit and fare schedules	Planned
RWIS Stations	CGT Historical Traffic Data Repository	roadside archive data	Planned
RWIS Stations	Cumberland Gap Traffic Management Center	environmental conditions	Planned
RWIS Stations	Cumberland Gap Traffic Management Center	fault reports	Planned
RWIS Stations	Cumberland Gap Traffic Management Center	freeway control status	Planned
RWIS Stations	STOC Traffic Management	environmental conditions	Existing
RWIS Stations	STOC Traffic Management	traffic flow	Existing
RWIS Stations	STOC Traffic Management	traffic images	Existing
SAFER	Commercial Vehicle Administration	CVAS information exchange	Existing
Somerset Fire Station	Roadway Subsystem	signal preemption request	Existing
STOC Information Service Provider	Cumberland Gap Information Service Provider	ISP coordination	Planned
STOC Information Service Provider	Media	traveler information for media	Existing
STOC Information Service Provider	Personal Information Access	traveler information	Existing
STOC Information Service Provider	Remote Traveler Support Kiosks	traveler information	Planned
STOC Information Service Provider	Rural Transit Providers	transit information request	Planned
STOC Information Service Provider	STOC Traffic Management	logged special vehicle route	Existing
STOC Information Service Provider	STOC Traffic Management	request for traffic information	Existing
STOC Information Service Provider	STOC Traffic Management	Request for Weather-Related Traffic Information	Existing
STOC Operations Personnel	STOC Traffic Management	traffic operator inputs	Existing
STOC Traffic Management	ARTIMIS Traffic Management	environmental conditions-2	Existing
STOC Traffic Management	ARTIMIS Traffic Management	traffic control coordination	Planned
STOC Traffic Management	ARTIMIS Traffic Management	traffic information coordination	Planned
STOC Traffic Management	Commonwealth EOC	current network conditions	Planned
STOC Traffic Management	Commonwealth EOC	incident information	Existing
STOC Traffic Management	Indianapolis Traffic Management	environmental conditions-2	Existing
STOC Traffic Management	Indianapolis Traffic Management	traffic control coordination	Planned
STOC Traffic Management	Indianapolis Traffic Management	traffic information coordination	Existing
STOC Traffic Management	KVE Emergency Management	current network conditions	Existing
STOC Traffic Management	KVE Emergency Management	incident information	Existing
STOC Traffic Management	KVE Emergency Management	resource deployment status	Existing
STOC Traffic Management	KYTC District Maintenance	closure coordination	Existing
STOC Traffic Management	KYTC District Maintenance	maintenance resource request	Existing
STOC Traffic Management	Lexington Traffic Management	environmental conditions-2	Existing
STOC Traffic Management	Lexington Traffic Management	traffic control coordination	Planned
STOC Traffic Management	Lexington Traffic Management	traffic information coordination	Planned
STOC Traffic Management	Media	traffic information for media	Planned
STOC Traffic Management	Nashville Traffic Management	environmental conditions-2	Existing
STOC Traffic Management	Nashville Traffic Management	traffic control coordination	Planned
STOC Traffic Management	Nashville Traffic Management	traffic information coordination	Planned
STOC Traffic Management	Roadway Subsystem	roadway information system data	Existing
STOC Traffic Management	RWIS Stations	sensor and surveillance control	Existing
STOC Traffic Management	STOC Information Service Provider	traffic information	Existing
STOC Traffic Management	STOC Information Service Provider	Weather-Related Traffic Information	Existing
STOC Traffic Management	STOC Operations Personnel	traffic operator data	Existing
STOC Traffic Management	TRIMARC Traffic Management	environmental conditions-2	Existing
STOC Traffic Management	TRIMARC Traffic Management	traffic control coordination	Planned
STOC Traffic Management	TRIMARC Traffic Management	traffic information coordination	Planned
TANK Transit Dispatch Center	ARTIMIS Archived Data Management	transit archive data	Planned

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SourceElement	DestinationElement	FlowName	FlowStatus
TANK Transit Dispatch Center	ARTIMIS Information Service Provider	demand responsive transit plan	Planned
TANK Transit Dispatch Center	ARTIMIS Information Service Provider	transit and fare schedules	Planned
TANK Transit Dispatch Center	ARTIMIS Information Service Provider	transit incident information	Planned
TANK Transit Dispatch Center	ARTIMIS Information Service Provider	transit request confirmation	Planned
TANK Transit Dispatch Center	ARTIMIS Traffic Management	transit system data	Planned
TARC Transit Management	Remote Traveler Support Kiosks	transit traveler information	Planned
TARC Transit Management	TRIMARC Information Service Provider	transit and fare schedules	Planned
Tennessee Historical Incident Data Repository	CGT Historical Incident Data Repository	archive coordination	Planned
Tennessee Historical Traffic Data Repository	CGT Historical Traffic Data Repository	archive coordination	Planned
Traffic Information Network	Lexington Emergency Management Center	incident information request	Existing
Traffic Information Network	Lexington TMC Operations Personnel	ISP operating parameters	Existing
Traffic Information Network	Lexington Traffic Management	ISP coordination	Existing
Traffic Information Network	Lexington Traffic Management	request for traffic information	Existing
Traffic Information Network	Lexington Traffic Management	road network use	Existing
Traffic Information Network	Lexington Transit Management Center	demand responsive transit request	Existing
Traffic Information Network	Lexington Transit Management Center	transit information request	Planned
Traffic Information Network	Media	traveler information for media	Existing
Traffic Information Network	Personal Information Access	broadcast information	Existing
Traffic Information Network	Personal Information Access	traveler information	Existing
Traffic Information Network	Remote Traveler Support Kiosks	broadcast information	Existing
Traffic Information Network	Remote Traveler Support Kiosks	traveler information	Existing
Traffic Information Network	Traffic Information Network Personnel	ISP operating parameters	Existing
Traffic Information Network	Vehicle	broadcast information	Existing
Traffic Information Network	Vehicle	traveler information	Existing
Traffic Information Network Personnel	Lexington Traffic Management	ISP operating parameter updates	Existing
Traffic Information Network Personnel	Traffic Information Network	ISP operating parameter updates	Existing
Transit Driver	Lexington Transit Management Center	transit driver availability	Planned
Transit User	Remote Traveler Support Kiosks	transit user inputs	Planned
Transit Vehicle	Lexington Transit Management Center	fare and payment status	Planned
Transit Vehicle	Lexington Transit Management Center	request for bad tag list	Planned
Transit Vehicle	Lexington Transit Management Center	transit traveler request	Planned
Transit Vehicle	Lexington Transit Management Center	transit vehicle location data	Planned
Transit Vehicle	Lexington Transit Management Center	transit vehicle passenger and use data	Planned
Transit Vehicle	Lexington Transit Management Center	transit vehicle schedule performance	Planned
Transit Vehicle	Payment Instrument	request for payment	Planned
Transit Vehicle	TARC Transit Management	transit vehicle location data	Planned
Transit Vehicle	TARC Transit Management	transit vehicle schedule performance	Planned
Transit Vehicle	Transit Driver	transit driver display	Existing
Transit Vehicle	Transit User	transit user fare status	Planned
Transit Vehicle	Transit User	transit user outputs	Planned
Traveler	Personal Information Access	traveler inputs	Planned
Traveler	Remote Traveler Support Kiosks	traveler inputs	Planned
TRIMARC Archived Data Management	KIPDA Data System	archived data products	Existing
TRIMARC Archived Data Management	KYTC ftp server	archived data products	Existing
TRIMARC Archived Data Management	TRIMARC Data Administrator	archive management data	Existing
TRIMARC Archived Data Management	TRIMARC Traffic Management	archive requests	Existing
TRIMARC Archived Data Management	TRIMARC Traffic Management	archive status	Existing
TRIMARC Area Emergency Response Agencies	Emergency Vehicle	emergency dispatch requests	Existing
TRIMARC Area Emergency Response Agencies	Emergency Vehicle	incident command information	Existing
TRIMARC Area Emergency Response Agencies	Other EM	incident report	Existing
TRIMARC Area Emergency Response Agencies	Other EM	incident response coordination	Existing

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
TRIMARC Area Emergency Response Agencies	TRIMARC Information Service Provider	incident information	Existing
TRIMARC Area Emergency Response Agencies	TRIMARC Information Service Provider	logged special vehicle route-2	Existing
TRIMARC Area Emergency Response Agencies	TRIMARC Traffic Management	incident information	Existing
TRIMARC Area Emergency Response Agencies	TRIMARC Traffic Management	remote surveillance control	Existing
TRIMARC Area Emergency Response Agencies	TRIMARC Traffic Management	resource request	Existing
TRIMARC Data Administrator	TRIMARC Archived Data Management	archive management requests	Existing
TRIMARC Freeway Service Patrol Vans	TRIMARC Traffic Management	incident status-2	Existing
TRIMARC Information Service Provider	Media	traveler information for media	Existing
TRIMARC Information Service Provider	Personal Information Access	traveler information	Existing
TRIMARC Information Service Provider	TARC Transit Management	transit information request	Planned
TRIMARC Information Service Provider	TRIMARC Traffic Management	logged special vehicle route	Existing
TRIMARC Information Service Provider	TRIMARC Traffic Management	request for traffic information	Existing
TRIMARC Operations Personnel	TRIMARC Traffic Management	traffic operator inputs	Existing
TRIMARC Traffic Management	INDOT District Maintenance	closure coordination	Existing
TRIMARC Traffic Management	INDOT District Maintenance	maintenance resource request	Existing
TRIMARC Traffic Management	Jefferson County EMA	current network conditions	Existing
TRIMARC Traffic Management	KYTC District Maintenance	closure coordination	Existing
TRIMARC Traffic Management	KYTC District Maintenance	maintenance resource request	Existing
TRIMARC Traffic Management	Roadway Subsystem	roadway information system data	Existing
TRIMARC Traffic Management	Roadway Subsystem	sensor and surveillance control	Existing
TRIMARC Traffic Management	Roadway Subsystem	signal control data	Planned
TRIMARC Traffic Management	STOC Traffic Management	traffic control coordination	Planned
TRIMARC Traffic Management	STOC Traffic Management	traffic information coordination	Planned
TRIMARC Traffic Management	TARC Transit Management	traffic information for transit	Planned
TRIMARC Traffic Management	TRIMARC Archived Data Management	traffic archive data	Existing
TRIMARC Traffic Management	TRIMARC Area Emergency Response Agencies	current network conditions	Existing
TRIMARC Traffic Management	TRIMARC Area Emergency Response Agencies	incident information	Existing
TRIMARC Traffic Management	TRIMARC Area Emergency Response Agencies	resource deployment status	Existing
TRIMARC Traffic Management	TRIMARC Freeway Service Patrol Vans	emergency dispatch request-2	Existing
TRIMARC Traffic Management	TRIMARC Information Service Provider	traffic information	Existing
TRIMARC Traffic Management	TRIMARC Operations Personnel	traffic operator data	Existing
Tunnel Electronic Tag Reader	Commercial Vehicle Subsystem	screening request	Planned
Tunnel Emergency Management Center	CGT Historical Incident Data Repository	emergency archive data	Existing
Tunnel Emergency Management Center	CGT Regional GIS Agency	map update request	Planned
Tunnel Emergency Management Center	Commercial Fleet Management	HAZMAT information request	Planned
Tunnel Emergency Management Center	Cumberland Gap Traffic Management Center	emergency traffic control request	Planned
Tunnel Emergency Management Center	Cumberland Gap Traffic Management Center	incident information	Planned
Tunnel Emergency Management Center	Cumberland Gap Traffic Management Center	incident response status	Planned
Tunnel Emergency Management Center	Cumberland Gap Traffic Management Center	remote surveillance control	Planned
Tunnel Emergency Management Center	Cumberland Gap Traffic Management Center	resource request	Planned
Tunnel Emergency Management Center	Emergency Vehicle	emergency dispatch requests	Planned
Tunnel Emergency Management Center	Emergency Vehicle	incident command information	Planned
Tunnel Emergency Management Center	Tunnel Emergency System Operator	emergency operations status	Planned
Tunnel Emergency System Operator	Tunnel Emergency Management Center	emergency operations request	Existing
Tunnel Roadway Subsystem	Basic Vehicle	broadcast advisories	Existing
Tunnel Roadway Subsystem	CGT Historical Traffic Data Repository	roadside archive data	Planned
Tunnel Roadway Subsystem	Cumberland Gap Traffic Management Center	fault reports	Planned
Tunnel Roadway Subsystem	Cumberland Gap Traffic Management Center	freeway control status	Planned
Tunnel Roadway Subsystem	Cumberland Gap Traffic Management Center	incident data	Planned
Tunnel Roadway Subsystem	Cumberland Gap Traffic Management Center	roadway information system status	Planned
Tunnel Roadway Subsystem	Cumberland Gap Traffic Management Center	traffic flow	Planned

Kentucky Statewide Architecture--Architecture Report

SourceElement	DestinationElement	FlowName	FlowStatus
Tunnel Roadway Subsystem	Cumberland Gap Traffic Management Center	traffic images	Planned
Tunnel Roadway Subsystem	Driver	driver information	Existing
Vehicle	Driver	driver updates	Planned
Vehicle	Lexington Traffic Management	traveler request	Existing
Vehicle	Traffic Information Network	traveler request	Existing
Vehicle	Transit Vehicle	vehicle location	Planned
Vehicle	TRIMARC Traffic Management	vehicle probe data-2	Planned
Weather Service	Cumberland Gap Traffic Management Center	weather information	Planned
Weather Service	KVE Emergency Management	weather information	Existing
Weather Service	Lexington Archived Data Management Center	weather information	Existing
Weather Service	Lexington Emergency Management Center	weather information	Existing
Weather Service	Lexington Traffic Management	weather information	Existing
Weather Service	Lexington Transit Management Center	weather information	Existing
Weather Service	STOC Information Service Provider	weather information	Existing
Weather Service	STOC Traffic Management	weather information	Existing
Weather Service	Traffic Information Network	weather information	Existing
Weather Service	TRIMARC Area Emergency Response Agencies	weather information	Existing
Weather Service	TRIMARC Information Service Provider	weather information	Existing
Weather Service	TRIMARC Traffic Management	weather information	Existing
Yellow Pages Service Providers	Cumberland Gap Information Service Provider	provider profile data	Planned
Yellow Pages Service Providers	Cumberland Gap Information Service Provider	travel service info	Planned
Yellow Pages Service Providers	Private commercial information providers	travel service info	Planned

APPENDIX B

MARKET PACKAGE DIAGRAMS

Market Package Diagrams: ARTIMIS

For the Kentucky Statewide ITS Architecture: 4/19/02

Listing of Specific Entities

Transit Management:

- Metro Transit Dispatch Center
- TANK Transit Dispatch Center

Parking Management:

- City of Cincinnati Parking Management

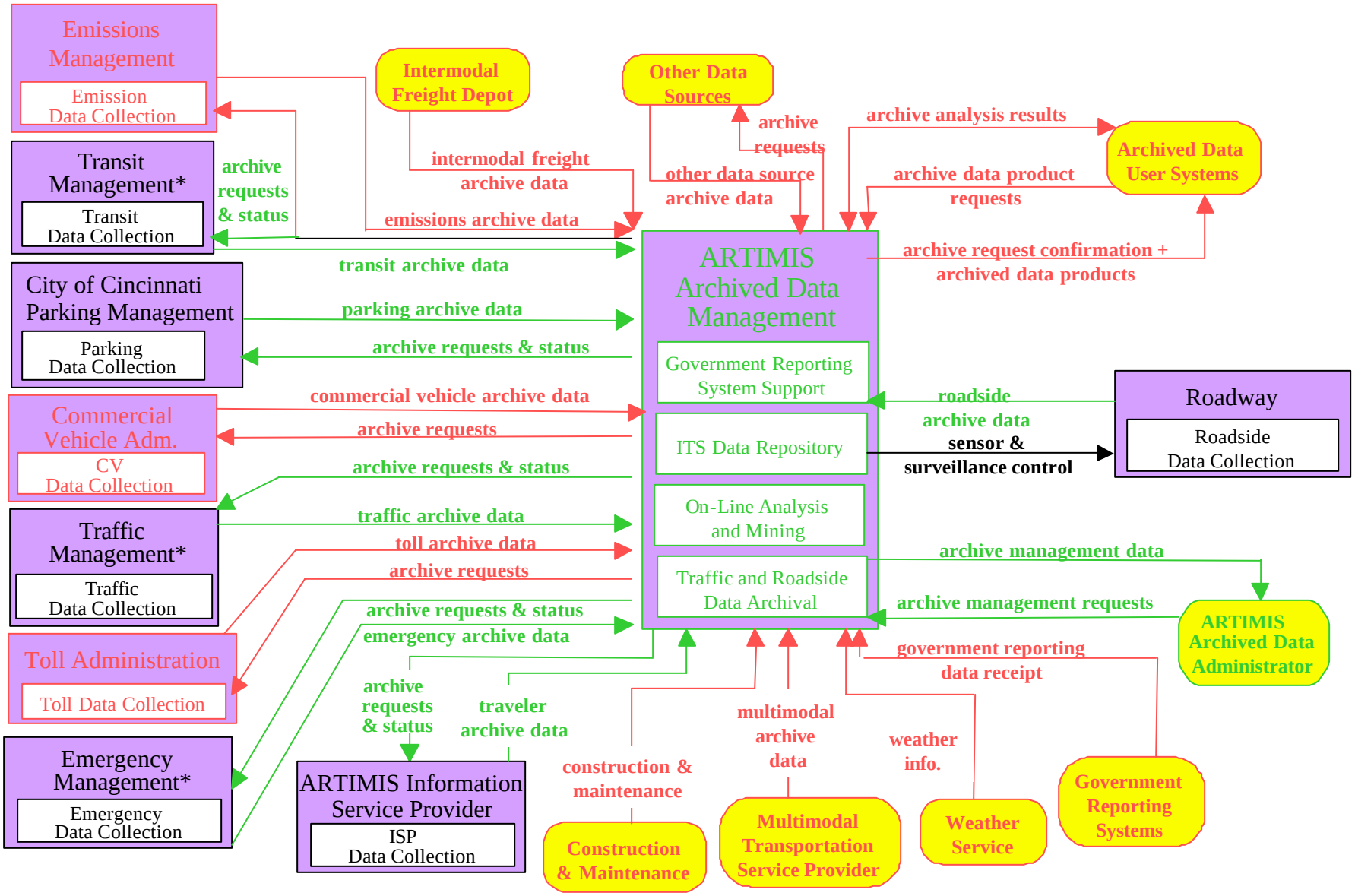
Traffic Management and Other TM:

- ARTIMIS Traffic Management
- City of Cincinnati Traffic Management
- Other Traffic Management

Emergency Management and Other EM:

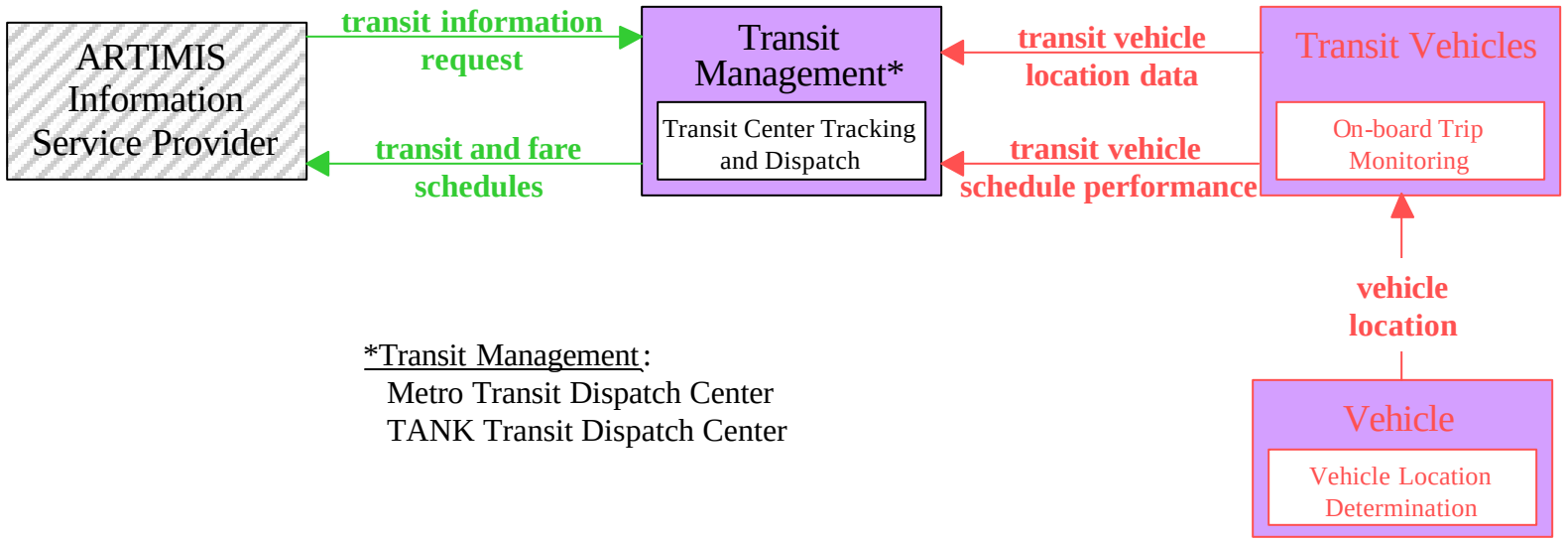
- ARTIMIS Emergency Management
- Boone County 911/CAD
- City of Cincinnati 911/CAD
- Hamilton County 911/CAD
- ARTIMIS Area 911/CAD Centers
- ARTIMIS Area Emergency Response Agencies

AD2 - ITS Data Warehouse



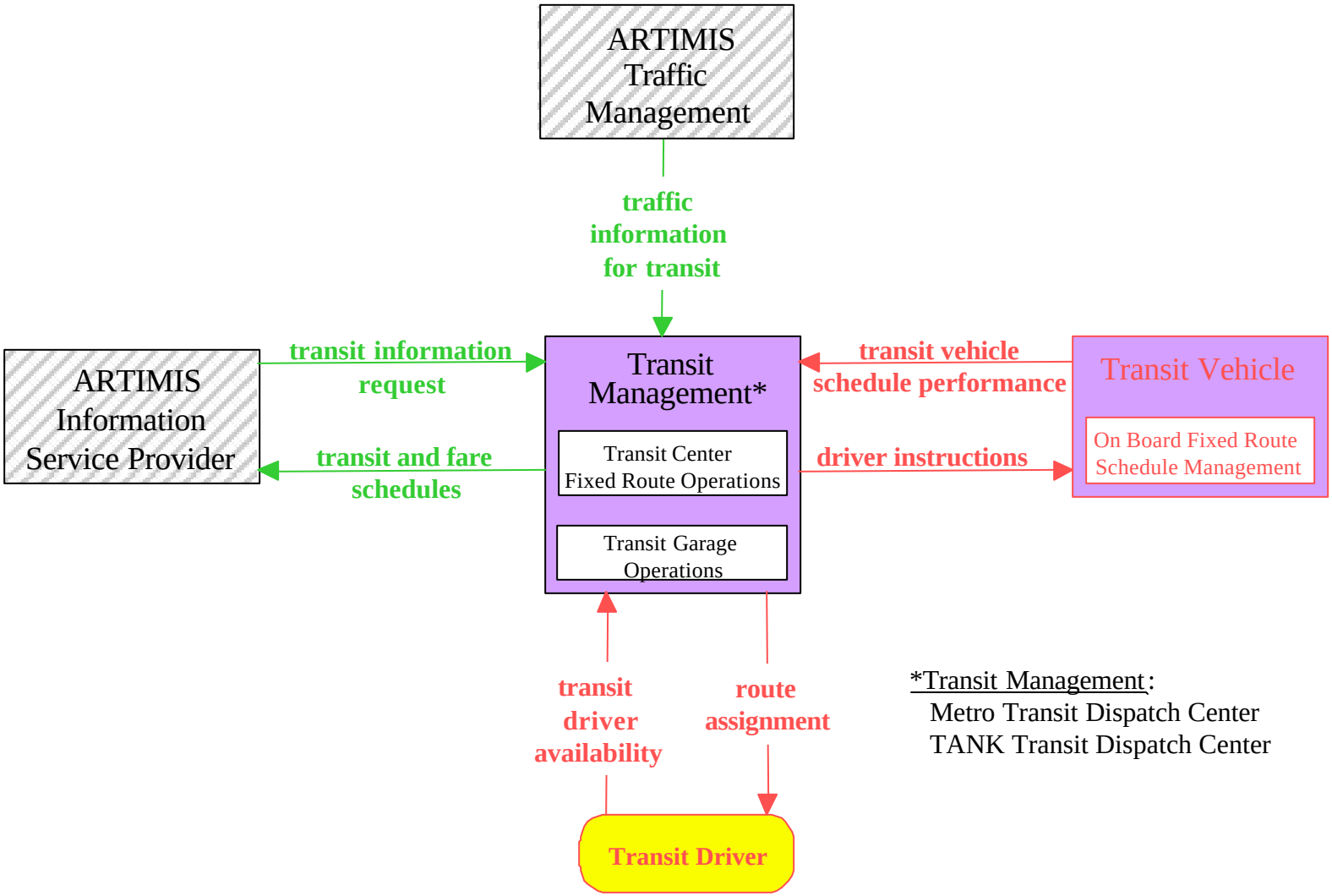
* See slide #2 for listing of specific entities

APTS1 - Transit Vehicle Tracking



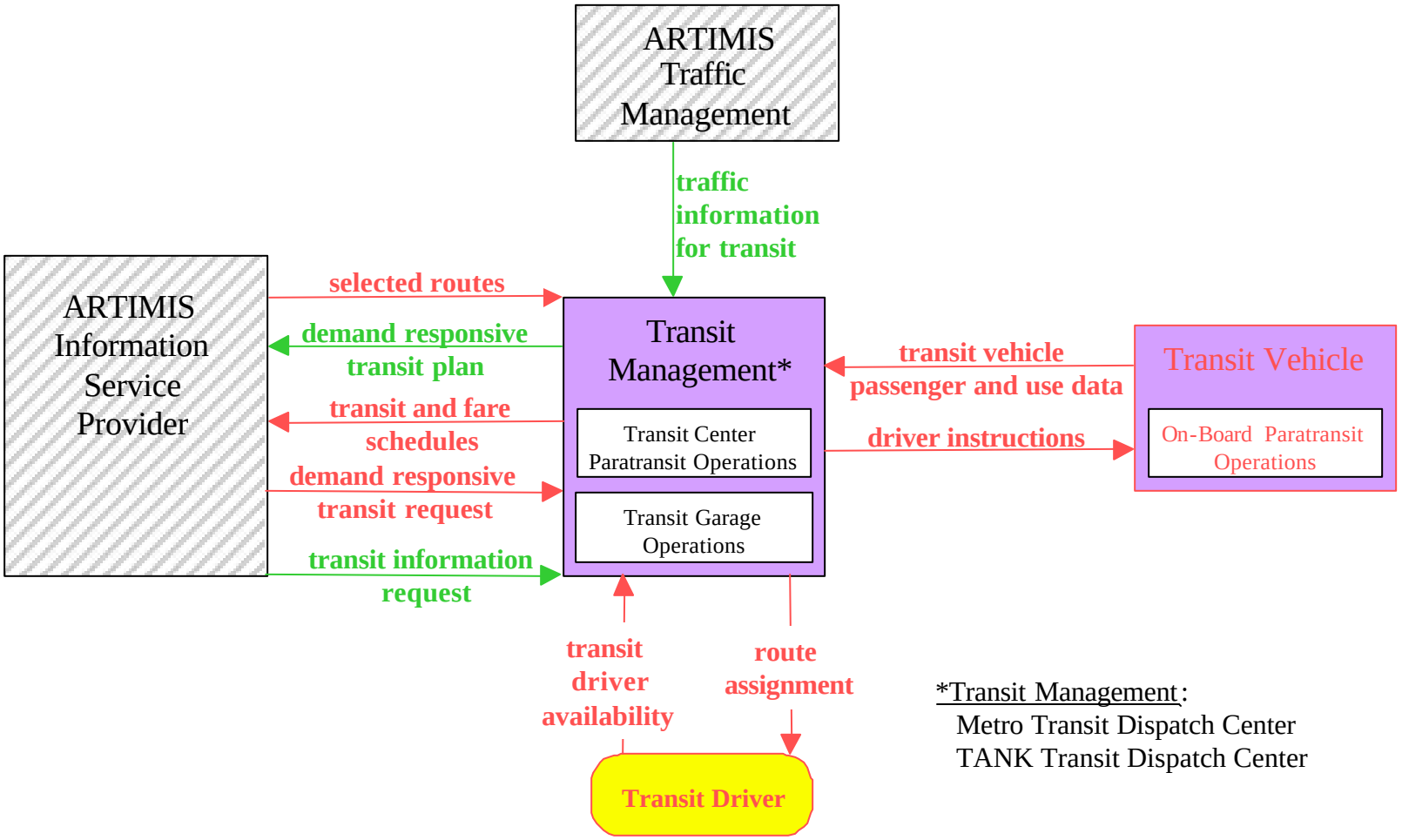
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS2 - Transit Fixed-Route Operations



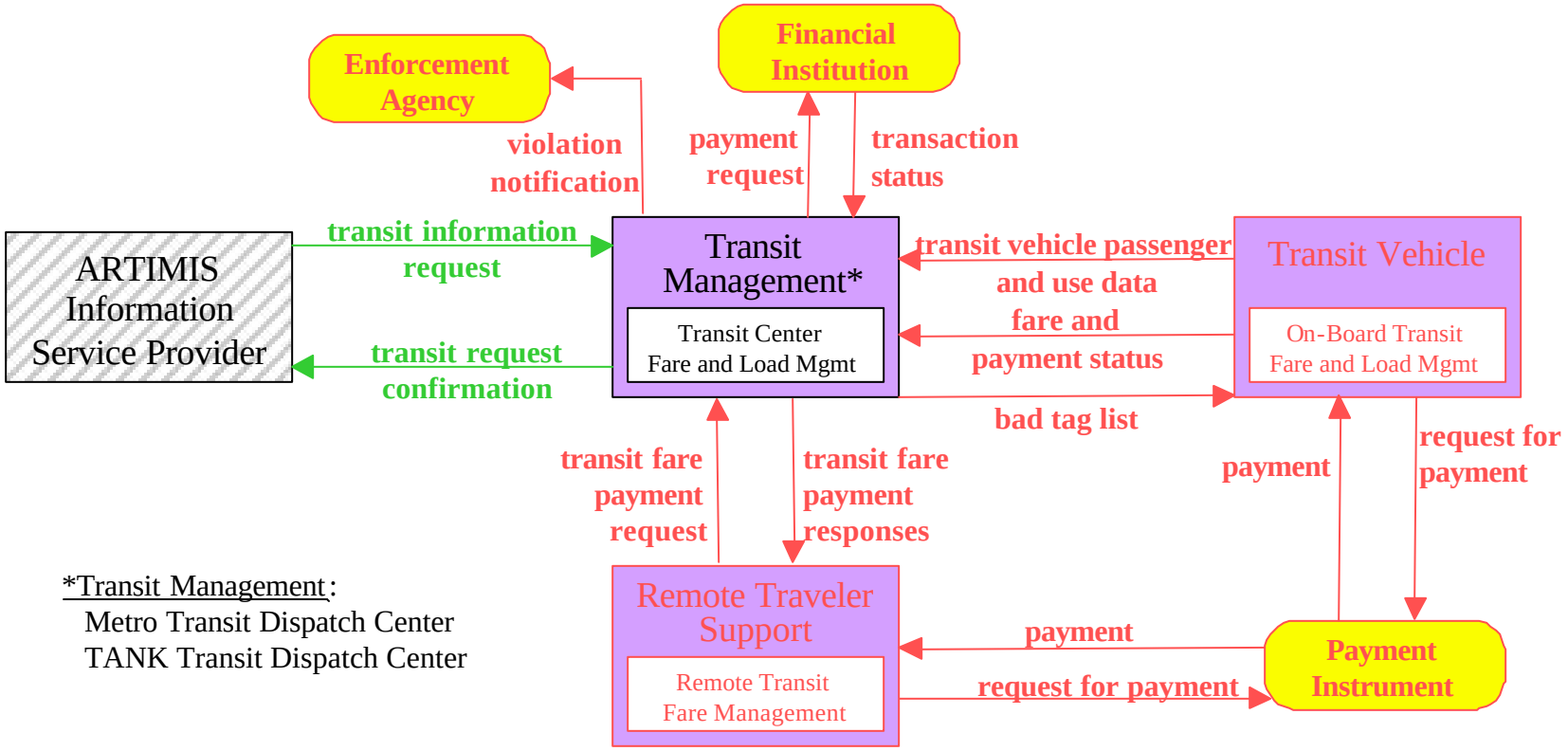
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS3 - Demand Response Transit Operations



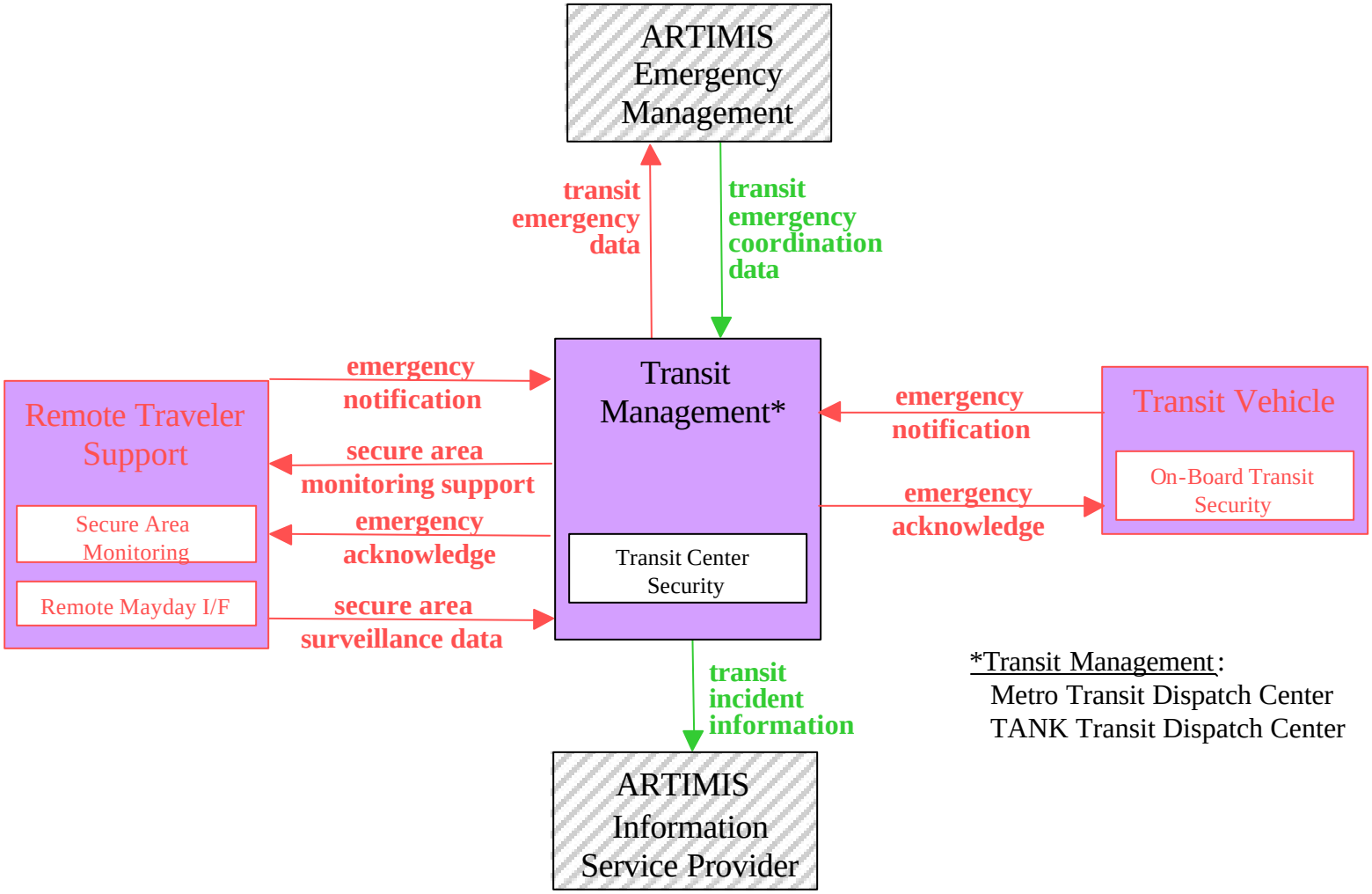
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS4 Transit Passenger and Fare Management



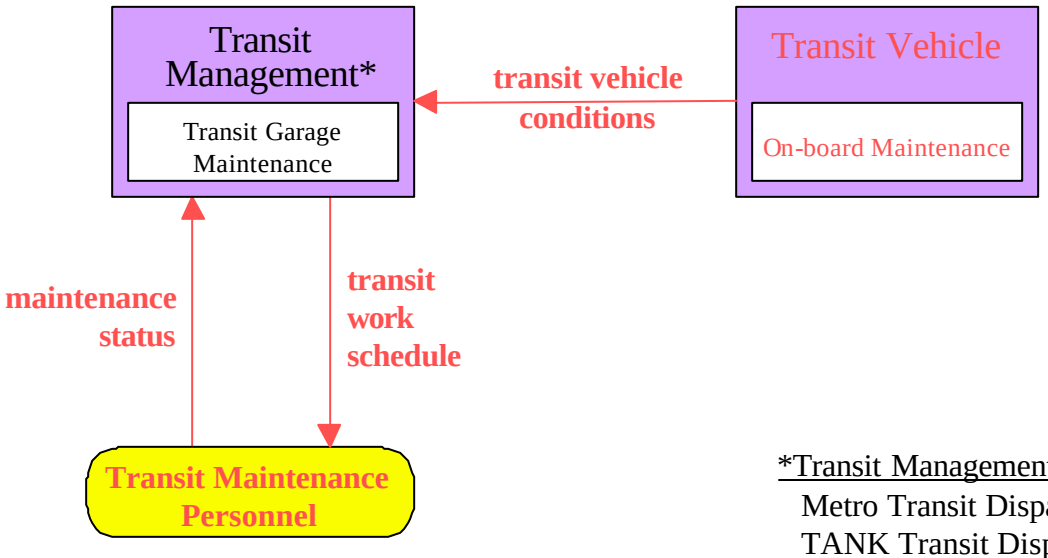
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS5 - Transit Security



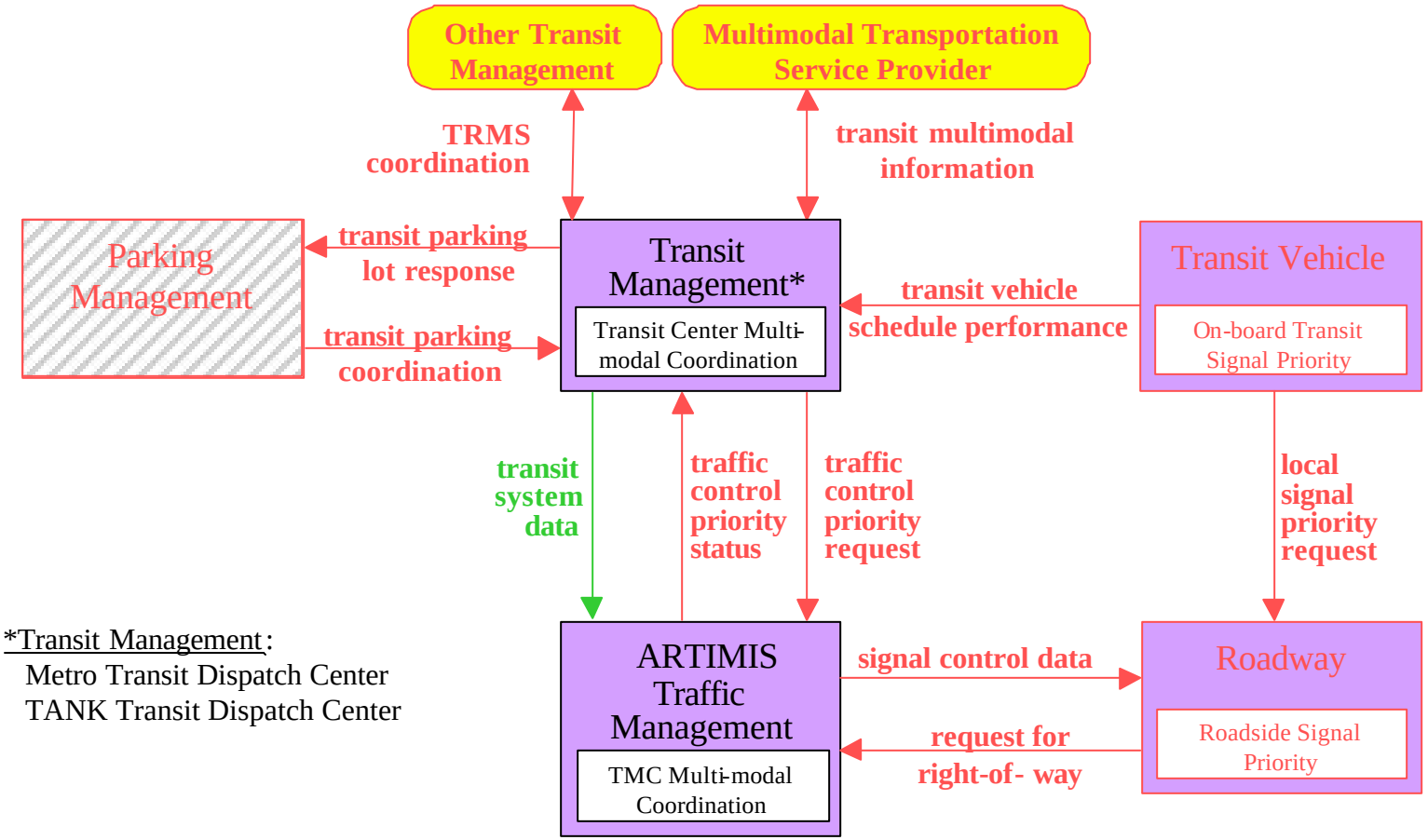
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS6 - Transit Maintenance



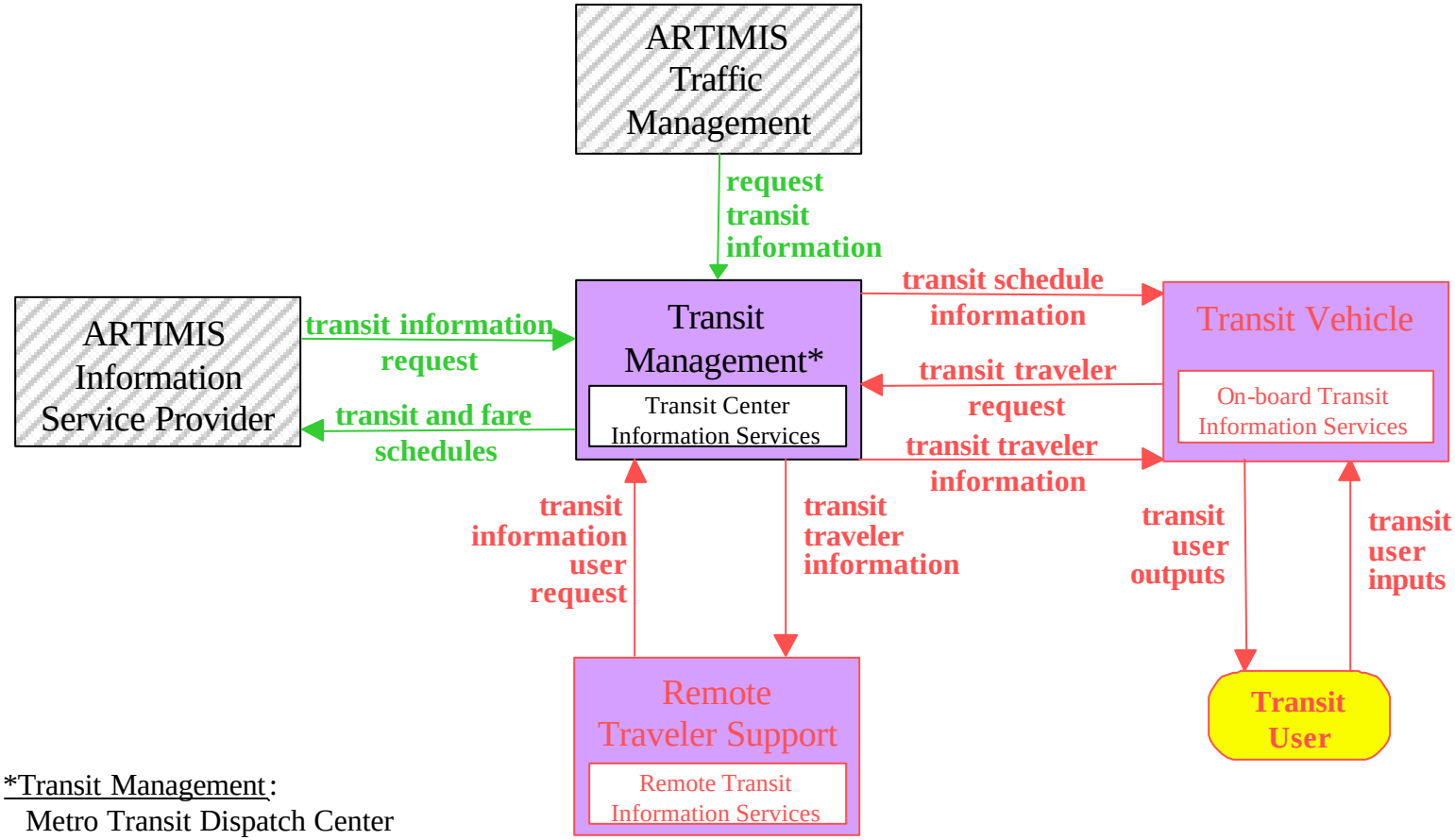
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS7 - Multi-Modal Coordination



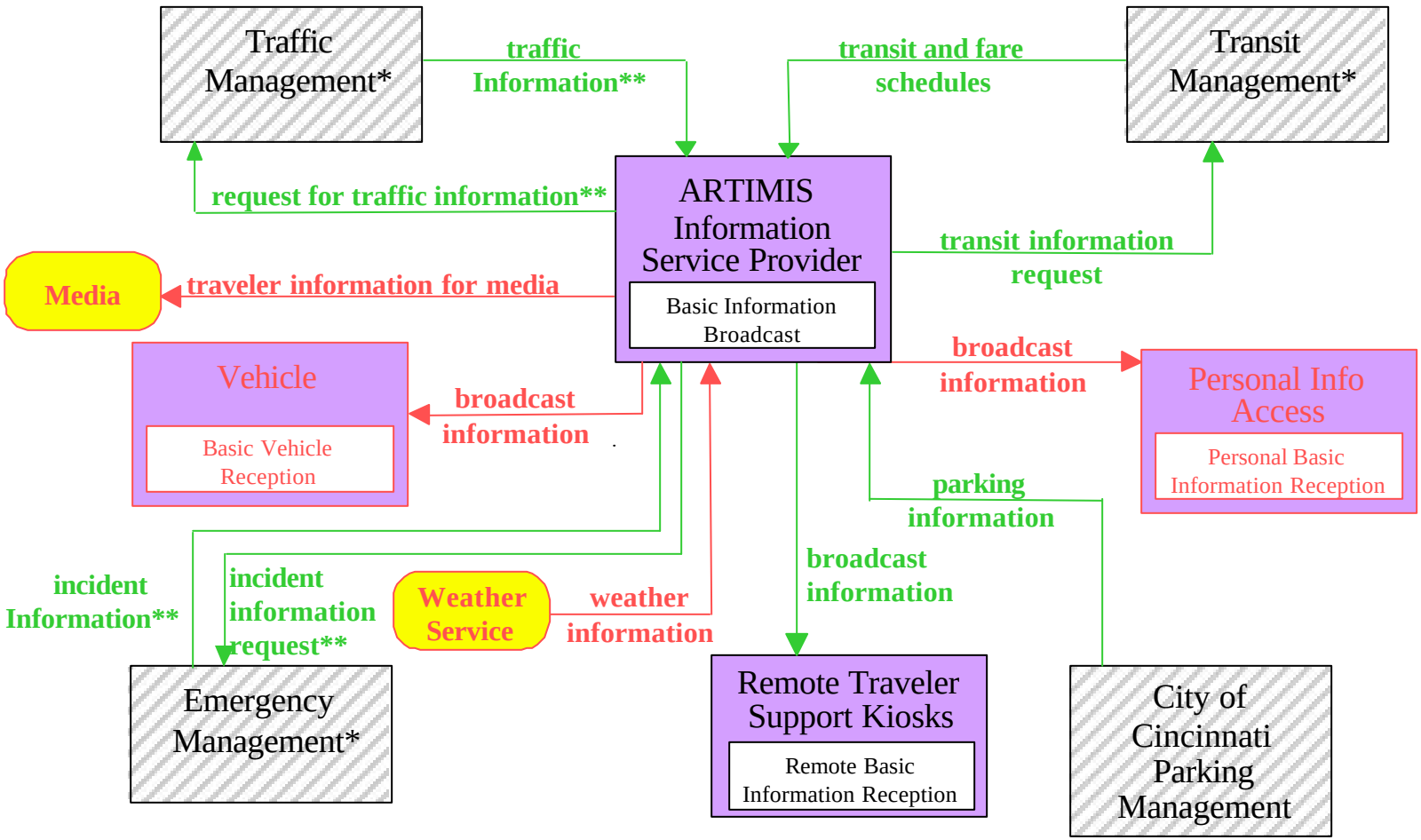
*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

APTS8 - Transit Traveler Information



*Transit Management:
Metro Transit Dispatch Center
TANK Transit Dispatch Center

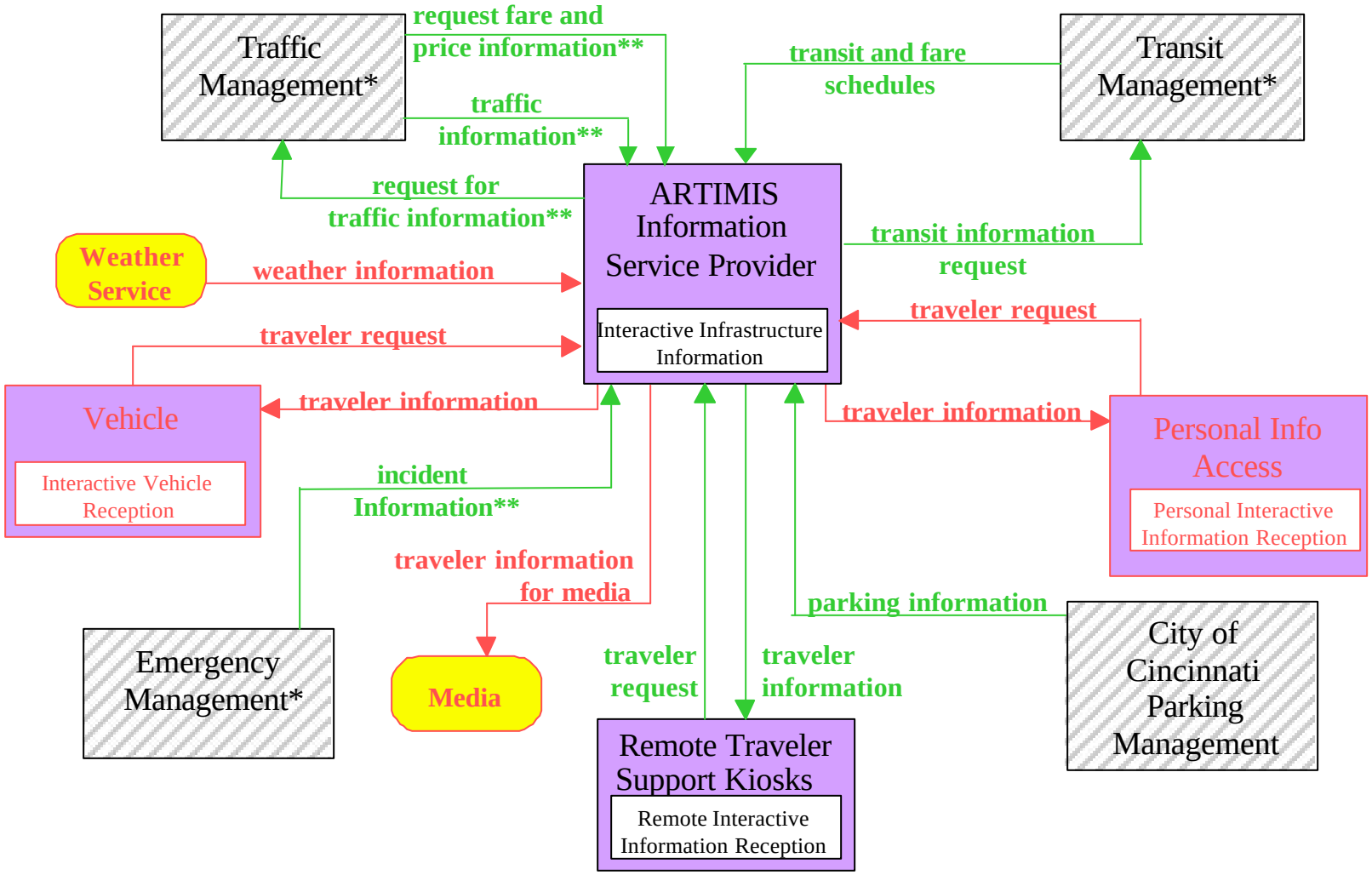
ATIS1 - Broadcast Traveler Information



* See slide #2 for listing of specific entities

**existing flow within ARTIMIS

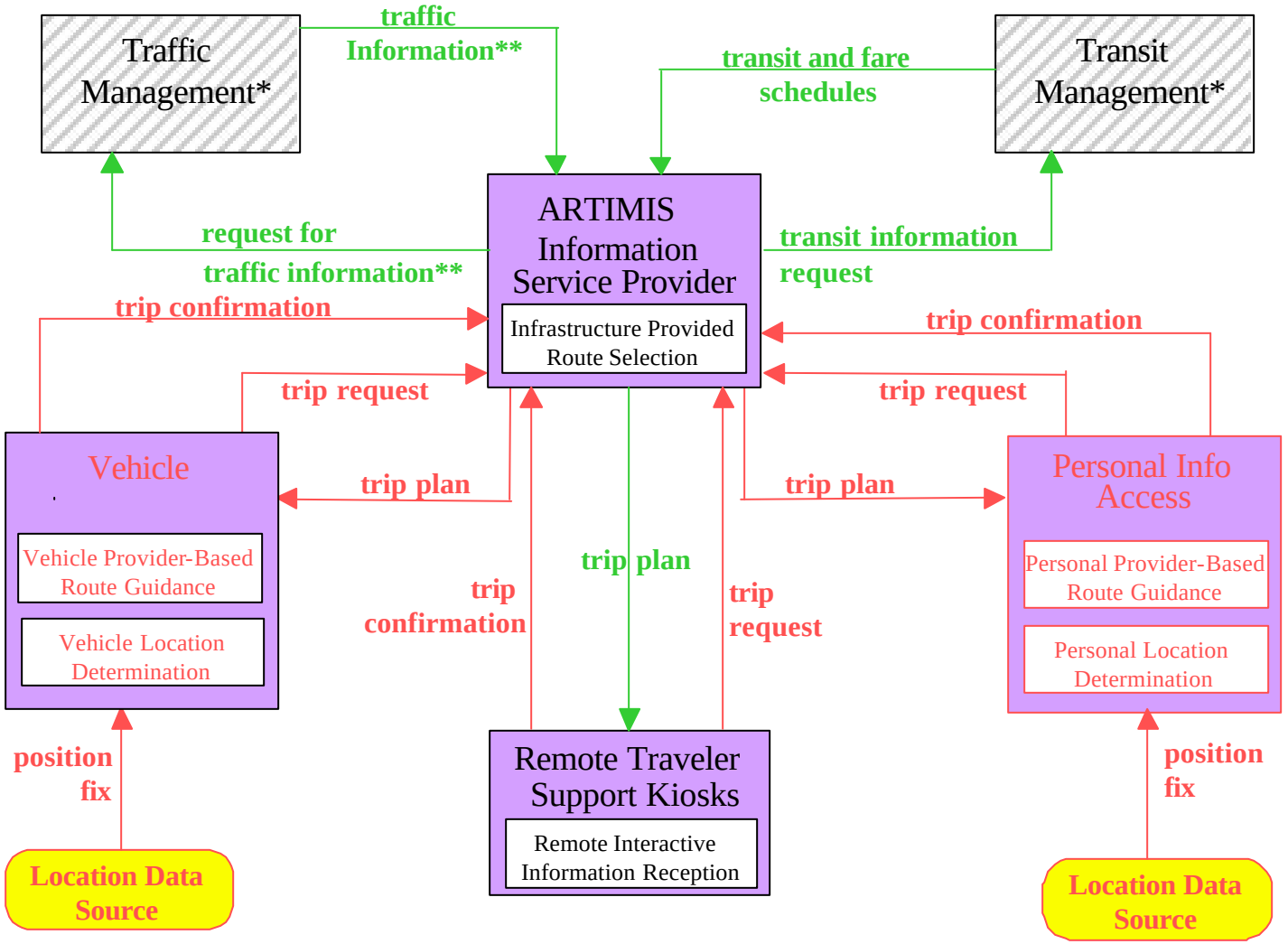
ATIS2 - Interactive Traveler Information



* See slide #2 for listing of specific entities

****existing flow within ARTIMIS**

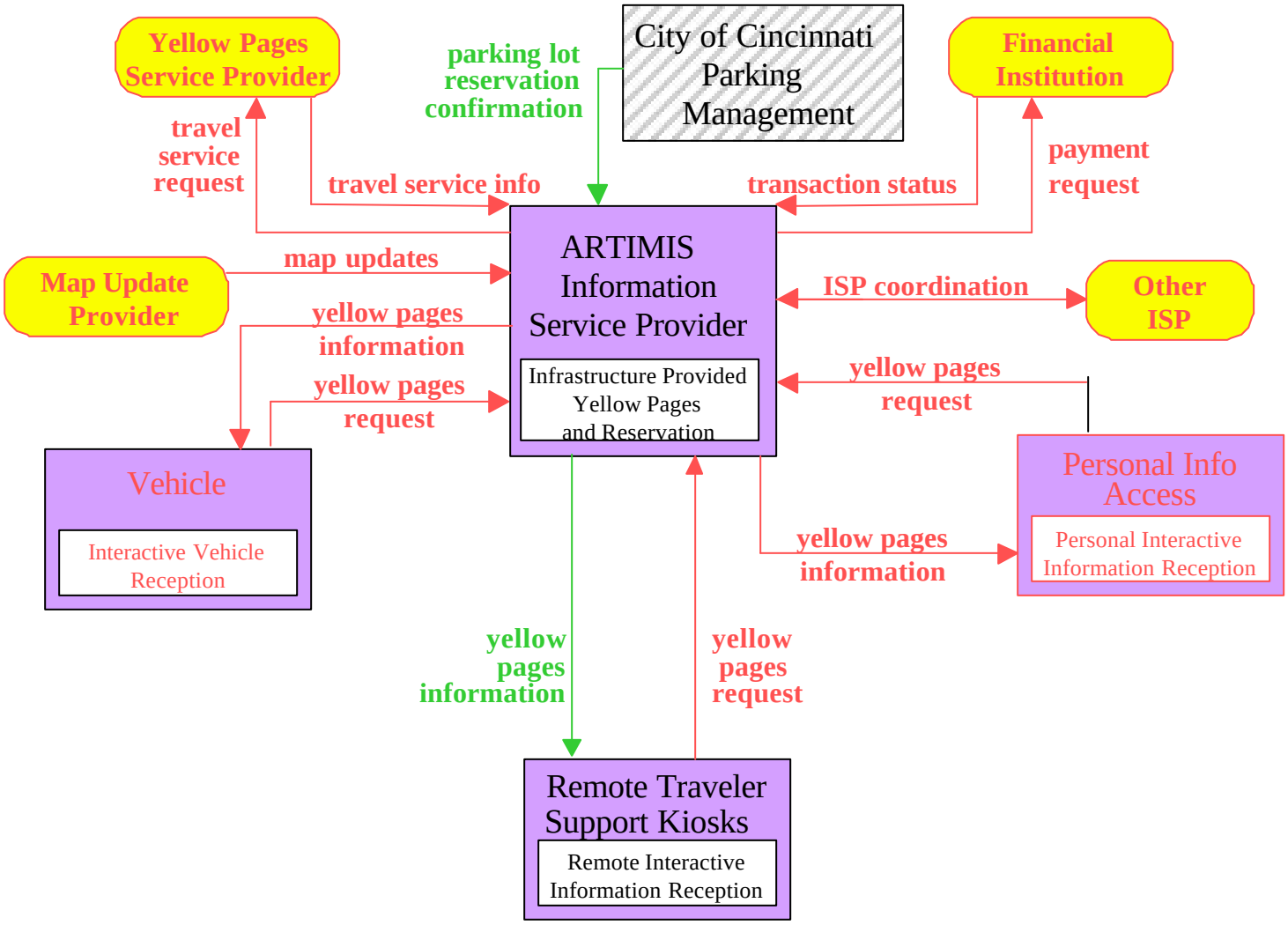
ATIS5 - ISP Based Route Guidance



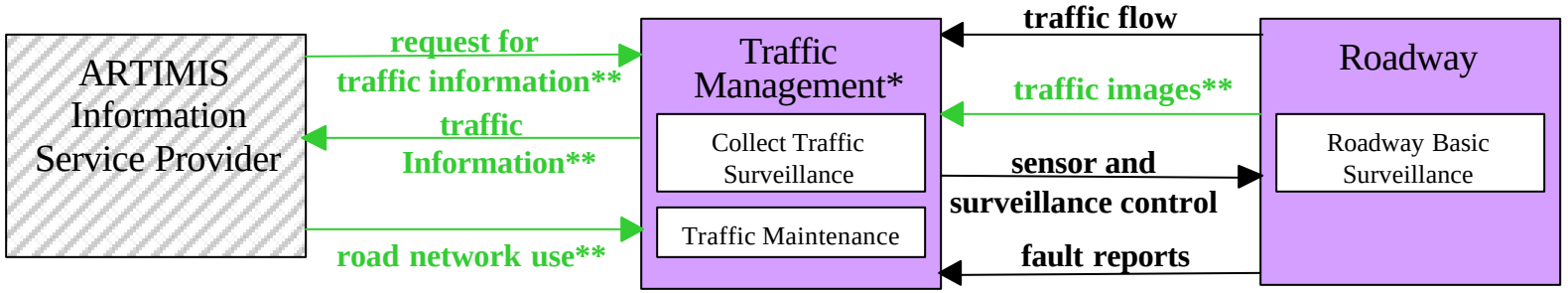
* See slide #2 for listing of specific entities

****existing flow within ARTIMIS**

ATIS7 - Yellow Pages and Reservation



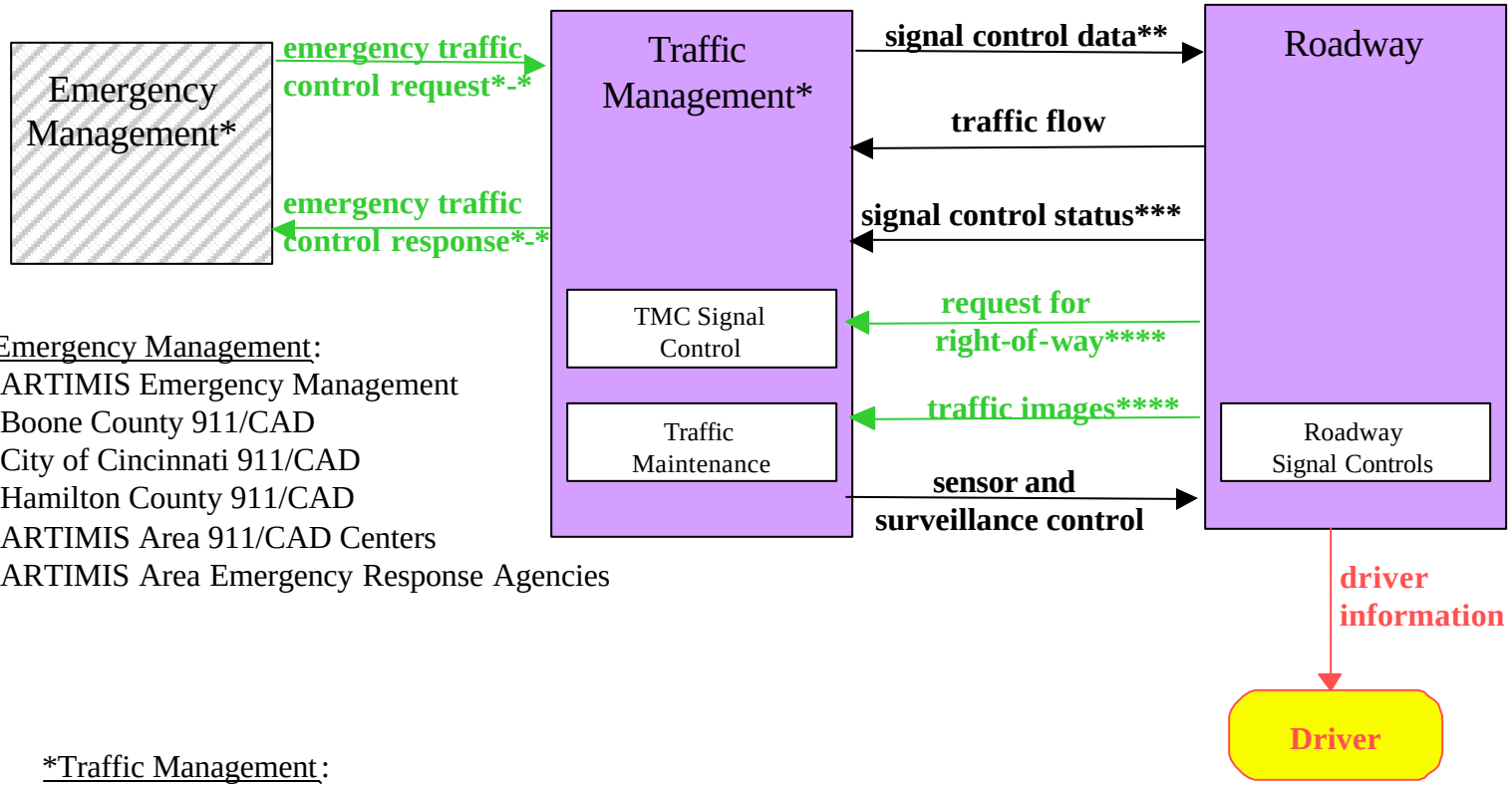
ATMS01 - Network Surveillance



**existing flow for ARTIMIS Traffic Management

*Traffic Management:
ARTIMIS Traffic Management
City of Cincinnati Traffic Management
Other Traffic Management

ATMS03 - Surface Street Control



*Emergency Management:
- ARTIMIS Emergency Management
- Boone County 911/CAD
- City of Cincinnati 911/CAD
- Hamilton County 911/CAD
- ARTIMIS Area 911/CAD Centers
- ARTIMIS Area Emergency Response Agencies

*Traffic Management:
- ARTIMIS Traffic Management
- City of Cincinnati Traffic Management
- Other Traffic Management

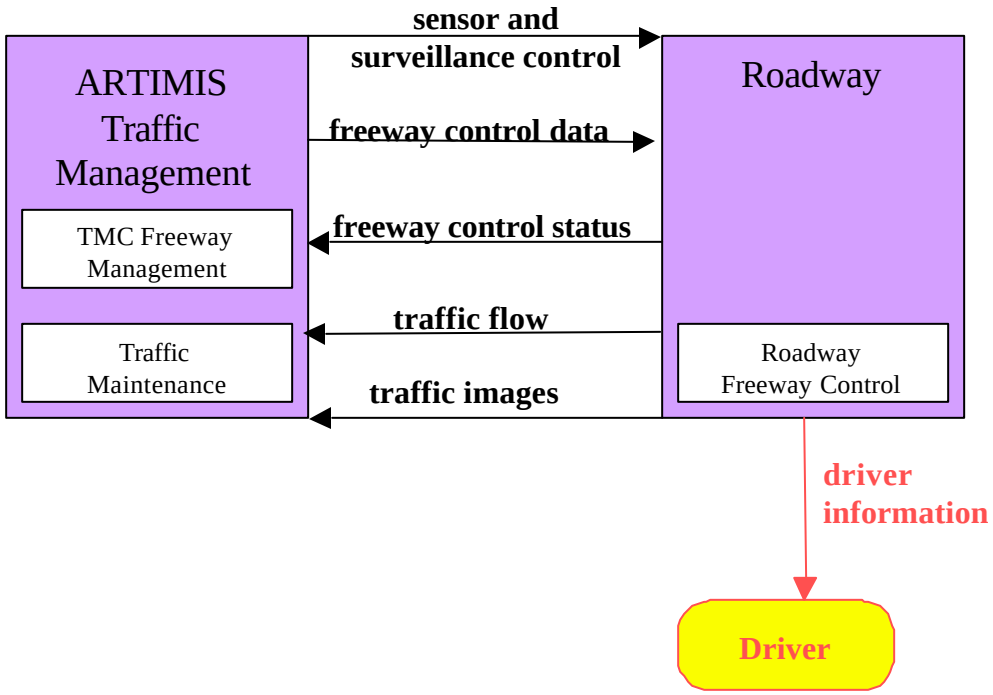
**flow not planned for ARTIMIS Traffic Management

***flow is planned for ARTIMIS Traffic Management

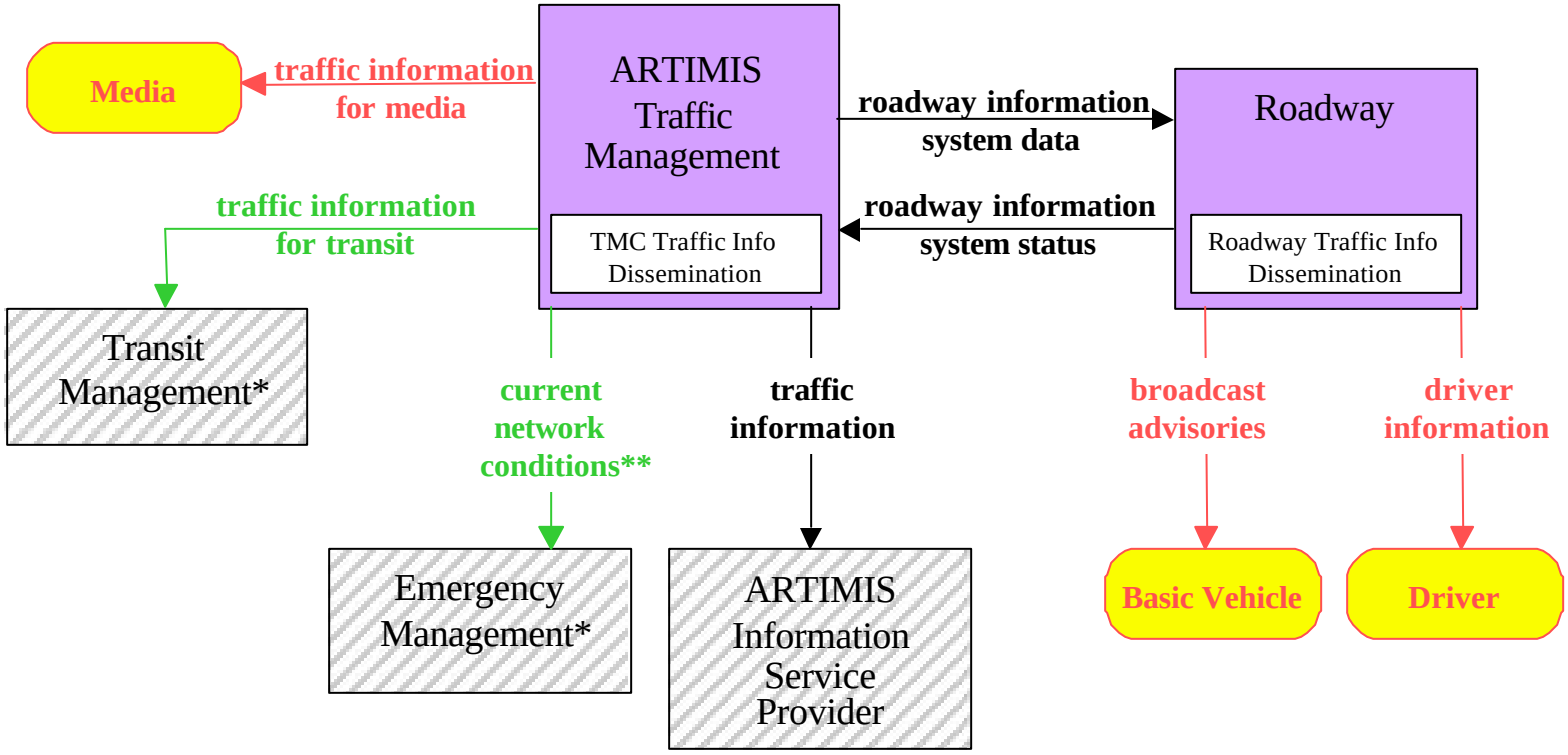
****flow is existing for ARTIMIS Traffic Management

*-*flow is existing for ARTIMIS-ARTIMIS and planned for ARTIMIS-Other, not planned for Other-Other.

ATMS04 - Freeway Control



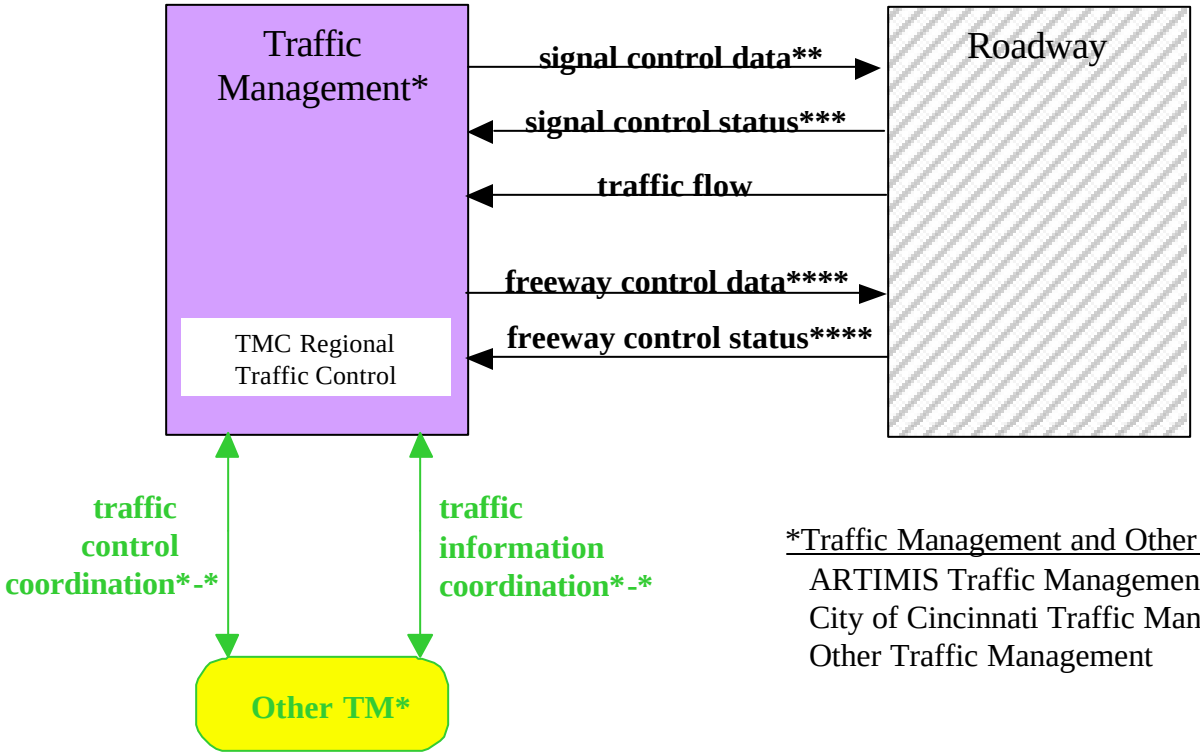
ATMS06 Traffic Information Dissemination



* See slide #2 for listing of specific entities

**existing flow within ARTIMIS

ATMS07 - Regional Traffic Control



*Traffic Management and Other TM:
ARTIMIS Traffic Management
City of Cincinnati Traffic Management
Other Traffic Management

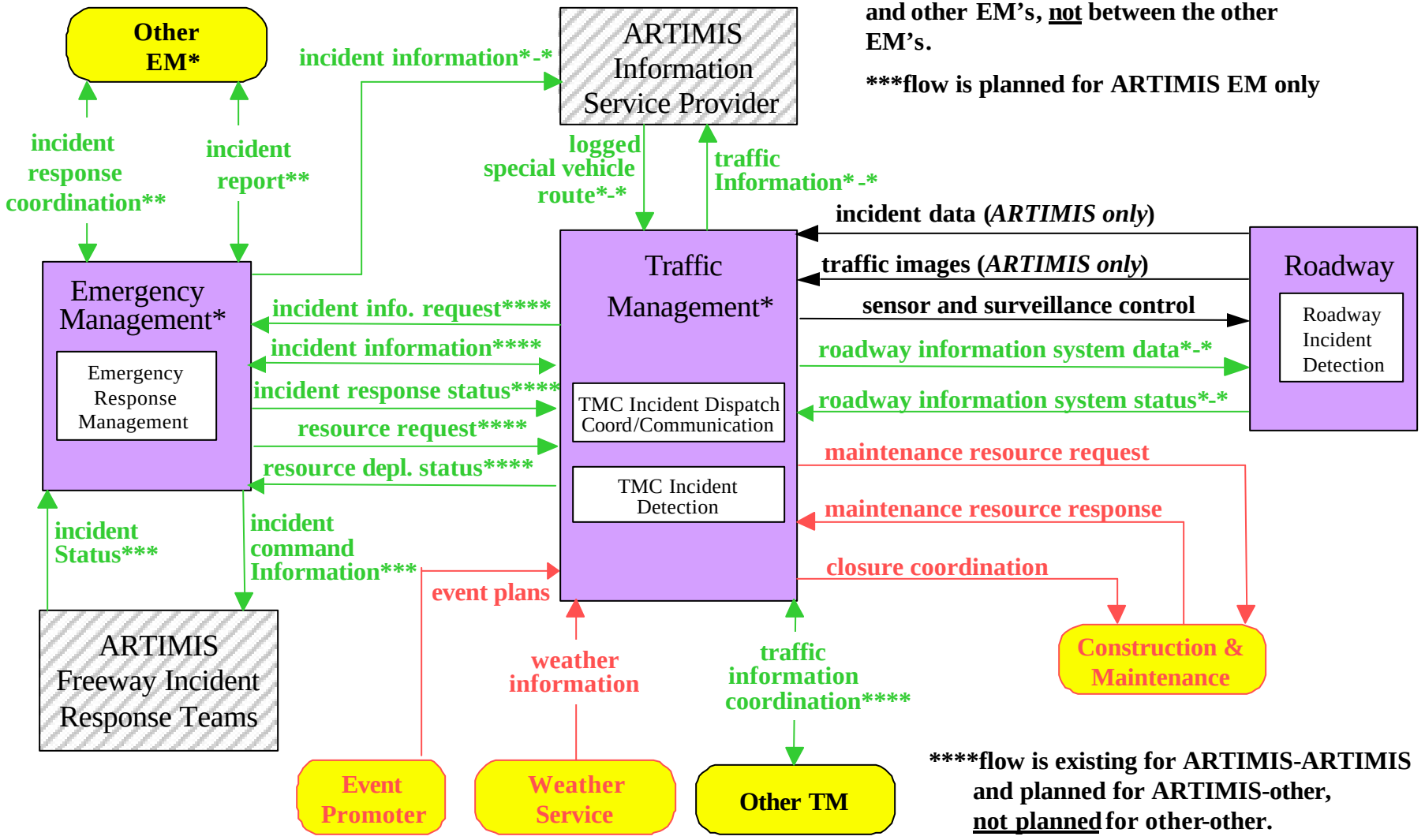
*-*these flows are planned for ARTIMIS<-->other, not for other<-->other

**flow not planned for ARTIMIS Traffic Management

***flow is planned for ARTIMIS Traffic Management

****flow exists only for ARTIMIS Traffic Management

ATMS08 - Incident Management System



**flow is planned between ARTIMIS EM and other EM's, not between the other EM's.

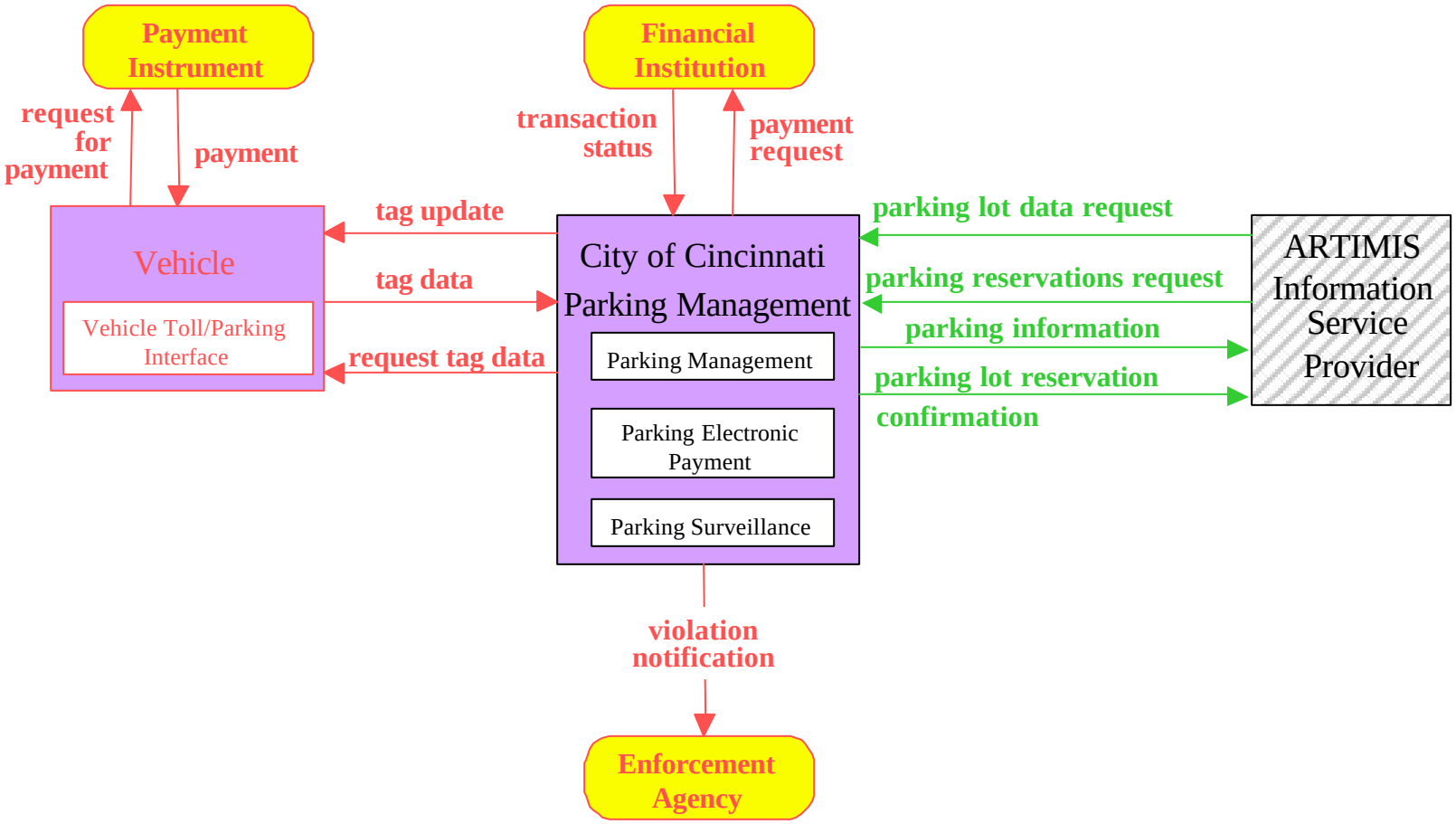
***flow is planned for ARTIMIS EM only

****flow is existing for ARTIMIS-ARTIMIS and planned for ARTIMIS-other, not planned for other-other.

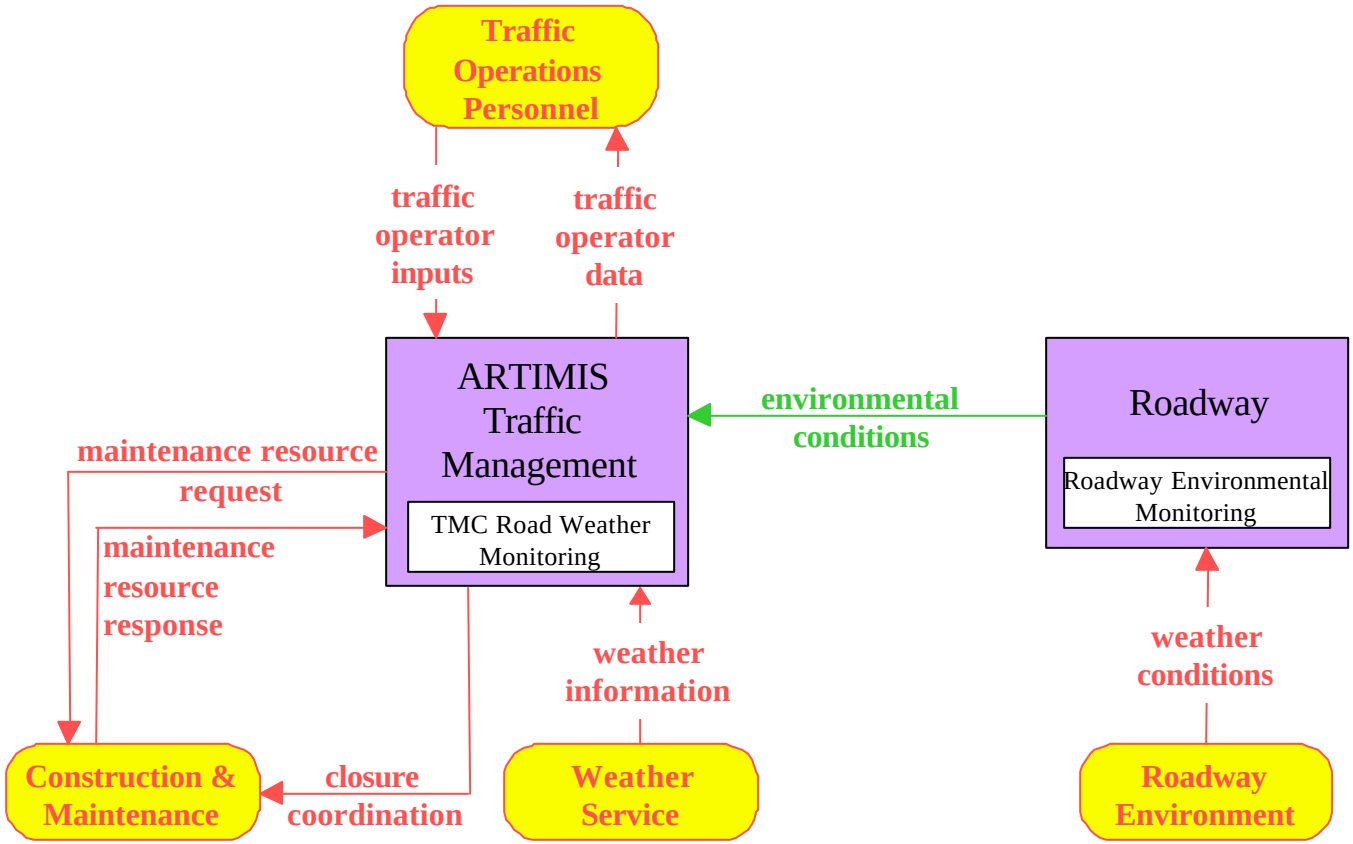
*-*flow is existing within ARTIMIS

* See slide #2 for listing of specific entities

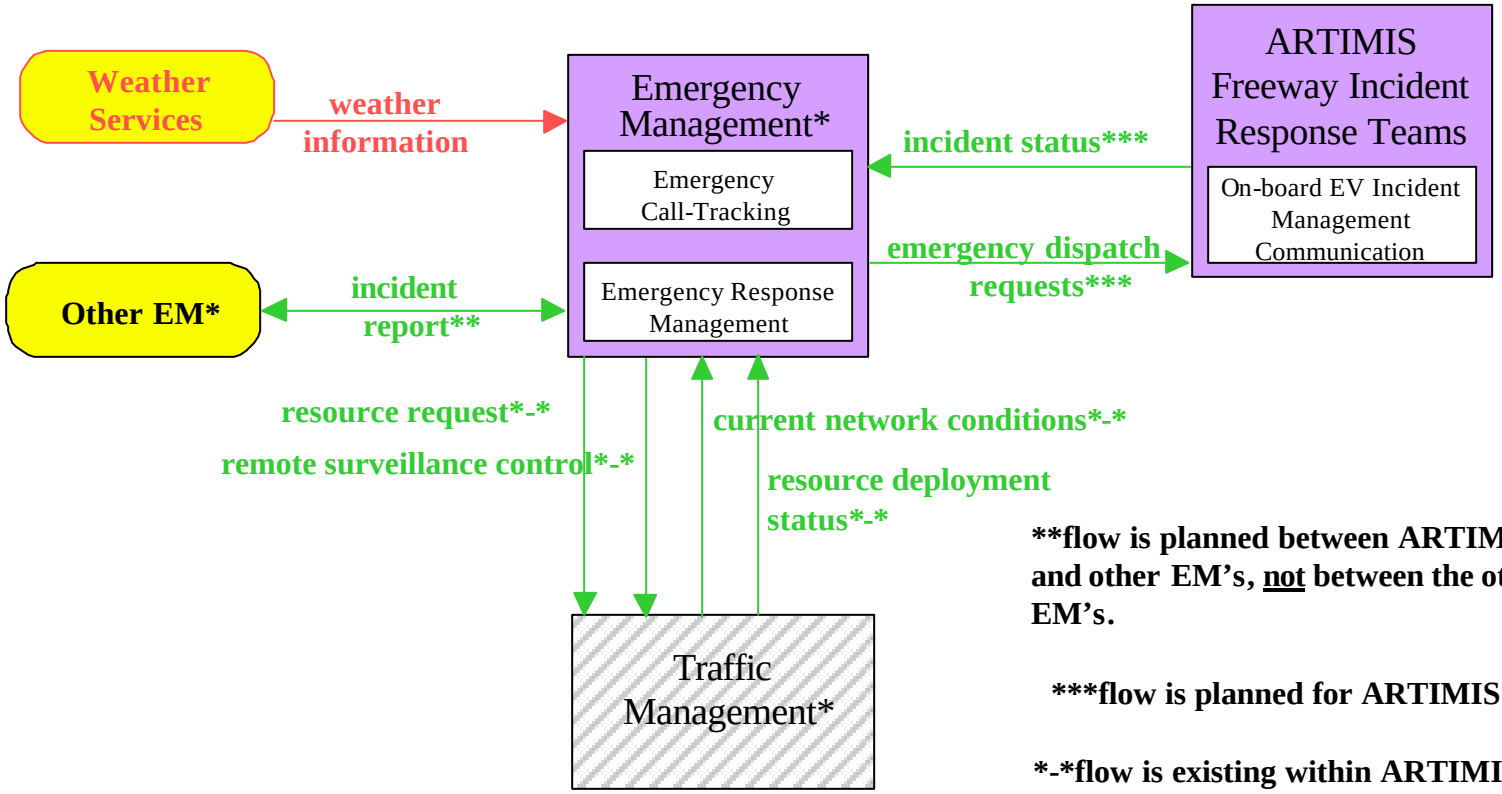
ATMS16 - Parking Facility Management



ATMS18 - Road Weather Information System



EM1 - Emergency Response



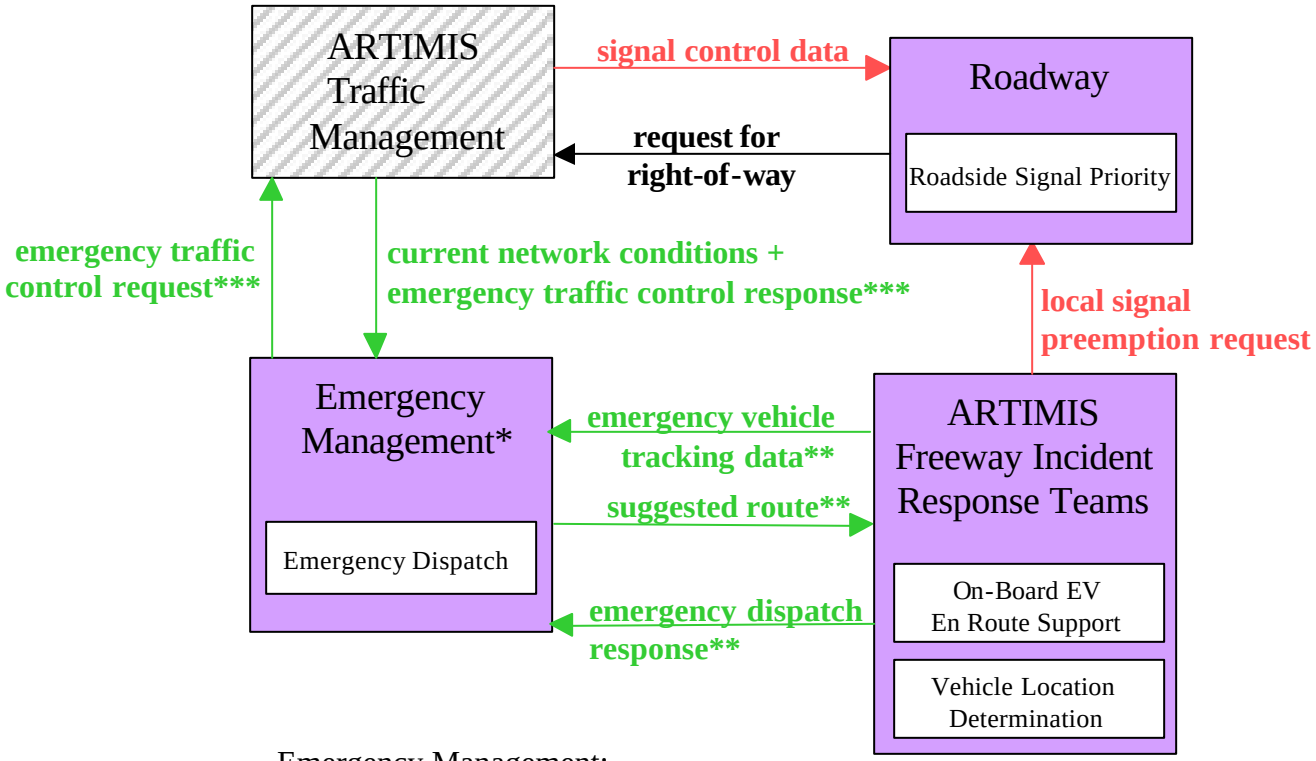
****flow is planned between ARTIMIS EM and other EM's, <u>not</u> between the other EM's.**

*****flow is planned for ARTIMIS EM only**

***-*flow is existing within ARTIMIS, planned for ARTIMIS-other, not for other-other.**

* See slide #2 for listing of specific entities

EM2 - Emergency Routing



Emergency Management:

ARTIMIS Emergency Management
Boone County 911/CAD
City of Cincinnati 911/CAD
Hamilton County 911/CAD
ARTIMIS Area 911/CAD Centers
ARTIMIS Area Emergency Response Agencies

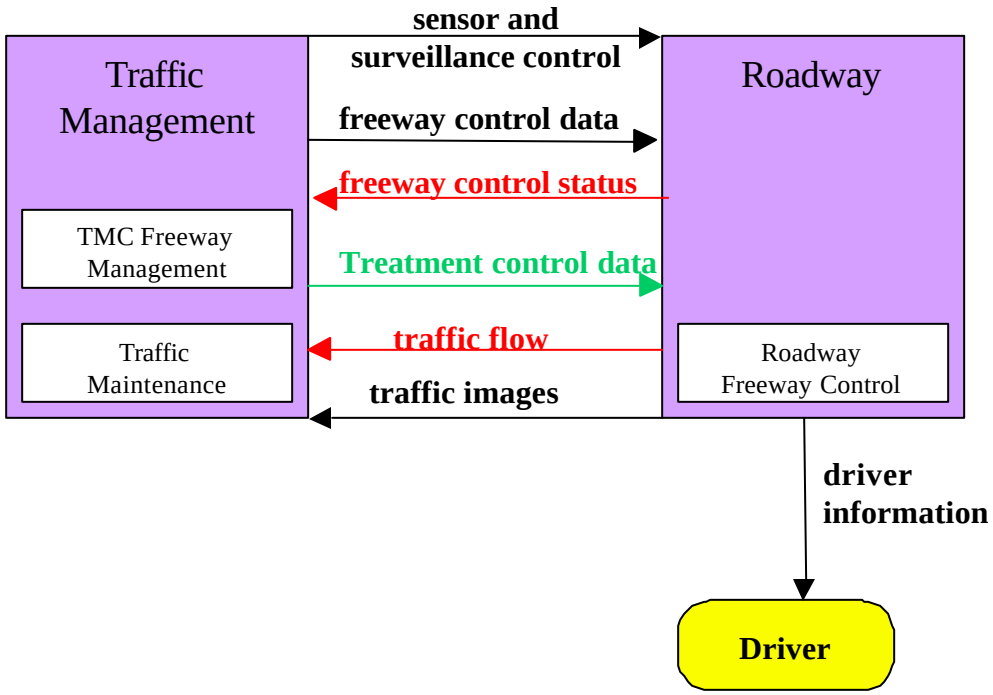
****flow is planned for ARTIMIS EM only**

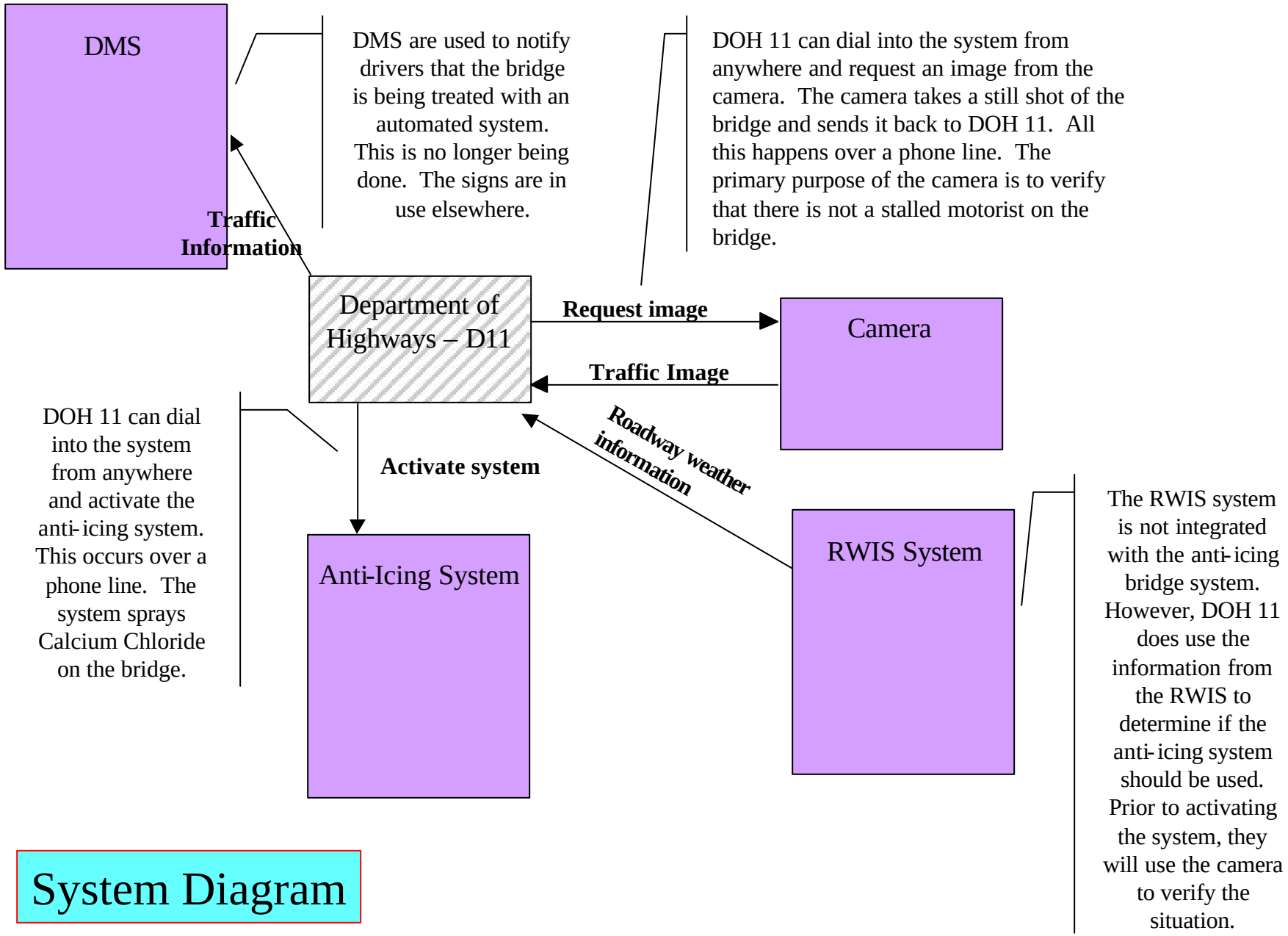
****flow is existing for ARTIMIS EM**

Market Package Diagrams: Bridge Anti-Icing

For the Kentucky Statewide ITS Architecture: 8/16/01

ATMS04 - Freeway Control



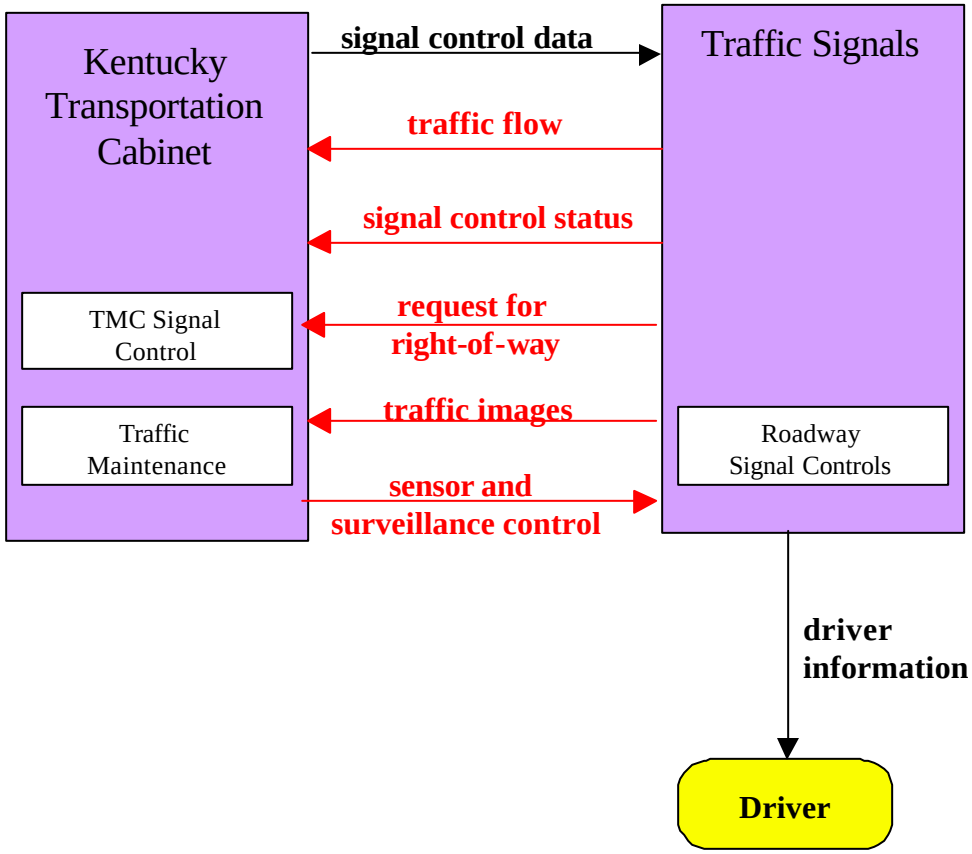


System Diagram

Market Package Diagrams: Coordinated Signal Systems

For the Kentucky Statewide ITS Architecture: 8/16/01

ATMS03 - Surface Street Control



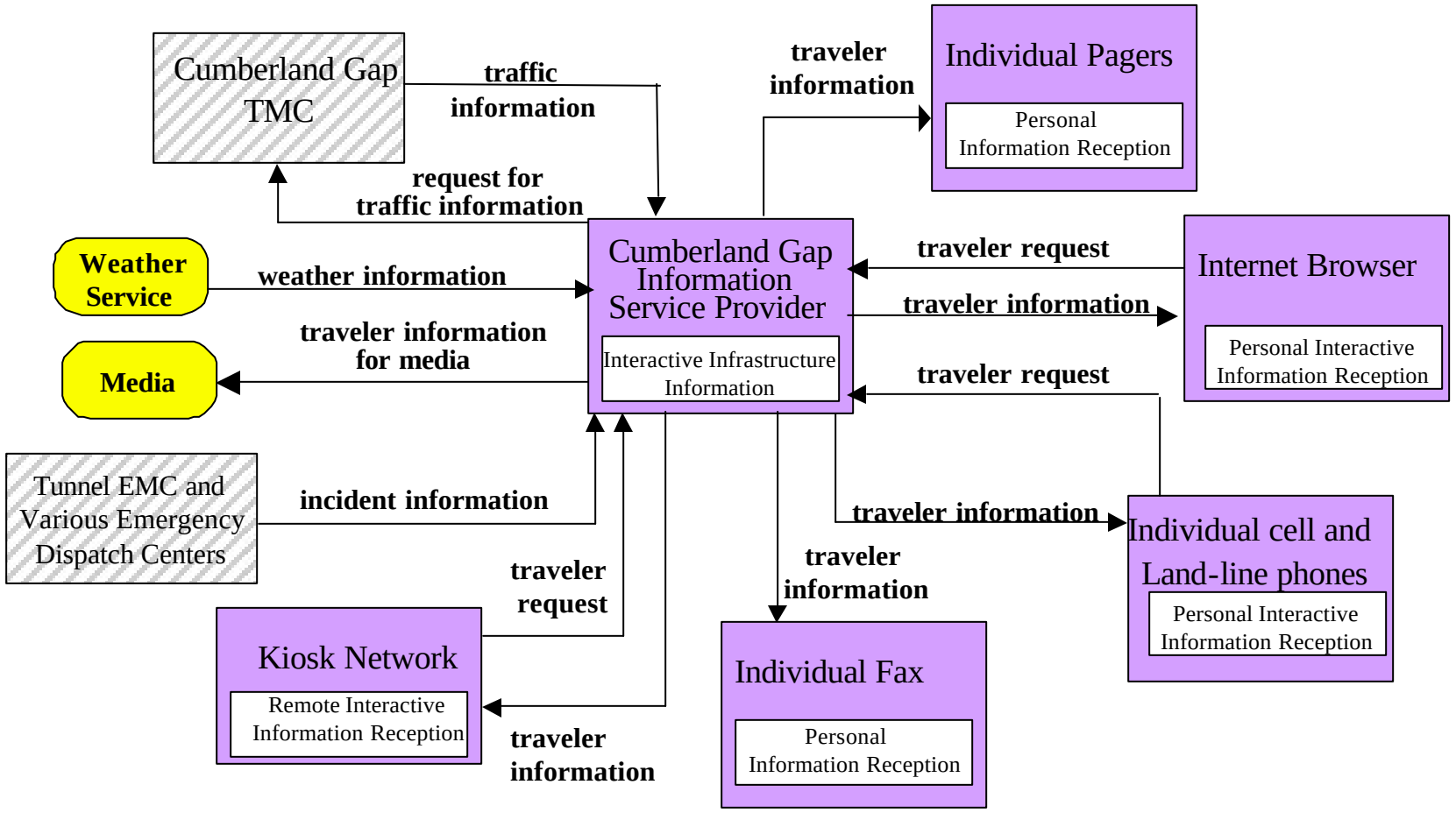
Cities or Counties Included:

Paducah	Boone County
Murray	Paris
Bowling Green	Danville
Radcliff	Winchester
Elizabethtown	Nicholasville
Jefferson County	Berea
Shelbyville	Richmond
Middletown	Georgetown
LeGrange	Somerset
Frankfort	Morehead
Alexandria	Flatwoods
Cynthiana	Grayson
Kenton County	Ashland
Newport	West Liberty
Dixie	Irvine
Covington	Pikeville
Bellevue	Prestonsburg
Dayton	Paintsville
Ludlow	Whitesburg
Campbell County	Louisa
Kenton County	Henderson
Florence	Owensboro

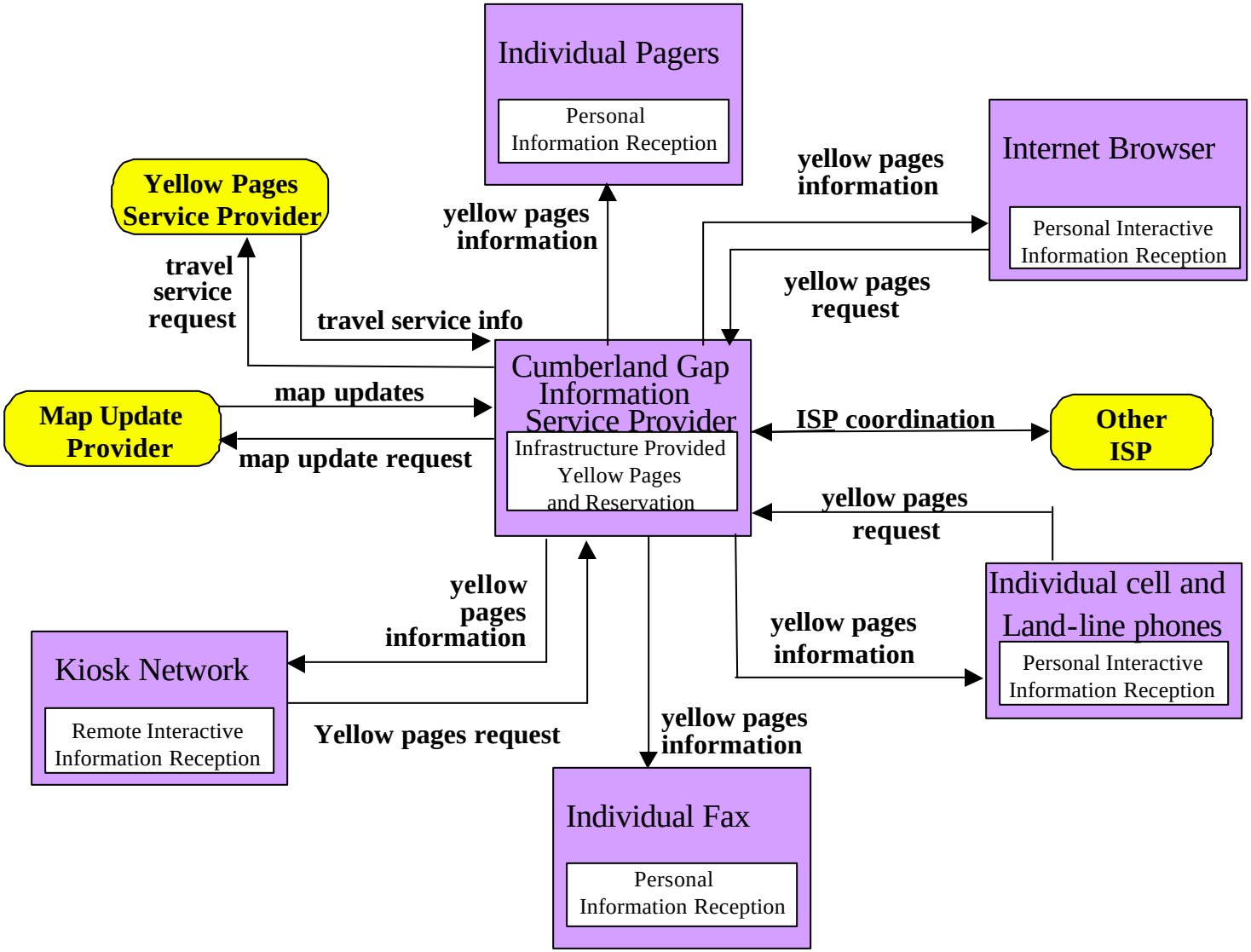
Market Package Diagrams: Cumberland Gap Tunnel

For the Kentucky Statewide ITS Architecture: 4/18/02

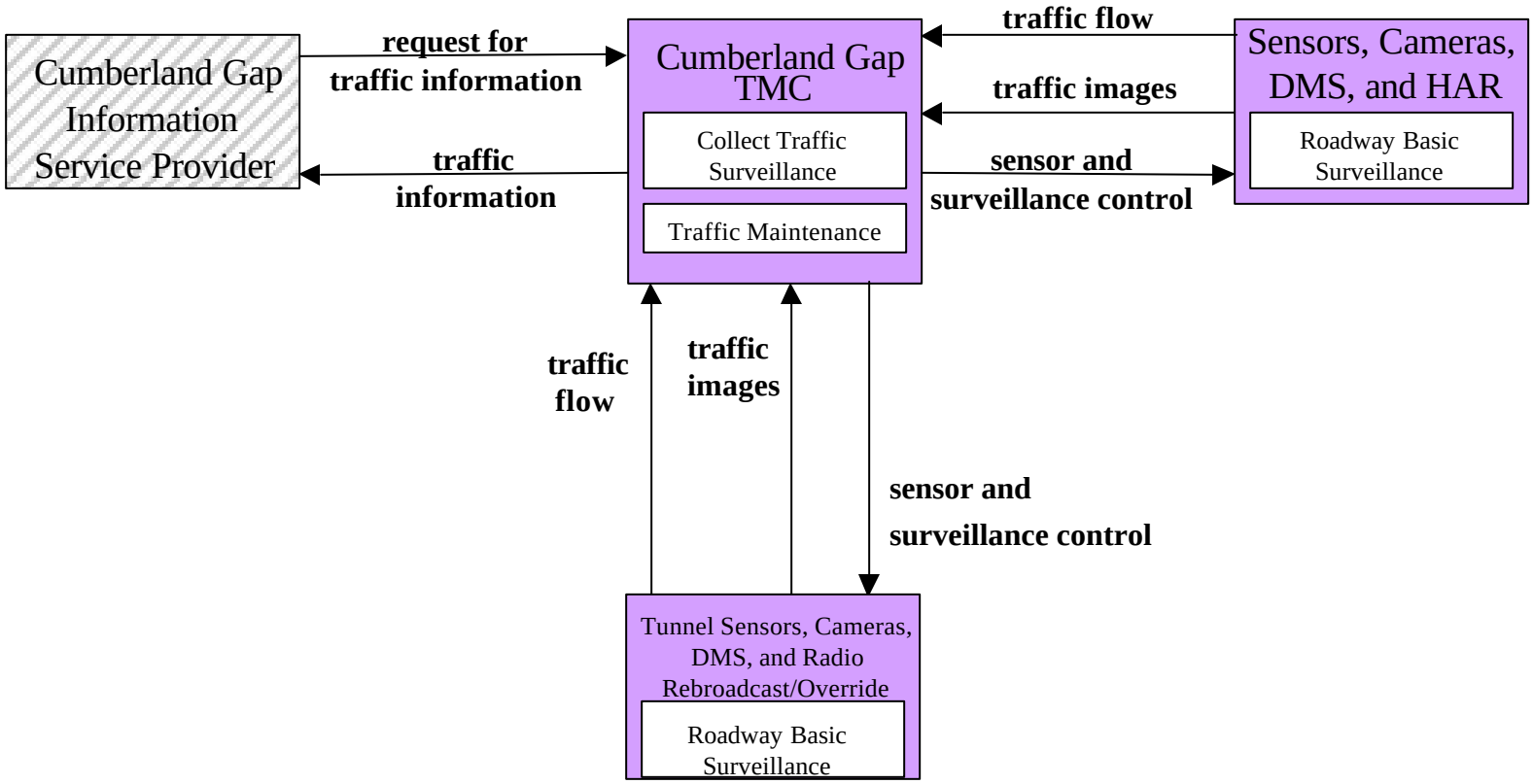
ATIS2 - Interactive Traveler Information



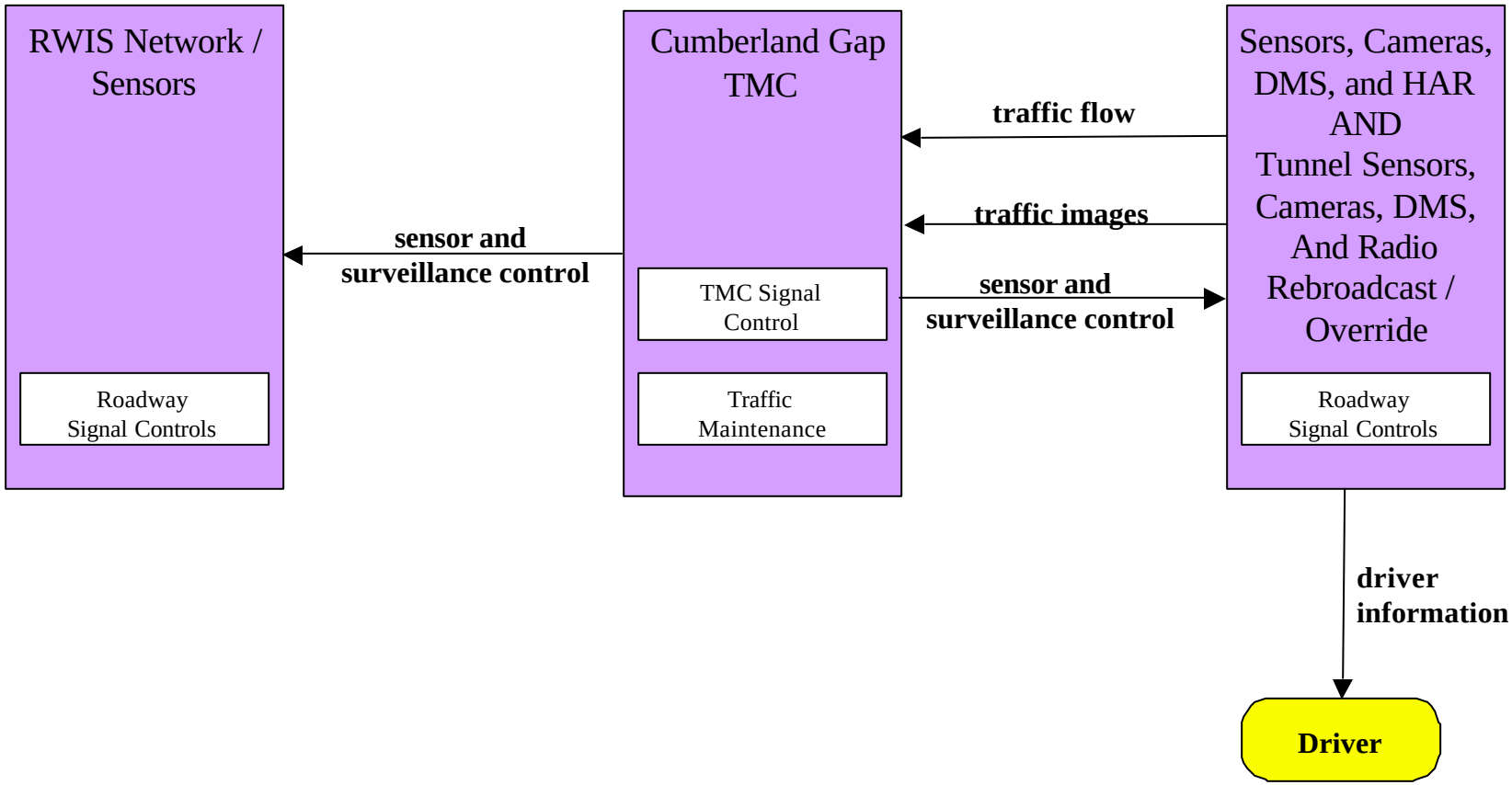
ATIS7 - Yellow Pages and Reservation



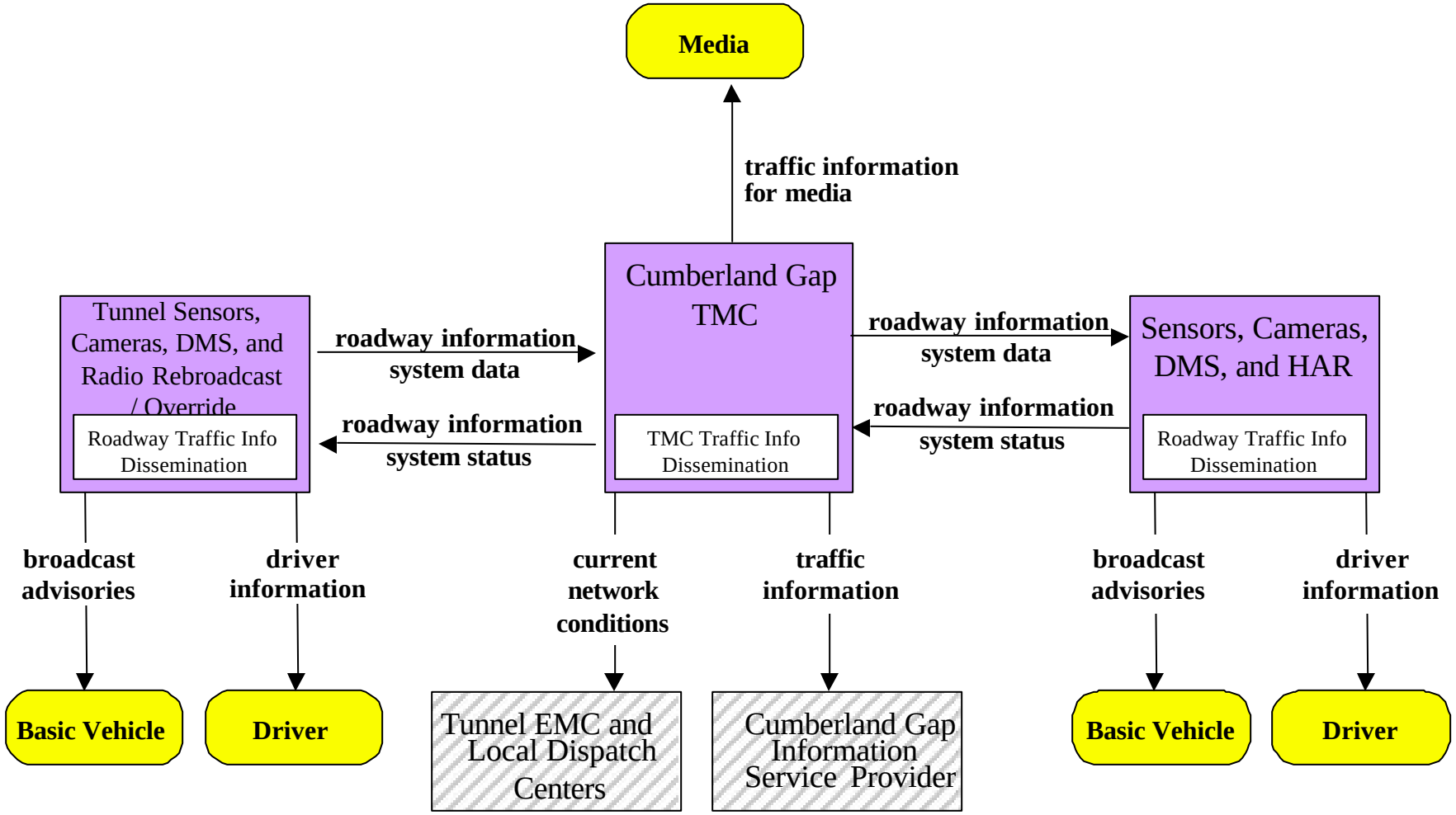
ATMS01 - Network Surveillance



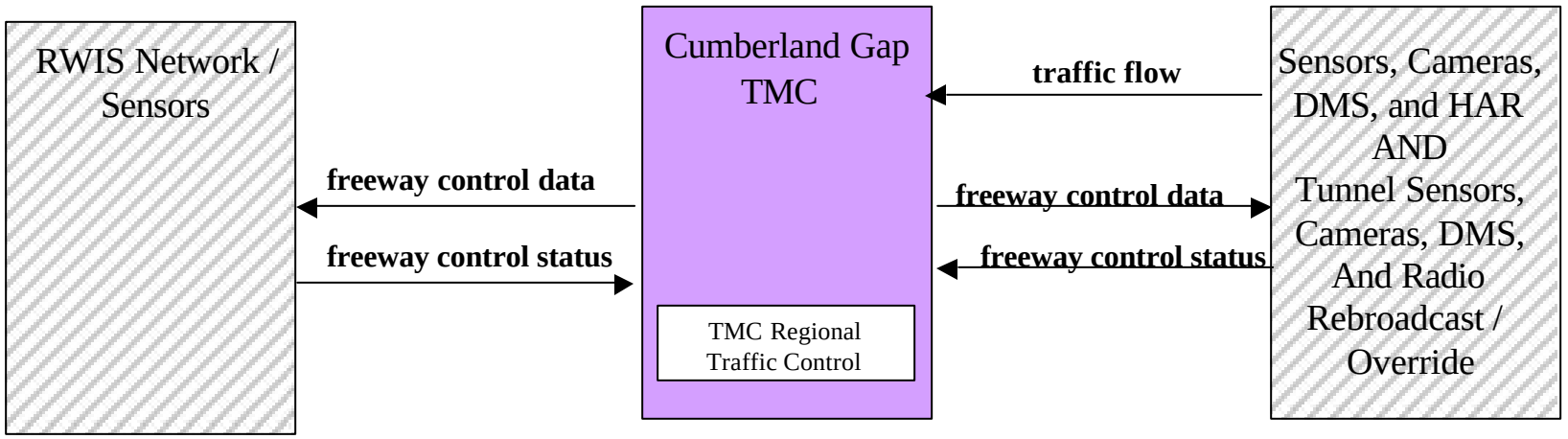
ATMS03 - Surface Street Control



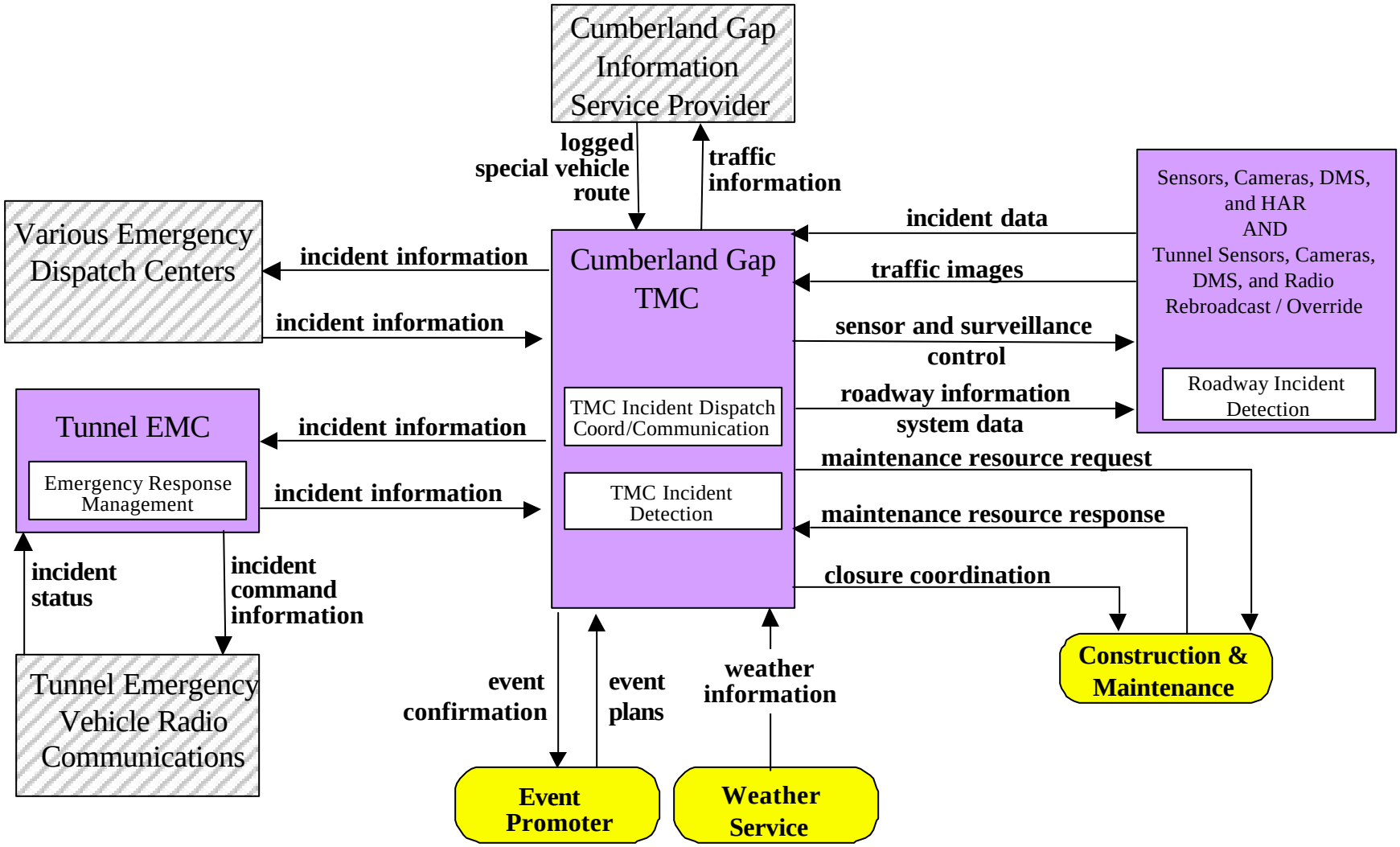
ATMS06 Traffic Information Dissemination



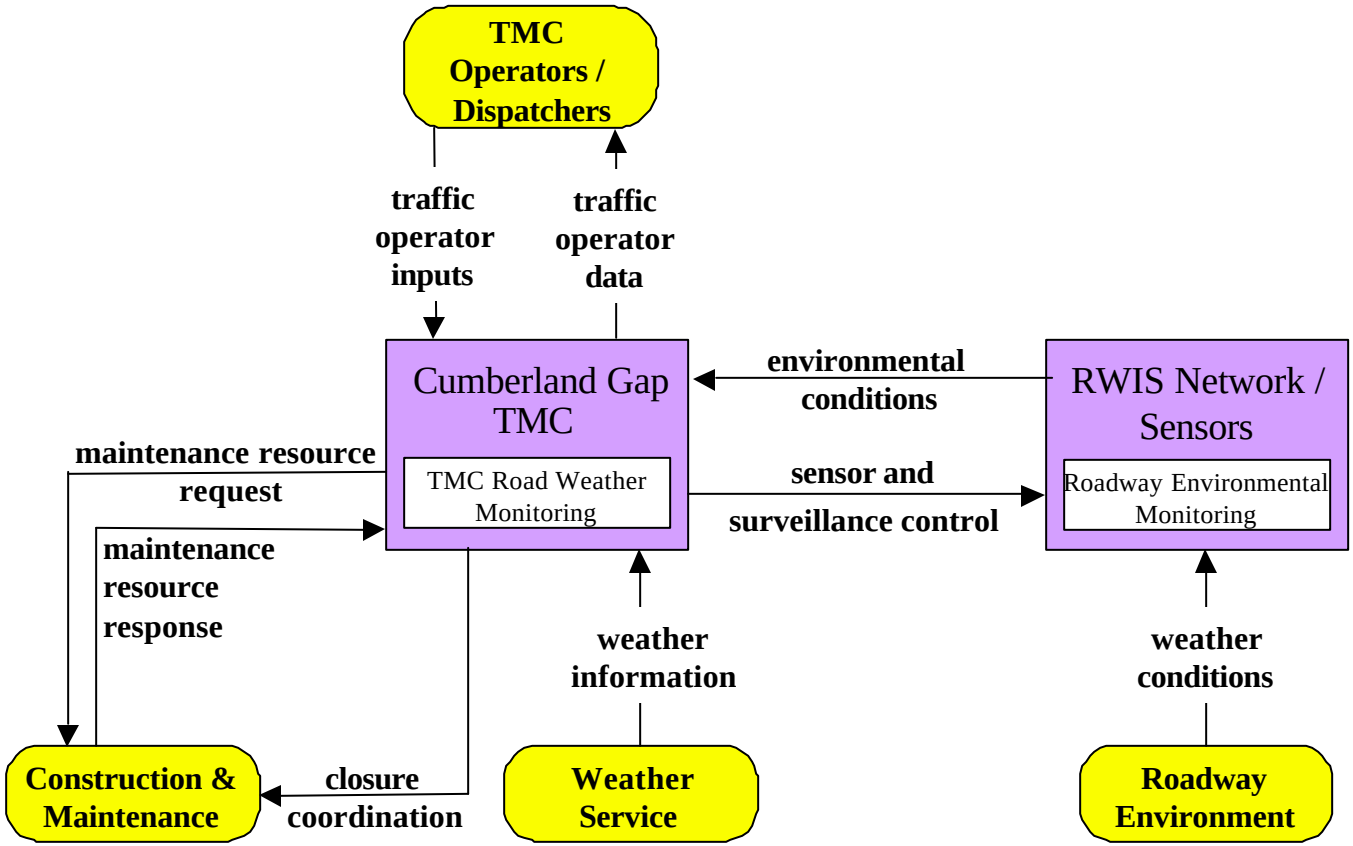
ATMS07 - Regional Traffic Control



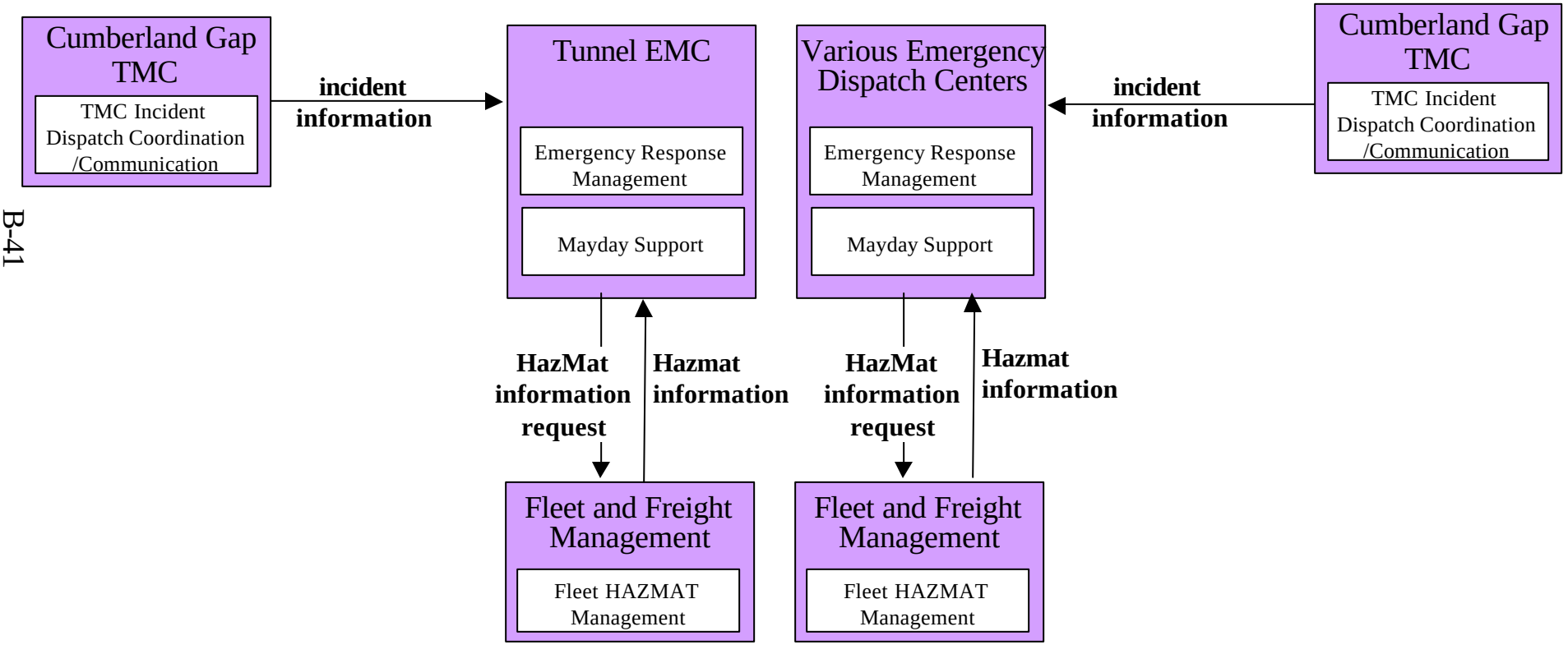
ATMS08 - Incident Management System



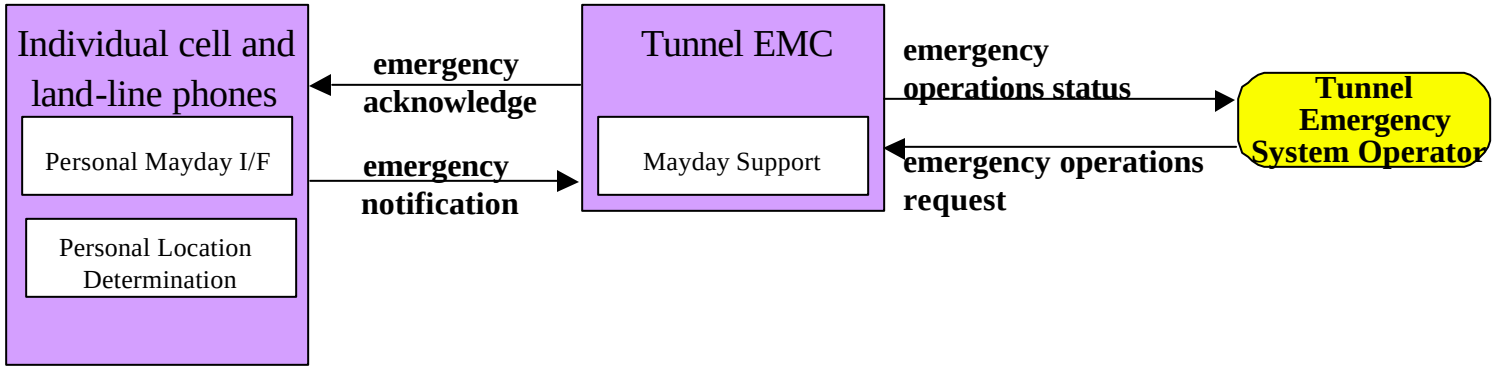
ATMS18 - Road Weather Information System



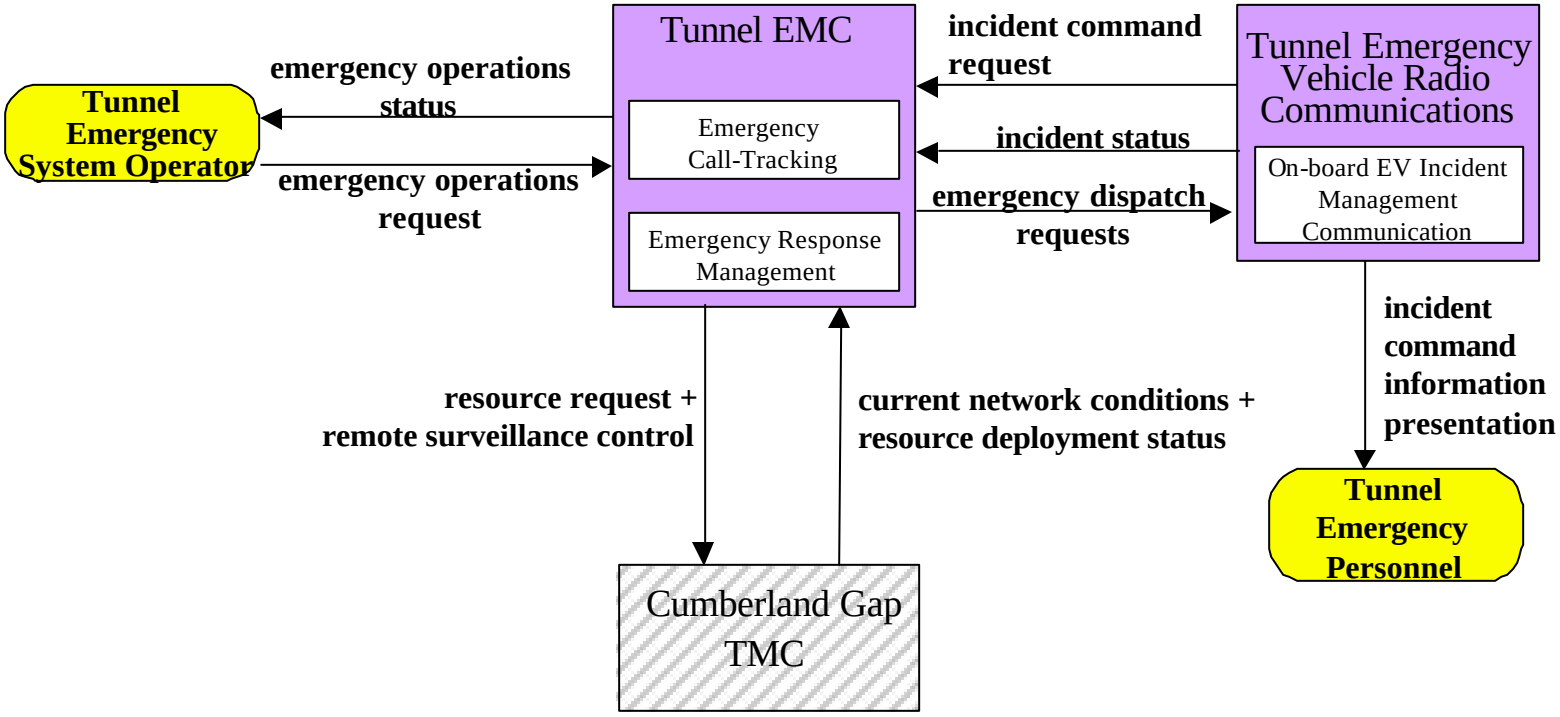
CVO10 - HAZMAT Management



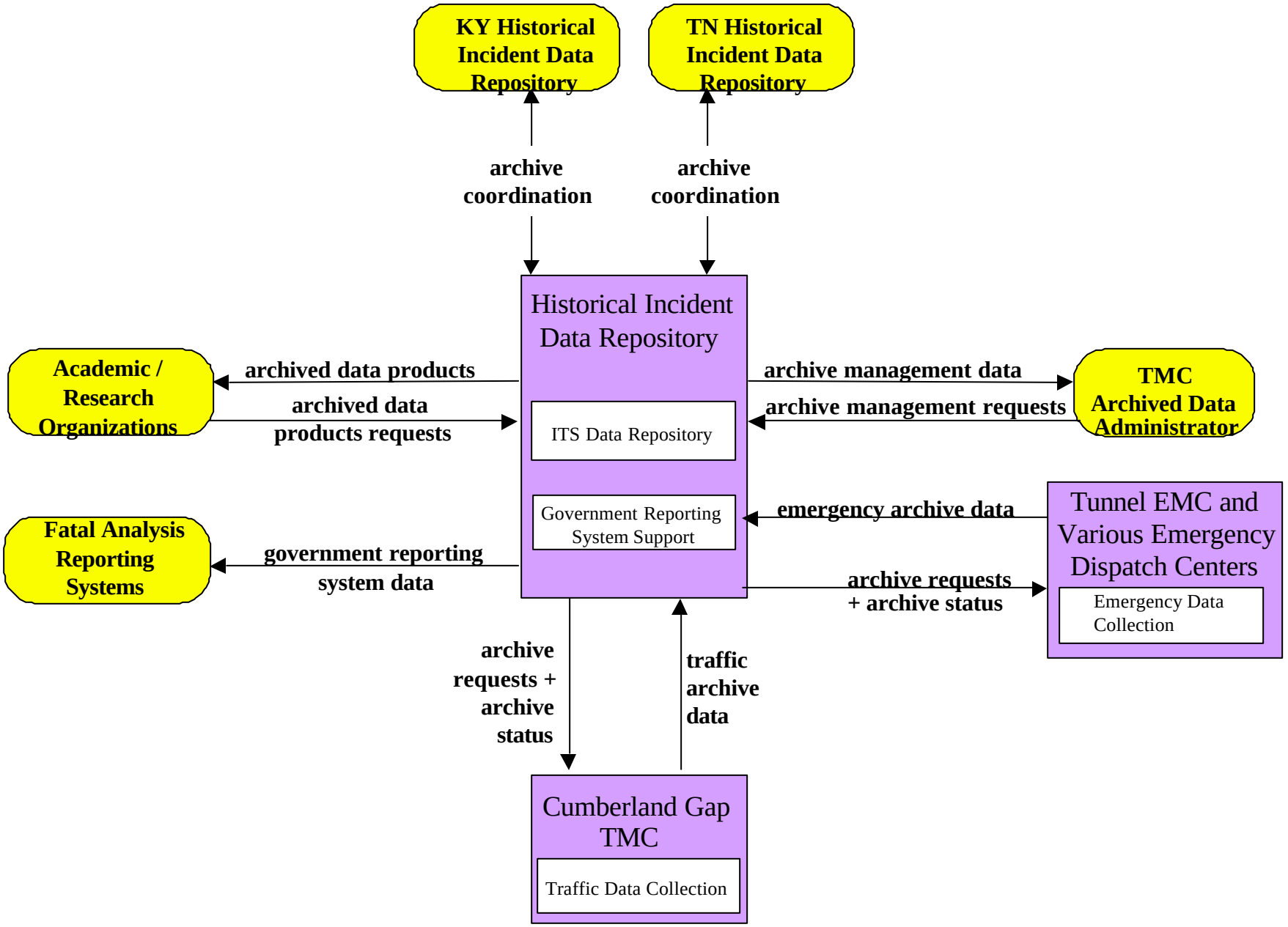
EM3 - Mayday Support



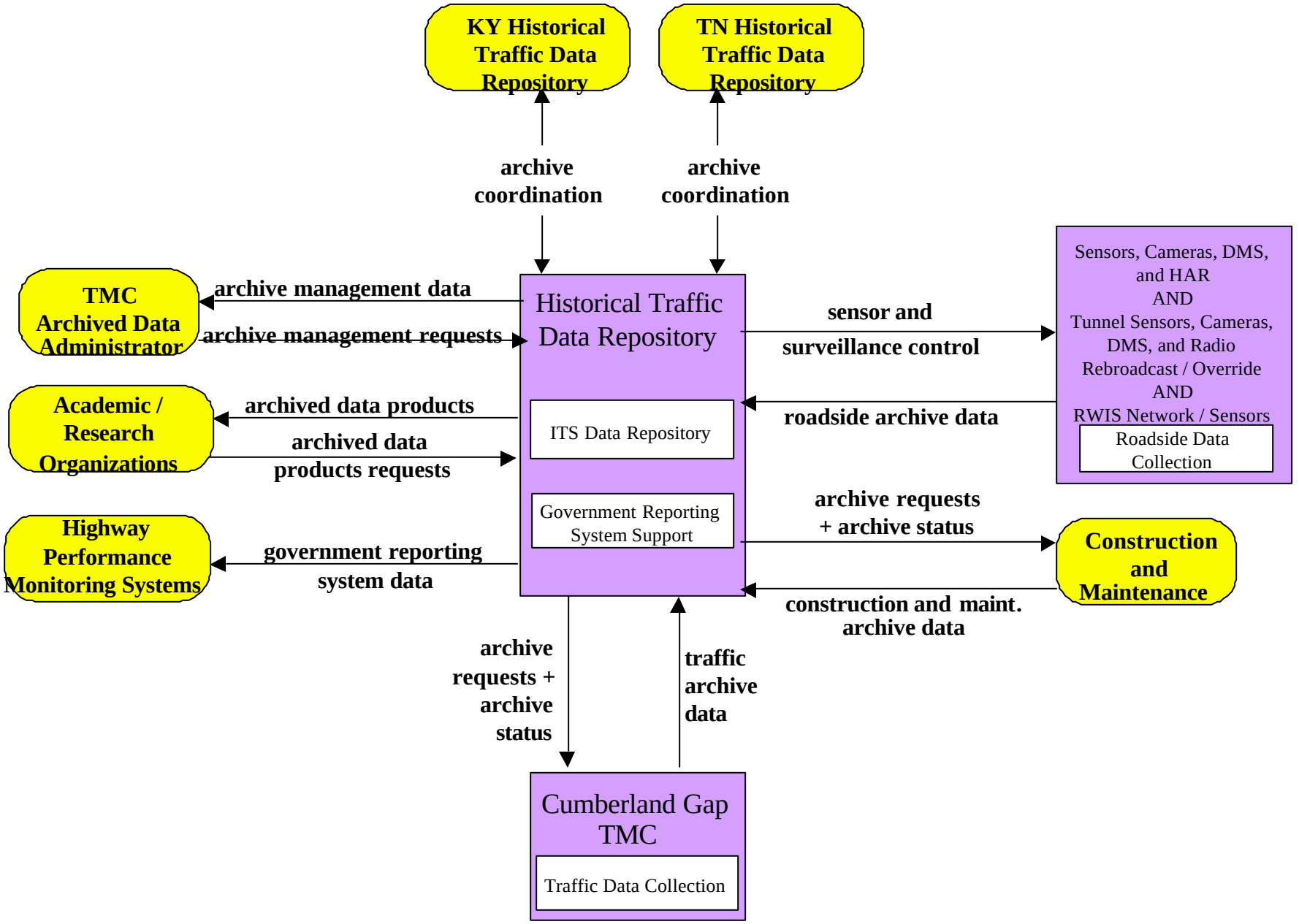
EM1 - Emergency Response



AD1 - ITS Data Mart



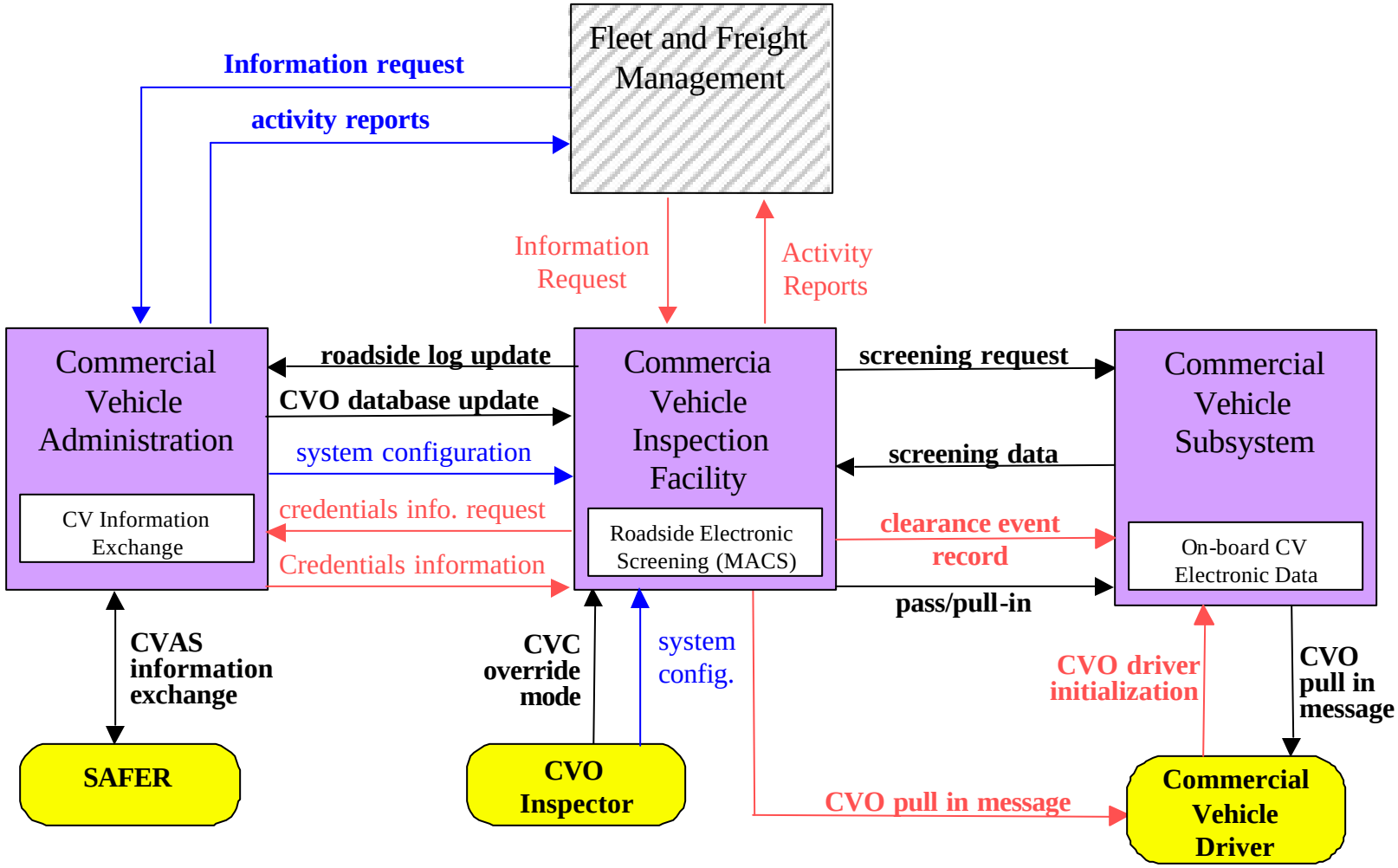
AD1 - ITS Data Mart



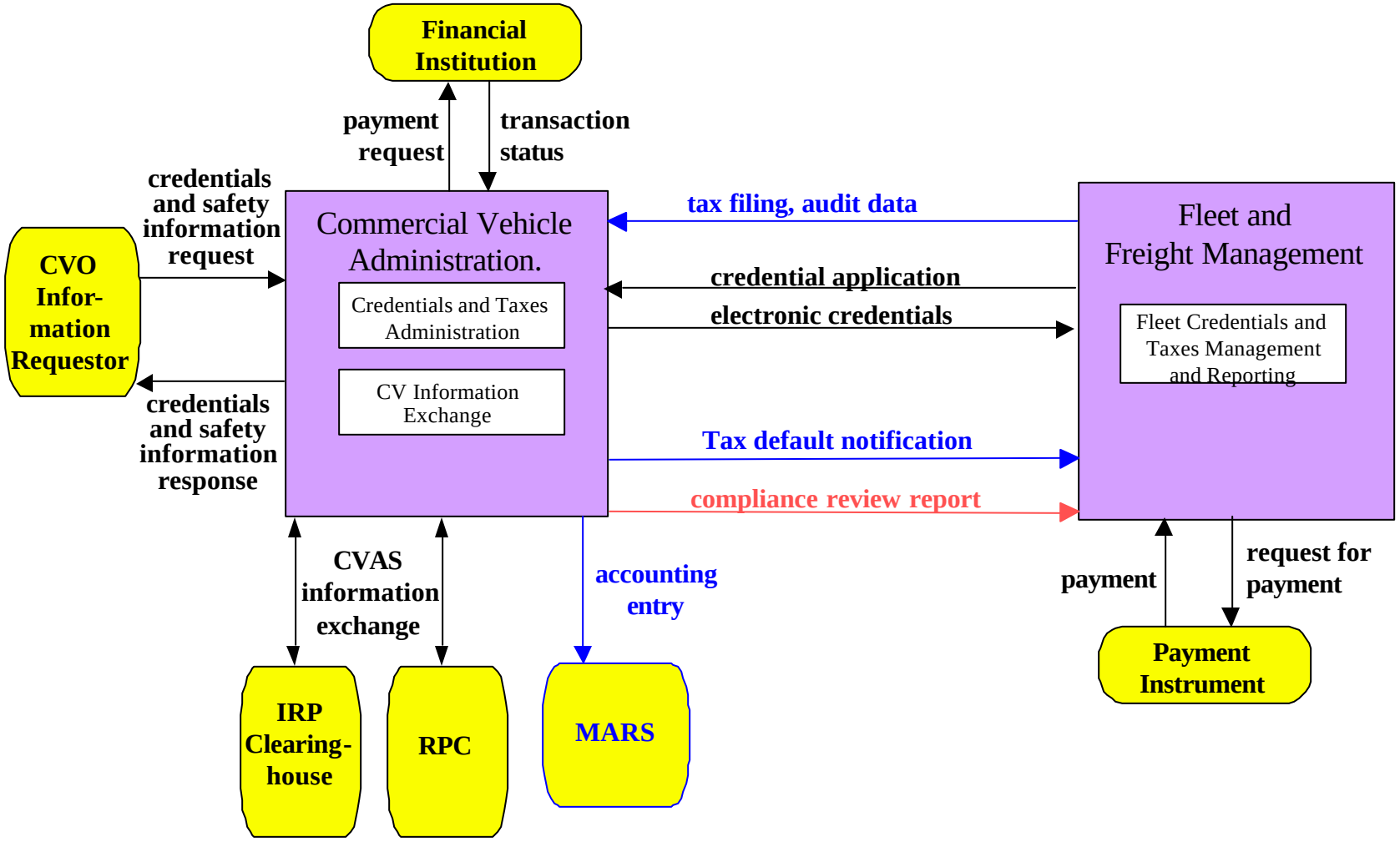
Market Package Diagrams: CVO

Kentucky Statewide ITS
Architecture: 2/22/01

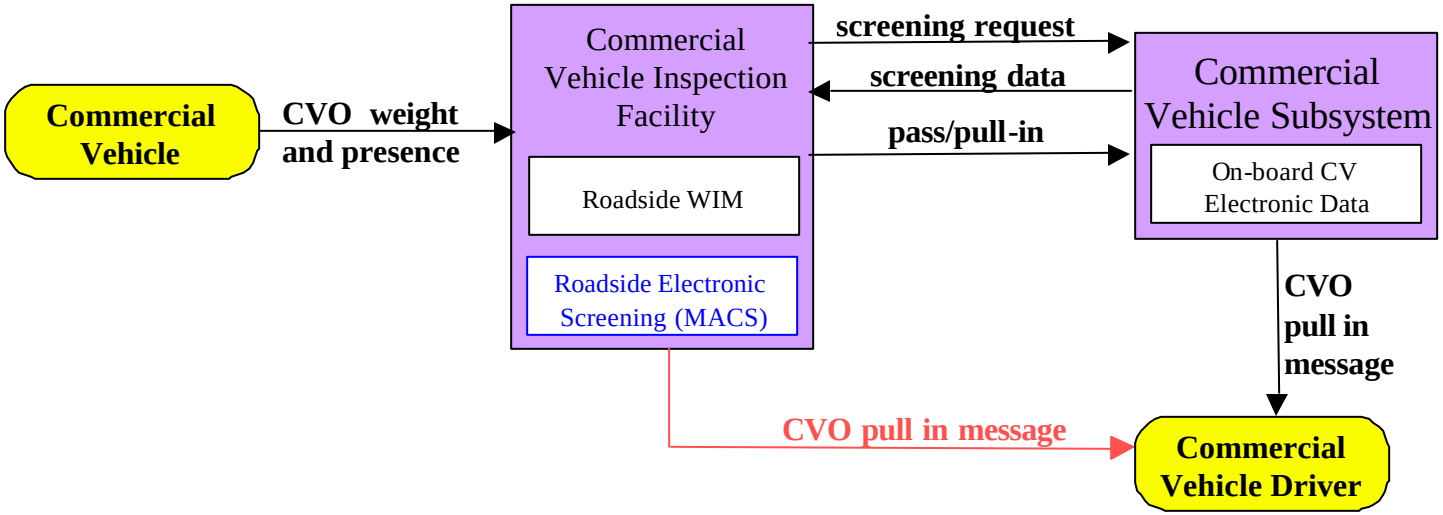
CVO03 - Electronic Clearance



CVO04 - CV Administrative Processes

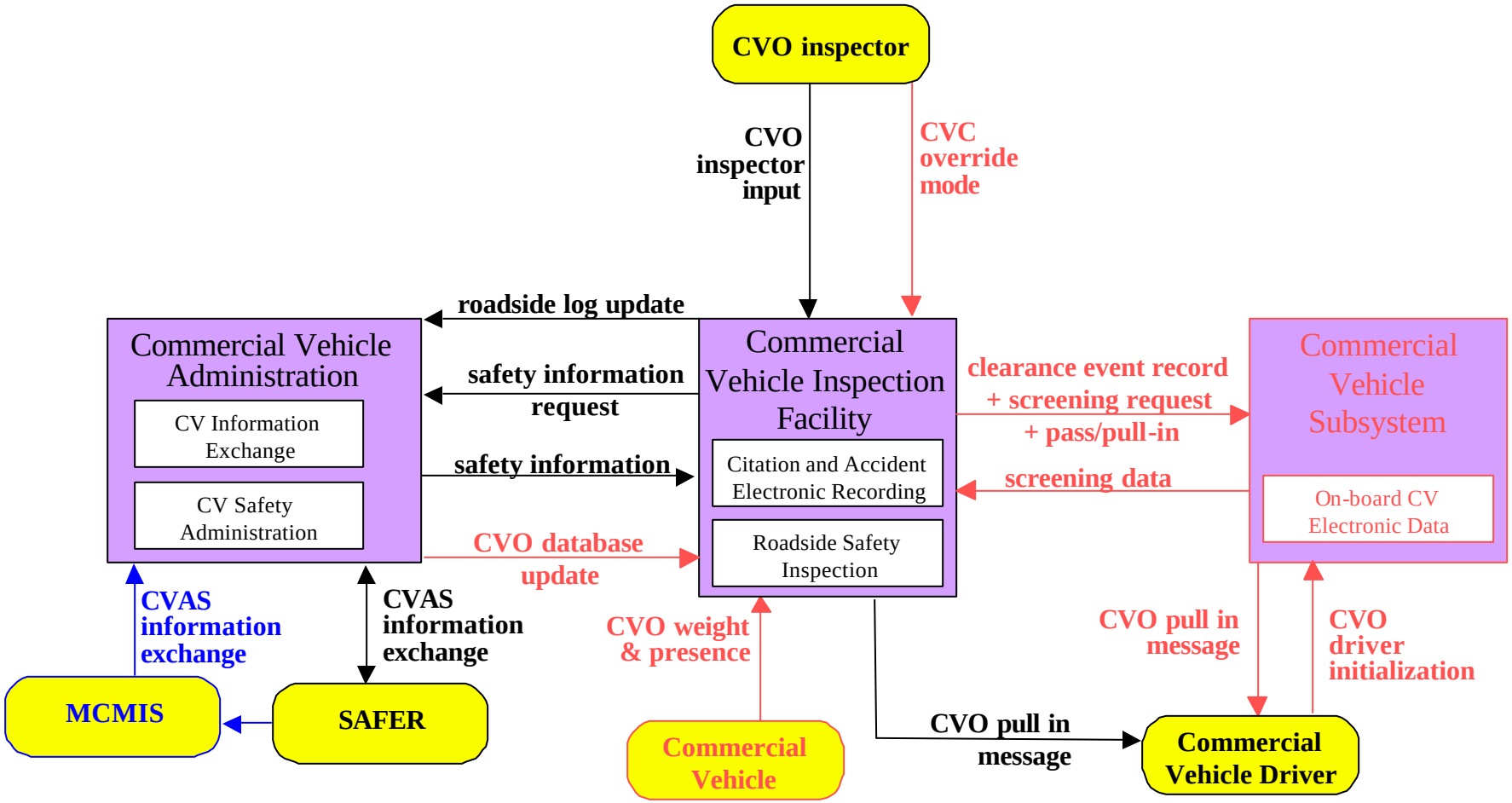


CVO06 - Weigh-In-Motion

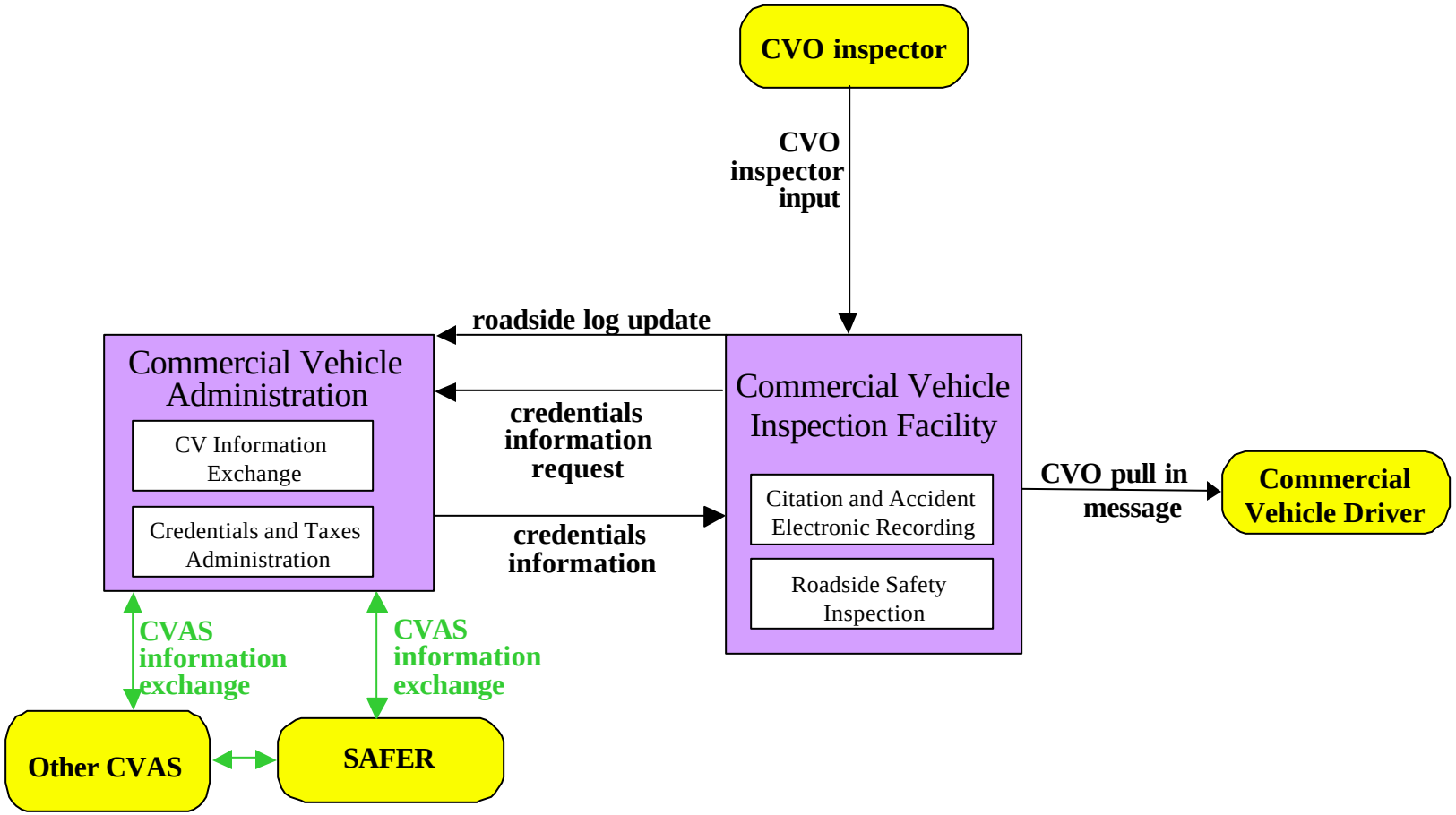


Note: This market package describes high-speed weigh-in-motion that is implemented in conjunction with electronic screening. It does not include low-speed ramp weigh-in-motion.

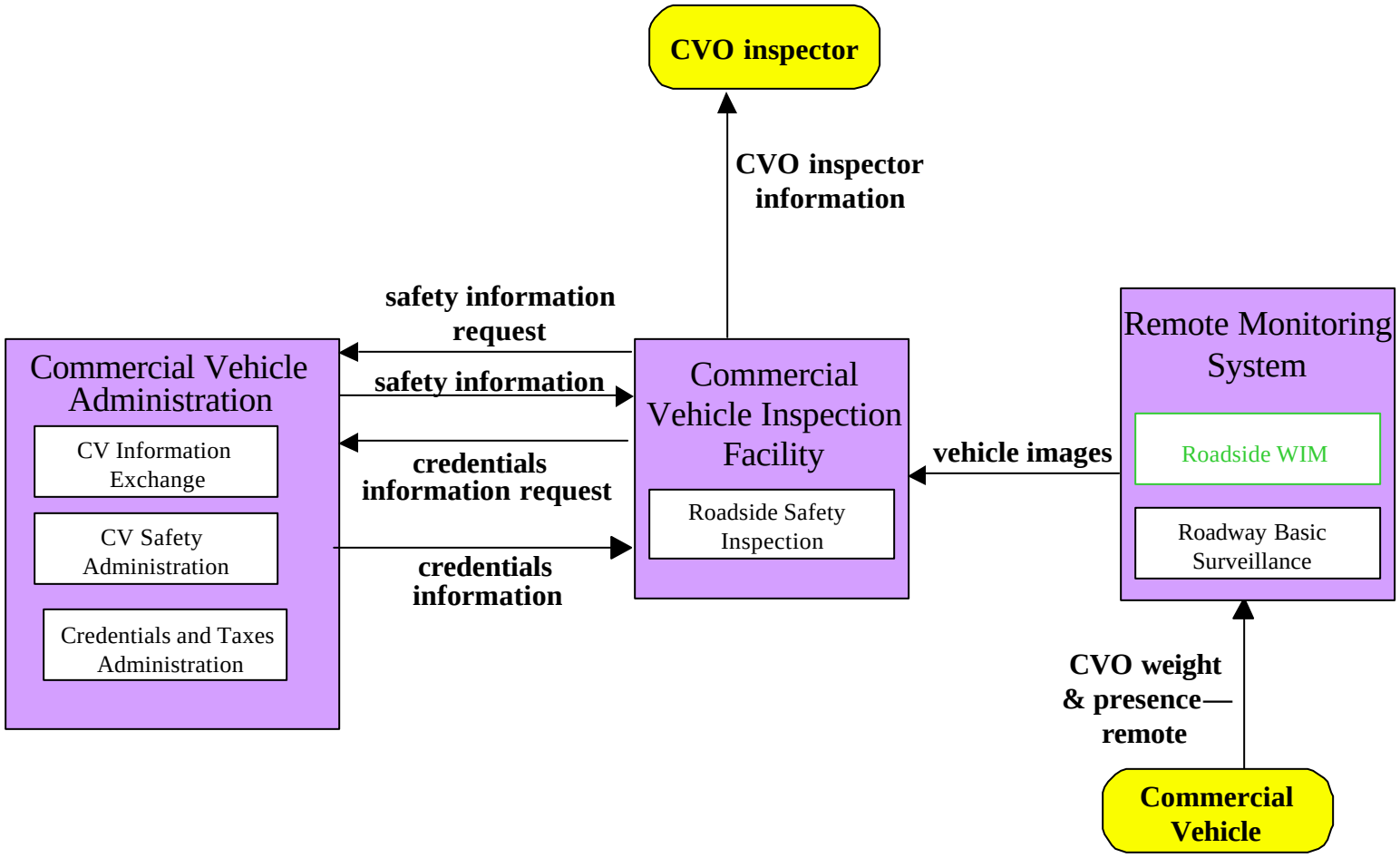
CVO07 - Roadside CVO Safety



CVO11(KY) - Roadside CVO Credentials Checks
(this should probably be incorporated into CVO04)



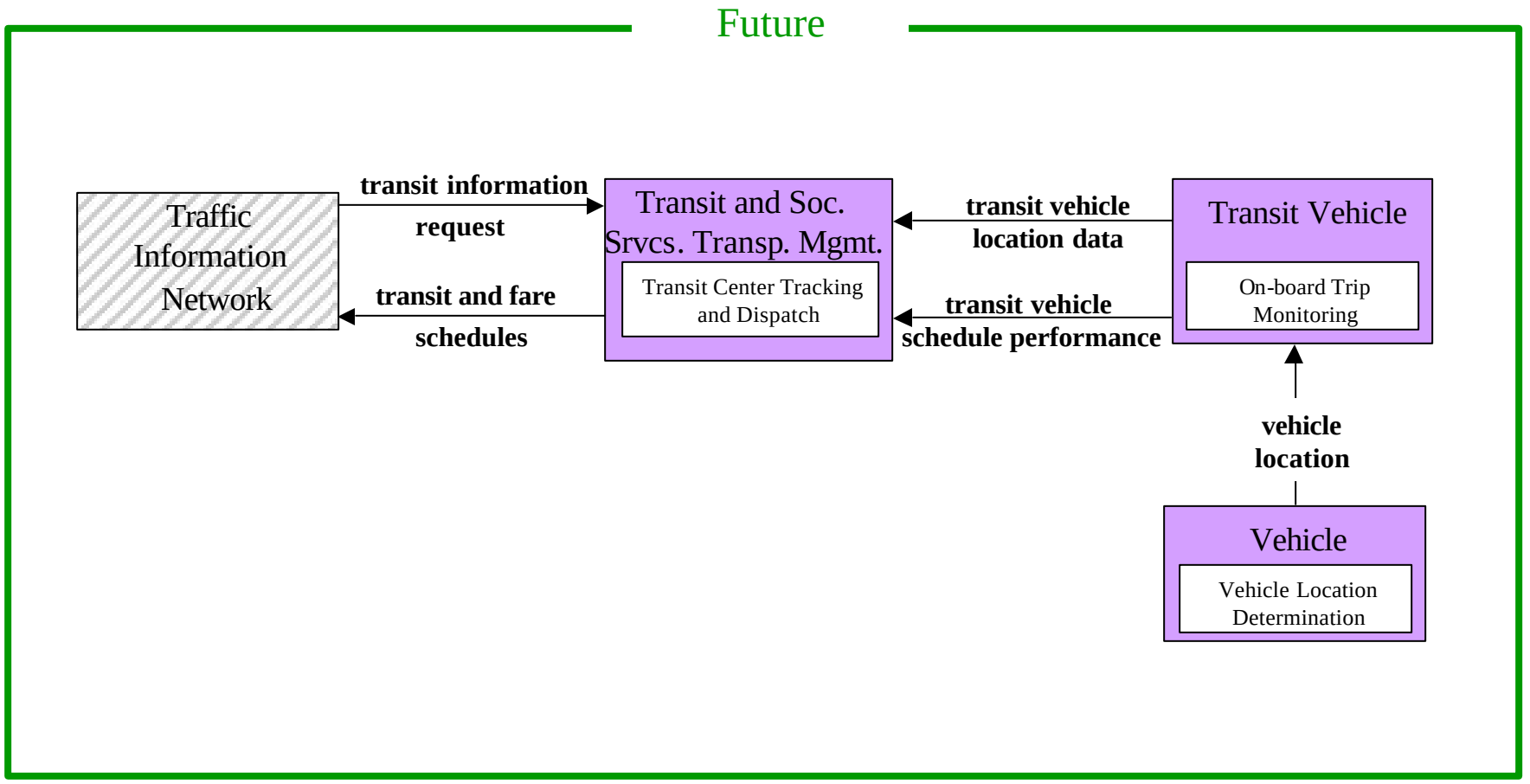
CVO12(KY) - CVO Remote Monitoring
(This should probably be incorporated into CVO07)



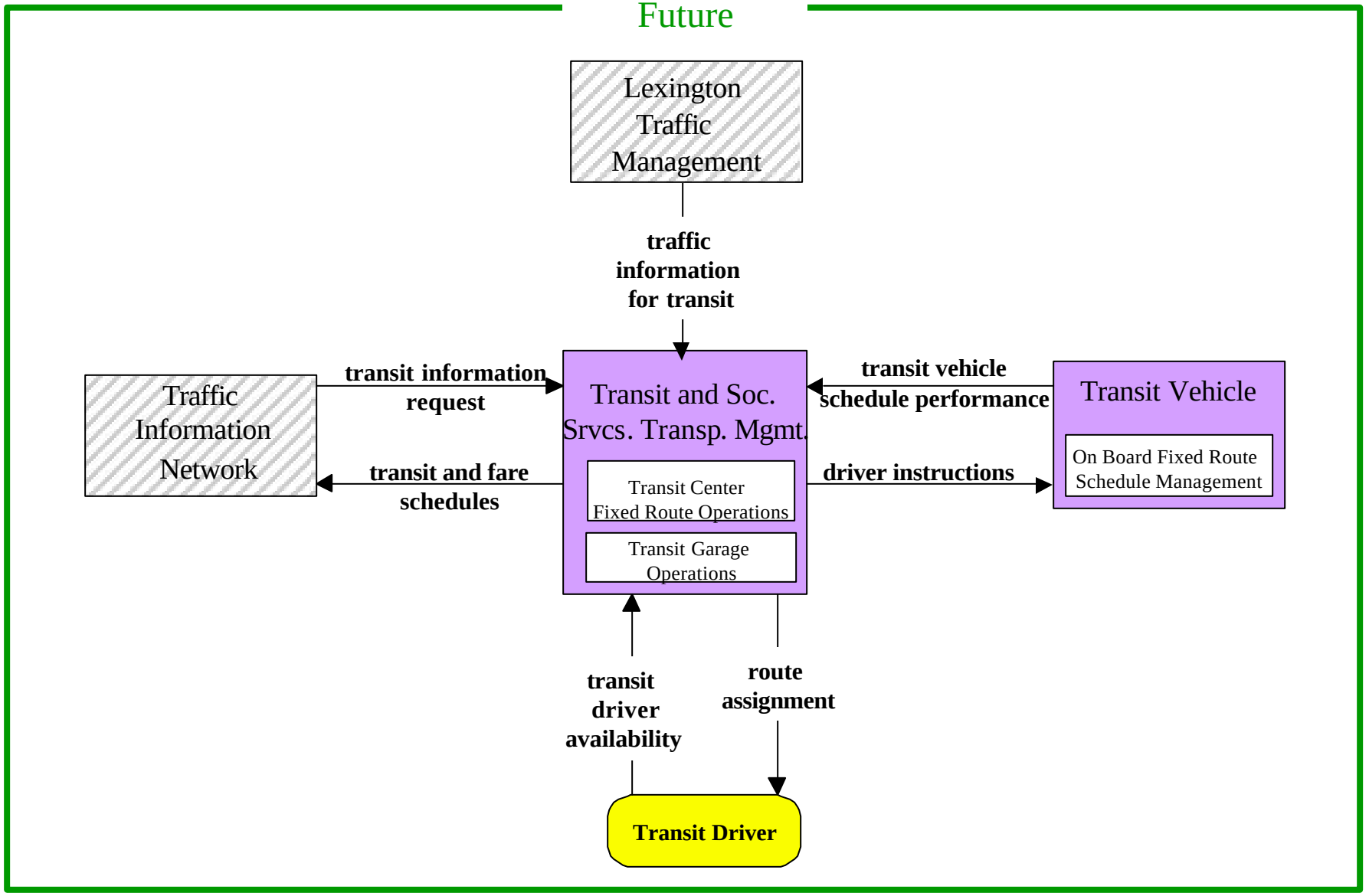
Market Package Diagrams: Lexington

For the Kentucky Statewide ITS Architecture: 8/16/01

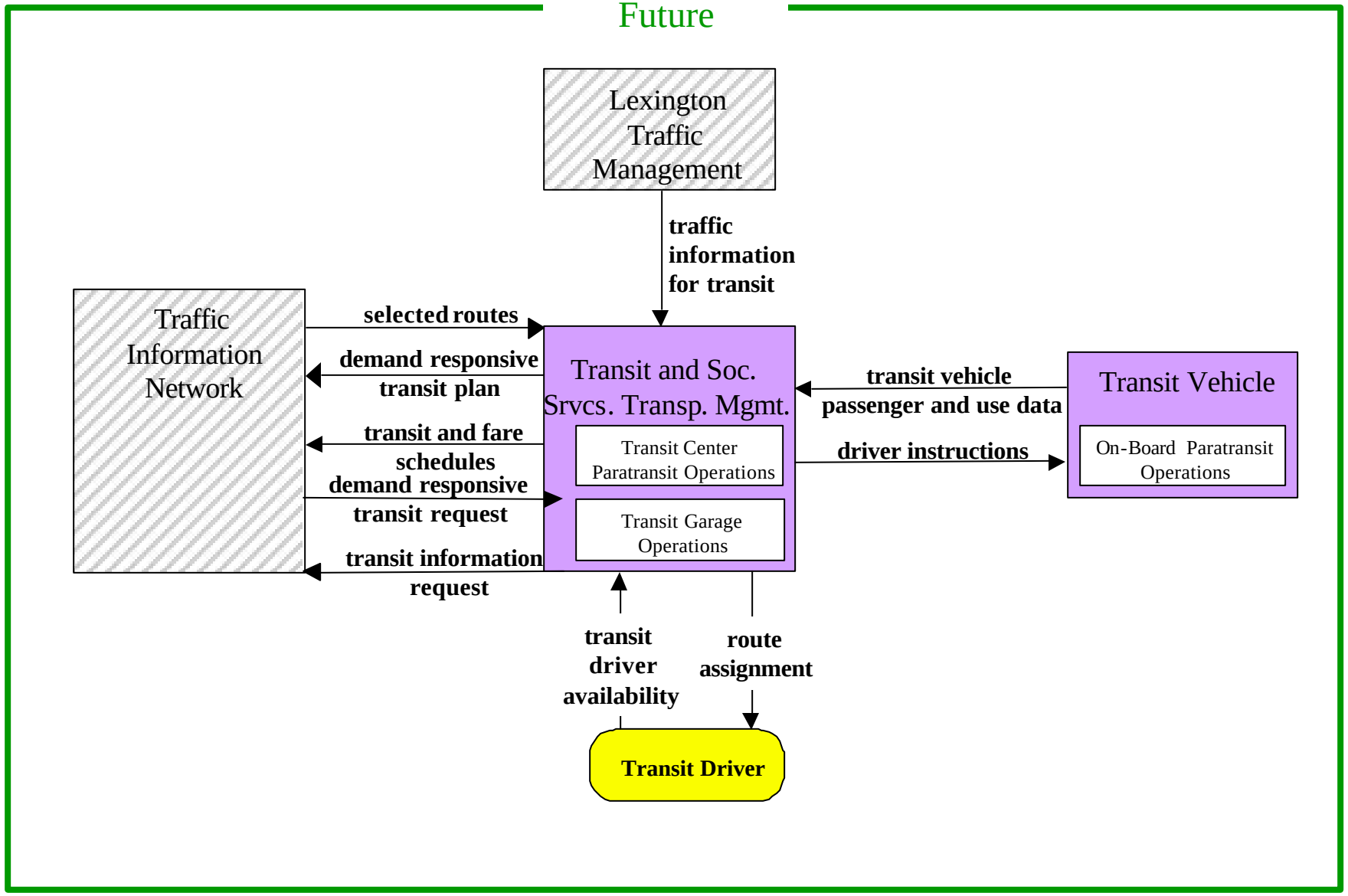
APTS1 - Transit Vehicle Tracking



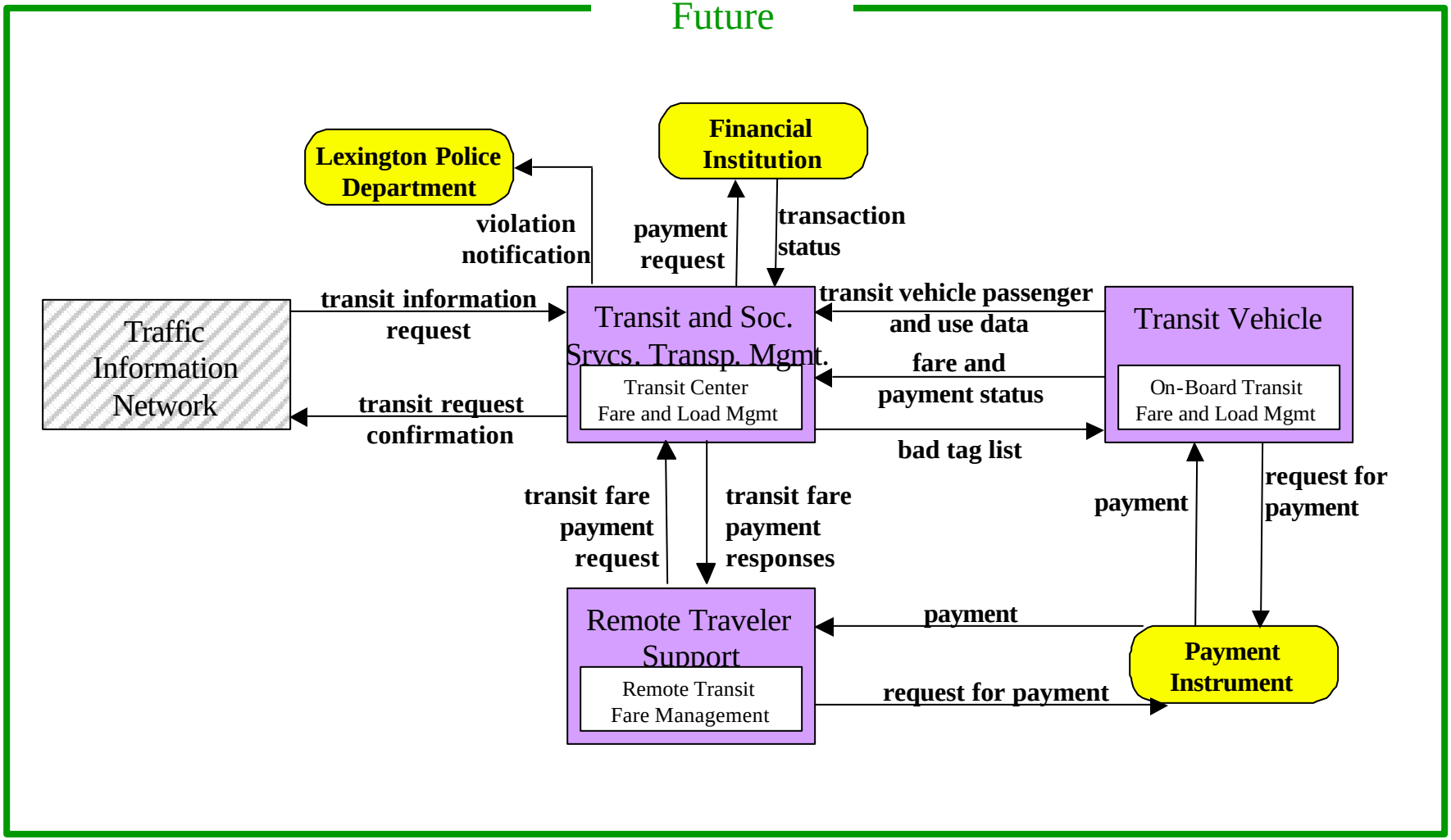
APTS2 - Transit Fixed-Route Operations



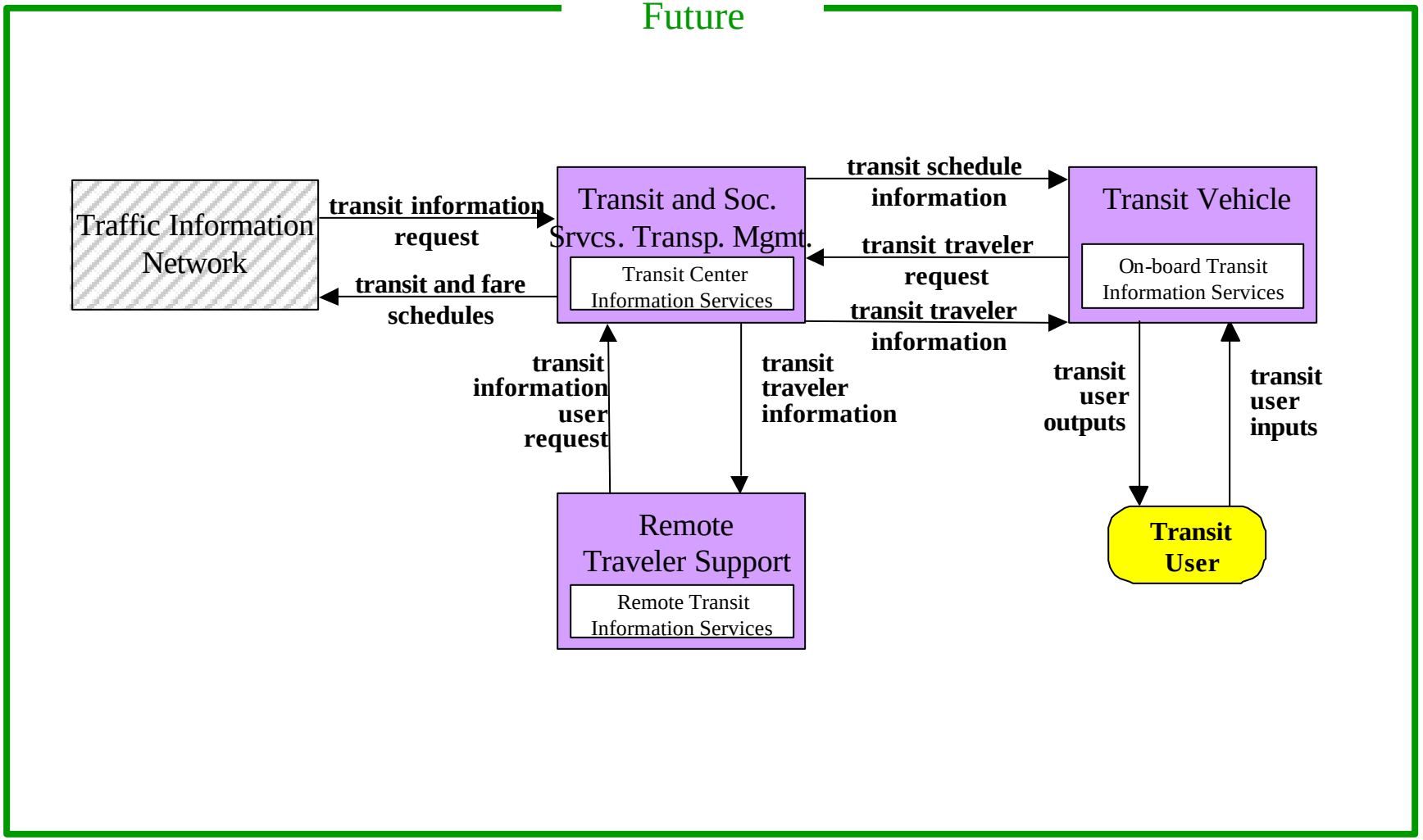
APTS3 - Demand Response Transit Operations



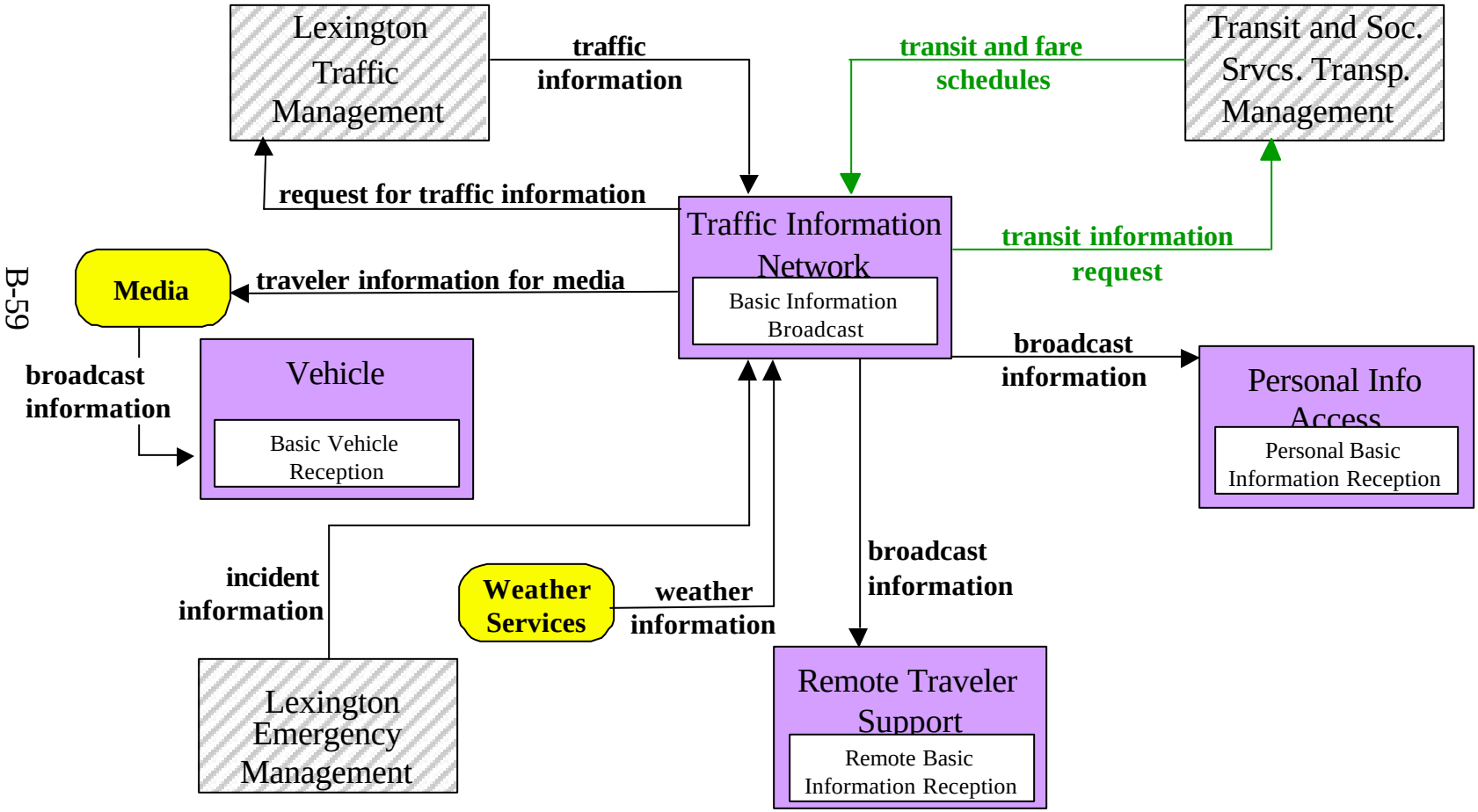
APTS4 Transit Passenger and Fare Management



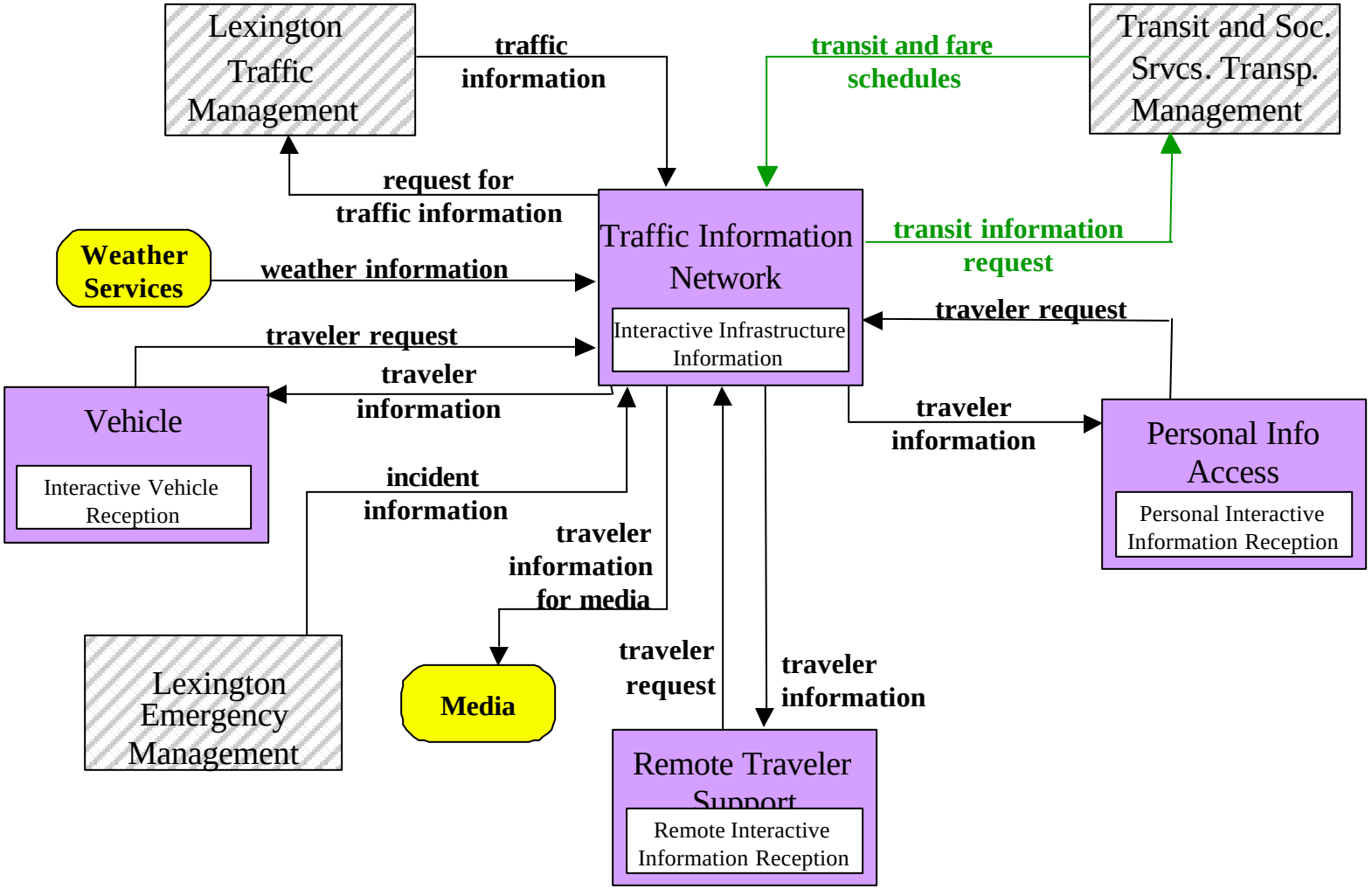
APTS8 - Transit Traveler Information



ATIS1 - Broadcast Traveler Information

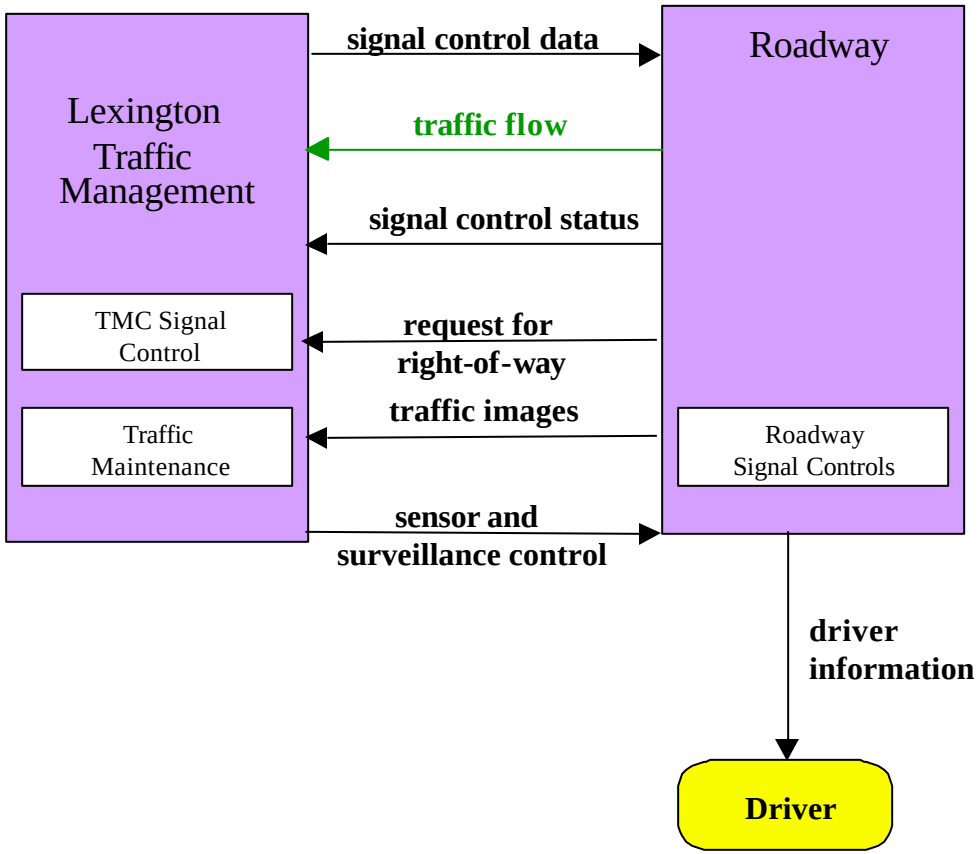


ATIS2 - Interactive Traveler Information

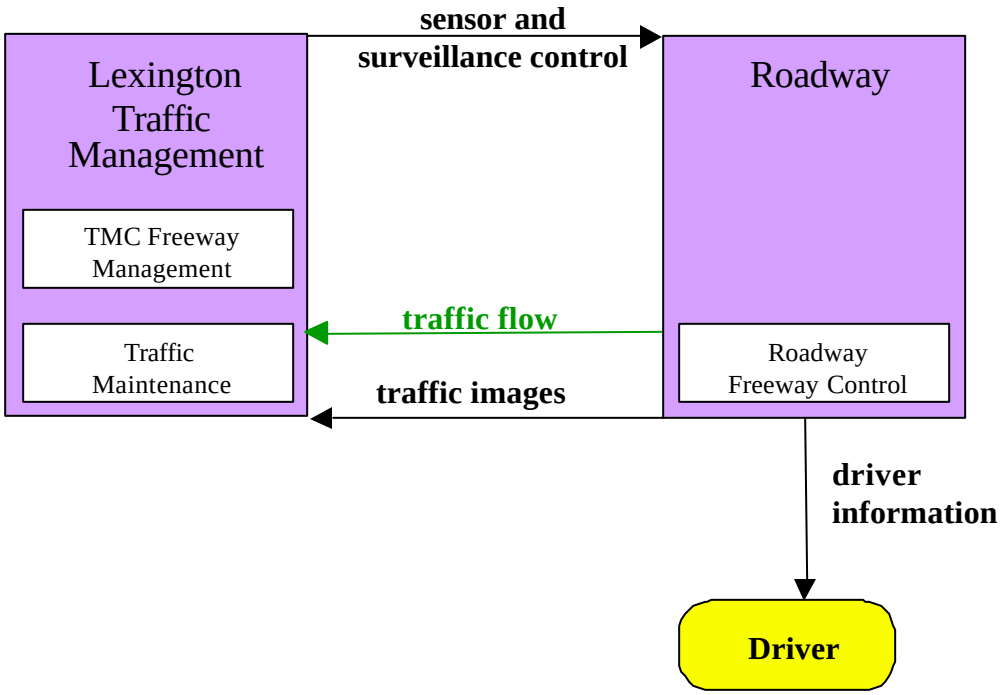


ATMS1 - Network Surveillance

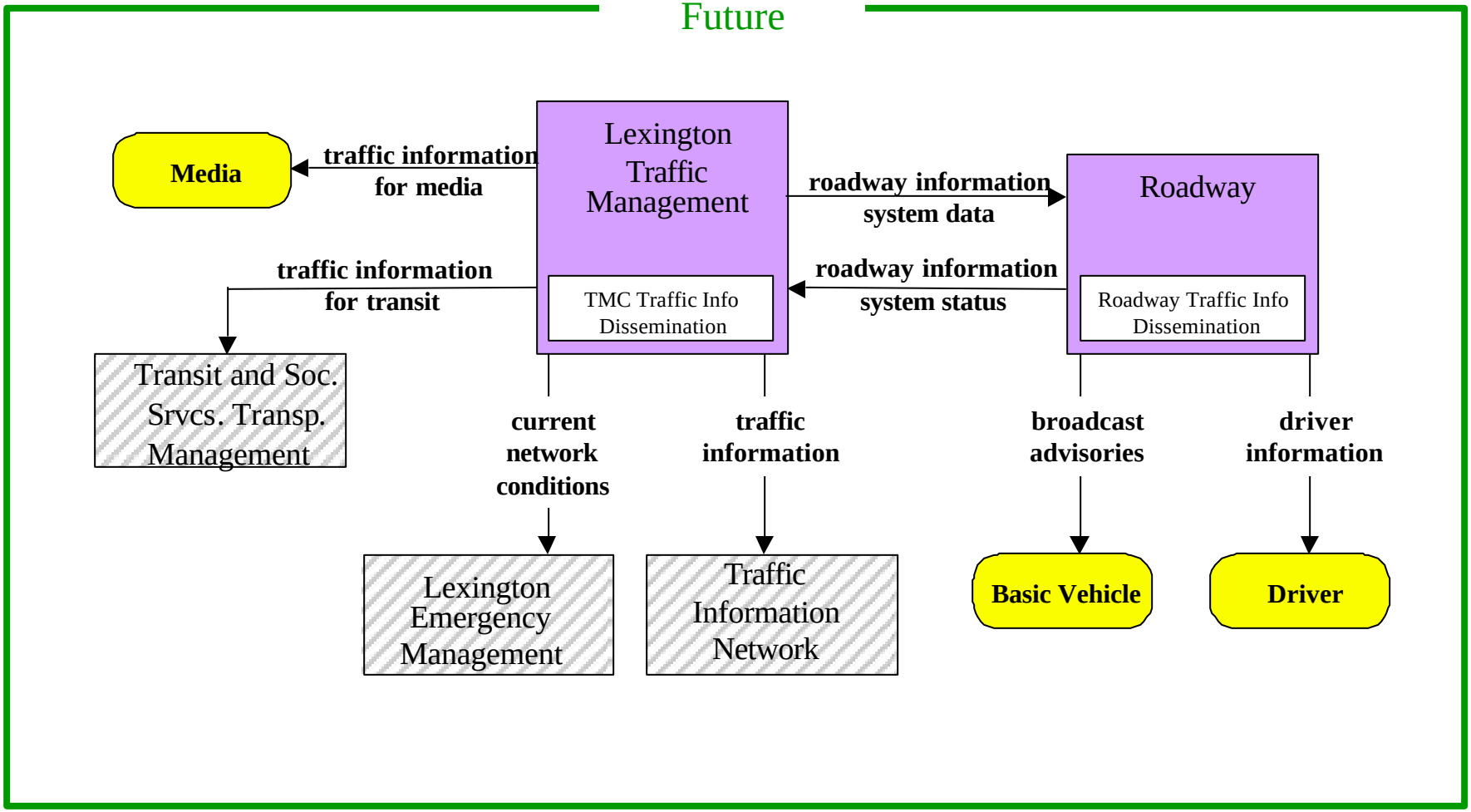
ATMS3 - Surface Street Control



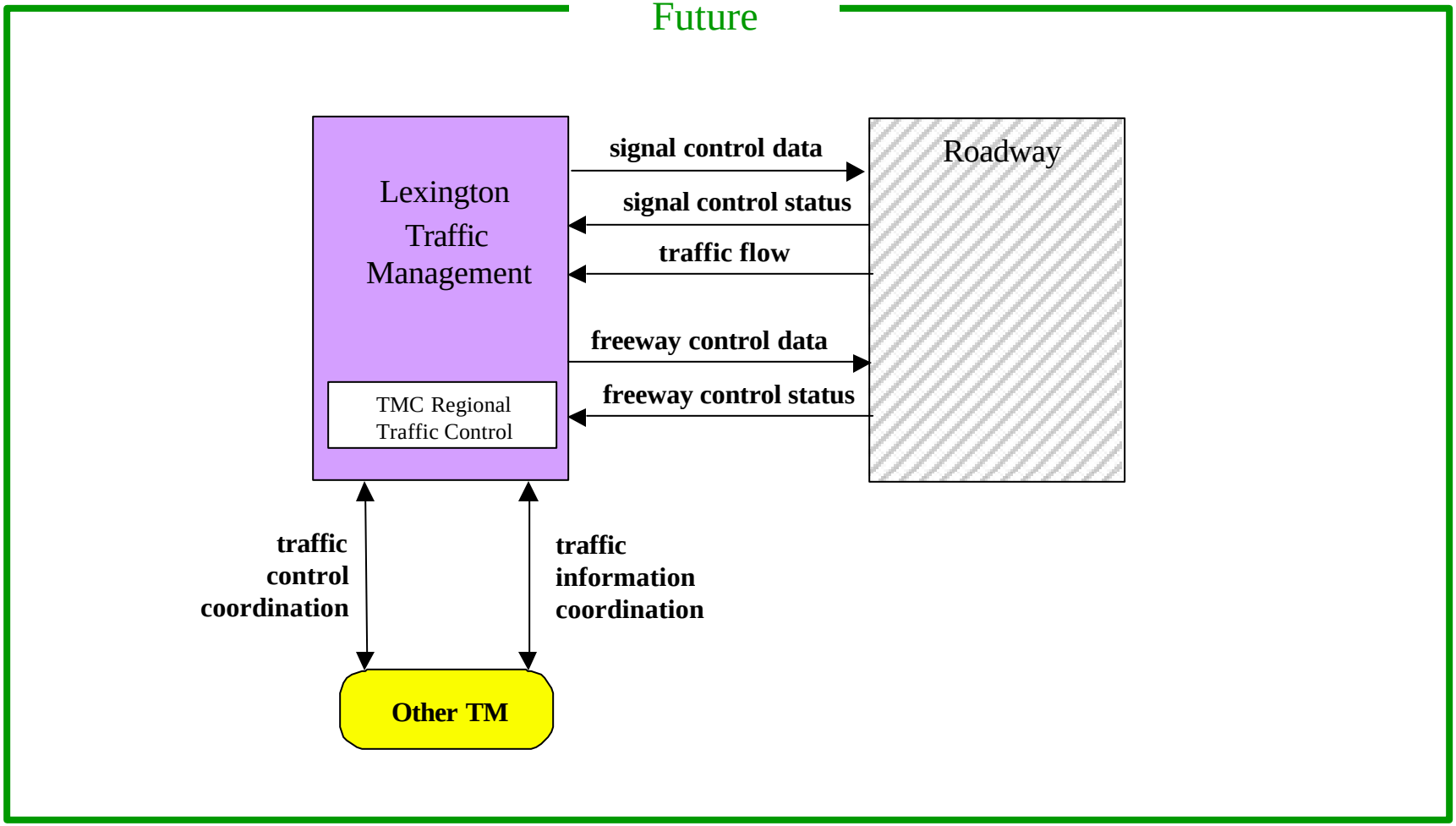
ATMS4 - Freeway Control



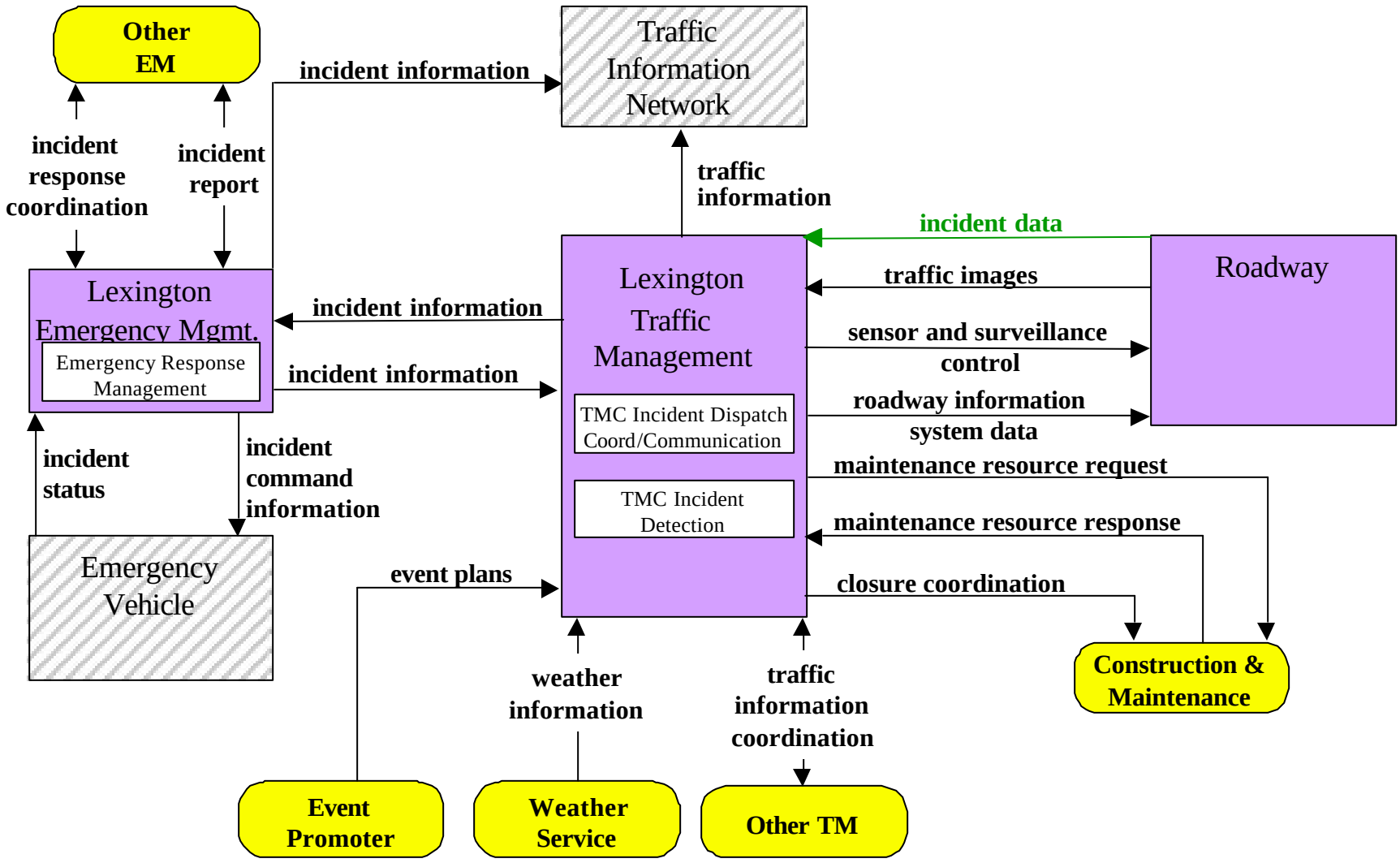
ATMS6 Traffic Information Dissemination



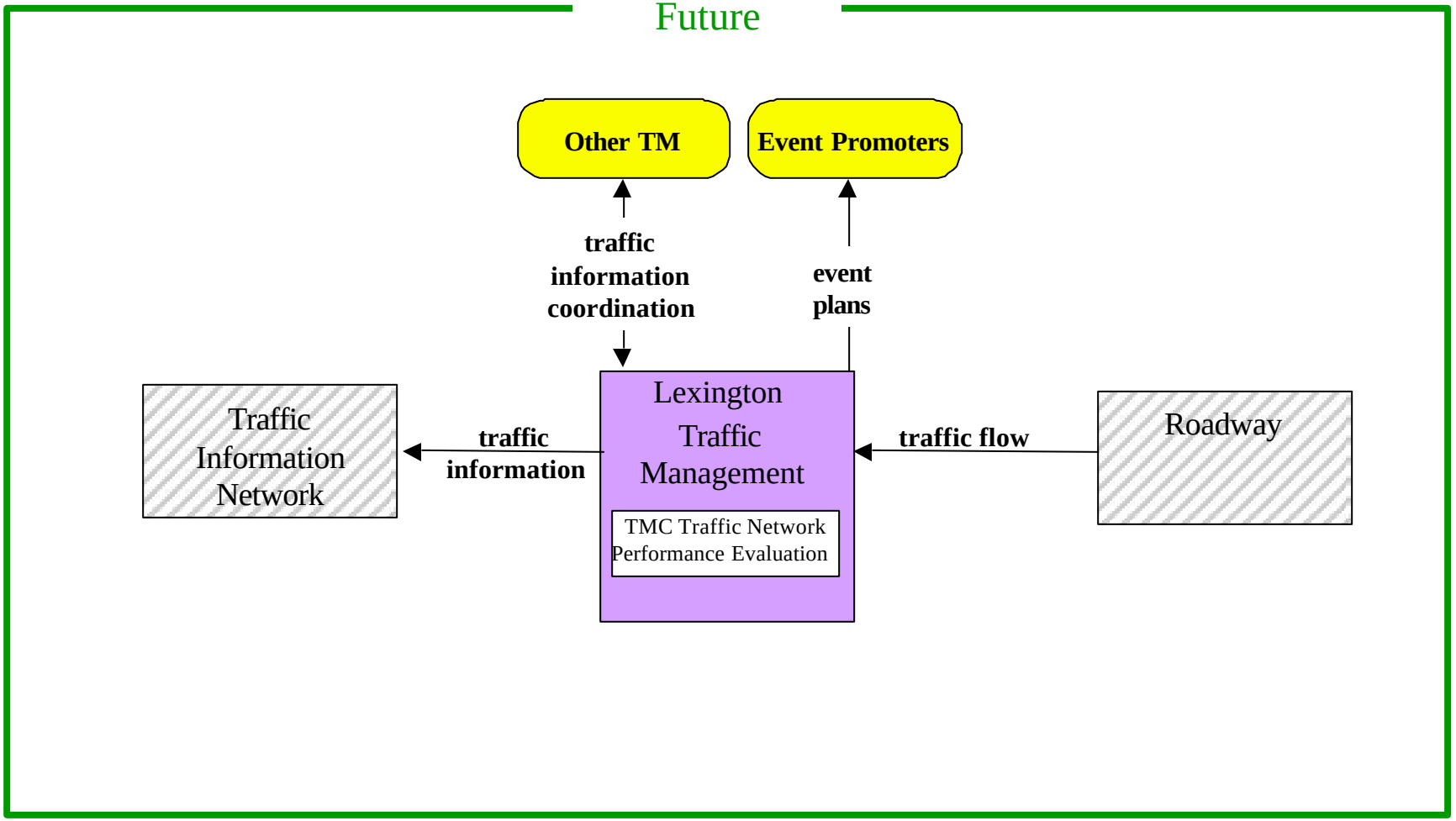
ATMS7 - Regional Traffic Control



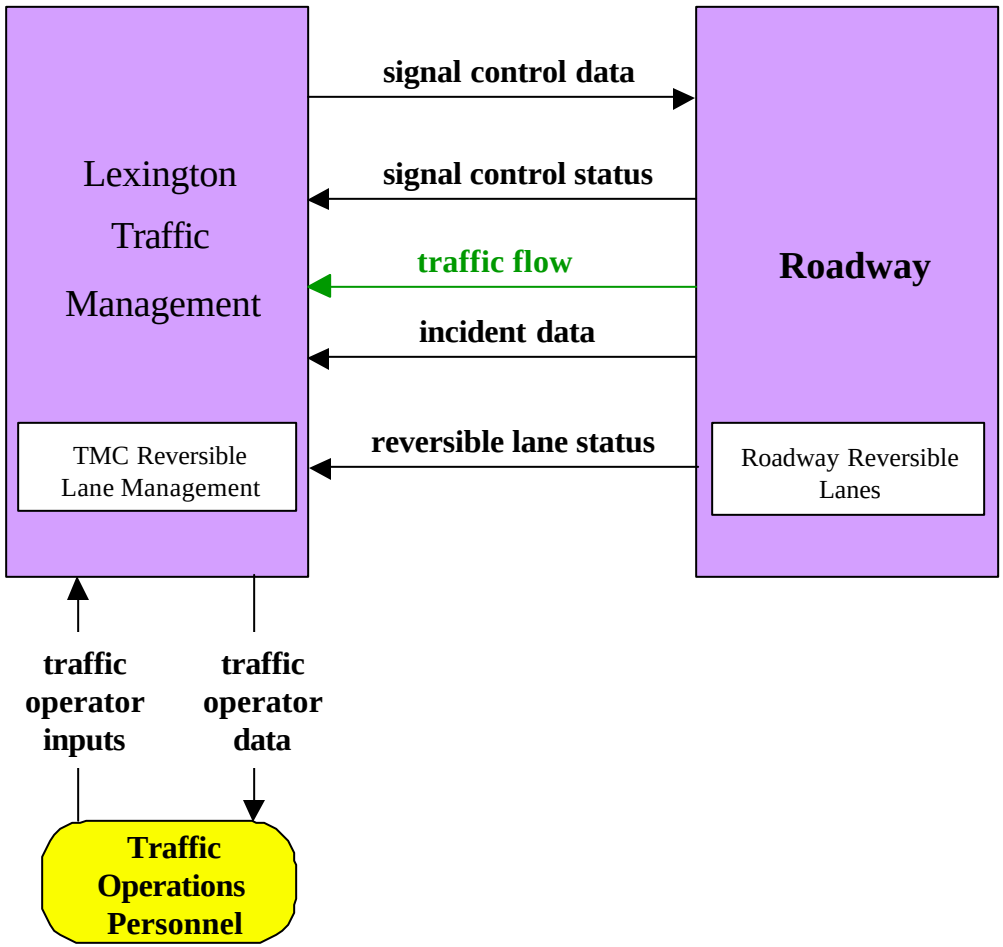
ATMS8 - Incident Management System



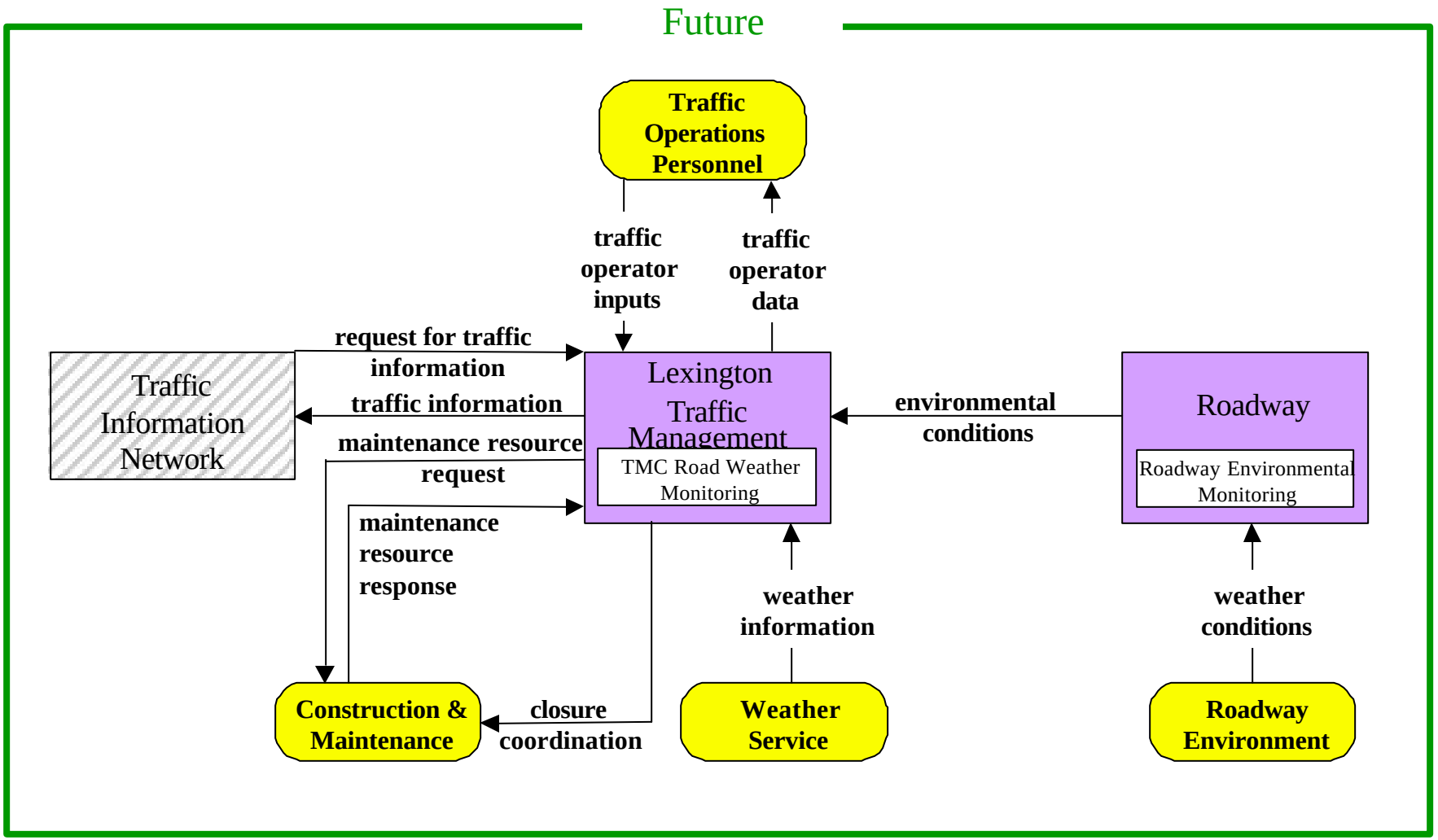
ATMS9 - Traffic Forecast and Demand Management



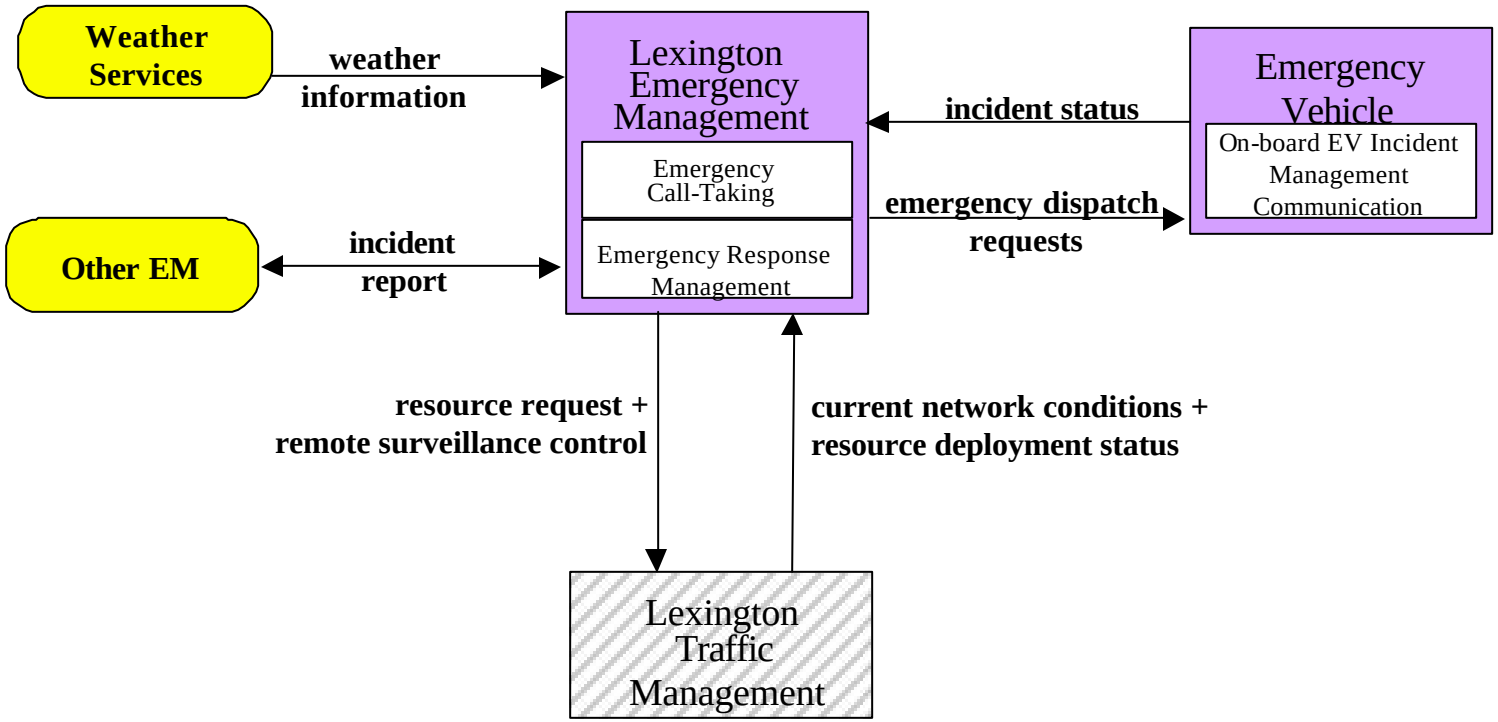
ATMS17 - Reversible Lane Management



ATMS18 - Road Weather Information System



EM1 - Emergency Response

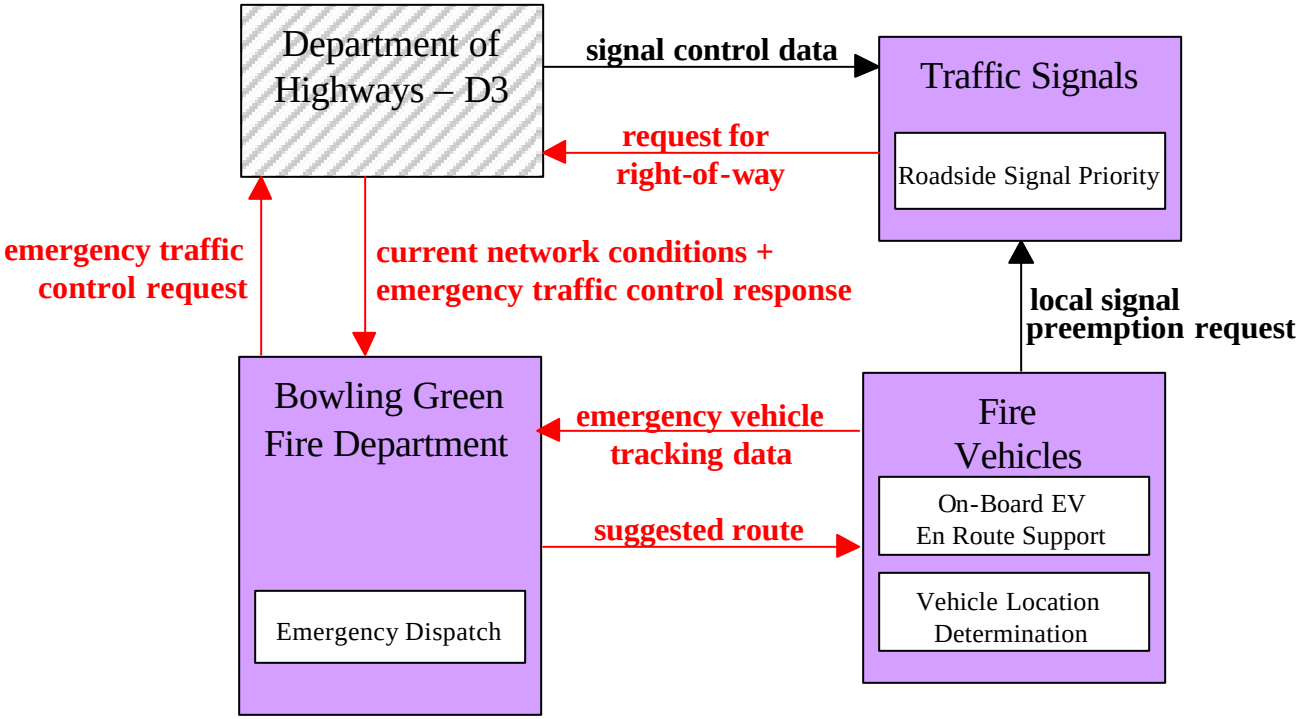


Market Package Diagrams: Signal Preemption

For the Kentucky Statewide ITS Architecture: Jan-Sep 2001

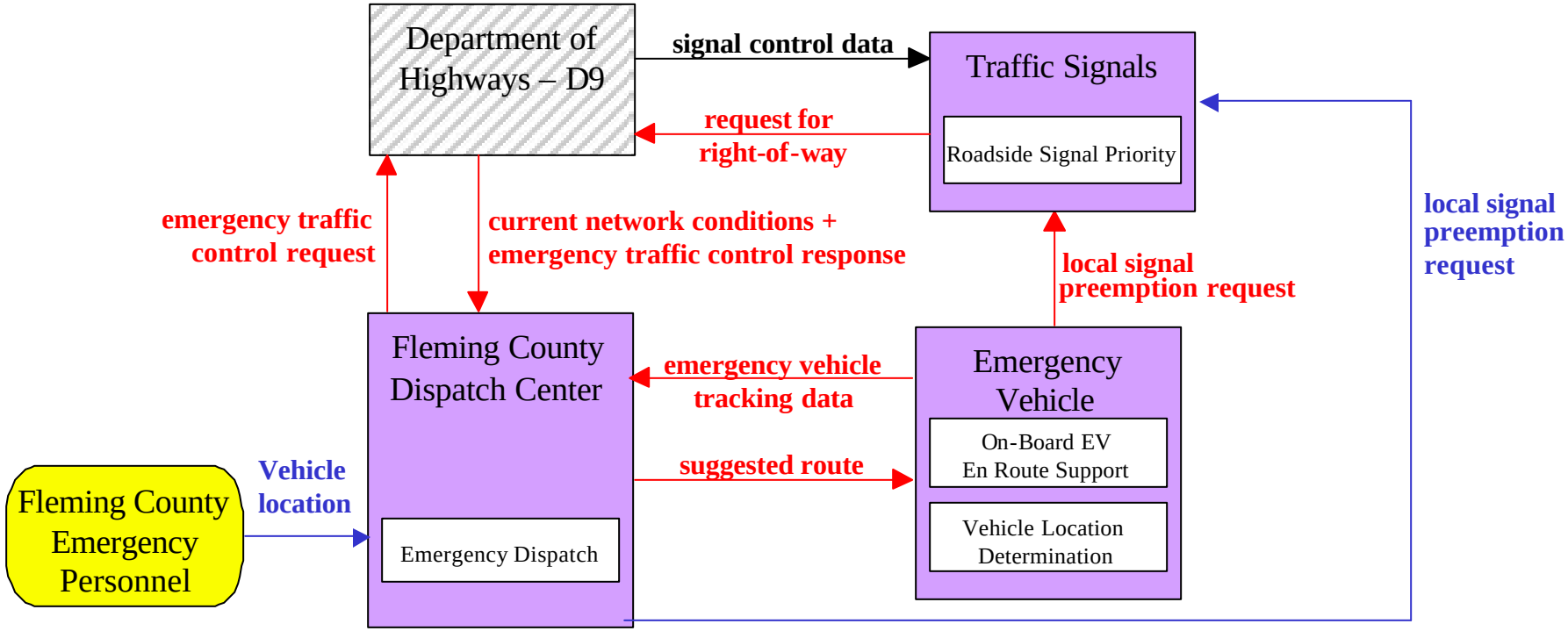
Bowling Green

EM2 - Emergency Routing



Flemingsburg

EM2 - Emergency Routing



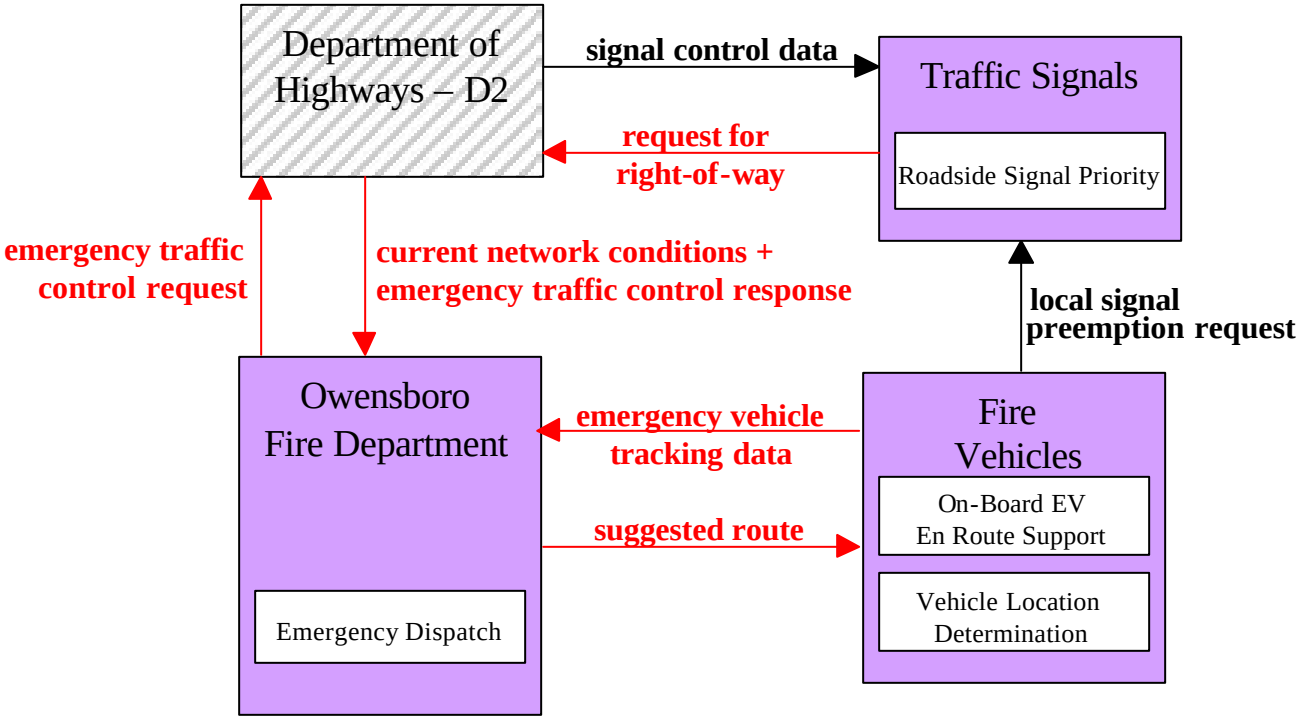
Intersections:

KY11 & KY32/KY57

KY32 & KY11/KY559

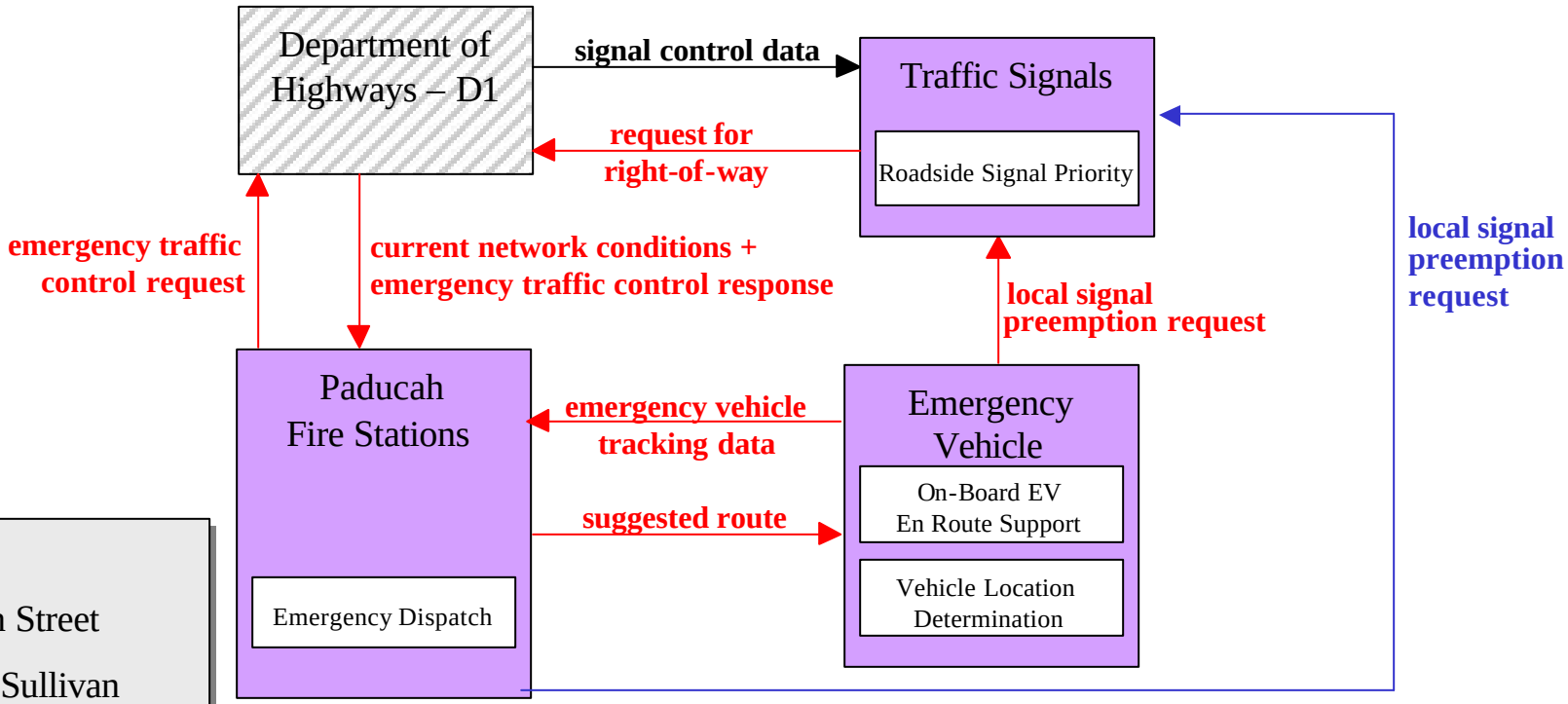
Owensboro

EM2 - Emergency Routing



Paducah

EM2 - Emergency Routing



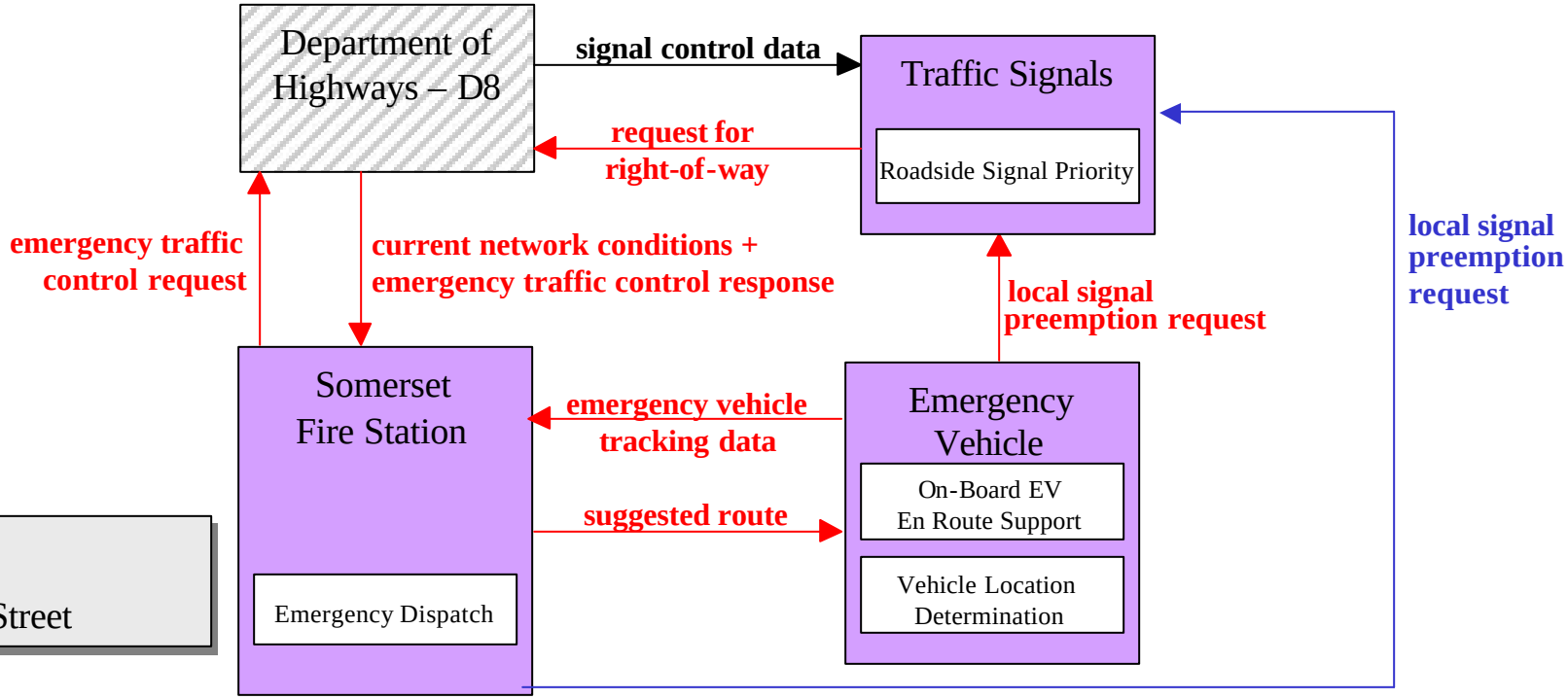
Intersections:

US45 & Jackson Street

US60 & Wayne Sullivan Drive

Pulaski County

EM2 - Emergency Routing



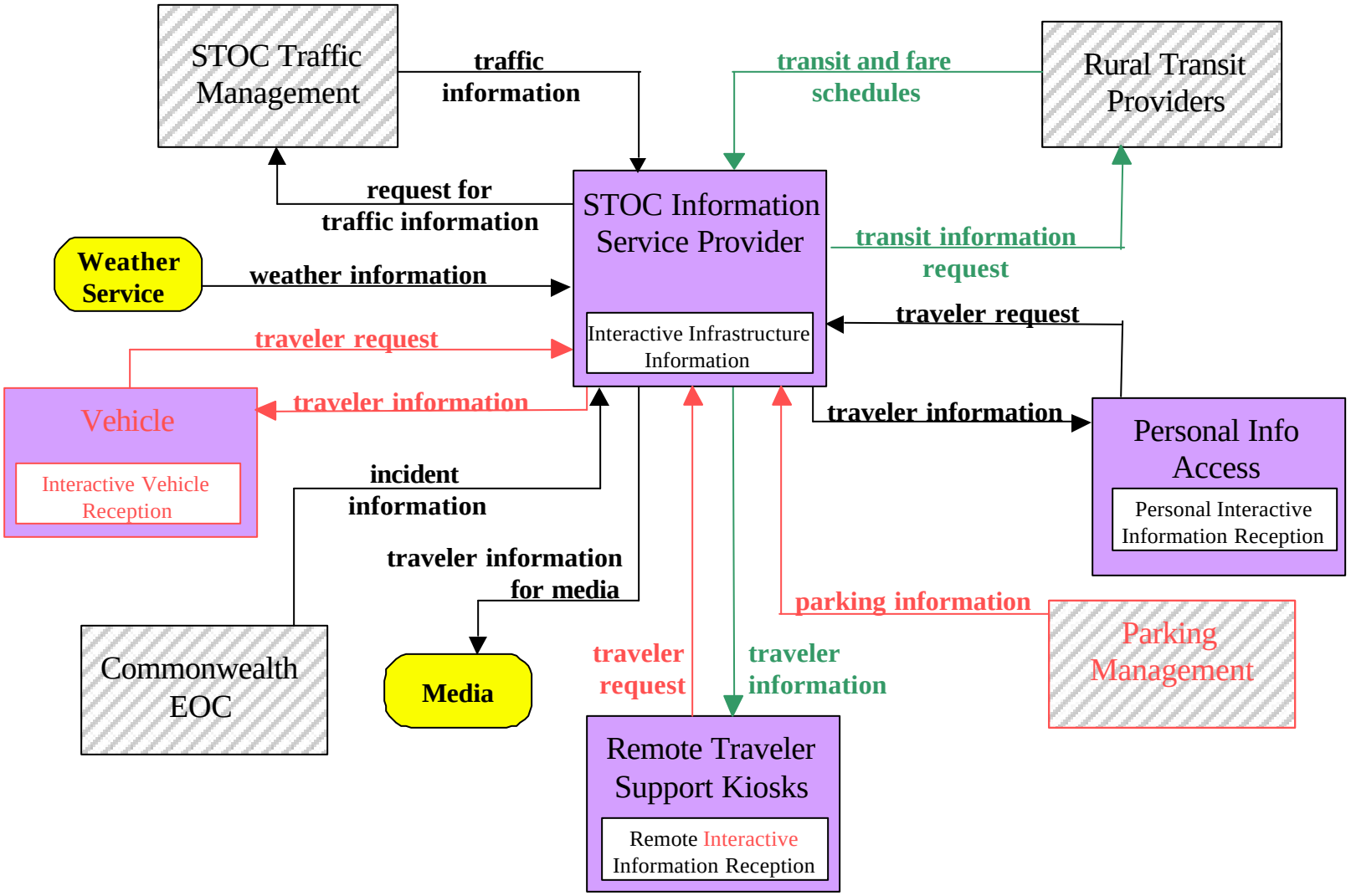
Intersection:

US27 & Sallee Street

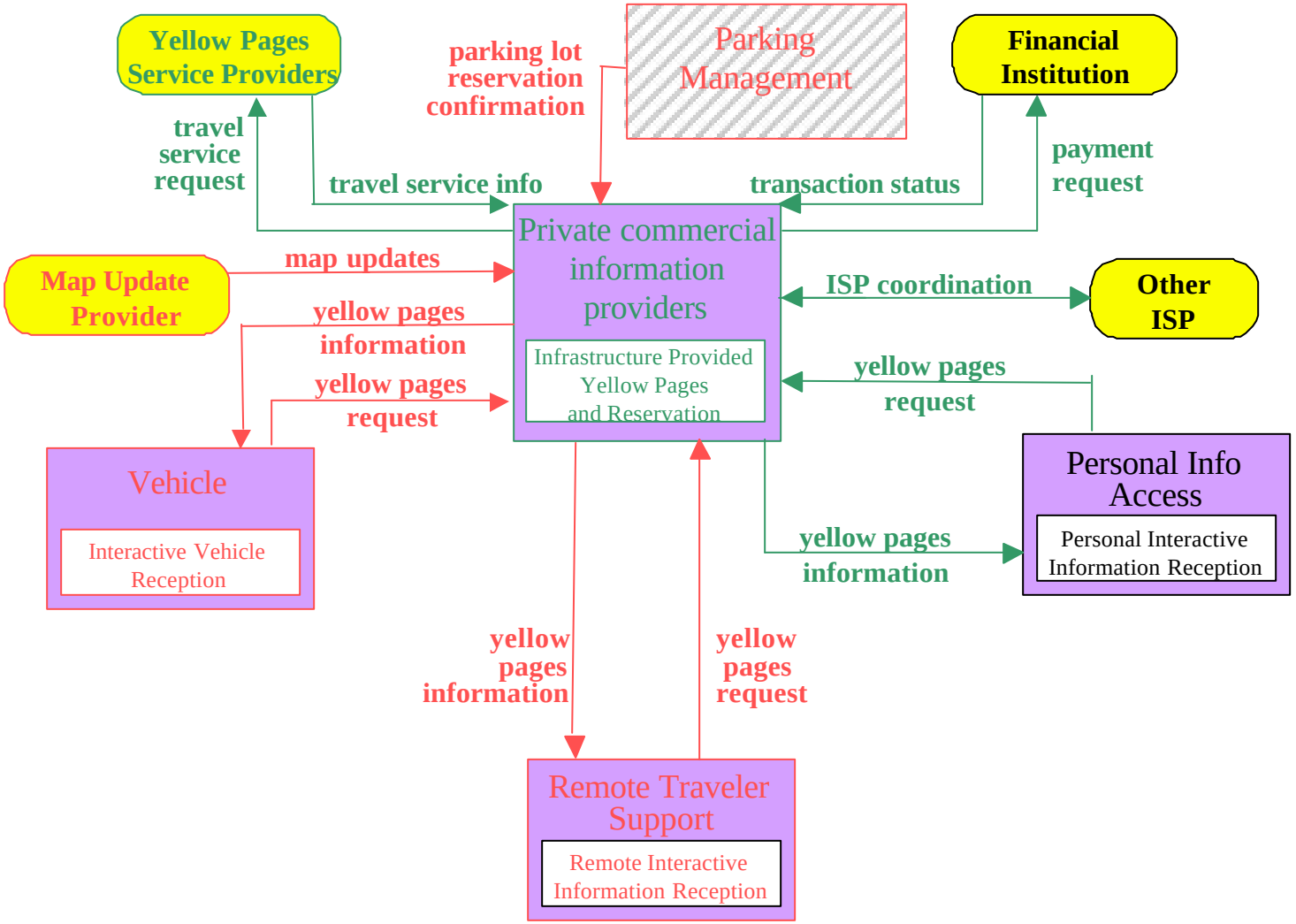
Market Package Diagrams: Statewide Transportation Operations Center (STOC)

Kentucky Statewide ITS
Architecture: 8/23/00

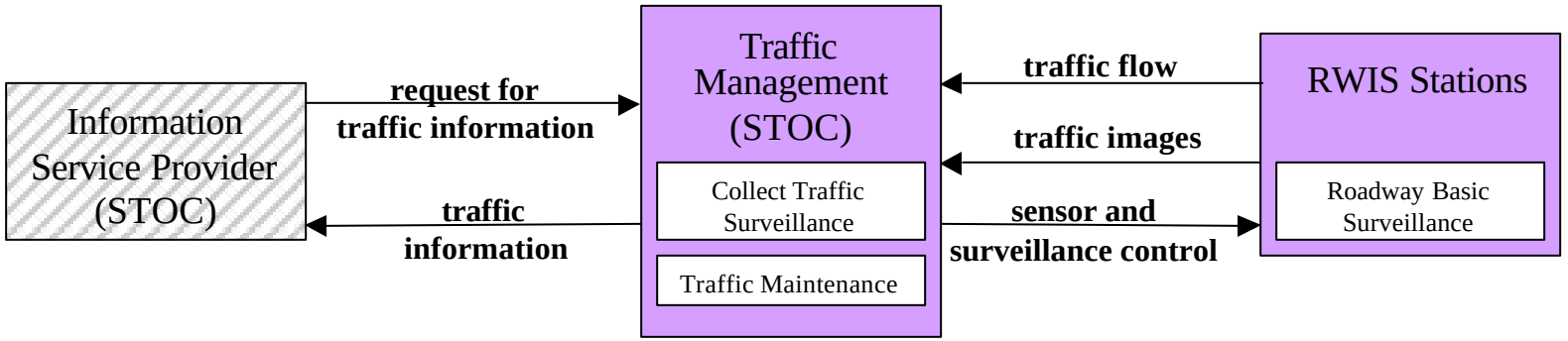
ATIS2 - Interactive Traveler Information



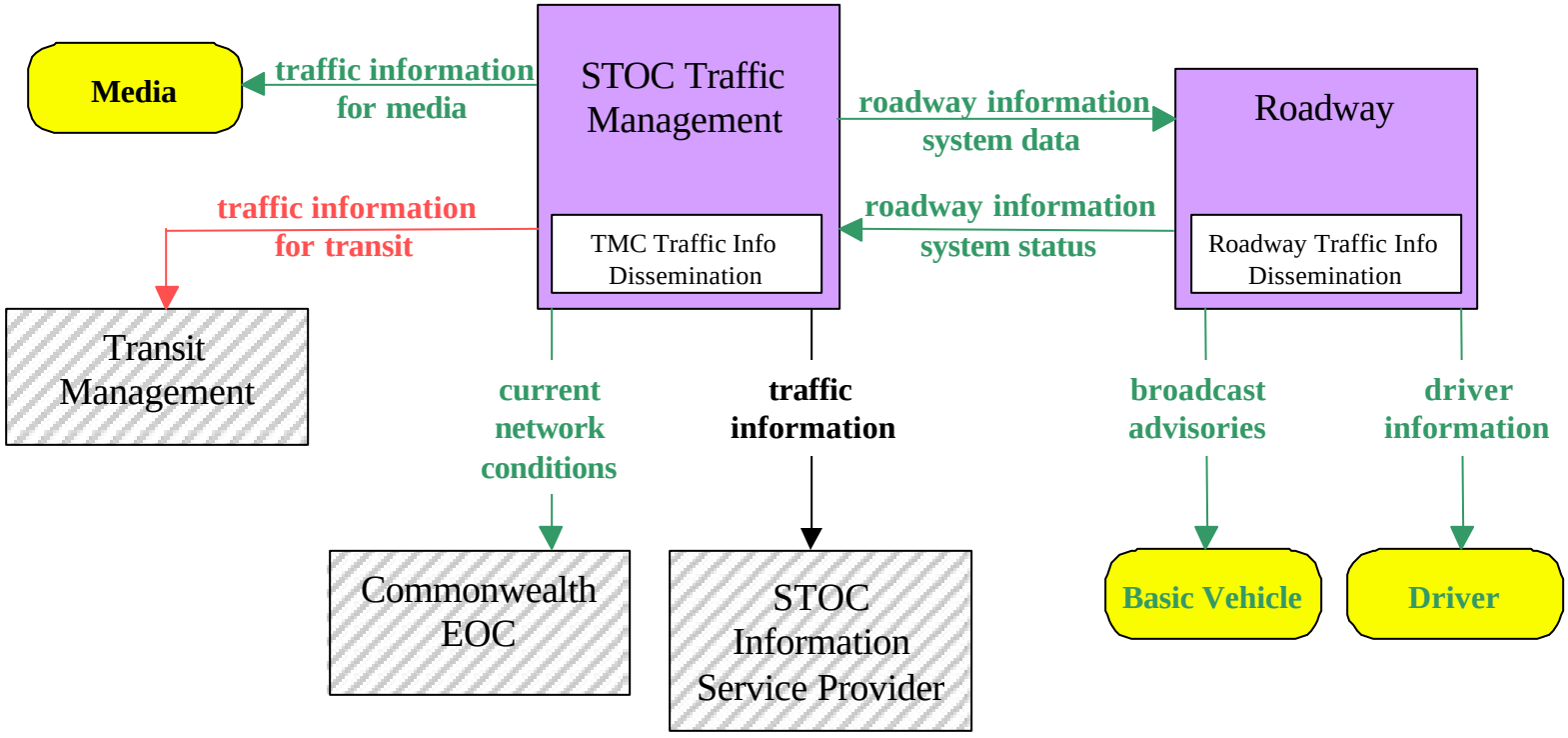
ATIS7 - Yellow Pages and Reservation



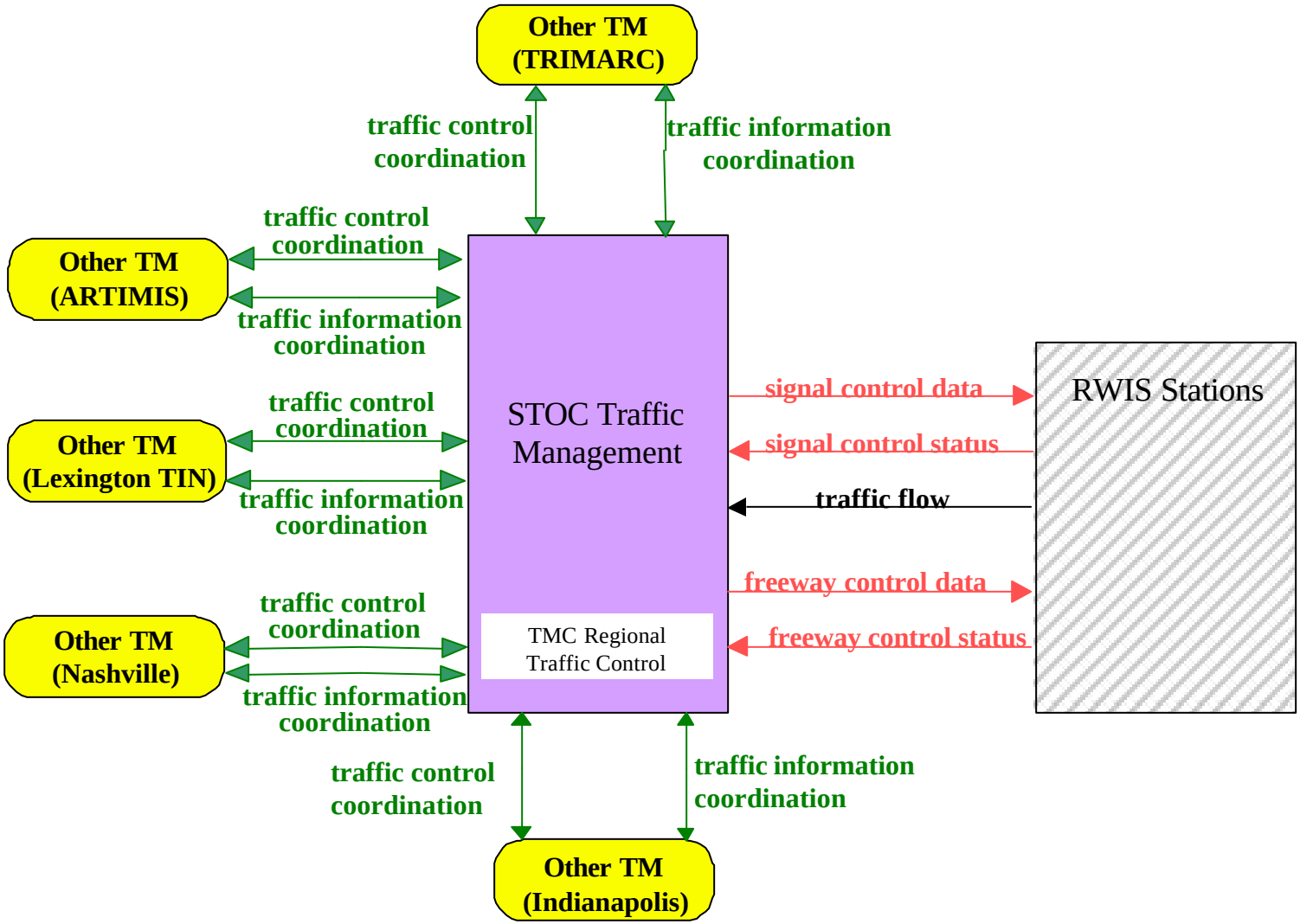
ATMS01 - Network Surveillance



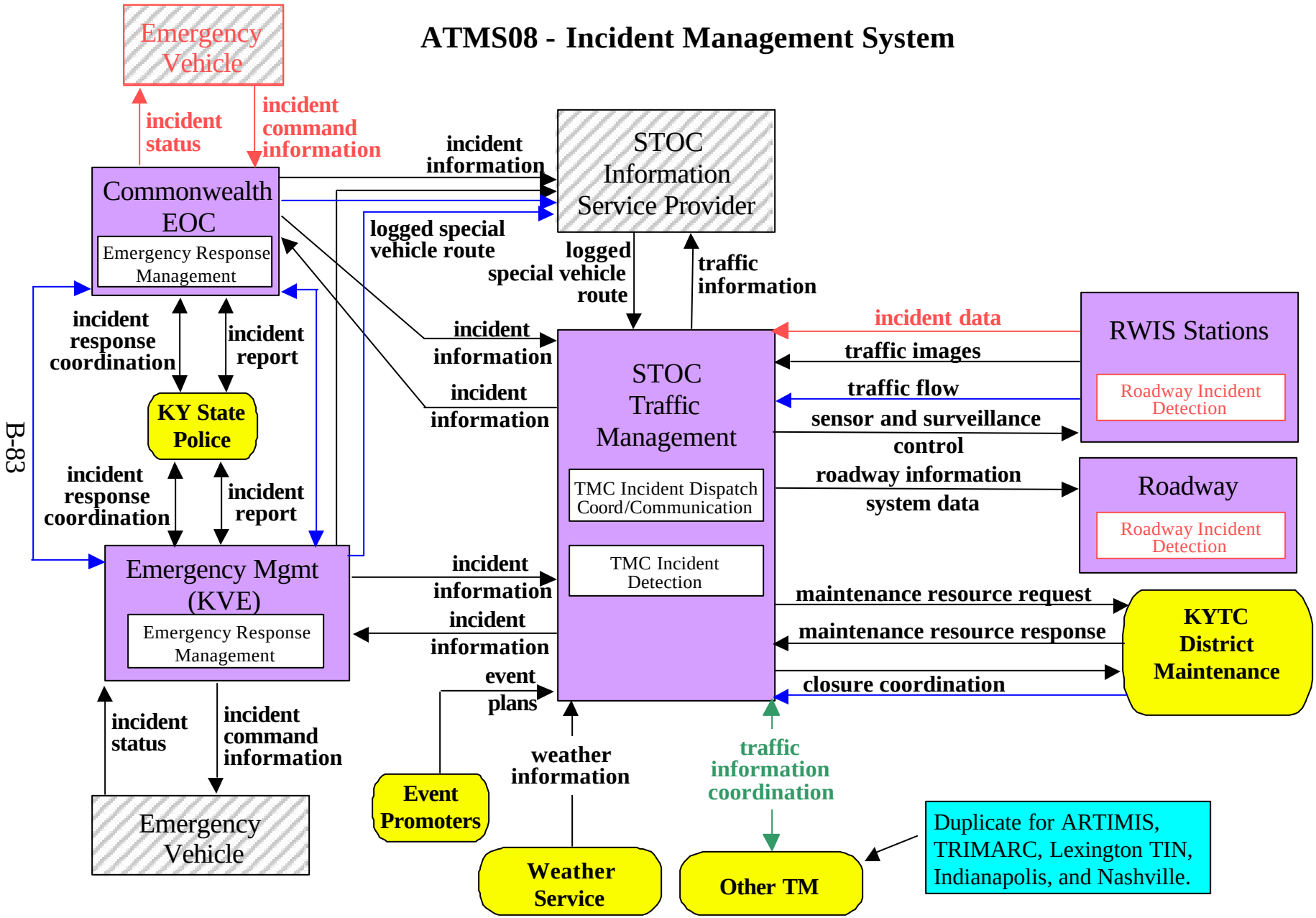
ATMS06 Traffic Information Dissemination



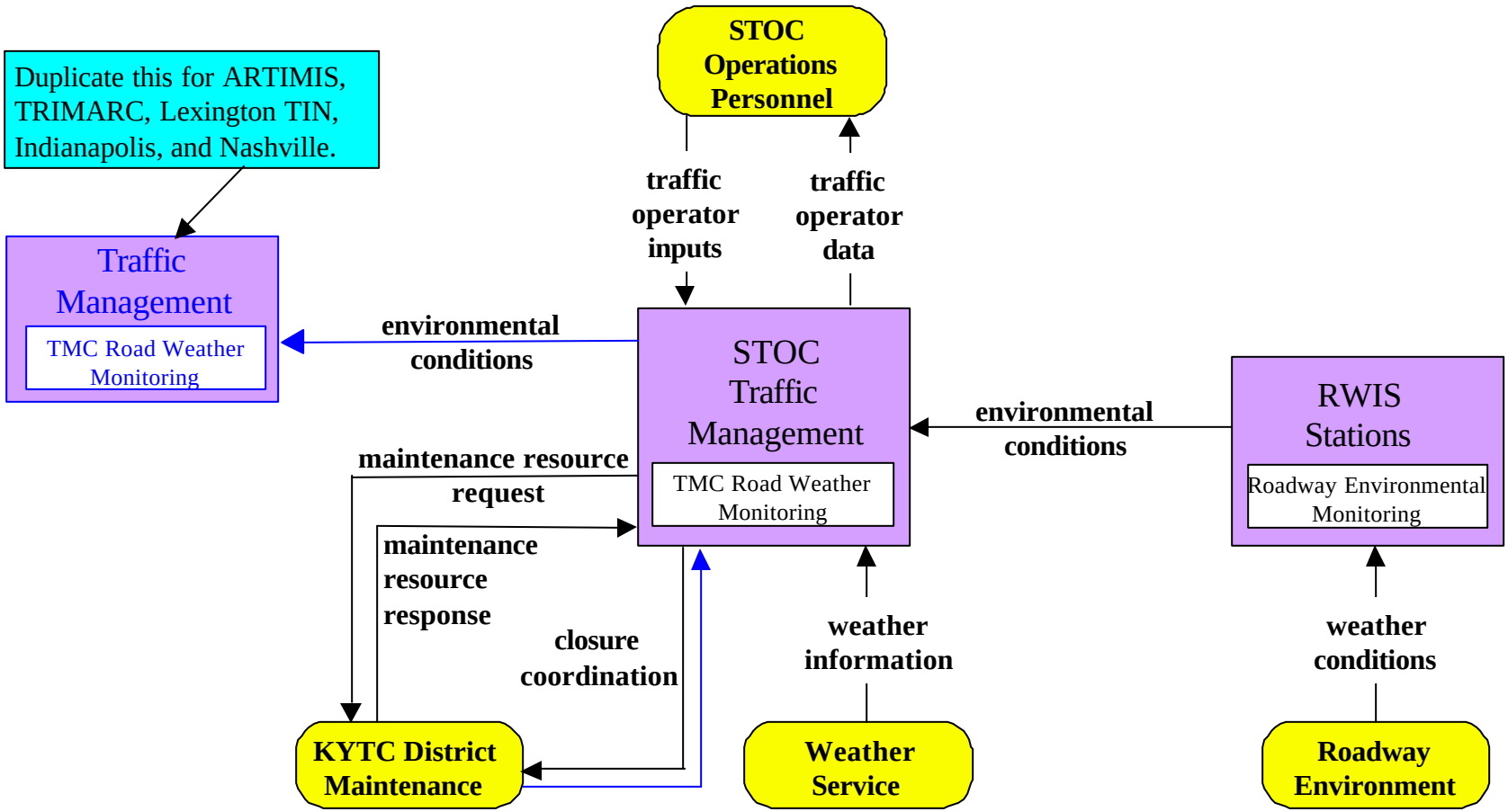
ATMS07 - Regional Traffic Control



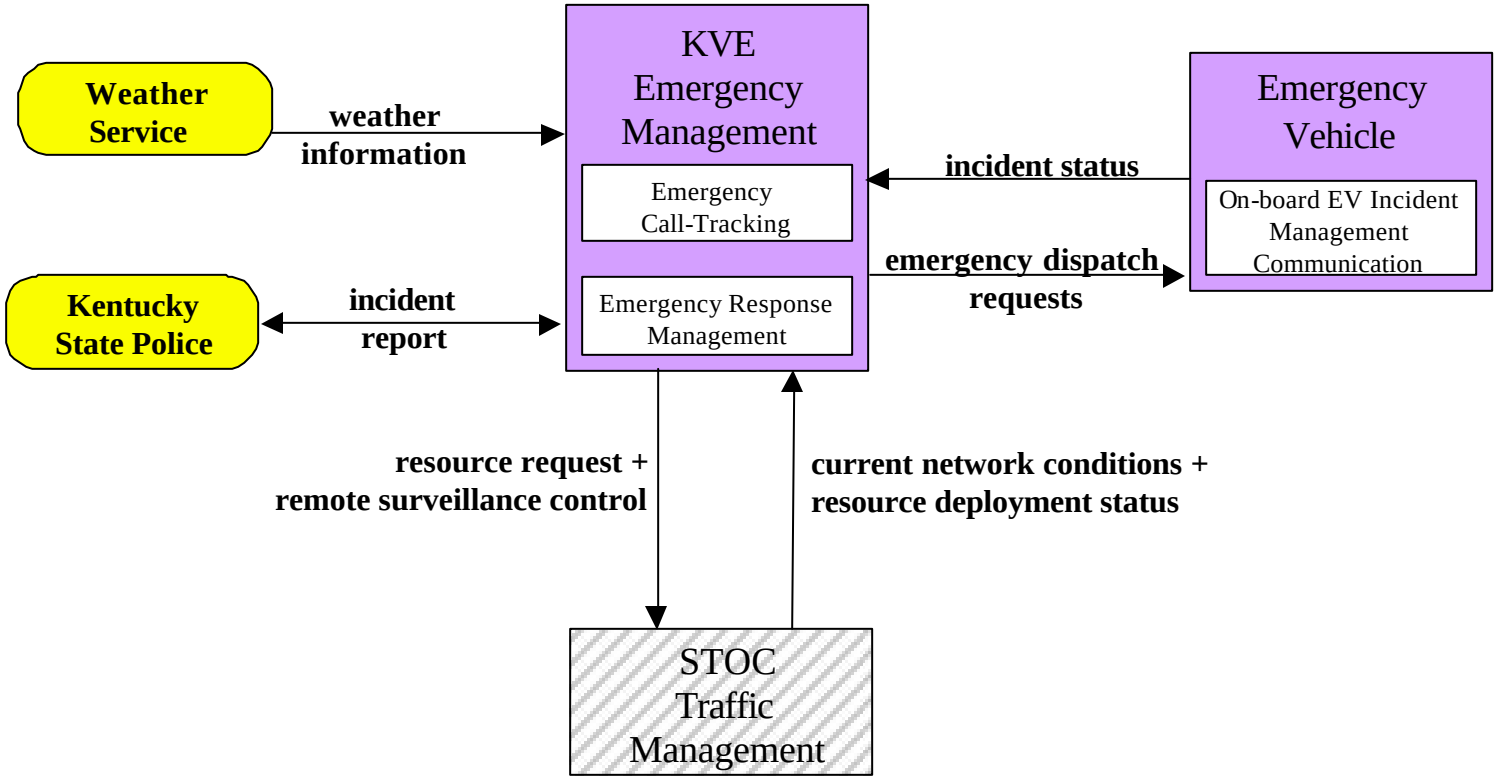
ATMS08 - Incident Management System



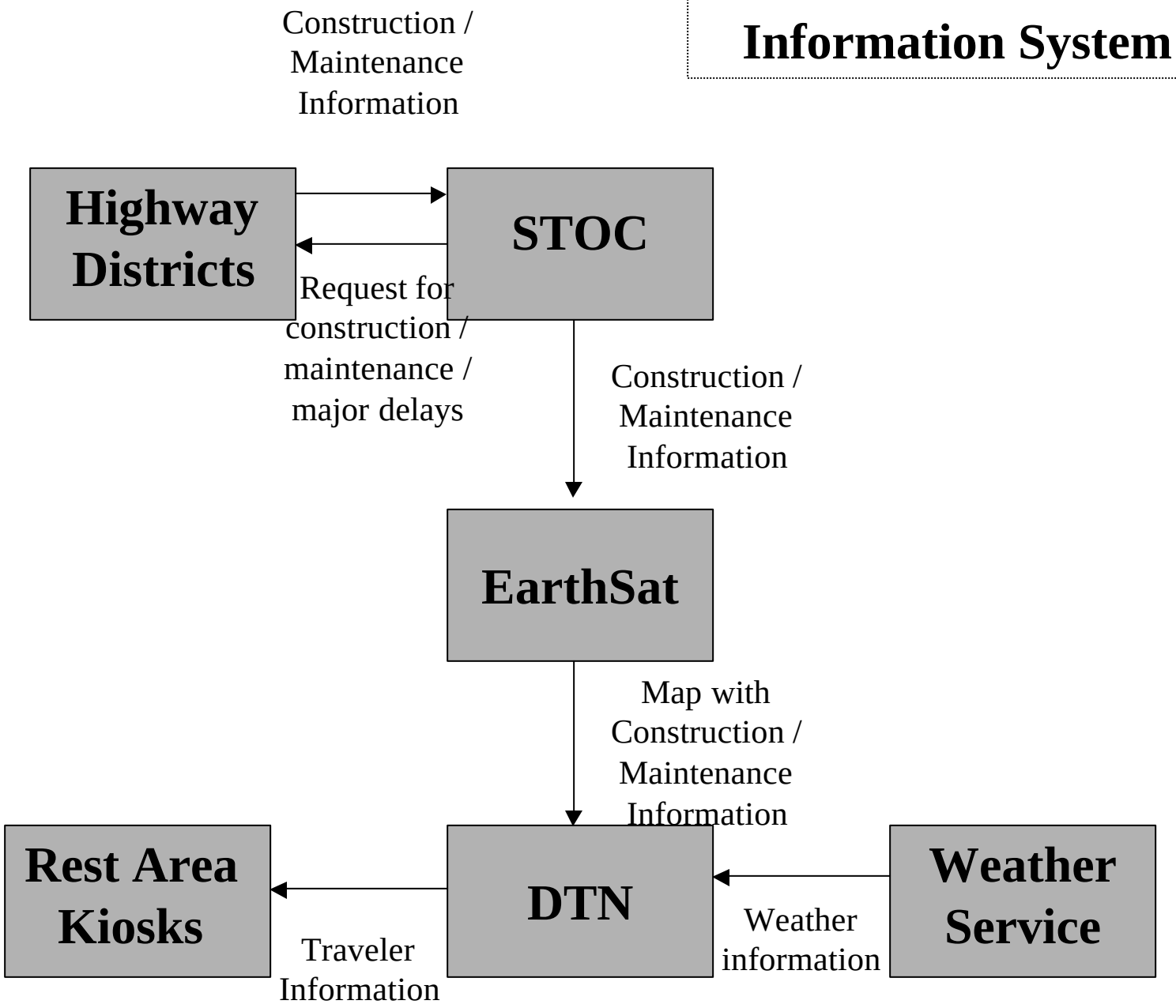
ATMS18 - Road Weather Information System



EM1 - Emergency Response



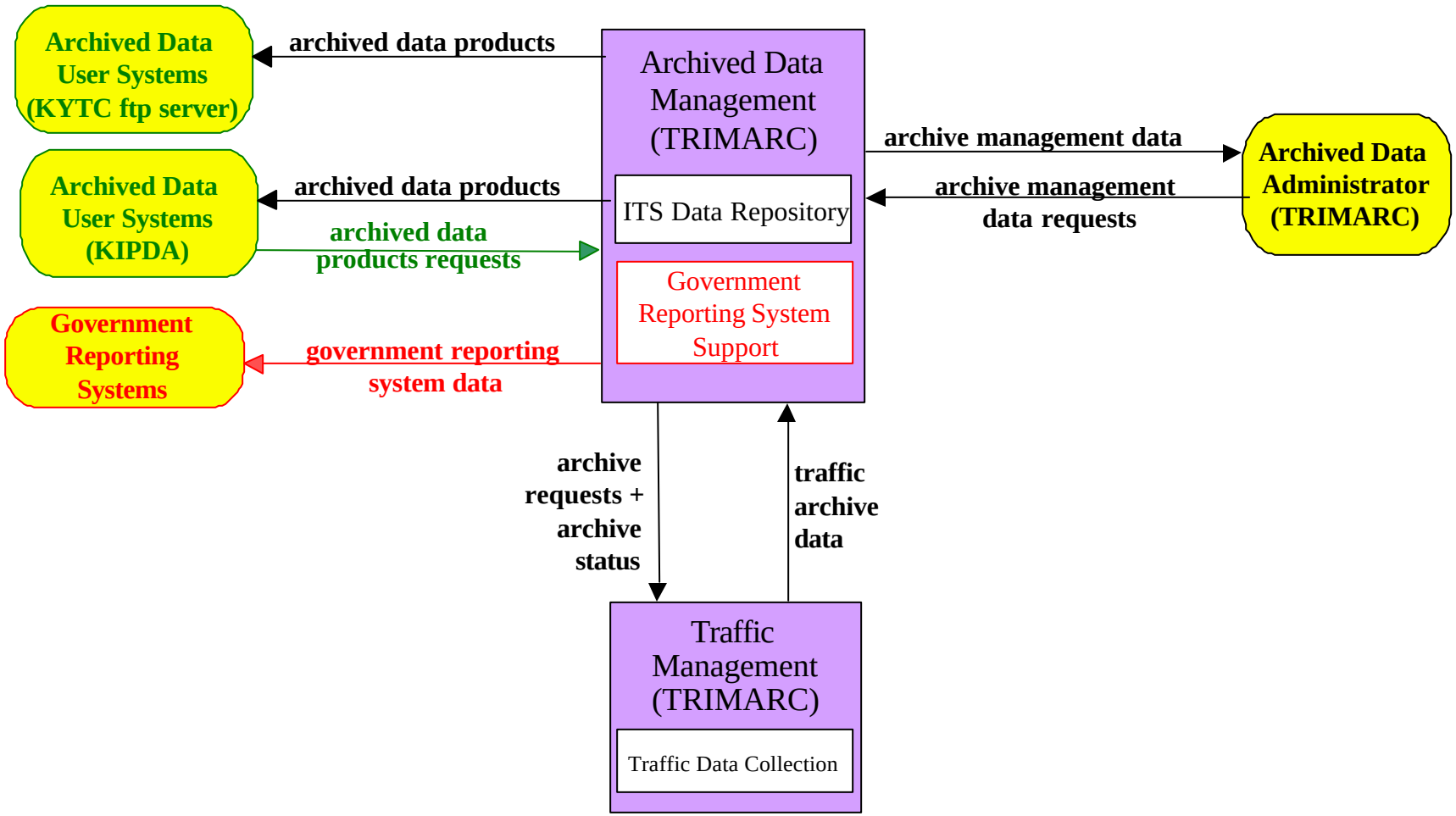
Rest Area Traveler Information System



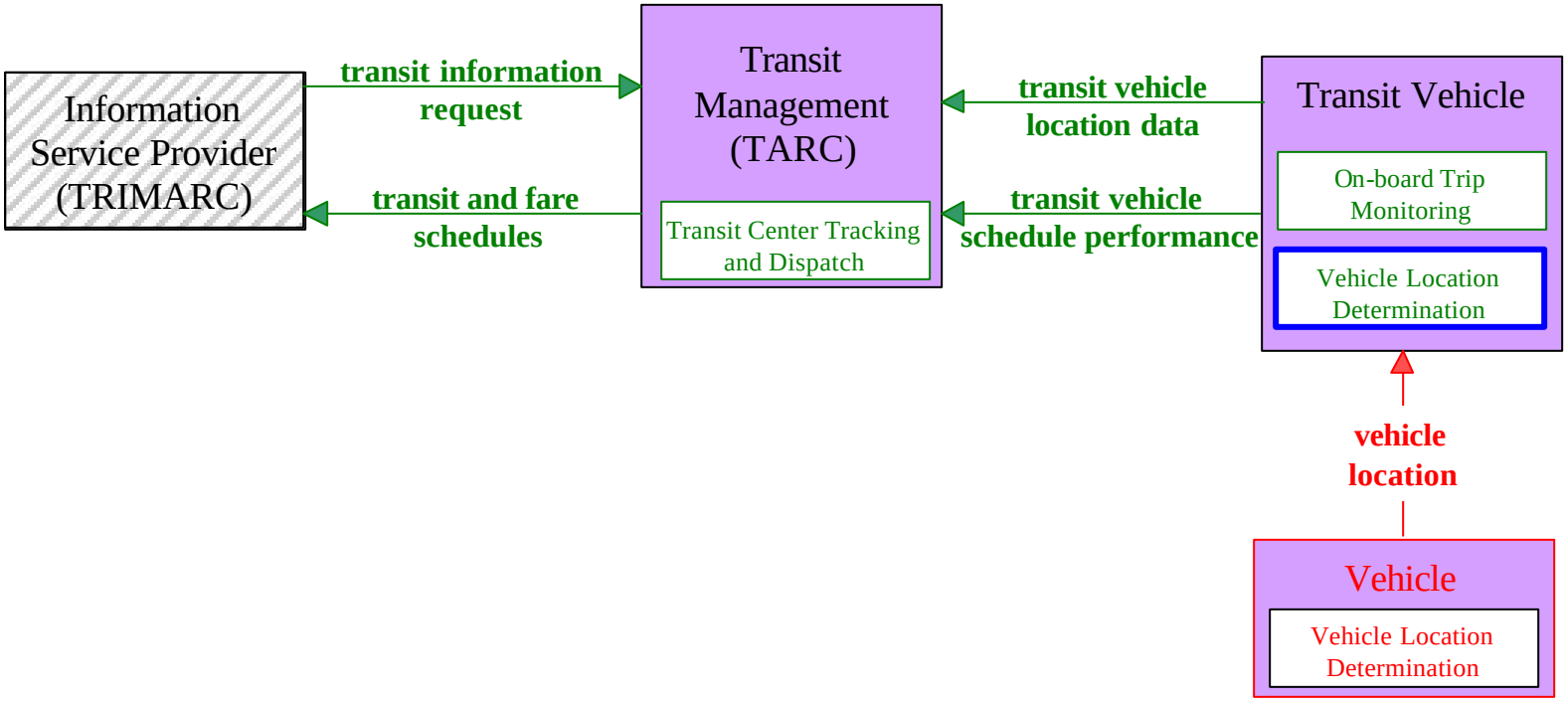
Market Package Diagrams: TRIMARC

Kentucky Statewide ITS
Architecture: 12/11/00

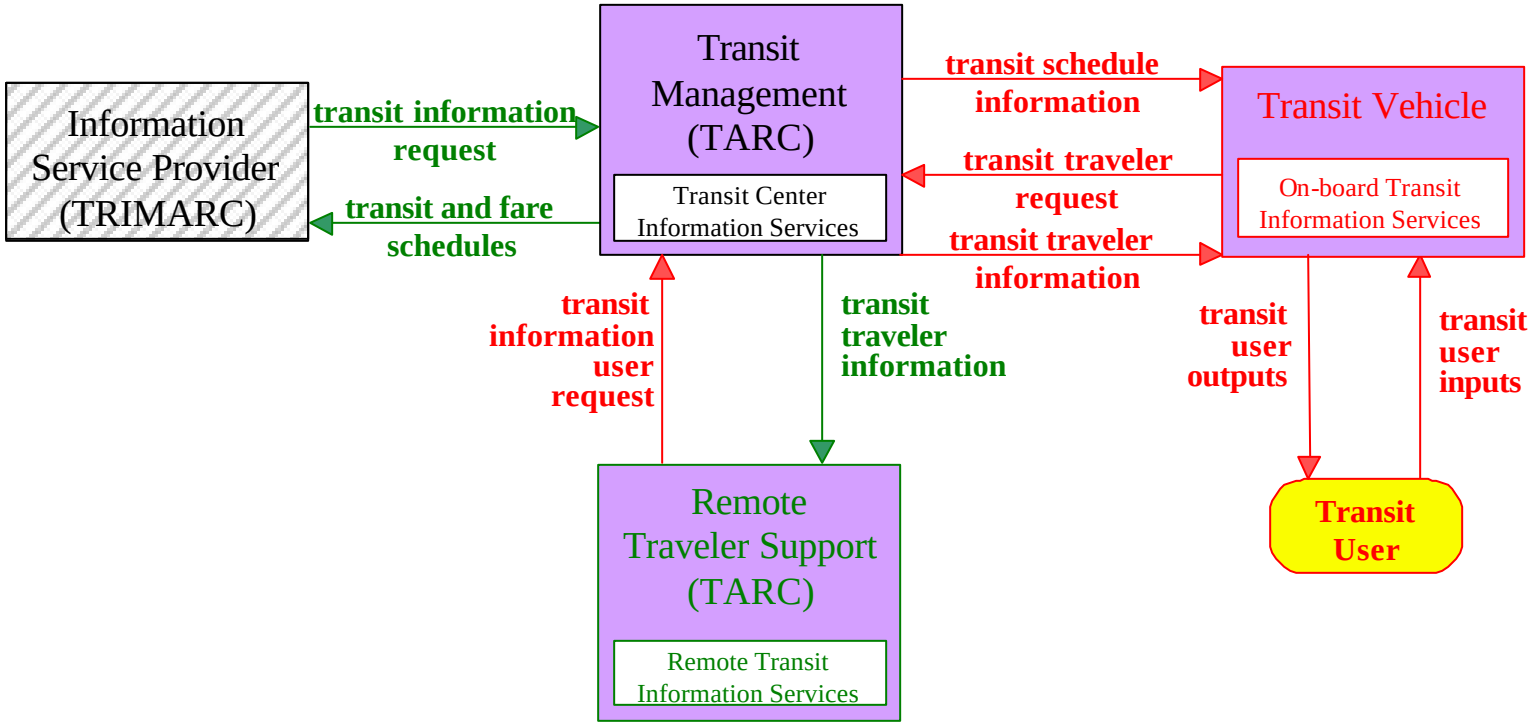
AD1 - ITS Data Mart



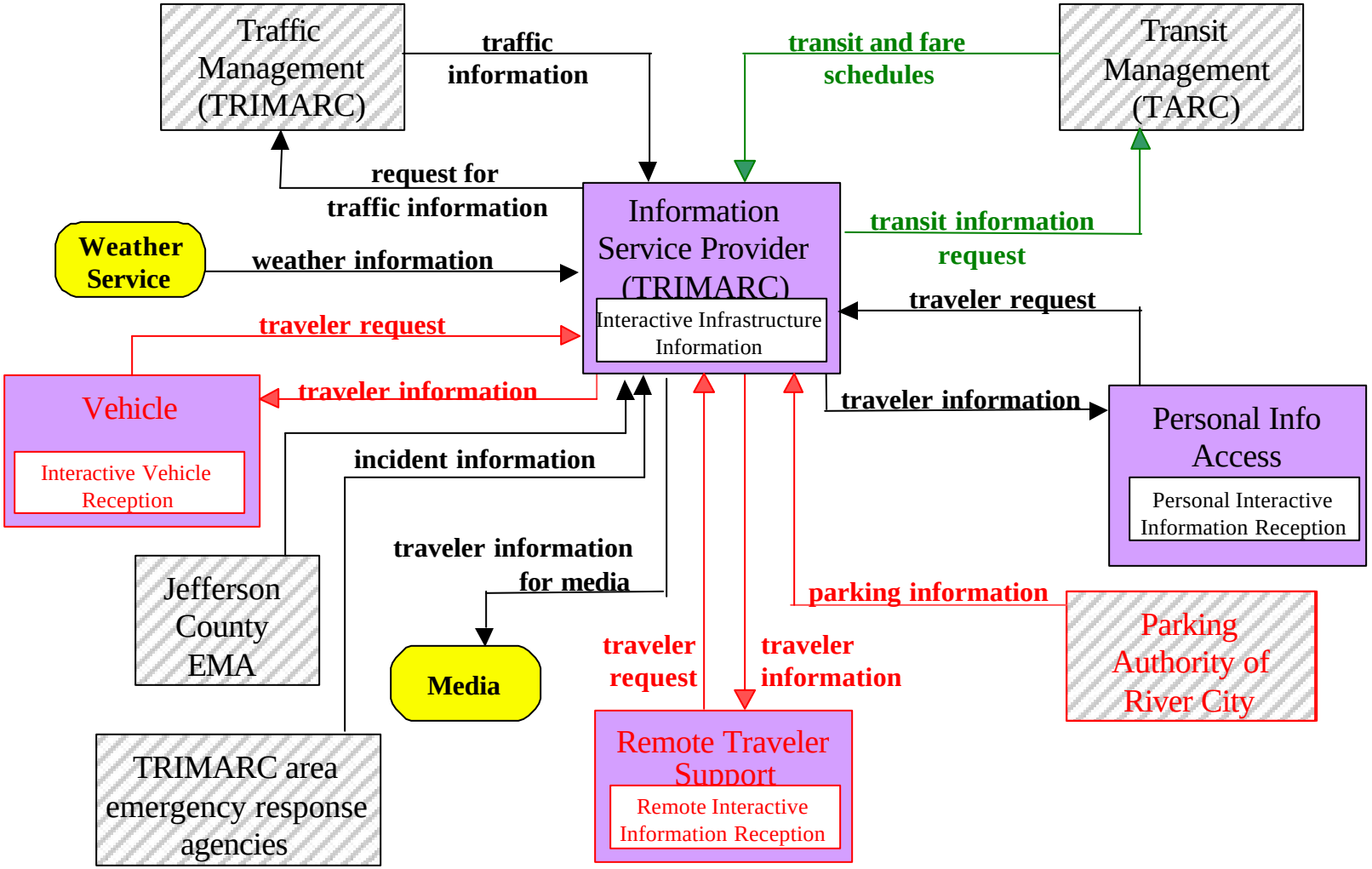
APTS1 - Transit Vehicle Tracking



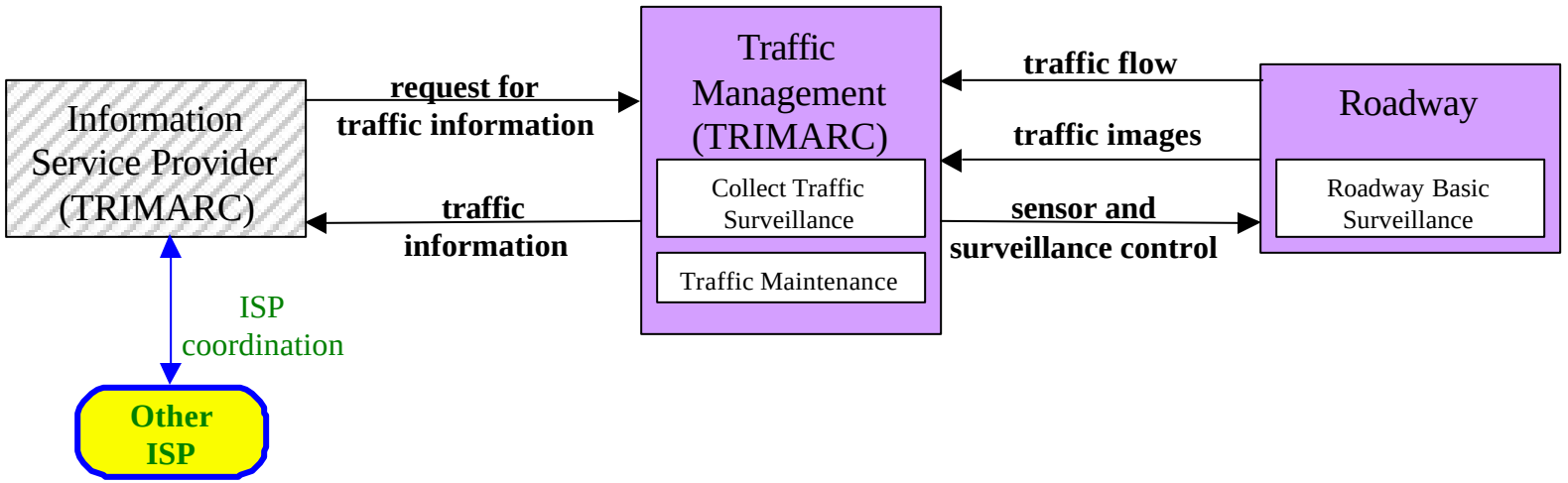
APTS8 - Transit Traveler Information



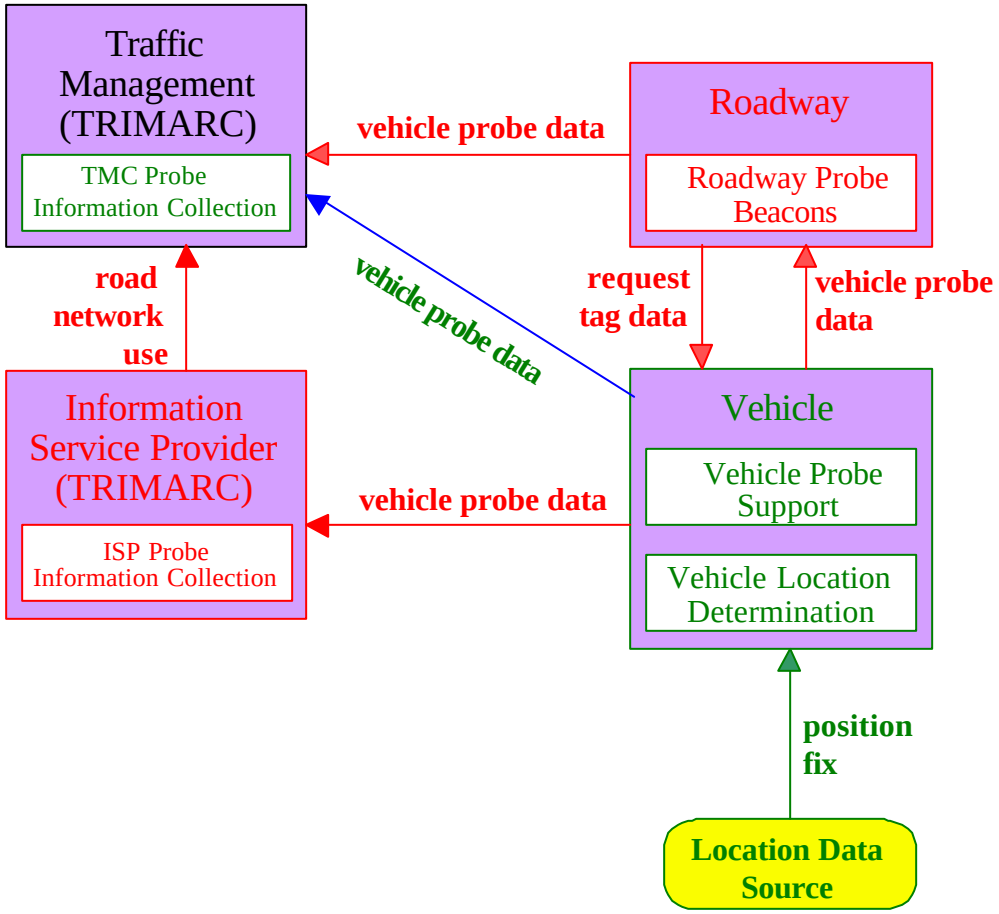
ATIS2 - Interactive Traveler Information



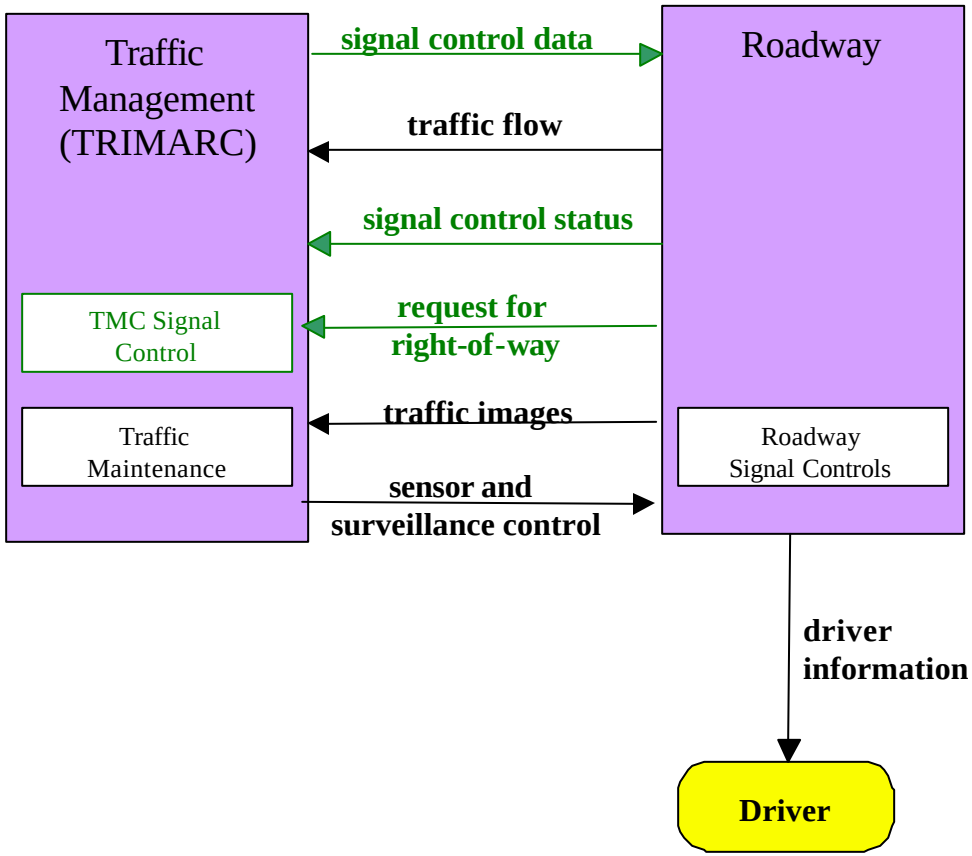
ATMS01 - Network Surveillance



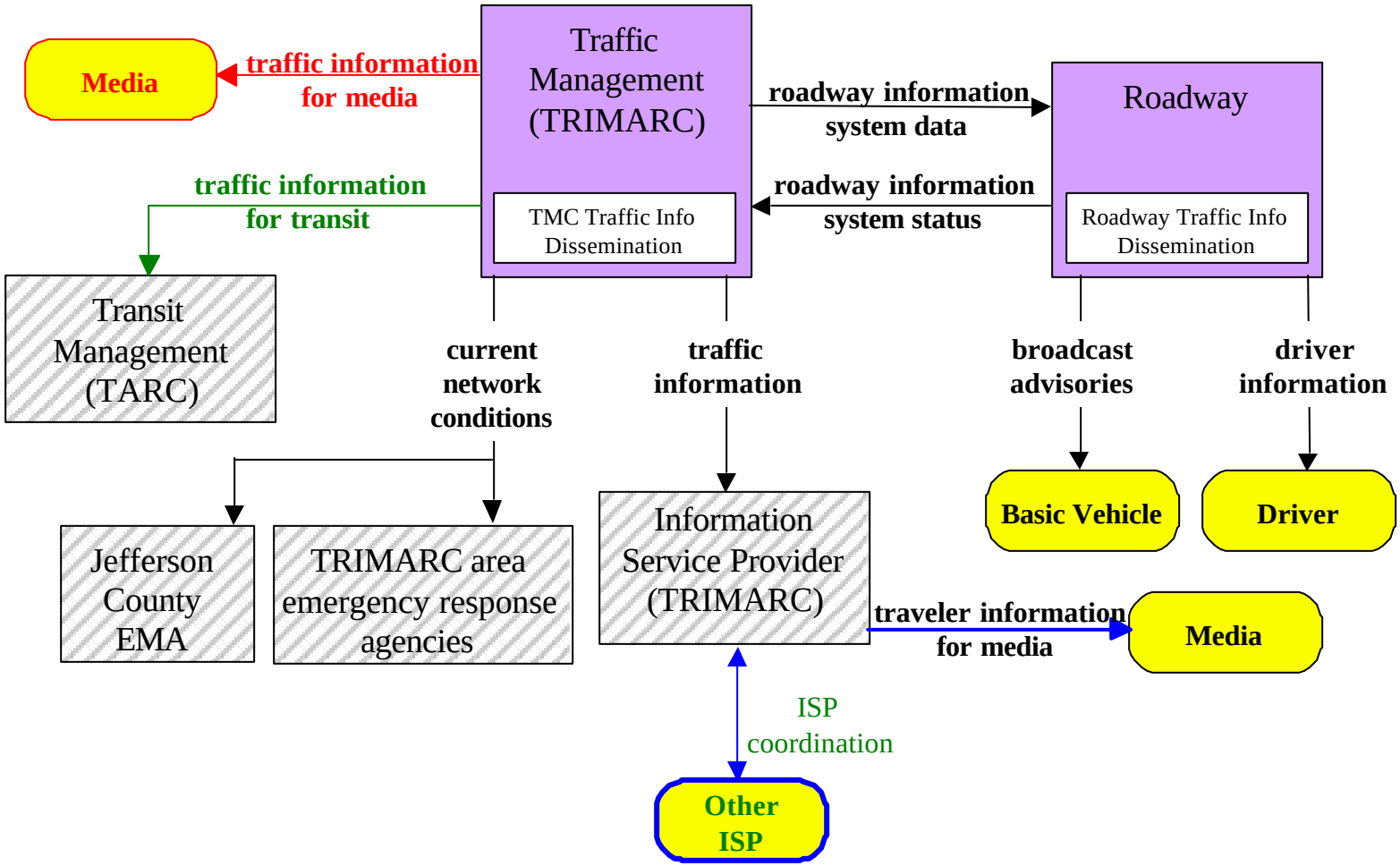
ATMS02 - Probe Surveillance



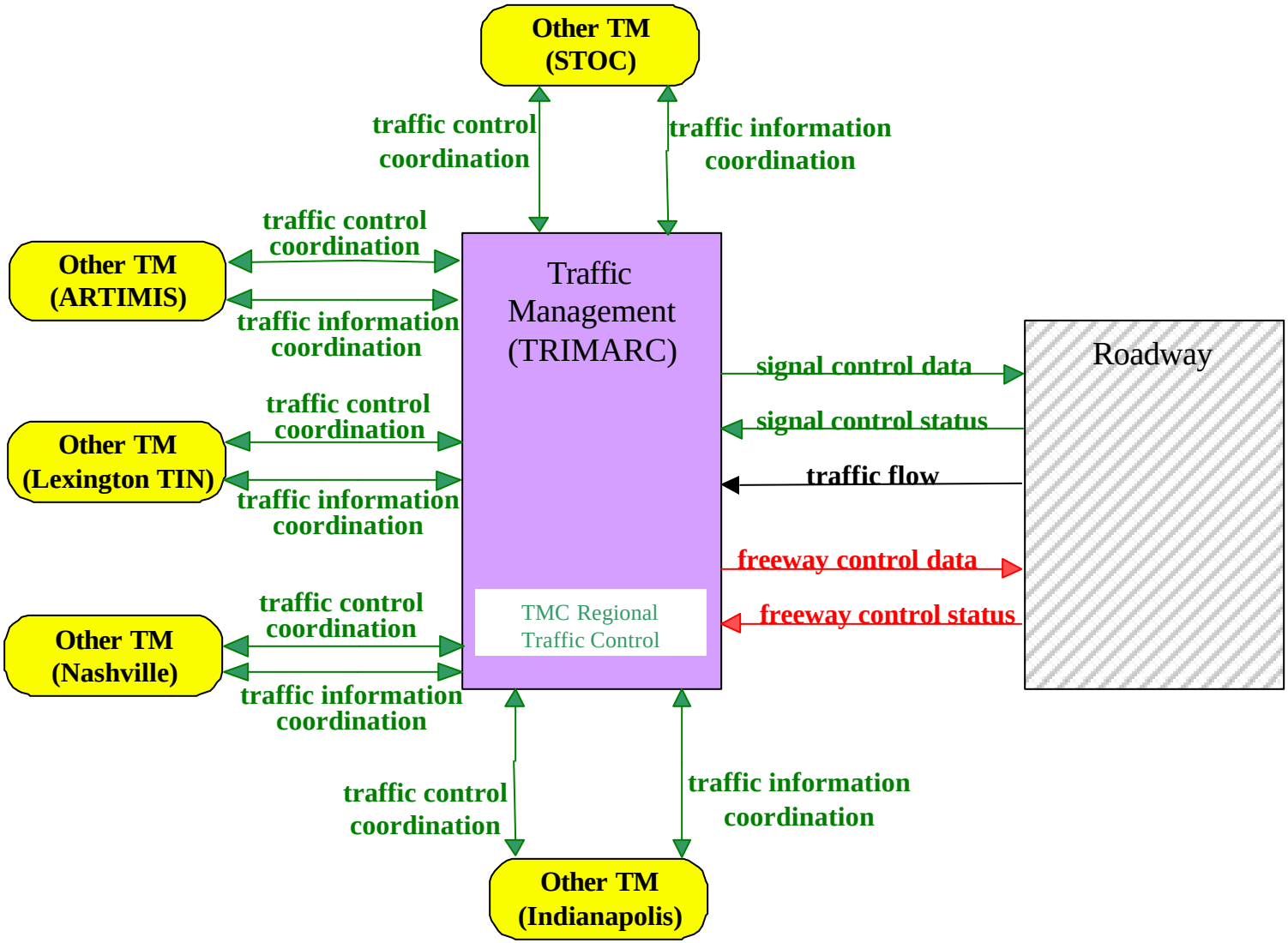
ATMS03 - Surface Street Control



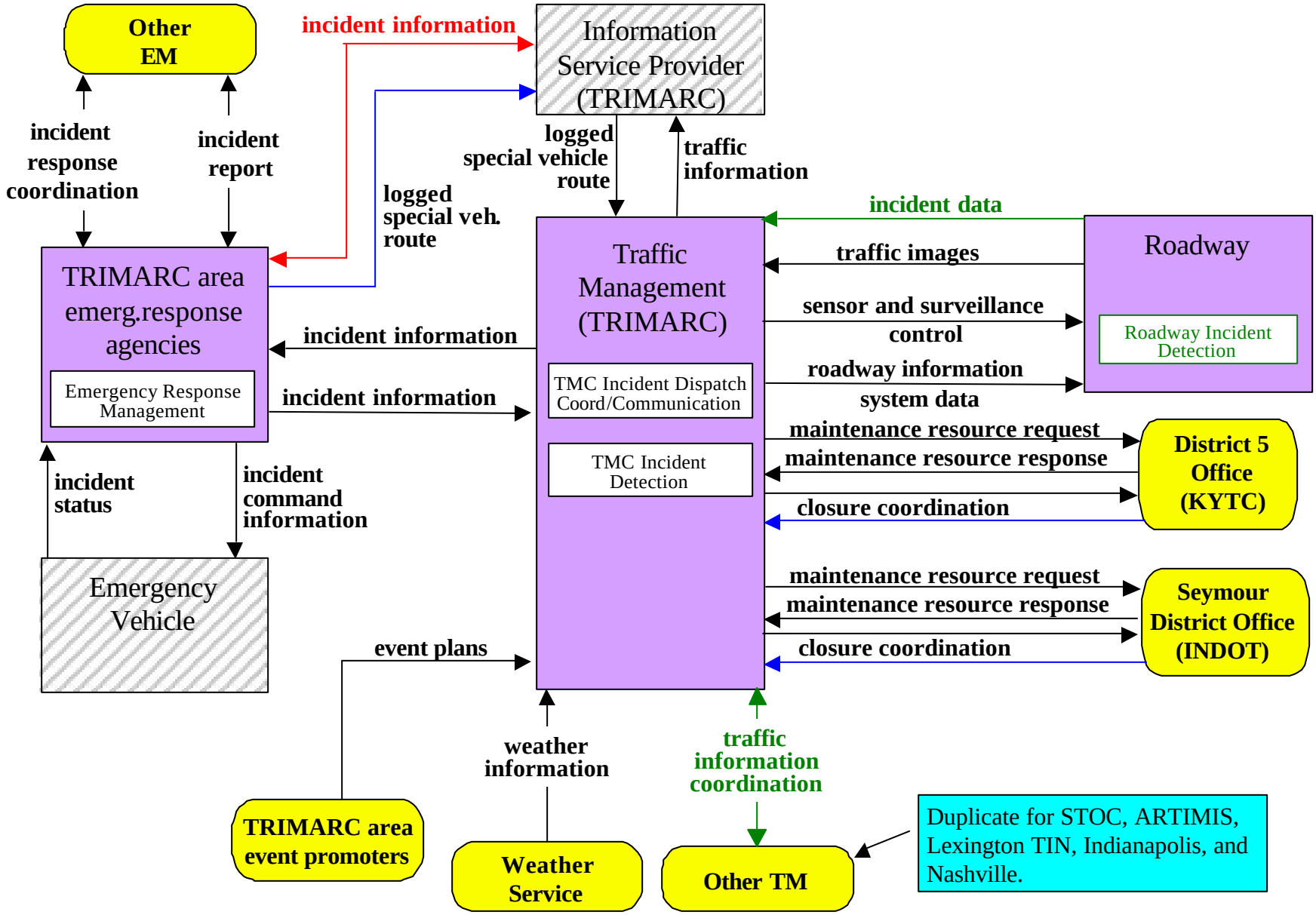
ATMS06 Traffic Information Dissemination



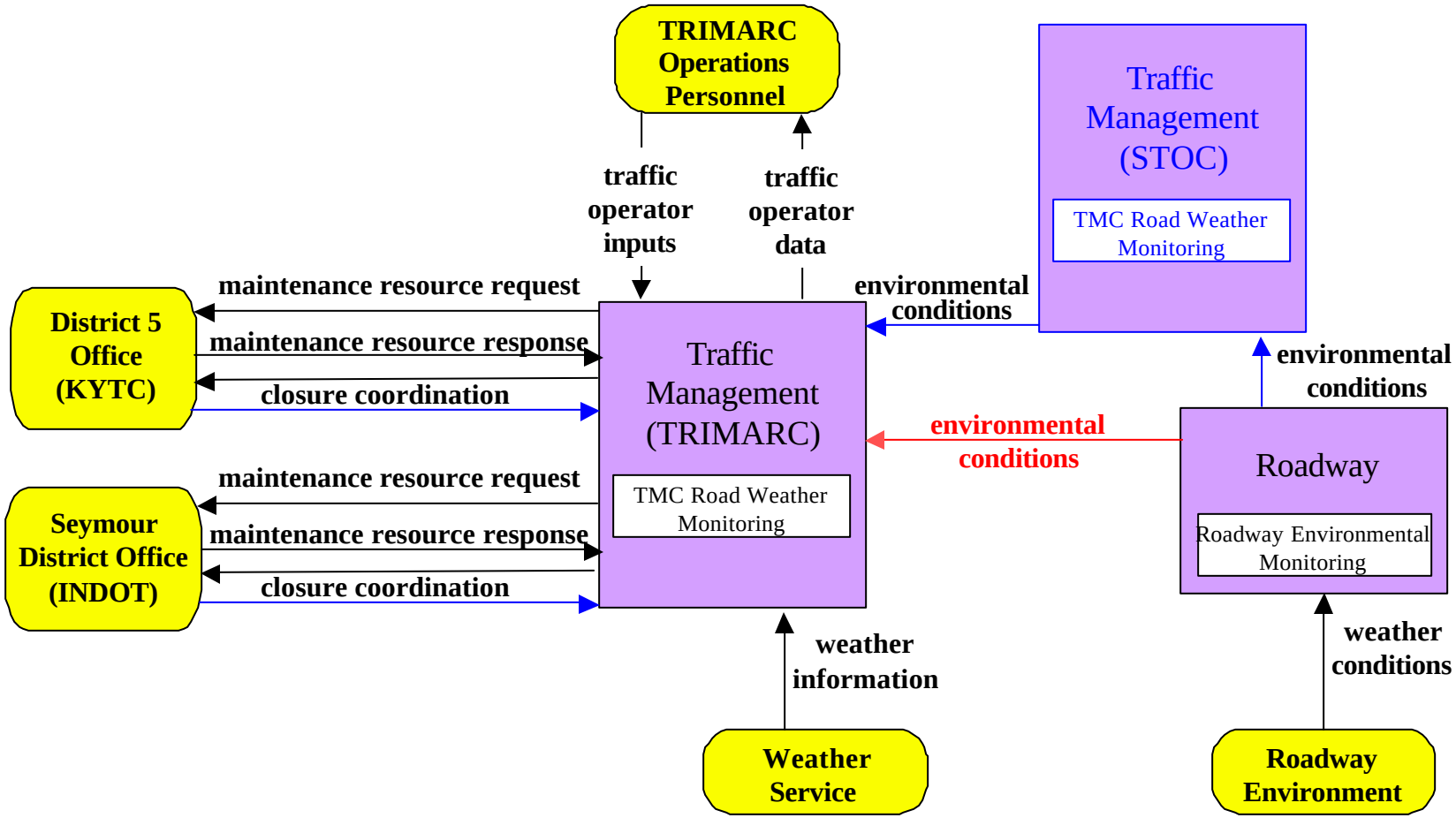
ATMS07 - Regional Traffic Control



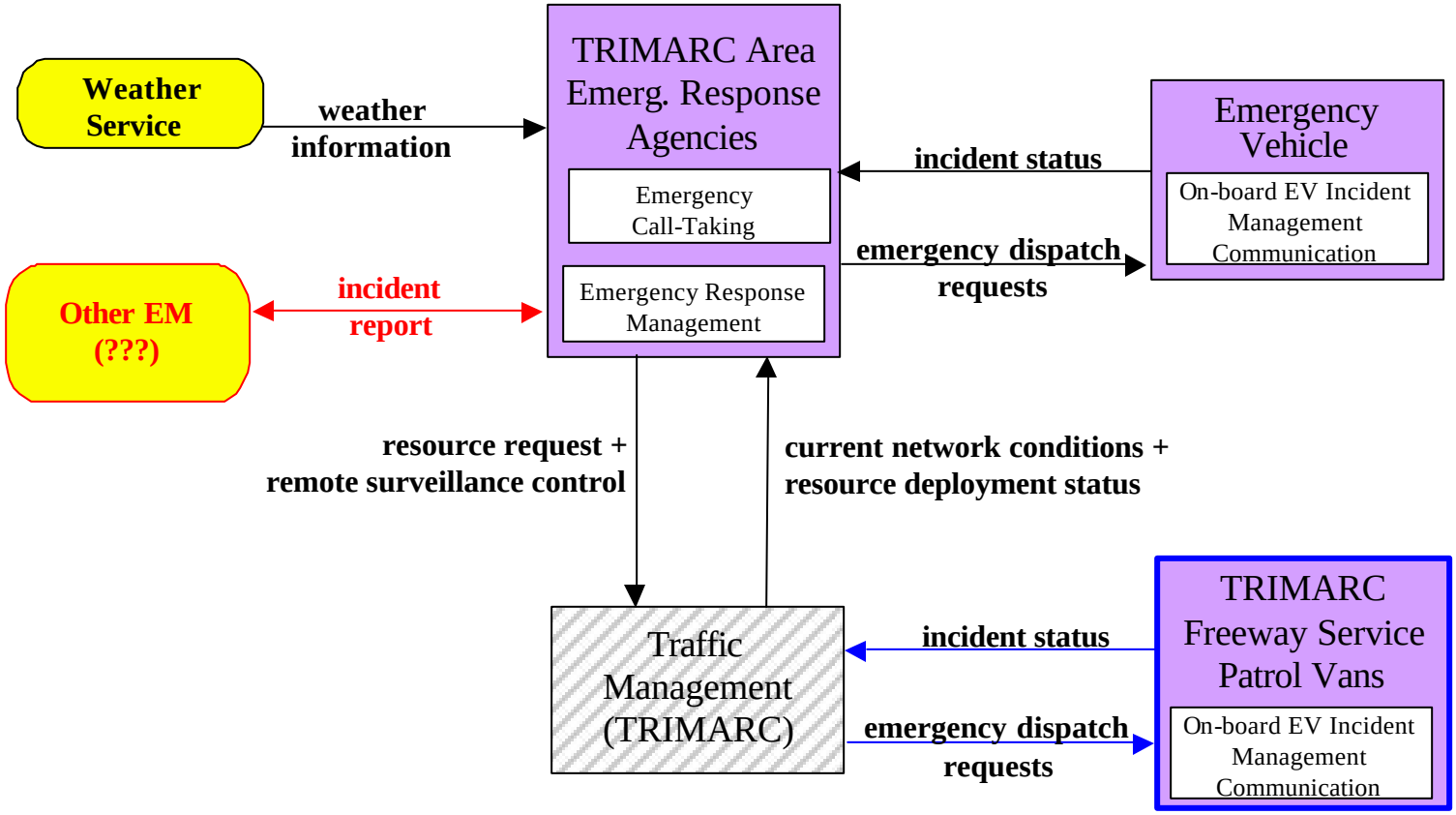
ATMS08 - Incident Management System



ATMS18 - Road Weather Information System



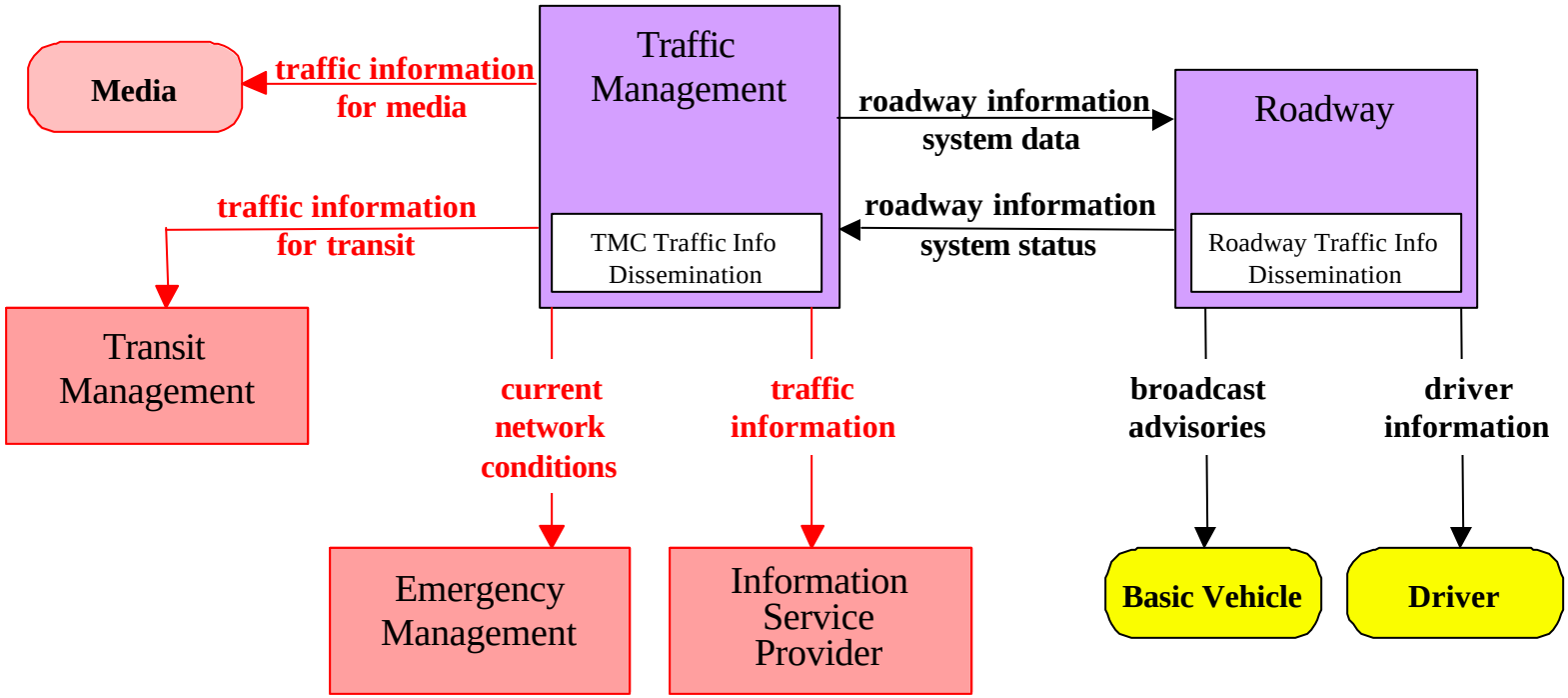
EM1 - Emergency Response



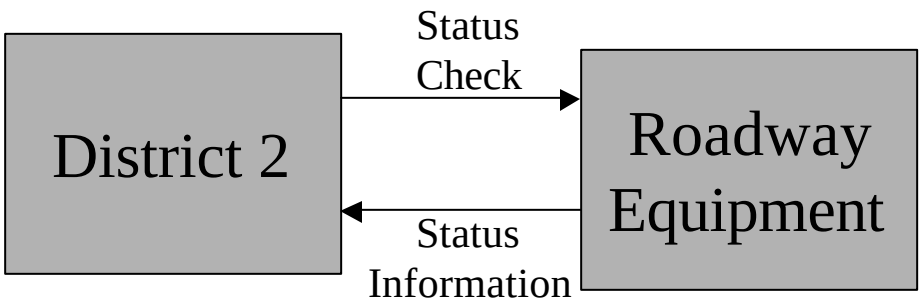
Market Package Diagrams: Truck Rollover Warning

For the Kentucky Statewide ITS Architecture: 2/27/02

ATMS06 Traffic Information Dissemination



System Diagram



- 2 Acoustic Detectors (Mounted overhead on poles, very simple technology)
- 2 EIS wide beam radar detectors mounted to the side of the poles (not on the arm)
- Fiber Optic Message Sign "Trucks Reduce Speed"

Phone line is used to communicate with system (diagnostic/status check info only)

After reaching a specific threshold (based on length and speed determined by detectors), the sign is activated