Appendix A

Evacuation Coordination User Service Development

Working Paper #1

INTERSTATE 4 ITS CORRIDOR FRAMEWORK PHASE II

WORKING PAPER #1

EVACUATION COORDINATION USER SERVICE DEVELOPMENT

Prepared for:

FDOT

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INTERSTATE 4 ITS CORRIDOR FRAMEWORK PHASE II
Evacuation Coordination User Service Development

SECTION 1.0: INTRODUCTION

The developers of the National ITS Architecture identified a three-level structure for defining the requirements of any ITS system: ITS User Service Bundles, ITS User Services, and ITS User Service Requirements.

User Service Bundles are at the highest level of this structure. Thirty-one (31) user services were packaged into 7 groups, or User Service Bundles, which categorize the user services logically by stakeholder area.

ITS User Services are the core of requirements definition and document, at a lower level than User Service Bundles, what an ITS system should do from a user's perspective. A user might be the public, a public system operator or a private system operator. In the National ITS Architecture development effort, the USDOT and ITS America, with significant stakeholder input, have defined 31 user services to date.

And finally, a number of functions are required to accomplish each of these user services. To reflect this, each of the user services was broken down into successively more detailed functional requirements, called User Service Requirements.

A subset of the National ITS User Services was selected for implementation along the I-4 Corridor ITS in Phase I of this project. This subset was selected based on input from the Corridor stakeholder input. In addition, the I-4 corridor stakeholders for the corridor identified several new user services, not currently defined in the National ITS Architecture. These services are:

- Evacuation Coordination,
- Emergency Management Coordination,
- Weather Information Applications,
- Intermodal Freight, and
- Work Zone/Construction Traffic Management.

The I-4 Corridor stakeholders decided to take the lead in developing the Evacuation Coordination user service, while monitoring any future development of the other four new user services and potential in the future development. The proposed Evacuation Coordination user service would fit appropriately under the Emergency Management User Service Bundle.

This technical memorandum outlines the problems, needs and user service requirements associated with the Evacuation Coordination user service.

SECTION 2.0: PROBLEMS AND NEEDS

I-4 is the major evacuation route between east, central and west Florida. The traffic demands, which must be accommodated by the corridor during Hurricane evacuation, create a major challenge to the agencies involved in the evacuation process.

In 1999, Hurricane Floyd skirted the East Coast of Florida making landfall in North Carolina. Over 3 million people were evacuated as a result of the hurricane. This evacuation resulted in overloading of evacuation routes, causing several hours of delays and exposing evacuees to personal risk. In South Carolina, in-state trips took six times longer than normal. Reports of 16 to 18-hour trips from Charleston to Columbia were commonplace. This drive normally takes less than two-hours. In Florida, Interstate 10 motorists traveling out of Jacksonville reported traveling just 35 miles in seven hours.

Citizens and government officials expressed their dissatisfaction with the management of the evacuation process and the lack of information regarding travel conditions and services along the routes and at evacuation destinations.

In this study, several needs were identified for the I-4 evacuation process based on information gathered from meetings organized by the Florida Governor's Task Force on Hurricane Evacuation in November 1999 and also based on what was reported in the media in the aftermath of Hurricane Floyd. These include:

- Better management of the evacuation process is needed. Strategies to reduce the demand must be considered including building shelters near evacuation origins and perform the evacuation in shifts rather than all at once.
- Better management of evacuation routes is needed to accommodate various levels of evacuation (for different storm categories, storm time frame and affected areas). The capacity of evacuation routes shall be increased and efficiently utilized to reduce the potentials for operational failures during evacuation. As stated above, operational failures during recent evacuation operations caused gridlock, long hours of delays, overheated cars, frustrated travelers and significant risks to the evacuees.
- There is a need for better management of the local streets that provide access to and from evacuation routes. The capacity of these streets need to be increased and efficiently utilized to prevent creating bottlenecks at the access points. In recent evacuation operations, queues from surface streets extended to limited access facilities resulting in a decrease in the capacities of evacuation routes.
- It is necessary to provide travelers with real-time information regarding the services available at the evacuation destinations and routes. In recent evacuation operations, motorists were frustrated with the unavailability of information regarding hotel rooms, gas, bathrooms, eateries, and shelters.
- It is necessary to provide travelers with real-time information regarding the evacuation route conditions such as the expected travel time to their destinations, incidents, road closures, lane closures, weather, the route to a certain destination, and the availability of alternative routes. In recent evacuation operations, motorists were left without information regarding what to expect on their trips while waiting for hours in traffic.

- There is a need to provide real-time information to evacuees regarding the conditions expected at their selected destination. In hurricane Floyd evacuation, evacuees spent hours finding rooms, shelters and/or services after reaching their destinations. In addition, evacuees were not informed about accommodations for people with special needs (e.g., disabled, elderly and pets).
- Alternative evacuation destinations need to be provided to evacuees that request this information. In Hurricane Floyd evacuation, many motorists left their homes without knowing where they are going.
- It is necessary to provide coordination between various evacuation agencies (such as transportation, emergency management and law enforcement agencies) at the county, multi-county, and multi-state levels. This coordination must include the evacuated counties (evacuation origins), host and response counties (evacuation destinations and counties that provide assistance in the evacuation process) and counties on evacuation routes. Counties must work as a team during evacuation. Multi-state response is also important to ensure that evacuees from one state do not compound evacuation problems in another state.
- Evacuation route designs need to be examined and modified if necessary to accommodate evacuation management strategies. For example, reversible lane operations and the use of shoulders as an additional lane might require modifications to interchange designs.
- The efficiency of detecting, responding to and clearing incidents on evacuation routes must be maximized. The drop in evacuation route capacities due to incidents could result in the failure of the evacuation process even if the analysis performed during the hurricane evacuation planning indicates that the routes can accommodate the traffic in non-incident conditions.
- It is important to provide information to evacuees at evacuation destinations regarding conditions at their counties. This has been a problem because the media at evacuation destinations is not normally interested in broadcasting information about counties which are not in their coverage areas.
- It is necessary to ensure efficient, safe and secure reentry of the evacuees to their counties. This includes preventing people that are not authorized to enter a hurricane-damaged area, clearing dangerous debris and restoring electricity. The reentry decisions shall balance safety and security with the public's desires to return home.
- There is a need to reduce the time required for implementing and setup of various evacuation strategies due to the short time period available for evacuation. For example, lane reversal might not be a feasible alternative if it takes a long time to setup the operation.
- There is a need for the development of evacuation plans at the county, state and multi-state levels. Data must be collected and archived for the development of these plans and to ensure the validation of the models used in developing the plans. The data shall include items such as traffic flow, speed, occupancy, traveler behavior, and log of events.
- Policies need to be established regarding the lifting of the toll fees. During Hurricane Floyd evacuation, delays in lifting the toll fees in South Carolina increased the dissatisfaction of the evacuees.
- There is a need to provide safe and secure re-entry after evacuation.

SECTION 3.0: EVACUATION COORDINATION USER SERVICES

Based on the problems and needs identified above, the Evacuation Coordination User Service was developed and added to the Emergency Management User Service Bundle. Following the same structure as the National ITS Architecture, user service requirements were developed to define system functions that are required to provide the Evacuation User Service. They are presented below.

3.0 ITS shall provide an Evacuation Coordination (EC) service. EC provides the capability to efficiently manage an evacuation and provide evacuees with information they need during the evacuation, as well as reentry. It consists of five major functions: (1) Evacuation Guidance, (2) Evacuation Travel Information, (3) Evacuation Traffic Management, (4) Evacuation Planning Support and, (5) Resource Sharing.

3.1. EC shall include an Evacuation Guidance (EG) function. This function is provided to benefit the public. EG will provide basic information to assist potential evacuees in determining whether evacuation is necessary. Once the decision is made to evacuate, the EG will also assist evacuees determine destination, routes to shelters and other lodging options. This function will also provide guidance for returning to evacuated areas, information regarding clean-up, and other pertinent information to be distributed from Federal, State, and Local agencies.

3.1.1. EG shall be accessible to users from multiple distributed locations, including, but not limited to, (a) homes, (b) media, (c) public buildings, (d) evacuation shelters, (e) other evacuation destinations, (f) rest areas along evacuation routes, (g) hotels, (h) restaurants, (i) airports and other mode terminals, and (j) wireless devices.

3.1.2. EG shall provide shelter-in-place information if evacuation is not necessary.

3.1.3. EG shall provide a list and graphical depiction of mandatory and voluntary evacuation zones and the categories of people to be evacuated in each zone.

3.1.4. EG shall provide a list of alternative evacuation destinations upon request.

3.1.4.1. EG shall provide alternative evacuation destinations based on historical evaluation of the services available at the destinations.

3.1.4.2. EG shall provide alternative evacuation destinations based on current and forecast conditions at the destinations.

3.1.4.3. EG shall provide alternative evacuation destinations based on current and forecast availability of services at destinations and along the routes to these destinations.

3.1.4.4. EG shall provide alternative evacuation destinations based on traveler specified parameters including the general location of the destinations and the desired services.

3.1.4.5. EG shall provide alternative evacuation destinations based on the current and forecast conditions on evacuation routes.

3.1.5. EG shall provide recommended evacuation and reentry route(s) for user-selected evacuation origin and destination pairs.

3.1.5.1. Recommended routes shall be based on an evaluation of historical operational characteristics of the alternative routes.

3.1.5.2. Recommended routes shall be based on real-time and forecast route conditions.

3.1.5.3. Recommendation of routes shall be based on traveler-specified route parameters.

3.1.6. EG shall provide the recommended evacuation and reentry start time for user-selected evacuation origin and destination pairs.

3.1.6.1. The recommended start time shall be based on the travel time required for the trip, given existing and forecast conditions on those routes.

3.1.6.2. The recommended start time shall take into account the capability of the evacuation network to handle evacuation demands based on a historical evaluation of the network and current and future network conditions.

3.1.6.3. The recommended start time shall be based on the existing and forecast conditions at evacuation origin.

3.1.6.4. The recommended start time shall be based on the existing and forecast conditions at evacuation destination.

3.1.6.5. The recommended reentry time shall ensure the safety and security of travelers and their properties.

3.1.7. EG shall provide information regarding evacuation shelters in areas specified by users.

3.1.7.1. EG shall provide the locations of evacuation shelters.

3.1.7.2. EG shall provide the time at which evacuation shelters are in operation.

3.1.7.3. EG shall provide the occupancy levels at evacuation shelters.

3.1.7.4. EG shall provide the facilities available at evacuation shelters, including those shelters that will accommodate people with special needs, such as pets, disabilities and elderly.

3.2. EC shall provide an Evacuation Travel Information (ETI) function. This function will benefit evacuees in planning their evacuation trip once that decision has been made. This function will also allow travelers to change course during the trip based on route and destination conditions.

3.2.1. ETI shall provide the capability for users to access information from multiple distributed locations, including, but not limited to, (a) homes, (b) vehicles, (c) rest areas along evacuation routes, (c) evacuation shelters, (d) hotels, (e) restaurants, (i) airports and other mode terminals, and (j) wireless devices.

3.2.2. ETI shall provide information about traffic conditions on evacuation routes.

3.2.2.1. ETI shall provide the current speed/travel time on evacuation routes.

3.2.2.2. ETI shall provide an estimate of future speed/travel time on evacuation routes, taking into consideration current evacuation decisions and traveler behavior.

3.2.2.3. ETI shall provide information regarding incident conditions on evacuation routes.

3.2.2.4. ETI shall provide real-time road, bridge and lane closure information.

3.2.2.5. ETI shall provide a list of roads that should be avoided due to hazardous conditions, such as flooding, malfunctioning traffic signals, debris and falling objects.

3.2.3. ETI shall provide the current and forecast weather conditions for evacuation origins, destinations and routes.

3.2.4. ETI shall provide information regarding transportation modes including buses, airlines, trains and ships.

3.2.4.1. ETI shall provide information regarding the availability of transportation mode services.

3.2.4.2. ETI shall provide arrival and departure information, including location, for those services available.

3.2.5. ETI shall provide general evacuation guidance information to travelers, including guidance/tips for trip preparation, trip duration and trip return.

3.2.6. ETI shall provide information regarding lodging available along evacuation routes and at evacuation destinations.

3.2.6.1. ETI shall provide the capability for travelers to request and receive information regarding lodging, including (a) room availability, (b) facilities, (c) conditions, and (d) pricing information.

3.2.7. ETI shall provide information regarding services available along evacuation routes, at evacuation origins and at evacuation destinations.

3.2.7.1. ETI shall provide real time information relating to (a) the conditions, (b) status, and (c) availability of traveler services described in this section.

3.2.7.2. ETI shall provide the capabilities for travelers to request and receive information regarding restaurants and stores, including (a) hours of operation and any changes to these hours, (b) availability of special items (such as water, non-perishable foods, wood, and batteries), and (c) pricing information.

3.2.7.3. ETI shall provide the capabilities for travelers to request and receive information regarding local hospitals and other medical services.

3.2.7.4. ETI shall provide the capabilities for travelers to request and receive information regarding gas stations, including (a) location, (b) operation status, (c) pricing information, and (d) the expected waiting time.

3.2.7.5. ETI shall provide information regarding rest areas, telephone and restroom availability.

3.2.8. ETI shall provide information regarding school and office closures.

3.3. EC shall provide an Evacuation Traffic Management (ETM) function. This function will assist evacuation coordination personnel manage evacuation operations on the transportation network.

3.3.1. ETM shall have a real-time data collection process to assist in the selection of evacuation strategies and to monitor the operations of the selected evacuation strategies.

3.3.2. ETM shall have a demand forecasting function that takes into consideration current traffic flows, current and historical evacuation trends, the size of the area to be evacuated and expected human responses.

3.3.3. ETM shall include a strategy selection function that maximizes efficiency during evacuation and reentry operations.

3.3.3.1. The strategy shall integrate the control of freeways and surface streets.

3.3.3.2. The strategy selection function shall consider traffic movement over the entire evacuation network.

3.3.3.3. The strategy selection function shall be responsive to current demand as well as the forecast demand.

3.3.3.4. The strategy selection function shall optimize the movement of emergency and law enforcement vehicles.

3.3.3.5. The strategy selection function shall allow easy access of emergency and law enforcement vehicles to traffic on evacuation routes.

3.3.3.6. The strategy selection function shall consider the operation of the access to and from the evacuation routes.

3.3.3.7. The strategy selection function shall consider the impacts to local traffic along evacuation routes.

3.3.3.8. The strategy selection function shall consider the time available for evacuation, time required for evacuation and time required for implementing the evacuation strategy.

3.3.3.9. The strategy selection function shall consider the availability of the resources required for the evacuation strategy.

3.3.3.10. The strategy selection function shall consider the severity of the expected disaster and the size of the area affected by the disaster.

3.3.3.11. The strategy selection function shall consider the feasibility of using transit and school bus fleet during mandatory evacuations.

3.3.4. ETM shall provide the control of devices as required by the evacuation management plan, including: (a) traffic signals, (b) dynamic message signs, (c) ramp meters, (d) reversible lane signs, (e) turning restriction signs, (f) road

closure devices, (g) lane closure devices, (h) HAR, (i) TiRN, (j) shoulder use signs.

3.3.5. ETM shall provide the operator with the capability to manually override the system automatic control.

3.3.6. ETM shall have an incident management function for evacuation routes.

3.3.7. ETM shall have the capability to eliminate tolls upon command.

3.3.8. ETM shall have a lane reversal management function.

3.3.8.1. It shall be possible to collect real-time data for traffic moving in all traveling lanes, with and without lane reversal.

3.3.9. ETM shall have archiving capabilities.

3.4. EC shall provide an Evacuation Planning Support function. This function will support the evacuation planning process by providing information, current and historical, to emergency management planning personnel.

3.4.1. Evacuation Planning Support shall provide archived evacuation data, such as traffic flows, travel speed, vehicle occupancy, road closures, network geometry, traveler behavior, travel origins, travel destinations and evacuation traffic management strategies.

3.4.2. Evacuation Planning Support shall support the development of regional and multi-regional evacuation plans.

3.4.3. Evacuation Planning Support shall assist in identifying required modifications to transportation network geometry to accommodate evacuation strategies.

3.4.4. Evacuation Planning Support shall assist in defining the required resources for evacuation strategies.

3.5. EC shall provide a Resource Sharing function. This function shall allow information and resource sharing between agencies involved in the evacuation including transportation, emergency management, law enforcement and other emergency service agencies.

3.5.1. Resource Sharing shall allow information sharing between agencies.

3.5.1.1. Resource Sharing shall facilitate information sharing between various agencies at local, state and federal levels.

3.5.1.2. Resource Sharing shall provide communication capabilities among personnel of the agencies involved in the evacuation and between these personnel and the agency centers.

3.5.1.3. Resource Sharing shall provide coordination and information sharing between agencies from all states affected by the evacuation.

3.5.1.4. Resource Sharing shall provide information to assist evacuation management personnel in making evacuation decisions.

3.5.1.5. Resource Sharing shall provide information to assist evacuation management personnel in making decisions regarding shelter operations.

3.5.2. Resource Sharing shall assist evacuation management personnel in making decisions regarding deployment of resources and sharing of resources based on existing and forecast demand for these resources.

3.5.2.1. Resource Sharing shall identify the resources required for the current and forecast evacuation scenarios.

3.5.2.2. Resource Sharing shall identify the resources required to implement alternative evacuation management strategies.

3.5.2.3. Resource Sharing shall identify the resource deployment stages, in time and space, for each evacuation scenario.

3.5.2.4. Resource Sharing shall assist local, state and multi-state agencies in sharing resources between agencies.

3.5.2.5. Resource Sharing shall identify the resource deployment stages, in time and space, for each evacuation scenario.

3.5.2.6. Resource Sharing shall assist local, state and multi-state agencies in sharing resources between agencies.

Appendix B

Maintenance and Coordination Operations User Service

Appendix C

FDOT ITS Plan User Service Requirements

Table C.1– ITS Plan User Service Requirements

USR	Description	Status
1.0	TRAVEL AND TRAFFIC MANAGEMENT	Original
1.1	PRE-TRIP TRAVEL INFORMATION	Original
1.1.0	ITS shall provide a Pre-Trip Travel Information (PTTI) capability to assist travelers in making mode choices, travel time estimates, and route decisions prior to trip departure. It consists of four major functions, which are, (1) Available Services Information, (2) Current Situation Information, (3) Trip Planning Service, and (4) User Access. Information is integrated from various transportation modes and presented to the user for decision-making.	Original
1.1.1	PTTI shall provide travelers with information on those travel services available for their use.	Original
1.1.1.1	PTTI shall provide users with available services information that is timely.	Original
1.1.1.1.1	PTTI shall provide users the latest available information on transit routes.	Original
1.1.1.1.2	PTTI shall provide users the latest available information on transit schedules.	Original
1.1.1.1.3	PTTI shall provide users with real time schedule adherence information.	Original
1.1.1.1.4	PTTI shall provide users the latest available information on transit transfer options.	Original
1.1.1.1.5	PTTI shall provide users the latest available information on transit fares.	Original
1.1.1.1.6	PTTI shall provide users information on accessing ride matching services.	Original
1.1.2	PTTI shall provide the capability for users to access information on the current condition of transportation systems.	Original
1.1.2.1	PTTI transportation services current situation information shall be provided in real-time.	Original
1.1.2.1.1	Real-time information provided by PTTI shall include the current condition of any incidents.	Original
1.1.2.1.2	Real-time information provided by PTTI shall include the current status of any accidents or incidents.	Original
1.1.2.1.3	Real-time information provided by PTTI shall include the current condition of any road construction.	Original
1.1.2.1.4	Real-time information provided by PTTI shall include any currently recommended alternate routes.	Original
1.1.2.1.5	Real-time information provided by PTTI shall include the current speeds on specific routes.	Original
1.1.2.1.6	Real-time information provided by PTTI shall include current parking conditions in key areas.	Original
1.1.2.1.7	Real-time information provided by PTTI shall include the schedules for any current or soon to start events.	Original
1.1.2.1.8	Real-time information provided by PTTI shall include the current weather situation.	Original
1.1.3	PTTI shall include a trip planning service.	Original
1.1.3.1	PTTI trip planning service shall provide the users with information needed for planning an upcoming trip.	Original
1.1.3.1.1	Based on user specified parameters PTTI shall provide users with a calculated itinerary.	Original
1.1.3.1.2	Based on user specified parameters PTTI shall provide users with transportation mode choices.	Original
1.1.3.1.3	Based on user specified parameters PTTI shall provide users with real-time travel conditions for time of inquiry and estimated conditions for estimated time of travel.	Original
1.1.3.1.4	Based on user specified parameters PTTI shall provide users with one or more alternate itineraries in addition to the primary calculated itinerary.	Original
1.1.3.2	PTTI shall provide the capability for users to specify those transportation parameters that are unique to their individual needs.	Original
1.1.3.2.1	PTTI shall provide the capability for users to specify a desired destination.	Original
1.1.3.2.10	PTTI shall provide the capability for users to specify their preferred weather conditions.	Original
1.1.3.2.2	PTTI shall provide the capability for users to specify a planned departure location.	Original
1.1.3.2.3	PTTI shall provide the capability for users to specify their desired departure time.	Original
1.1.3.2.4	PTTI shall provide the capability for users to specify their desired arrival time.	Original

Table C.1 (Continued)

USR	Description	Status
1.1.3.2.5	PTTI shall provide the capability for users to specify their maximum acceptable travel time.	Original
1.1.3.2.6	PTTI shall provide the capability for users to specify their maximum acceptable number of mode changes.	Original
1.1.3.2.7	PTTI shall provide the capability for users to specify a maximum number of transfers.	Original
1.1.3.2.8	PTTI shall provide the capability for users to specify their preferred route(s) or segment of route(s).	Original
1.1.3.2.9	PTTI shall provide the capability for users to specify their preferred transportation mode(s).	Original
1.1.3.3	In addition to the user specified parameters PTTI shall use additional factors when planning trips.	Original
1.1.3.3.1	PTTI shall consider current travel conditions when calculating a trip itinerary.	Original
1.1.3.3.2	PTTI shall consider predicted travel conditions when calculating a trip itinerary.	Original
1.1.4	PTTI shall provide the capability for user access.	Original
1.1.4.1	PTTI shall provide the capability for users to access the system from multiple distributed locations.	Original
1.1.4.1.1	PTTI shall provide the capability for users to access the system from their homes.	Original
1.1.4.1.2	PTTI shall provide the capability for users to access the system from their place of work.	Original
1.2	EN-ROUTE DRIVER INFORMATION	
1.2.2	Driver advisory shall be implemented in two phases with first a short-term capability and later a long term capability.	Original
1.2.2.1	The short term DI driver information capability shall include the ability to provide information to travelers within the limited area of deployment.	Original
1.2.2.1.1	DI shall include the capability to provide travelers with accurate information concerning available travel options and their state of operational availability.	Original
1.2.2.1.2	DI shall provide that information to travelers required for them to avoid areas of congestion.	Original
1.2.2.1.2.1	DI shall provide that information needed for travelers to select those transportation modes that allow them to avoid congestion.	Original
1.2.2.1.3	DI shall provide the capability for users to receive travel information in their vehicles.	Original
1.2.2.1.4	In the short-term DI shall be deployed in those limited areas where the need and associated benefits are more immediate.	Original
1.2.2.2	The long term DI driver information capability shall include the ability to provide information to travelers within all geographic areas of the ITS deployment.	Original
1.3	ROUTE GUIDANCE	Original
1.3.0	ITS shall include a Route Guidance (RG) function. Route Guidance will provide travelers with directions to selected destinations. Four functions are provided which are (1) Provide Directions, (2) Static Mode, (3) Real-Time Mode, and (4) User Interface.	Original
1.3.1	RG shall include the capability to Provide Directions to travelers.	Original
1.3.1.1	The Provide Directions function shall provide travelers with directions to their selected destination locations.	Original
1.3.1.2	The Provide Directions function shall issue directions to travelers that are based on information about current conditions of transportation systems.	Original
1.3.1.2.1	Current transportation system conditions upon which directions to travelers is based shall include, but not be limited to, the following:	Original
1.3.1.2.1(a)	Current traffic conditions.	Original
1.3.1.2.1(b)	Status of transit systems.	Original
1.3.1.2.1(c)	Schedules of transit systems.	Original
1.3.1.2.1(d)	Events taking place that influence travel routes.	Original
1.3.1.2.1(d).1	Street closures.	Original
1.3.1.2.1(d).2	Pedestrian events.	Original
1.3.1.2.1(d).3	No pedestrian zones.	Original

Table C.1 (Continued)

USR	Description	Status
1.3.1.3(a)	Particular streets.	Original
1.3.1.3(b)	Roads.	Original
1.3.1.3(c)	Walkways.	Original
1.3.1.3(d)	Transit facilities.	Original
1.3.2	RG shall include a Static Mode for issuing information to travelers.	Original
1.3.2.1	Static Mode shall provide travelers with information that includes, but is not limited to, the following:	Original
1.3.2.1(a)	Mapping information about roadways.	Original
1.3.2.1(b)	Scheduling information about transit systems.	Original
1.3.2.2	Static Mode infrastructure systems shall provide the capability to have two-way communications between the traveler and the infrastructure.	Original
1.3.2.2.1	The two-way communications shall provide the capability for the infrastructure to receive the traveler's desired destination.	Original
1.3.2.2.2	The two-way communications shall provide the capability to provide directions back to travelers that are based on the infrastructure's calculated routing.	Original
1.3.2.3	The Real-Time Mode shall provide the capability for autonomous operation of mobile-based systems.	Original
1.3.3	RG shall include a Real-Time Mode for issuing information to travelers.	Original
1.3.3.1	The Real-Time Mode shall utilize current travel condition information to provide performance that is enhanced over the Static Mode performance, to include, but not be limited to, the following:	Original
1.3.3.1(a)	Traffic conditions information.	Original
1.3.3.1(b)	Dynamic transit schedule information.	Original
1.3.3.2	The Real-Time Mode shall include the capability to operate in either or both of the following two configurations:	Original
1.3.3.2(a)	Route selection processors located on the mobile unit.	Original
1.3.3.2(b)	Route selection processors installed in the transportation system infrastructure.	Original
1.3.3.2.1	Real-Time Mobile Based systems shall include the capability to receive infrastructure information, when available, and use it in determining routing.	Original
1.3.3.3	The Real-Time mode shall provide the capability for autonomous operation of mobile-based systems.	Original
1.3.4	RG shall include a User Interface function.	Original
1.3.4.1	The User Interface shall provide the capability for travelers to access the system by utilizing interactive devices that include, but are not limited to, the following:	Original
1.3.4.1(a)	Visual displays.	Original
1.3.4.1(b)	Keypads.	Original
1.3.4.1(c)	Touch sensitive devices.	Original
1.3.4.1(d)	Computer generated voice.	Original
1.3.4.1(e)	Voice recognition system.	Original
1.3.4.2	Mobile systems shall use the best information available to provide routing instructions.	Original
1.3.4.2.1	Mobile Systems shall provide the capability for individual travelers to customize the routing selected for them.	Original
1.3.4.2.2	Mobile Systems customizing of traveler's routing shall be based on certain conditions specified by the traveler to include, but not be limited to, the following:	Original
1.3.4.2.2(a)	Avoid expressway-type highways.	Original
1.3.4.2.2(b)	Avoid multiple mass transit transfers.	Original
1.3.4.3	Infrastructure-based systems shall also permit individual travelers to customize their routing selection.	Original
1.3.4.3.1	Infrastructure-based systems shall use the traveler's destination information to estimate extra demand on the transportation system and then provide routing to the traveler based on this predicted demand.	Original
1.4	RIDE MATCHING AND RESERVATION	Original
1.4.1	RMR shall include a Rider Request capability.	Original
1.4.1.1	Rider Request shall provide the capability for a traveler to request a ride by placing a single request from a facility to include, but not be limited to, the following:	Original

Table C.1 (Continued)

USR	Description	Status
1.4.1.1(a)	Telephones (including hearing-impaired capability).	Original
1.4.1.1(b)	Kiosks.	Original
1.4.1.2	Rider Request shall provide a traveler the capability to request a specific itinerary by specifying, but not be limited to, the following:	Original
1.4.1.2(a)	Date.	Original
1.4.1.2(b)	Time of pick-up and drop-off.	Original
1.4.1.2(c)	Origin.	Original
1.4.1.2(d)	Destination.	Original
1.4.1.2(e)	Specific restrictions or preferences.	Original
1.4.1.3	Based on the traveler's request and specified itinerary, Rider Request shall provide the traveler with the available ridesharing options.	Original
1.4.1.4	Rider Request shall also include the capability to perform real-time ridematching by instantly matching rider and driver	Original
1.4.2	RMR shall include a Transportation Provider Service function.	Original
1.4.2.1	Transportation Provider Services shall include the capability for providers to have their billing arranged through a central clearinghouse.	Original
1.4.2.2	Transportation Provider Services shall include electronic safeguards against fraud and abuse.	Original
1.4.2.3	Transportation Provider Services shall automatically generate needed reports and financial documentation.	Original
1.4.2.4	Transportation Provider Services shall include the capability for commercial operators such as vanpools and taxis to be included as options for requesting travelers.	Original
1.4.3	RMR shall include an Information Processing function.	Original
1.4.3.1	Information Processing shall quickly match preferences and demands of requesting travelers with the services available from providers.	Original
1.4.3.2	Information Processing shall provide a clearinghouse capability for rideshare financial transactions.	Original
1.4.3.3	Information Processing shall link together the services available from all travel modes including, but not limited to, the following:	Original
1.4.3.3(a)	Bus	Original
1.4.3.3(b)	Rail	Original
1.4.3.3(c)	Vanpools	Original
1.4.4.3(d)	Express bus	Original
1.4.4.3(e)	Commercial providers	Original
1.4.4.3(f)	Specialized service	Original
1.4.4.3(g)	Carpools.	Original
1.4.3.4	Information Processing shall provide the informational infrastructure needed to connect providers and consumers.	Original
1.4.3.5	Information Processing shall provide the capability to gather that market information needed to assist in the planning of service improvements.	Original
1.4.3.6	Information Processing shall provide the capability to gather that market information needed to assist in maintenance of operations.	Original
1.5	TRAVELER SERVICES INFORMATION	Original
1.5.0	ITS shall include a Traveler Services Information (TSI) function. Traveler Services Information provides travelers with service and facility data for the purpose of assisting prior to embarking on a trip or after the traveler is underway. The functions that are included in this capability are Information Receipt and Information Access. This will provide the traveler with a "yellow pages" type of capability.	Original
1.5.1	TSI shall include an Information Receipt function for the collection of that information provided to travelers.	Original
1.5.1.1	Information Receipt shall provide and maintain a database of local area services available to travelers.	Original
1.5.1.2	Information Receipt provides the capability to acquire up to the minute information relating to traveler services available in the local area.	Original
1.5.1.2.1	Information Receipt shall acquire information on the condition of local traveler services.	Original
1.5.1.2.2	Information Receipt shall acquire information on the status of local traveler services.	Original

Table C.1 (Continued)

USR	Description	Status
1.5.1.2.3	Information Receipt shall acquire information on the availability of local traveler services.	Original
1.5.1.2.4	Information Receipt shall acquire information on the availability of local motorist services.	Original
1.5.1.2.5	Information Receipt shall acquire information on the availability of local tourist services.	Original
1.5.1.3	Information Receipt shall be capable of being integrated with Pre-Trip Planning information.	Original
1.5.1.4	Information Receipt shall provide the capability to support those financial transactions required for travelers to be billed for the purchase of activity tickets and room reservations.	Original
1.5.1.5	Information Receipt shall include the capability to have interactive connectivity between users, sponsors and providers of services.	Original
1.5.2	TSI shall include an Information Access function that allows travelers to access the available information.	Original
1.5.2.1	Information Access shall provide the capability for travelers to request and receive general information about the local area.	Original
1.5.2.2	Information Access shall provide the capability for travelers to request and receive information about specific services in an area to include but, not be limited to, the following:	Original
1.5.2.2(a)	Lodging information.	Original
1.5.2.2(b)	Food information.	Original
1.5.2.2(c)	Parking information.	Original
1.5.2.2(d)	Hours of operation information.	Original
1.5.2.2(e)	Tourist activities information.	Original
1.5.2.2(f)	Daily or special events information.	Original
1.5.2.2(g)	Local hospital information.	Original
1.5.2.2(h)	Nearest gas station information.	Original
1.5.2.3	Information Access shall provide the capability for travelers to request specific actions of area service providers to include, but not be limited to:	Original
1.5.2.3(a)	Lodging reservations.	Original
1.5.2.3(b)	Dining reservations.	Original
1.5.2.4	Information Access shall provide the capability for all travelers to access information regardless of their particular mode of travel.	Original
1.5.2.5	Information Access shall provide the capability for travelers to access the TSI information via any of, but not limited to, the following methods:	Original
1.5.2.5(a)	Highway advisory radio.	Original
1.5.2.5(b)	Dial-up telephone lines.	Original
1.5.2.5(c)	Computers at home.	Original
1.5.2.5(d)	Computers in the office.	Original
1.5.2.5(e)	In-vehicle computers.	Original
1.5.2.5(f)	Public area kiosks.	Original
1.5.2.5(g)	Personal portable devices.	Original
1.5.2.6	Information Access shall provide the capability for travelers to access TSI information from public kiosk locations which include, but are not limited to:	Original
1.5.2.6(a)	Rest areas.	Original
1.5.2.6(b)	Activity centers.	Original
1.5.2.6(c)	Tourist attractions.	Original
1.5.2.6(d)	Service plazas.	Original
1.5.2.6(e)	Airports.	Original
1.6	TRAFFIC CONTROL	Original
1.6.0	ITS shall provide a Traffic Control capability. Traffic Control provides the capability to efficiently manage the movement of traffic on streets and highways. Four functions are provided which are (1) Traffic Flow Optimization, (2) Traffic Surveillance, (3) Control Function, and (4) Provide Information. This will also include control of network signal systems with eventual integration of freeway control.	Original

Table C.1 (Continued)

USR	Description	Status
1.6.1	Traffic Control shall include a Flow Optimize function to provide the capability to optimize traffic flow.	Original
1.6.1.1	The Flow Optimize function shall employ control strategies that seek to maximize traffic-movement efficiency.	Original
1.6.1.1.1	Traffic-movement control shall manage movement of traffic on streets.	Original
1.6.1.1.2	Traffic-movement control shall manage movement of traffic on highways.	Original
1.6.1.1.3	Traffic-movement control shall include the goal of minimizing delay times.	Original
1.6.1.1.4	Traffic-movement control shall include the goal of minimizing energy use.	Original
1.6.1.1.5	Traffic-movement control shall include the goal of minimizing air quality impacts due to traffic.	Original
1.6.1.2	The Flow Optimize function shall include a Wide Area optimization capability, to include several jurisdictions.	Original
1.6.1.2.1	Wide area optimization shall integrate the control of network signal systems with the control of freeways.	Original
1.6.1.2.2	Wide area optimization shall include features that provide preferential treatment for transit vehicles.	Original
1.6.1.2.3	Wide area optimization shall include features that provide preferential treatment for HOV.	Original
1.6.1.3	Flow optimize shall be implemented in a manner that seeks to optimize traffic movement over a large geographic area.	Original
1.6.1.4	Flow optimize shall include a Control function that is responsive to both the current demand as well as the expected demand.	Original
1.6.1.4.1	Control shall include the capability to facilitate the dissipation of traffic congestion.	Original
1.6.1.5	Flow Optimize shall provide the capability to predict travel patterns.	Original
1.6.1.6	The Control Function shall include the use of data acquired from traffic surveillance as feedback to the control strategies.	Original
1.6.1.7	Implementation of the Control Function shall include strategies that account for at least the following:	Original
1.6.1.7(a)	Human factors.	Original
1.6.1.7(b)	Driver/traveler behavior and expectancies.	Original
1.6.2	Traffic Control shall include a Traffic Surveillance function.	Original
1.6.2.1	Traffic Surveillance shall include a Vehicle Detection function with the capability of accurately detecting vehicles in a real-time fashion.	Original
1.6.2.1.1	Vehicle Detection shall include the capability to determine those vehicles that are HOVs.	Original
1.6.2.2	Traffic Surveillance shall include a Data Collect function to provide the capability to collect data that are needed for determining traffic flow and prediction.	Original
1.6.2.2.1	Data Collect shall provide the capability to quickly feedback traffic data to the control processes.	Original
1.6.2.3	Traffic Surveillance shall include an area wide surveillance capability to include several jurisdictions.	Original
1.6.2.3.1	The area wide surveillance shall gather speed and flow information.	Original
1.6.2.3.2	The area wide surveillance shall cover a large number of roadway segments.	Original
1.6.2.4	Traffic Control shall provide the capability to acquire detailed traffic measurements at specific locations.	Original
1.6.2.4.1	Traffic Surveillance shall include a Data Process function to process the traffic data that are acquired.	Original
1.6.2.5	The wide area surveillance shall acquire sufficient data to provide the system with the knowledge of the existing conditions.	Original
1.6.2.5.1	Data Process shall combine and process traffic data from multiple sources and times in order to improve the accuracy of the view of the current traffic condition.	Original
1.6.2.5.2	Data Process shall process traffic data to generate near term predictions of traffic conditions.	Original
1.6.3	Traffic Control shall include a Control Function.	Original
1.6.3.1	The Device Control Function shall include a "real-time" traffic-adaptive control capability.	Original

Table C.1 (Continued)

USR	Description	Status
1.6.3.2	The real-time traffic-adaptive control portion of the Control Function shall be an area wide control to include several jurisdictions.	Original
1.6.3.2.1	The area wide control shall be implemented in an integrated and consistent manner that avoids the issuance of conflicting controls.	Original
1.6.3.2.2	The area wide control shall be implemented in a manner that permits the following types of vehicles to have preference over other vehicles being controlled.	Original
1.6.3.2.2(a)	Transit.	Original
1.6.3.2.2(b)	HOV.	Original
1.6.3.2.2(c)	Emergency Medical Service Vehicles.	Original
1.6.3.3	The Device Control Function shall provide the capability to exercise control over those devices utilized for traffic control.	Original
1.6.3.3.1	Device Control shall include the capability to control traffic signalization, including rapid modification of signalization parameters to respond to traffic requirements.	Original
1.6.3.3.2	Device Control shall include the capability to dynamically control traffic signing.	Original
1.6.3.3.3	Device Control shall include the capability to control freeway ramp metering.	Original
1.6.3.3.4	Device Control shall include the capability to exercise dynamic control over the infrastructure (such as reversible-lanes, turning restrictions, etc.).	Original
1.6.3.4	Device Control shall communicate control data to the following devices.	Original
1.6.3.4(a)	Traffic signals.	Original
1.6.3.4(b)	Ramp meters.	Original
1.6.3.4(c)	Information signs.	Original
1.6.3.4(d)	HOV lanes.	Original
1.6.3.4(e)	Human operator support.	Original
1.6.3.4.1	Traffic Surveillance shall include a Data Process function to process the traffic data that are acquired.	Original
1.6.3.5	Device Control shall provide the operator with the capability to manually override the system's automatic controls.	Original
1.6.3.6	Capability to adaptively change system response in order to provide a coordinated support of other TMCs that are responding to incidents.	Original
1.6.4	The Control Function shall provide traffic control information to other elements of the ITS, including but not limited to the following:	Original
1.6.4(a)	In-vehicle navigation.	Original
1.6.4(b)	Trip planning.	Original
1.6.4(c)	Routing systems.	Original
1.6.4(d)	Fleet management systems.	Original
1.7	INCIDENT MANAGEMENT	Original
1.7.0	ITS shall include an Incident Management (IM) function. Incident Management will identify incidents, formulate response actions, and support initiation and ongoing coordination of those response actions. Six major functions are provided which are (1) Scheduled Planned Incidents, (2) Identify Incidents, (3) Formulate response Actions, (4) Support Coordinated Implementation of Response Actions, (5) Support Initialization of Response to Actions, and (6) Predict Hazardous Conditions.	Original
1.7.1	Incident Management shall provide an incident identification function to identify incidents.	Original
1.7.1.1	The incident identification function shall include the capability to identify predicted incidents.	Original
1.7.1.1.1	The incident identification function shall use information from the following types of sources, where available, to identify predicted incidents:	Original
1.7.1.1.1(a)	Traffic flow sensors.	Original
1.7.1.1.1(b)	Environmental sensors.	Original
1.7.1.1.1(c)	Public safety sources.	Original
1.7.1.1.1(d)	Media sources.	Original
1.7.1.1.1(e)	Weather information sources.	Original
1.7.1.1.1(f)	Transportation providers.	Original
1.7.1.1.1(g)	Sponsors of special events.	Original

Table C.1 (Continued)

USR	Description	Status
1.7.1.1.1(h)	Hazardous condition prediction algorithms.	Original
1.7.1.1.2	The incident identification function shall determine at least the following characteristics of each predicted incident:	Original
1.7.1.1.2(a)	Type.	Original
1.7.1.1.2(b)	Extent.	Original
1.7.1.1.2(c)	Severity.	Original
1.7.1.1.2(d)	Location.	Original
1.7.1.1.2(e)	Expected duration.	Original
1.7.1.1.3	The incident identification function shall determine the expected traffic flow impact of each predicted incident.	Original
1.7.1.2	The incident identification function shall include the capability to identify existing (both planned and unplanned) incidents.	Original
1.7.1.2.1	The incident identification function shall use information from the following types of sources, where available, to identify existing incidents:	Original
1.7.1.2.1(a)	Traffic flow sensors.	Original
1.7.1.2.1(b)	Environmental sensors.	Original
1.7.1.2.1(c)	Public safety sources.	Original
1.7.1.2.1(d)	Media sources.	Original
1.7.1.2.1(e)	Weather information sources.	Original
1.7.1.2.1(f)	Transportation providers.	Original
1.7.1.2.1(g)	Travelers.	Original
1.7.1.2.2	The incident identification function shall determine and continuously monitor at least the following characteristics of each existing incident:	Original
1.7.1.2.2(a)	Type.	Original
1.7.1.2.2(b)	Extent.	Original
1.7.1.2.2(c)	Severity.	Original
1.7.1.2.2(d)	Location.	Original
1.7.1.2.2(e)	Expected duration.	Original
1.7.1.2.3	The incident identification function shall determine and continuously monitor the current and expected traffic flow impact of each existing incident.	Original
1.7.2	Incident Management shall provide a response formulation function to formulate appropriate response actions to each identified incident and revise those actions when necessary.	Original
1.7.2.1	The response formulation function shall propose and facilitate the appropriate scheduling of those predicted incidents that can be scheduled to minimize incident potential, incident impacts, and/or the resources required for incident management.	Original
1.7.2.2	The response formulation function shall propose and facilitate the appropriate dispatch of emergency response vehicles to an incident.	Original
1.7.2.3	The response formulation function shall propose and facilitate the appropriate dispatch of service vehicles to an incident.	Original
1.7.2.4	The response formulation function shall propose and facilitate the appropriate dissemination of incident related information to travelers and potential travelers.	Original
1.7.2.5	The response formulation function shall propose and facilitate the appropriate control of traffic signals and other traffic control to reduce the traffic flow impact of an incident.	Original
1.7.3	Incident Management shall include a response implementation function to provide those services needed to implement a coordinated incident response using all appropriate agencies.	Original
1.7.3.1	The response implementation function shall provide at least the following decision support capabilities needed to implement coordinated incident response actions by all participating institutions:	Original
1.7.3.1(a)	Response implementation shall allow coordinated selection/determination of the procedures needed for resolution of each incident and provide the procedures to those agencies responding to the incident.	Original
1.7.3.1(b)	Response implementation shall provide the status of all resources needed for incident resolution to those agencies responding to the incident.	Original
1.7.3.2	The response implementation function shall provide a link between Incident	Original

Table C.1 (Continued)

USR	Description	Status
	Management and all other user services necessary to implement incident response actions.	
1.7.3.3	The response implementation function shall provide the capability to disseminate information relating to response status to other agencies and user services.	Original
1.7.4	Incident Management shall provide the capability to predict the time and location of hazardous conditions that may cause an incident.	Original
1.8	TRAVEL DEMAND MANAGEMENT	Original
1.8.1	TDM shall include a communications function.	Original
1.8.1.1	The communications function shall include the capability to send the information needed to implement management and control strategies that are in response to policies and regulations	Original
1.8.1.2	The communications function shall include the capability to send information and rates needed to implement management and control strategies that respond to changing environments, conditions, and policy needs to include, but not limited to, the following locations of action:	Original
1.8.1.2(a)	Parking facilities	Original
1.8.1.2(b)	HOV lanes	Original
1.8.1.2(c)	Transit centers	Original
1.8.1.2(d)	Employment sites	Original
1.8.1.2(e)	Toll facilities	Original
1.8.1.2(f)	Travel (and traveler) information facilities	Original
1.8.1.2(g)	Ridesharing facilities	Original
1.8.1.3	TDM shall provide the capability to receive information and rates needed to implement management and control strategies that respond to changing environments, conditions, and policy needs to include, but not limited to, the following locations of action:	Original
1.8.1.3(a)	Parking facilities.	Original
1.8.1.3(b)	HOV lanes.	Original
1.8.1.3(c)	Transit centers.	Original
1.8.1.3(d)	Employment sites.	Original
1.8.1.3(e)	Toll facilities.	Original
1.8.1.3(f)	Travel (and traveler) information facilities.	Original
1.8.1.3(g)	Ridesharing facilities.	Original
1.8.1.4	The communications function shall provide the capability to send information and data is needed to implement management and control strategies that respond to changing environments, conditions, and policy needs to include, but not limited to, the following:	Original
1.8.1.4(a)	Sensor data	Original
1.8.1.4(b)	Individual vehicle monitoring	Original
1.8.1.4(c)	Parking availability	Original
1.8.1.4(d)	Usage data	Original
1.8.1.5	The communications function shall provide the capability to receive information and data from transportation operators and/or users that delineates their:	Original
1.8.1.5(a)	Current status	Original
1.8.1.5(b)	Needs	Original
1.8.1.5(c)	Level of activity.	Original
1.8.1.6	The communications function shall include the capability for two-way communications with other ITS user services including, but not limited to, the following:	Original
1.8.1.6(a)	Pre-Trip Planning	Original
1.8.1.6(b)	En-Route Transit Advisory	Original
1.8.1.6(c)	Driver Information	Original
1.8.1.6(d)	Ride Matching and Reservation	Original
1.8.1.6(e)	Electronic Payment	Original
1.8.1.6(f)	Traffic Control	Original
1.8.2	TDM shall include a processing function.	Original
1.8.2.1	The processing function shall provide the capability to generate management and control strategies that facilitate the implementation of policies and regulations designed	Original

Table C.1 (Continued)

USR	Description	Status
	to address the following:	
1.8.2.1(a)	Vehicle trip reduction.	Original
1.8.2.1(b)	HOV lanes and ramps.	Original
1.8.2.1(c)	Parking management and control.	Original
1.8.2.1(d)	Ridesharing and transit.	Original
1.8.2.1(e)	Air pollution/emission information and detection.	Original
1.8.2.1(f)	Public awareness of travel alternatives.	Original
1.8.2.2	The processing function shall provide those capabilities needed to enhance the ability to implement and enforce the following:	Original
1.8.2.2(a)	Federal policies	Original
1.8.2.2(b)	State policies	Original
1.8.2.2(c)	Local Policies	Original
1.8.2.3	Strategies developed by the processing function shall include the guidance for the operation of physical systems that:	Original
1.8.2.3(a)	Monitor traffic.	Original
1.8.2.3(b)	Inform travelers.	Original
1.8.2.3(c)	Collect fees.	Original
1.8.2.3(d)	Detect traffic.	Original
1.8.2.4	The processing shall provide the capability generate guidance for the pricing and control for locations of action that include, but are not limited to, the following:	Original
1.8.2.4(a)	Parking facilities	Original
1.8.2.4(b)	HOV lanes	Original
1.8.2.4(c)	Transit centers	Original
1.8.2.4(d)	Employment sites	Original
1.8.2.4(e)	Toll facilities	Original
1.8.2.4(f)	Travel information facilities	Original
1.8.2.4(g)	Ridesharing facilities	
1.8.2.5	The processing shall provide the capability to develop strategies for implementation of policies and regulations that will accommodate the following:	Original
1.8.2.5(a)	Public sector users and service providers.	Original
1.8.2.5(b)	Private sector users and service providers.	Original
1.8.2.5(c)	Issues of legality	Original
1.8.2.5(d)	Privacy act	Original
1.8.2.5(e)	Multi-jurisdictional settings.	Original
1.8.2.6	The processing function shall provide the capability to generate management and control strategies that dynamically respond to changing environments, conditions, and policies.	Original
1.8.2.7	The processing function's dynamically generated management and control strategies shall include the control of HOV facilities including, but not limited to, the following:	Original
1.8.2.7(a)	Lanes	Original
1.8.2.7(b)	Ramps	Original
1.8.2.7(c)	Parking areas	Original
1.8.2.8	The processing function's generation of management and control strategies for HOV facilities shall include as factors, but not be limited to, the following:	Original
1.8.2.8(a)	Auto occupancy requirements.	Original
1.8.2.8(b)	Priority for selected vehicle types at ramps.	Original
1.8.2.8(c)	Priority for selected vehicle types at signalized intersections.	Original
1.8.2.9	The processing function's dynamically generated management and control strategies shall include those roadway pricings that respond to the need for congestion control to include, but not be limited to, the following:	Original
1.8.2.9(a)	Road user and toll rates.	Original
1.8.2.9(b)	Transit fares adjusted concomitant with tolls.	Original
1.8.2.9(c)	Time of day usage pricing (i.e. off hour rates).	Original
1.8.2.10	The processing function's dynamically generated management and control strategies	Original

Table C.1 (Continued)

USR	Description	Status
	shall include the parking management and controls to include, but not be limited to, the following:	
1.8.2.10(a)	Price structure.	Original
1.8.2.10(b)	Allocation to selected vehicles.	Original
1.8.2.10(c)	Variable message signs.	Original
1.8.2.11	The processing function's dynamically generated management and control strategies for parking management and controls shall be based on factors that include, but are not limited to, the following:	Original
1.8.2.11(a)	Parking availability	Original
1.8.2.11(b	Usage data	
1.8.2.12	The processing function's dynamically generated management and control strategies shall include the capability to respond to the need for control of pollution by generating messages for variable signs that include, but are not limited to, the following:	Original
1.8.2.12(a)	Informing of higher tolls.	Original
1.8.2.12(b)	Informing of higher parking fees.	Original
1.8.2.13	The processing function's dynamically generated management and control strategies for air pollution control shall be based on factors that include, but are not limited to, the following:	Original
1.8.2.13(a)	Sensor data.	Original
1.8.2.13(b)	Individual vehicle monitoring.	Original
1.8.2.13(c)	Individual vehicles database files.	Original
1.8.2.14	The processing function's dynamically generated management and control strategies shall include the capability to respond to the need for the travelers to change modes by generating messages for variable signs that include, but are not limited to, the following:	Original
1.8.2.14(a)	Where the mode change requests are being made.	Original
1.8.2.14(b)	How the mode changes are requested to be made.	Original
1.8.2.14(c)	Why the mode changes are requested to be made.	Original
1.8.3	TDM shall include a sensors/control function.	Original
1.8.3.1	The sensors/control function shall provide the capability to gather information needed for the generation of management and control strategies to include, but not be limited to the, following:	Original
1.8.3.1(a)	Parking availability.	Original
1.8.3.1(b)	Usage levels.	Original
1.8.3.1(c)	Vehicle occupancy.	Original
1.8.3.1(d)	Vehicle pollution levels.	Original
1.9	EMISSIONS TESTING AND MITIGATION	Original
1.9.1	ETAM shall include a Wide Area Pollution Monitoring (WAPM) capability.	Original
1.9.1.1	WAPM shall support air quality control strategies by assessing the level of emission of ozone precursors in all sectors of the area.	Original
1.9.1.1.1	WAPM shall be capable of detecting the level of emission of ozone precursors with a high degree of accuracy.	Original
1.9.1.1.2	WAPM shall be capable of determining those sectors, within its monitored area, whose emissions exceed the emission standard.	Original
1.9.1.1.3	WAPM shall be capable of automatic self-calibration	Original
1.9.1.2	WAPM shall be capable of providing air quality statistical data to the TMC.	Original
1.9.1.2.1	WAPM shall be capable of providing the air quality data on the monitored values of pollution.	Original
1.9.1.2.2	WAPM shall be capable of providing the necessary data on emission standards violators for enforcement of air quality standards.	Original
1.9.2	ETAM shall include roadside pollution assessment (RPA) capabilities	Original
1.9.2.1	RPA shall be capable of detecting the level of emission of ozone precursors with a high degree of accuracy.	Original
1.9.2.1.1	RPA shall be capable of detecting moving vehicles, within its monitored area, whose emissions violate the emission standard.	Original

Table C.1 (Continued)

USR	Description	Status
1.9.2.1.2	RPA shall be capable of automatic self-calibration.	Original
1.9.2.1.3	RPA shall be capable of reading suitable equipped vehicle's diagnostic data to determine that vehicle's operational	Original
1.9.2.1.4	RPA shall be capable of determining suspected vehicle's registration data either by license plate or via automatic vehicle identification.	Original
1.9.2.1.5	RPA shall be capable of determining which suspected vehicles are not in compliance with emission standards for that vehicle from the vehicle's registration data.	Original
1.9.2.2	RPA shall be capable of providing air quality statistical data to the TMC.	Original
1.9.2.2.1	RPA shall be capable of providing the air quality data on the monitored values of pollution.	Original
1.9.2.2.2	RPA shall be capable of providing the necessary data to alert non-complaint vehicle drivers of their violation via roadside message signs or in-vehicle devices.	Original
1.9.2.2.3	RPA shall be capable of providing the necessary data on violating vehicles for enforcement of air quality standards.	Original
1. 10	HIGHWAY-RAIL INTERSECTION	Original
1.10.4	HRI shall include a Standard Speed Rail (SSR) Subservice to manage highway and rail traffic at HRIs for rail lines with operational speeds less than 80 MPH.	Original
1.10.4.1	SSR shall include active railroad warning systems at designated HRIs.	Original
1.10.4.2	SSR shall include passive HRIs with non-active warning systems	Original
1.10.4.2.1	SSR shall augment passive warning signs with additional highway traffic control devices at passive HRIs.	Original
1.10.5	HRI shall provide a High Speed Rail (HSR) Subservice for HRIs on rail lines with operational speeds between 80 and 125 MPH.	Original
1.10.5.1	HSR shall include active roadside message devices to provide highway closure information at HSR HRIs.	Original
1.10.5.2	HSR shall provide special safety features to enhance safety.	Original
1.10.5.2.1	HSR shall close the HRI to highway traffic at a predetermined time (up to three minutes) before train arrival or when directed by train operations.	Original
1.10.5.2.2	HSR shall include a positive barrier function(e.g. four quadrant gates) to close the intersection to highway traffic for rail lines operating at speeds over 110 MPH.	Original
1.10.5.2.3	HSR HRIs shall verify the intersections status as either "OPEN" or "BLOCKED" for rail traffic by an immobile obstacle.	Original
1.10.5.2.4	HSR shall provide HRI status to rail operations functions as either a "PROCEED": or "STOP" indication.	Original
1.10.5.2.5	HSR shall provide HRI status to the train as either a "PROCEED": or "STOP" indication	Original
1.10.5.2.6	HSR shall provide HRI status to highway vehicles as either a "STOP FOR TRAIN" or "PROCEED" indication.	Original
2.0	PUBLIC TRANSPORTATION MANAGEMENT	Original
2.1	PUBLIC TRANSPORTATION MANAGEMENT	Original
2.1.1	PTM shall include an Operation of Vehicles and Facilities (OVF) function that provides computer assisted control of the operation of vehicles and their associated facilities.	Original
2.1.1.1	To enable the automation of the vehicle and facilities operations OVF shall provide the capability to gather the needed data to include, but not be limited to, the following:	Original
2.1.1.1(a	Vehicle passenger loading by bus stop and trip segment.	Original
2.1.1.1(b)	Bus running times between time points.	Original
2.1.1.1(c)	Fare collection by fare category	Original
2.1.1.1(d)	Drive-line operating condition.	Original
2.1.1.1(e)	Mileage accumulated by individual buses.	Original
2.1.1.1(f)	Real-time vehicle location reports.	Original
2.1.1.2	OVF shall include a Command and Control (CC) capability.	Original
2.1.1.2.1	CC shall provide the capability for real-time Vehicle Command and Control (VCC).	Original
2.1.1.2.1.1	VCC shall provide the capability to compare received information with predetermined operating condition specifications and note any deviations.	Original
2.1.1.2.1.2	VCC shall provide the capability to transmit noted deviations to central control.	Original

Table C.1 (Continued)

USR	Description	Status
2.1.1.2.1.3	VCC shall provide the capability to display any noted deviations.	Original
2.1.1.2.1.4	VCC shall provide the capability to automatically issue corrective Instructions to the driver including, but not limited to, the following:	Original
2.1.1.2.1.4(a)	Route corrections.	Original
2.1.1.2.1.4(b)	Changes in stops.	Original
2.1.1.2.2	When CC detects a vehicle(s) has deviated from schedule it shall provide the capability to automatically determine the optimum scenario for returning the vehicle or fleet to schedule.	Original
2.1.1.2.3	CC shall include an integrated traffic control capability that provides traffic signal preemption when required for schedule adjustment to Transit Vehicles at traffic signals (i.e., centralized or distributed).	Original
2.1.1.2.4	CC shall include the capability for its computational capabilities to be located either on-vehicle and/or at remote locations	Original
2.1.2	PTM shall include a Planning and Scheduling Services (PSS) function to automate the planning and scheduling of public transit operations.	Original
2.1.2.1	The PSS shall include a Planning capability.	Original
2.1.2.1.1	PSS Planning shall be performed off-line from stored data that were collected in real-time.	Original
2.1.2.1.2	PSS Planning shall include processing of the data in a manner that will permit improvements in routes and services.	Original
2.1.2.2	The PSS shall include a Schedule Generation capability.	Original
2.1.2.2.1	The PSS Schedule Generation function shall collect that data needed for schedule generation including, but not limited to, the following:	Original
2.1.2.2.1(a)	Route segment running-time.	Original
2.1.2.2.1(b)	Passenger loading at each stop.	Original
2.1.2.2.1(c)	Revenue information.	Original
2.1.2.2.2	The PSS Schedule Generation function shall use the collected data in the automatic or semiautomatic development of transportation system schedules.	Original
2.1.2.2.3	The PSS Schedule Generation function shall provide the capability to print schedules	Original
2.1.2.2.4	The PSS Schedule Generation function shall provide the capability to disseminate schedules to, but not be limited to, the following:	Original
2.1.2.2.4(a)	Kiosks	Original
2.1.2.2.4(b)	Transportation Management Centers.	Original
2.1.2.2.5	The PSS Schedule Generation function shall provide the capability to automatically update the customer service operator system with the most current schedule and schedule adherence information.	Original
2.1.4	PTM shall include a Communications function.	Original
2.1.4.1	PTM Communications shall provide the capability to establish two-way voice communication between in vehicle drivers and the central facility.	Original
2.1.4.2	PTM Communications shall provide the capability for two-way data communications between individual buses and the control facility (e.g., sensor data and bus position).	Original
2.1.4.3	OVF Communications shall provide the capability to send information from individual facilities to a central facility for processing and analysis.	Original
2.1.4.4	As support for responding to the detection of an on-board emergency, the OVF Communications shall provide dispatchers with the capability to inform the following:	Original
2.1.4.4(a)	Police	Original
2.1.4.4(b)	Fire department	Original
2.1.4.4(c)	Paramedic	Original
2.1.4.4(d)	Driver (initiation of silent alarm notification).	Original
2.1.4.5	PTM shall use an open vehicle communication network standard for all on-board electronic equipment.	Original
2.2	EN-ROUTE TRANSIT INFORMATION	Original
2.2.1	TI shall include an information distribution function that disseminates information to travelers	Original
2.2.1.1	Information Distribution shall include an information network capability.	Original

Table C.1 (Continued)

USR	Description	Status
2.2.1.1.1	The Information Network shall provide the capability to furnish users with real-time travel related information while they are traveling.	Original
2.2.1.1.2	The Information Network shall provide the capability to disseminate information to travelers that will assist them in making decisions about transfers.	Original
2.2.1.1.3	The Information Network shall provide the capability to disseminate information to travelers that will assist them in making decisions in the modification (includes both intermode and intramode) of their trips.	Original
2.2.1.1.4	The Information Network shall provide all users with information that is from a single source in order to ensure consistency across all users.	Original
2.2.1.2	Information Distribution shall include a User Interface feature.	Original
2.2.1.2.1	User Interface shall provide the capability for users to access travel related information at fixed locations.	Original
2.2.1.2.1.1	Fixed Location user interfaces shall be provided at transit stops.	Original
2.2.1.2.1.1.1	Transit stop user interfaces shall have interactive visual displays.	Original
2.2.1.2.1.1.2	Transit stop user interfaces shall provide audio messages containing the following:	Original
2.2.1.2.1.1.2(a)	Notification of imminent transit arrival.	Original
2.2.1.2.1.1.2(b)	Identification of route of arriving transit vehicles.	Original
2.2.1.2.1.1.3	Transit stop user interfaces shall provide the capability to provide information to individuals who are physically impaired.	Original
2.2.1.2.1.2	Fixed Location user interface shall provide interactive video (e.g., cable TV) interfaces in kiosks at the following:	Original
2.2.1.2.1.2(a)	Travel information centers.	Original
2.2.1.2.1.2(b)	Transfer points.	Original
2.2.1.2.1.2(c)	Wayside stops.	Original
2.2.1.2.1.3	Fixed Location user interface shall provide the capability to utilize local ATM networks to provide travel information to users.	Original
2.2.1.2.2	User Interface shall provide the capability for users to access travel related information at mobile locations.	Original
2.2.1.2.2.1	Mobile Location user interfaces shall provide the capability for users, either one passenger at a time or to a group environment, to access travel related information while on board transit vehicles.	Original
2.2.1.2.2.2	Mobile user interfaces shall provide the capability for users to access travel related information while in transit vehicles through the use of variable message signs.	Original
2.2.1.2.2.3	Mobile user interfaces shall provide the capability for users to access travel related information via personal portable devices.	Original
2.2.1.2.2.4	Mobile user interfaces shall include the capability to provide audible messages to the on-board users.	Original
2.2.2	TI shall include an Information Receipt function for acquiring that data that are used for generation of the En-Route Transit Information.	Original
2.2.2.1	Information Receipt shall provide the capability to be continuously updated with real-time information from each transit system within the local area of jurisdiction.	Original
2.2.2.2	Information Receipt shall provide the capability to be updated with information that is inclusive of all possible transportation modes within the local area of jurisdiction.	Original
2.2.2.3	Information Receipt shall provide the capability to be updated with information from all providers of transportation services in the local area of jurisdiction to include:	Original
2.2.2.3(a)	Regional Paratransit services.	Original
2.2.2.3(b)	Public providers.	Original
2.2.2.3(c)	Private providers.	Original
2.2.3	TI shall include an Information Processing function for processing that data used for generation of the En-Route Transit Information.	Original
2.2.3.1	Information Processing shall include an information collection feature.	Original
2.2.3.1.1	Information Collection shall acquire transit operations information to include, but not be limited to, the following type:	Original
2.2.3.1.1(a)	Schedule	Original
2.2.3.1.1(b)	Actual service provided.	Original

Table C.1 (Continued)

USR	Description	Status
2.2.3.1.1(c)	Next available vehicle; based on actual operating conditions.	Original
2.2.3.1.1(d)	Transfer options describing available services and their associate schedules.	Original
2.2.3.1.2	Information Collection shall acquire transit situation conditions to include, but not be limited to, the following type:	Original
2.2.3.1.2(a)	Actual road data.	Original
2.2.3.1.2(b)	Traffic data.	Original
2.2.3.2	Information Processing shall include an information integration feature.	Original
2.2.3.2.1	Information Integration shall collect data, store it and maintain it on-line.	Original
2.2.3.2.2	Information Integration shall collect data from traffic and transit systems including, but not limited to, the	Original
2.2.3.2.2(a)	Transit systems.	Original
2.2.3.2.2(b)	Traffic management services.	Original
2.2.3.2.2(c)	Rideshare programs.	Original
2.4	PUBLIC TRAVEL SECURITY	Original
2.4.2	PTS shall include a Security Sensors (SS) function.	Original
2.4.2.1	SS shall provide that sensor technology required to alert operators and police of potential incidents.	Original
2.4.2.2	SS shall include both video and audio systems at key locations to monitor activities.	Original
2.4.4	PTS shall include a Security Management and Control (SMC) function.	Original
2.4.4.1	SMC shall provide the capability to receive alarm information through electronic communication systems.	Original
2.4.4.2	SMC shall include that monitoring equipment needed to assist in responding to terrorist incidents.	Original
2.4.4.3	SMC shall include the capability for transit operators to direct and control fleet operations in a manner that supports law enforcement and emergency response agencies with flexible and responsive transportation for large numbers of people	Original
2.4.4.4	SMC shall include the capability to generate coordinated preplanned responses for incidents.	Original
2.4.4.5	SMC shall include the capability to support coordinated multiple agency responses to incidents.	Original
3.0	ELECTRONIC PAYMENT	Original
3.1	ELECTRONIC PAYMENT SERVICES	Original
3.1.2	Electronic Payment shall include an Electronic Fare Collection (EFC) capability.	Original
3.1.2.1	EFC shall be implemented in a manner that the traveler is able to use a compatible fare medium for all applicable surface transportation services.	Original
3.1.2.2	EFC shall provide the capability to implement variable and flexible fare structures.	Original
3.1.2.3	EFC shall be capable of identifying voided and/or invalid payment media.	Original
3.1.2.4	EFC shall provide the capability for third party payment of transportation services.	Original
3.1.2.5	For those systems requiring special eligibility, EFC shall provide the capability to verify the eligibility of riders.	Original
3.1.2.6	EFC shall be implemented in a manner that permits expansion into other uses for the payment medium such as payment of retail, telephone, etc.	Original
3.1.2.7	EFC shall include the capability to collect that data that are required to determine accurate ridership levels.	Original
3.1.2.8	EFC shall provide the capability for passengers to pay fares without stopping.	Original
3.1.5	ITS shall provide a Roadway Pricing (RP) capability.	Original
3.1.5.1	RP shall provide the capability to implement various road-pricing policies.	Original
3.1.5.1.1	Road pricing policies capable of being implemented by RP shall include variable pricing.	Original
3.1.5.2	RP shall provide the capability to implement roadway-pricing strategies, developed by other services that alleviate congestion.	Original
3.1.5.3	RP shall provide the capability to implement roadway pricing, developed by other services that can be used to influence mode selection.	Original
4.0	COMMERCIAL VEHICLE OPERATIONS	Original
4.1	COMMERCIAL VEHICLE ELECTRONIC CLEAR	Original

Table C.1 (Continued)

USR	Description	Status
4.1.1	CVEC shall include a Fixed Facility consisting of those structures and equipment to include Ports Of Entry, Inspection Stations, Weigh Stations and Toll Booths.	Original
4.1.1.1	Fixed Facility shall provide the capability for states participation in the CVEC program to be voluntary.	Original
4.1.1.2	Fixed Facility shall provide the capability to support the enrollment of vehicles/carriers in the CVEC program.	Original
4.1.1.3	Fixed Facility shall provide the capability to accommodate both interstate and intrastate vehicles/carriers.	Original
4.1.1.4	Fixed Facility shall include that processing needed to issue pull-in for safety inspection signals of the following type:	Original
4.1.1.4(a)	Automatically generated from Pass/Need To Stop tests.	Original
4.1.1.4(b)	Randomly generated.	Original
4.1.1.4(c)	Manually generated.	Original
4.1.1.5	Fixed Facility shall provide the facility operator the capability to manually override the issuance of automatically and randomly generated Pull-In requests.	Original
4.1.1.6	When making the "Pass/Need To Stop" determination the Fixed Facility shall perform checks on the following:	Original
4.1.1.6(a)	Vehicle/Carrier Safety Information.	Original
4.1.1.6(b)	Vehicle Credentials.	Original
4.1.1.6(c)	Driver Credentials/Status.	Original
4.1.1.6(d)	Vehicle Weight Information.	Original
4.1.1.6(e)	Tax Payment Account	Original
4.1.1.7	Fixed Facility shall provide the capability to establish two-way communications with each vehicle approaching the facility.	Original
4.1.1.8	Fixed Facility shall include the capability to access and quickly update information on vehicle problems that are detected.	Original
4.1.2	CVEC shall include a Vehicle System capability	Original
4.1.2.1	Vehicle System shall provide the capability to accommodate both interstate and intrastate carriers.	Original
4.1.2.2	Vehicle System shall provide the capability for each vehicle to establish two-way communications with fixed facilities.	Original
4.2	AUTOMATED ROADSIDE SAFETY INSPECTION	Original
4.2.0	Vehicle System shall provide the capability for each individual vehicle's or carrier's participation in the process to be on a voluntary basis.	Original
4.2.1	ITS shall include an Automated Roadside Safety Inspection (ARSI) capability.	Original
4.2.2	The ARSI capability shall include a Roadside Facility (RF) function that improves the ability to perform safety inspection through the use of automation.	Original
4.2.2.1	RF shall provide a processing capability that automates the roadside inspection tasks.	Original
4.2.2.2	RF shall include the capability to perform brake inspections at the roadside.	Original
4.2.2.3	RF shall include the capability for operators to use hand held devices to rapidly inspect vehicle and driver components that produce the following:	Original
4.2.2.3(a)	Pass/Fail results.	Original
4.2.2.3(b)	Data on actual condition.	Original
4.2.2.3(c)	Data on expected life projections.	Original
4.2.2.4	RF shall collect, store, maintain and provide real-time on-line interactive access to historical safety data at the roadside facility.	Original
4.2.2.5	RF shall provide the capability to continuously update information flags for the following:	Original
4.2.2.5(a)	Office of Motor Carriers (OMC) carrier ratings.	Original
4.2.2.5(b)	Vehicle/driver inspection and maintenance data.	Original
4.2.2.5(c)	Verification of repairs and out-of-service records.	Original
4.2.2.5(d)	Driver status (including licensing and citations).	Original
4.2.2.6	RF shall provide the capability to automatically identify to the enforcement personnel approaching vehicles that have been flagged as potentially needing maintenance or	Original

Table C.1 (Continued)

USR	Description	Status
	put out of service.	
4.2.2.7	RF shall provide the capability to receive identification data from each vehicle that is stopped at the inspection station that enables the access and receipt at the roadside of historical safety records to include the following:	Original
4.2.2.7(a)	Carrier	Original
4.2.2.7(b)	Vehicle	Original
4.2.2.7(c)	Driver	Original
4.2.2.7(d)	Cargo	Original
4.2.3	The ARSI capability shall include a Vehicle System (VS) function.	Original
4.2.3.1	VS shall provide a processing capability that automates the roadside inspection tasks	Original
4.2.3.2	The VS architecture shall provide the capability to be developed and integrated as a phased implementation.	Original
4.2.3.3	The VS shall include those sensors needed to efficiently check vehicle systems and driver condition.	Original
4.2.3.4	The VS shall include the capability for continuous updates to vehicle safety records or an "electronic decal/record on the vehicle.	Original
4.2.3.5	The VS shall include an on-board safety status monitoring system that is accessible from the roadside.	Original
4.2.3.6	The VS shall provide an initial automated inspection capability that will expedite and supplement the existing visual and manual inspection processes.	Original
4.2.3.7	The VS shall provide a two-way Communications capability that facilitates the roadside inspection tasks.	Original
4.4	COMMERCIAL VEHICLE ADMINISTRATIVE PROCESSES	Original
4.4.1	CVAP shall include an Electronic Purchase Of Credentials (EPC) function with capabilities that include but are not limited to the following:	Original
4.4.1(a)	Annual Electronic Credentials.	Original
4.4.1(b)	Temporary Electronic Credentials.	Original
4.4.1(c)	Order Forms Computer Input Screens.	Original
4.4.1(d)	Multiple Permits.	Original
4.4.1(e)	Specific Situation Permits.	Original
4.4.1(f)	Electronic Payment.	Original
4.4.1(g)	Automated Processing of Applications.	Original
4.4.2	CVAP shall include an Automated Mileage and Fuel Reporting and Auditing (AMFPA) function that includes but is not limited to the following:	Original
4.4.2(a)	Quarterly Reports Submission.	Original
4.4.2(b)	Electronic Vehicle Log.	Original
4.4.2(c)	Fuel Purchase Data.	Original
4.4.2(d)	Create And Audit Tax Reports.	Original
4.5	HAZARDOUS MATERIAL INCIDENT RESPONSE	Original
4.5.1	HIR shall include a HAZMAT Incident Notification (HIN) function.	Original
4.5.1.1	HIN shall include the capability to provide enforcement and HAZMAT response teams with timely and accurate information on cargo contents when the vehicle is involved in an incident.	Original
4.5.1.2	HIN shall be capable of providing the following Information :	Original
4.5.1.2(a)	Time of incident.	Original
4.5.1.2(b)	Location of the incident.	Original
4.5.1.2(c)	The material(s) involved.	Original
4.5.2	HIR shall provide an Operation Focal Point (OFP) for initiating appropriate responses.	Original
4.5.2.1	OFP shall be capable of being implemented as either a centralized dispatch or several de-centralized dispatch units or vehicles.	Original
4.5.2.2	OFP shall provide the capability for existing dispatch centers to receive the calls, determine response requirements, and route distress calls to predesignated	Original

Table C.1 (Continued)

USR	Description	Status
	responding agencies.	
4.5.2.3	OFP shall provide the capability for operators to coordinate with other agencies and response services to include, but not be limited to, the following:	Original
4.5.2.3(a)	State and/or local transportation officials.	Original
4.5.2.3(b)	Police departments.	Original
4.5.2.3(c)	Highway patrol.	Original
4.5.2.3(e)	Emergency medical services.	Original
4.5.2.3(f)	Environmental protection agencies.	Original
4.5.2.3(g)	HAZMAT teams.	Original
4.5.2.3(h)	Towing and other "courtesy" services.	Original
4.5.3	HIR shall include a Communications (COMM) function.	Original
4.5.3.1	COMM shall provide the capability for distress signals to be sent to a focal point.	Original
4.5.3.2	COMM shall provide the capability for relay of distress information to response units in real-time.	Original
4.5.3.3	COMM shall provide the capability for data to be sent from any location covering all areas of the contiguous United States.	Original
4.5.3.4	COMM shall provide the capability for linkages/interfaces with various existing networks.	Original
4.5.3.5	COMM shall provide the capability for the motorist to travel from region to region without performing manual adjustment of equipment.	Original
5.0	EMERGENCY MANAGEMENT	Original
5.1	EMERGENCY NOTIFICATION AND PERSONAL SECURITY	Original
5.1.0	ITS shall include an Emergency Notification And Personal Security (ENPS) function that provides for the faster notification of travelers involved in an incident.	Original
5.1.1	ENPS shall include a Driver and Personal Security (DPS) function.	Original
5.1.1.1	DPS shall include an in-vehicle manually initiated distress signal capability to provide a first-alert that incident has occurred to include the following:	Original
5.1.1.1(a)	Medical services required.	Original
5.1.1.1(b)	Minor property damage only crashes.	Original
5.1.1.1(c)	Breakdowns.	Original
5.1.1.1(d)	Vehicle location.	Original
5.1.1.1(e)	Vehicle identification.	Original
5.1.1.2	DPS shall include the capability to cancel a prior issued manual request for help.	Original
5.1.1.3	DPS shall include the capability to send an acknowledge signal to the motorist to indicate that the signal was received and help is on the way.	Original
5.1.1.4	DPS shall include the capability for in-vehicle sensors to automatically detect vehicle problems, and for certain cases automatically send the appropriate distress signal.	Original
5.1.2	ENPS shall include an Automated Collision Notification (ACN) function.	Original
5.1.2.1	ACN shall provide the capability to automatically identify that a collision has occurred.	Original
5.1.2.1.1	The ACN automatic collision notification function shall provide the capability to instantly transmit information about the occurrence of a collision.	Original
5.1.2.1.2	The ACN crash sensors shall include the capability to provide information about the extent of crash damage.	Original
5.1.2.2	When sending notification of a collision ACN shall send pertinent information about the collision including the following:	Original
5.1.2.2(a)	That vehicle has been in a collision.	Original
5.1.2.2(b)	Accurate vehicle location.	Original
5.1.2.2(c)	Severity of collision and/or injuries.	Original
5.2	EMERGENCY VEHICLE MANAGEMENT	Original
5.2.1	Emergency Vehicle Management Service shall be provided by an Emergency Vehicle Fleet Management System.	Original
5.2.1.1	Emergency Vehicle Fleet Management System shall maintain the availability status of relevant emergency vehicles.	Original

Table C.1 (Continued)

USR	Description	Status
5.2.1.2	Emergency Vehicle Fleet Management System shall determine the emergency response vehicles best suited to respond to an incident.	Original
5.2.1.3	Emergency Vehicle Fleet Management System shall dispatch the appropriate emergency response vehicle (s) to the incident.	Original
5.2.2	Emergency Vehicle Management Service shall be provided by a Route Guidance System.	Original
5.2.2.1	Route Guidance System shall maintain real-time information on traffic conditions, emergency response vehicle locations, and emergency response vehicle destinations	Original
5.2.2.2	Route Guidance System shall advise emergency response vehicles of appropriate routes.	Original
5.2.3	Emergency Vehicle Management Service shall be provided by a Signal Priority System.	Original
5.2.3.1	Signal Priority System shall maintain real-time information on signal timing, emergency vehicle locations and emergency vehicle routing.	Original
5.2.3.2	Signal Priority System shall determine signal prioritize timing sequences for relevant signals.	Original
5.3	EVACUATION COORDINATION	Original
5.3.1	EC shall include an Evacuation Guidance (EG) function. This function is provided to benefit the public. EG will provide basic information to assist potential evacuees in determining whether evacuation is necessary. Once the decision is made to evacuate, the EG will also assist evacuees determine destination, routes to shelters and other lodging options. This function will also provide guidance for returning to evacuated areas, information regarding clean-up, and other pertinent information to be distributed from Federal, State, and Local agencies.	Original
5.3.1.1	EG shall be accessible to users from multiple distributed locations, including, but not limited to, (a) homes, (b) media, (c) public buildings, (d) evacuation shelters, (e) other evacuation destinations, (f) rest areas along evacuation routes, (g) hotels, (h) restaurants, (i) airports and other mode terminals, and (j) wireless devices	Original
5.3.1.2	EG shall provide shelter-in-place information if evacuation is not necessary	Original
5.3.1.3	EG shall provide a list and graphical depiction of mandatory and voluntary evacuation zones and the categories of people to be evacuated in each zone	Original
5.3.1.4	EG shall provide a list of alternative evacuation destinations upon request.	Original
5.3.1.4.1	EG shall provide alternative evacuation destinations based on historical evaluation of the services available at the destinations.	Original
5.3.1.4.2	EG shall provide alternative evacuation destinations based on current and forecast conditions at the destinations.	Original
5.3.1.4.3	EG shall provide alternative evacuation destinations based on current and forecast availability of services at destinations and along the routes to these destinations.	Original
5.3.1.4.4	EG shall provide alternative evacuation destinations based on traveler specified parameters including the general location of the destinations and the desired services.	Original
5.3.1.4.5	EG shall provide alternative evacuation destinations based on the current and forecast conditions on evacuation routes	Original
5.3.1.5	EG shall provide recommended evacuation and reentry route(s) for user-selected evacuation origin and destination pairs.	Original
5.3.1.5.1	Recommended routes shall be based on an evaluation of historical operational characteristics of the alternative routes.	Original
5.3.1.5.2	Recommended routes shall be based on real-time and forecast route conditions.	Original
5.3.1.5.3	Recommendation of routes shall be based on traveler-specified route parameters	Original
5.3.1.6	EG shall provide the recommended evacuation and reentry start time for user-selected evacuation origin and destination pairs.	Original
5.3.1.6.1	The recommended start time shall be based on the travel time required for the trip, given existing and forecast conditions on those routes.	Original
5.3.1.6.2	The recommended start time shall take into account the capability of the evacuation network to handle evacuation demands based on a historical evaluation of the network and current and future network conditions	Original

Table C.1 (Continued)

USR	Description	Status
5.3.1.6.3	The recommended start time shall be based on the existing and forecast conditions at evacuation origin.	Original
5.3.1.6.4	The recommended start time shall be based on the existing and forecast conditions at evacuation destination.	Original
5.3.1.6.5	The recommended reentry time shall ensure the safety and security of travelers and their properties	Original
5.3.1.7	EG shall provide information regarding evacuation shelters in areas specified by users	Original
5.3.1.7.1	EG shall provide the locations of evacuation shelters	Original
5.3.1.7.2	EG shall provide the time at which evacuation shelters are in operation.	Original
5.3.1.7.3	EG shall provide the occupancy levels at evacuation shelters.	Original
5.3.1.7.4	EG shall provide the facilities available at evacuation shelters, including those shelters that will accommodate people with special needs, such as pets, disabilities and elderly.	Original
5.3.2	EC shall provide an Evacuation Travel Information (ETI) function. This function will benefit evacuees in planning their evacuation trip once that decision has been made. This function will also allow travelers to change course during the trip based on route and destination conditions.	Original
5.3.2.1	ETI shall provide the capability for users to access information from multiple distributed locations, including, but not limited to, (a) homes, (b) vehicles, (c) rest areas along evacuation routes, (c) evacuation shelters, (d) hotels, (e) restaurants, (i) airports and other mode terminals, and (j) wireless devices.	Original
5.3.2.2	ETI shall provide information about traffic conditions on evacuation routes	Original
5.3.2.2.1	ETI shall provide the current speed/travel time on evacuation routes	Original
5.3.2.2.2	ETI shall provide an estimate of future speed/travel time on evacuation routes, taking into consideration current evacuation decisions and traveler behavior.	Original
5.3.2.2.3	ETI shall provide information regarding incident conditions on evacuation routes.	Original
5.3.2.2.4	ETI shall provide real-time road, bridge and lane closure information.	Original
5.3.2.2.5	ETI shall provide a list of roads that should be avoided due to hazardous conditions, such as flooding, malfunctioning traffic signals, debris and falling objects.	Original
5.3.2.3	ETI shall provide the current and forecast weather conditions for evacuation origins, destinations and routes.	Original
5.2.3.4	ETI shall provide information regarding transportation modes including buses, airlines, trains and ships.	Original
5.2.3.4.1	ETI shall provide information regarding the availability of transportation mode services.	Original
5.2.3.4.2	ETI shall provide arrival and departure information, including location, for those services available.	Original
5.2.3.5	ETI shall provide general evacuation guidance information to travelers, including guidance/tips for trip preparation, trip duration and trip return.	Original
5.2.3.6	ETI shall provide information regarding lodging available along evacuation routes and at evacuation destinations.	Original
5.2.3.6.1	ETI shall provide the capability for travelers to request and receive information regarding lodging, including (a) room availability, (b) facilities, (c) conditions, and (d) pricing information.	Original
5.2.3.7	ETI shall provide information regarding services available along evacuation routes, at evacuation origins and at evacuation destinations	Original
5.2.3.7.1	ETI shall provide real time information relating to (a) the conditions, (b) status, and (c) availability of traveler services described in this section.	Original
5.2.3.7.2	ETI shall provide the capabilities for travelers to request and receive information regarding restaurants and stores, including (a) hours of operation and any changes to these hours, (b) availability of special items (such as water, non-perishable foods, wood, and batteries), and (c) pricing information.	Original
5.2.3.7.3	ETI shall provide the capabilities for travelers to request and receive information regarding local hospitals and other medical services.	Original
5.2.3.7.4	ETI shall provide the capabilities for travelers to request and receive information regarding gas stations, including (a) location, (b) operation status, (c) pricing information, and (d) the expected waiting time	Original
5.2.3.7.5	ETI shall provide information regarding rest areas, telephone and restroom availability	Original

Table C.1 (Continued)

USR	Description	Status
5.2.3.8	ETI shall provide information regarding school and office closures.	Original
5.3.3	EC shall provide an Evacuation Traffic Management (ETM) function. This function will assist evacuation coordination personnel manage evacuation operations on the transportation network.	Original
5.3.3.1	ETM shall have a real-time data collection process to assist in the selection of evacuation strategies and to monitor the operations of the selected evacuation strategies.	Original
5.3.3.2	ETM shall have a demand forecasting function that takes into consideration current traffic flows, current and historical evacuation trends, the size of the area to be evacuated and expected human responses.	Original
5.3.3.3	ETM shall include a strategy selection function that maximizes efficiency during evacuation and reentry operations.	Original
5.3.3.3.1	The strategy shall integrate the control of freeways and surface streets.	Original
5.3.3.3.2	The strategy selection function shall consider traffic movement over the entire evacuation network.	Original
5.3.3.3.3	The strategy selection function shall be responsive to current demand as well as the forecast demand	Original
5.3.3.3.4	The strategy selection function shall optimize the movement of emergency and law enforcement vehicles.	Original
5.3.3.3.5	The strategy selection function shall allow easy access of emergency and law enforcement vehicles to traffic on evacuation routes.	Original
5.3.3.3.6	The strategy selection function shall consider the operation of the access to and from the evacuation routes.	Original
5.3.3.3.7	The strategy selection function shall consider the impacts to local traffic along evacuation routes.	Original
5.3.3.3.8	The strategy selection function shall consider the time available for evacuation, time required for evacuation and time required for implementing the evacuation strategy.	Original
5.3.3.3.9	The strategy selection function shall consider the availability of the resources required for the evacuation strategy.	Original
5.3.3.3.10	The strategy selection function shall consider the severity of the expected disaster and the size of the area affected by the disaster.	Original
5.3.3.3.11	The strategy selection function shall consider the feasibility of using transit and school bus fleet during mandatory evacuations.	Original
5.3.3.4	ETM shall provide the control of devices as required by the evacuation management plan, including: (a) traffic signals, (b) dynamic message signs, (c) ramp meters, (d) reversible lane signs, (e) turning restriction signs, (f) road closure devices, (g) lane closure devices, (h) HAR, (i) TiRN, (j) shoulder use signs.	Original
5.3.3.5	ETM shall provide the operator with the capability to manually override the system automatic control.	Original
5.3.3.6	ETM shall have an incident management function for evacuation routes.	Original
5.3.3.7	ETM shall have the capability to eliminate tolls upon command.	Original
5.3.3.8	ETM shall have a lane reversal management function.	Original
5.3.3.8.1	It shall be possible to collect real-time data for traffic moving in all traveling lanes, with and without lane reversal.	Original
5.3.3.9	ETM shall have archiving capabilities.	Original
5.3.4	EC shall provide an Evacuation Planning Support function. This function will support the evacuation planning process by providing information, current and historical, to emergency management planning personnel.	Original
5.3.4.1	Evacuation Planning Support shall provide archived evacuation data, such as traffic flows, travel speed, vehicle occupancy, road closures, network geometry, traveler behavior, travel origins, travel destinations and evacuation traffic management strategies.	Original
5.3.4.2	Evacuation Planning Support shall support the development of regional and multi-regional evacuation plans.	Original
5.3.4.3	Evacuation Planning Support shall assist in identifying required modifications to transportation network geometry to accommodate evacuation strategies.	Original

Table C.1 (Continued)

USR	Description	Status
5.3.4.4	Evacuation Planning Support shall assist in defining the required resources for evacuation strategies.	Original
5.3.5	EC shall provide a Resource Sharing (RS) Function. This function shall allow information and resource sharing between agencies involved in the evacuation including transportation, emergency management, law enforcement and other emergency service agencies.	Original
5.3.5.1	RS shall allow information sharing between agencies	Original
5.3.5.1.1	RS shall facilitate information sharing between various agencies at local, state and federal levels.	Original
5.3.5.1.2	RS shall provide communication capabilities among personnel of the agencies involved in the evacuation and between these personnel and the agency centers.	Original
5.3.5.1.3	RS shall provide coordination and information sharing between agencies from all states affected by the evacuation.	Original
5.3.5.1.4	RS shall provide information to assist evacuation management personnel in making evacuation decisions.	Original
5.3.5.1.5	RS shall provide information to assist evacuation management personnel in making decisions regarding shelter operations.	Original
5.3.5.2	RS shall assist evacuation management personnel in making decisions regarding deployment of resources and sharing of resources based on existing and forecast demand for these resources.	Original
5.3.5.2.1	RS shall identify the resources required for the current and forecast evacuation scenarios.	Original
5.3.5.2.2	RS shall identify the resources required to implement alternative evacuation management strategies.	Original
5.3.5.2.3	RS shall identify the resource deployment stages, in time and space, for each evacuation scenario.	Original
5.3.5.2.4	RS shall assist local, state and multi-state agencies in sharing resources between agencies.	Original
5.3.5.2.5	RS shall identify the resource deployment stages, in time and space, for each evacuation scenario.	Original
5.3.5.2.6	RS shall assist local, state and multi-state agencies in sharing resources between agencies.	Original
6.0	ADVANCED VEHICLE SAFETY SYSTEMS	Original
6.2	LATERAL COLLISION AVOIDANCE	Original
6.2.1	Lateral Collision Avoidance Service shall include a Lane Change/Merge Subservice.	Original
6.2.1.1	Lane Change/Merge Subservice shall be provided by an Advisory System.	Original
6.2.1.1.1	Advisory System shall notify the driver of the presence of potentially hazardous situations.	Original
6.2.1.2	Lane Change/Merge Subservice shall be provided by a Driver Action System.	Original
6.2.1.2.2	Driver Action System shall inform the driver of the need for immediate collision avoidance action.	Original
6.2.1.3	Lane Change/Merge Subservice shall be provided by an Automatic Control System.	Original
6.2.1.3.1	Automatic Control System shall automatically implement needed collision avoidance action.	Original
6.2.2	Lateral Collision Avoidance Service shall include a Single Vehicle Roadway Departure (SVRD) Subservice.	Original
6.2.2.1	Single Vehicle Roadway Departure Subservice shall be provided by an Advisory System.	Original
6.2.2.1.1	Advisory System shall notify the driver of the presence of a potentially hazardous situation.	Original
6.2.2.2	Single Vehicle Roadway Departure Subservice shall be provided by a Driver Action System.	Original
6.2.2.2.1	Driver Action System shall inform the driver of the need for immediate collision avoidance action.	Original
6.2.2.3	Single Vehicle Roadway Departure Subservice shall be provided by an Automatic	Original

Table C.1 (Continued)

USR	Description	Status
	Control System.	
6.2.2.3.1	Automatic Control system shall automatically implement needed collision avoidance action.	Original
6.4	VISION ENHANCEMENT FOR CRASH AVOIDANCE	Original
6.4.1	Vision Enhancement for Crash Avoidance Service shall be provided by an Enhanced Vision System, which augments the vehicle operator's capability to see pedestrians and hazardous situations, where driving visibility is low.	Original
6.7	AUTOMATED VEHICLE OPERATION	Original
6.7.2	AVO service shall be provided by a Partially Automated Highway System (PAHS) as a Transitional System.	Original
6.7.2.1	PAHS shall include Vehicle Subsystems which utilize capabilities of collision avoidance systems and other systems to implement safe "platooning" and other transitional levels of performance.	Original
6.7.2.2	PAHS shall include a Highway Subsystem that utilizes capabilities of Advanced Highway Infrastructure systems to assist in providing better control of vehicle routes.	Original
6.7.2.3	PAHS shall include a Driver Subsystem that utilizes capabilities of driver alertness systems and other systems to assist in managing vehicles in situations other than full automatic control.	Original
7.0	INFORMATION MANAGEMENT	Original
7.1	ARCHIVED DATA FUNCTION	Original
7.1.0	ITS shall provide an Archived Data Function to control the archiving and distribution of ITS data. The Archived Data User Service provides the Historical Data Archive Repositories and controls the archiving functionality for all ITS data with five major functions: 1) the Operational Data Control function to manage operations data integrity; 2) the Data Import and Verification function to acquire historical data from the Operational Data Control function; 3) the Automatic Data Historical Archive function for permanently archiving the data; 4) the Data Warehouse Distribution function, which integrates the planning, safety, operations, and research communities into ITS and processes data products for these communities; and 5) the ITS Community Interface which provides the ITS common interface to all ITS users for data products specification and retrieval. ADUS helps achieve the ITS information goal of unambiguous interchange and reuse of data and information throughout all functional areas.	Original
7.1.1	The Archived Data Function shall provide a Historical Data Archive (HAD) system for ITS data.	Original
7.1.1.1	HAD shall include repositories of operational datas received from field equipment or data collection devices.	Original
7.1.1.2	HAD shall provide permanent historical data repositories.	Original
7.1.1.3	HAD repositories shall include meta data and meta-attributes repositories.	Original
7.1.1.4	HAD shall provide ITS data system security.	Original
7.1.1.4.1	HAD shall be capable of employing security solutions.	Original
7.1.1.4.2	HAD shall be capable of preventing data loss.	Original
7.1.1.4.3	HAD shall be capable of preventing unauthorized access to ITS data repositories	Original
7.1.1.4.4	HAD shall be capable of providing a secure interface for online support of the ITS user interface.	Original
7.1.1.5	HAD shall be capable of supporting online analytical functions to enable users to analyze data across multiple sources or acquire data for their off-line applications.	Original
7.1.2	The Archived Data Function shall include an Operational Data Control (ODC) function to ensure integrity of operational data as received from field equipment or data collection devices.	Original
7.1.2.1	ODC shall be capable of receiving and storing all ITS operational data, as received	Original

Table C.1 (Continued)

USR	Description	Status
	from the source.	
7.1.2.1.1	ODC shall ensure ITS operational data are in proper format.	Original
7.1.2.1.2	ODC shall maintain the meta data schema for all ITS data entering the system.	Original
7.1.2.1.3	ODC shall be capable of assigning the following meta attributes, when available, to ITS operational data during the archive process.	Original
7.1.2.1.3(a)	The equipment used to collect the data.	Original
7.1.2.1.3(b)	The conditions under which the data were collected.	Original
7.1.2.1.3(c)	The status of the equipment at the time of collection.	Original
7.1.2.1.4	ODC shall be capable of applying user-defined quality control verification on ITS data and annotating results in the appropriate meta files.	Original
7.1.2.1.5	ODC shall be capable of assigning meta-attributes to the data indicating the methods used to perform:	Original
7.1.2.1.5(a)	Summarization and aggregation	Original
7.1.2.1.5(b)	Transformations (i.e., reconstructing original data or constructing new data elements)	Original
7.1.2.2	ODC shall be capable of collecting user-selected data.	Original
7.1.2.3	ODC shall be capable of archiving in data repositories ITS operational data as received from field equipment or data collection devices.	Original
7.1.2.4	ODC shall be capable of maintaining the integrity of all received operational data.	Original
7.1.2.5	ODC shall be capable of disseminating data replicates to ITS operational users in real-time.	Original
7.1.2.6	ODC shall be capable of performing data fusion on replicated data for operational users in near real-time.	Original
7.1.3	The Archived Data Function shall include a Data Import and Verification (DIV) function to acquire historical data from the Operational Data Control function.	Original
7.1.3.1	DIV shall be capable of importing selected ITS Operational data from the ITS Operational Repositories.	Original
7.1.3.1.1	DIV shall be capable of importing ITS Freeway Operations data to include:	Original
7.1.3.1.1(a)	Freeway traffic flow surveillance data.	Original
7.1.3.1.1(b)	Ramp meter preemptions.	Original
7.1.3.1.1(c)	Ramp meter operational data.	Original
7.1.3.1.1(d)	Freeway visual and video surveillance data.	Original
7.1.3.1.1(e)	Traffic Management Center generated freeway flow metrics.	Original
7.1.3.1.10	DIV shall be capable of importing ITS Parking Management data.	Original
7.1.3.1.11	DIV shall be capable of importing Intermodal Operational data.	Original
7.1.3.1.2	DIV shall be capable of importing ITS Electronic Toll Collection data.	Original
7.1.3.1.3	DIV shall be capable of importing ITS Arterial data to include:	Original
7.1.3.1.3(a)	Traffic signal preemptions.	Original
7.1.3.1.3(b)	Traffic signal operational data.	Original
7.1.3.1.3(c)	Arterial visual and video surveillance data.	Original
7.1.3.1.3(d)	Traffic Management Center generated arterial flow metrics.	Original
7.1.3.1.3(e)	Arterial traffic flow surveillance data.	Original
7.1.3.1.4	DIV shall be capable of importing ITS Transit and Ridesharing data to include:	Original
7.1.3.1.4(a)	Transit usage data.	Original
7.1.3.1.4(b)	Transit route data including schedule deviations.	Original
7.1.3.1.4(c)	Rideshare requests.	Original
7.1.3.1.4(d)	Multi-Modal Origin/Destination.	Original
7.1.3.1.4(e)	Fares	Original
7.1.3.1.4(f)	Vehicle maintenance	Original
7.1.3.1.4(g)	Personnel management data	Original
7.1.3.1.5	DIV shall be capable of importing ITS Incident Management data to include:	Original
7.1.3.1.5(a)	Incident characteristics.	Original
7.1.3.1.5(b)	Train arrivals at highway rail intersections.	Original
7.1.3.1.5(c)	Emergency vehicle dispatch data.	Original
7.1.3.1.5(d)	Emergency vehicle location data.	Original
7.1.3.1.5(e)	Construction and work zone identification.	Original

Table C.1 (Continued)

USR	Description	Status
7.1.3.1.5(f)	Emergency request data	Original
7.1.3.1.5(g)	Video surveillance data	Original
7.1.3.1.5(h)	Emergency response	Original
7.1.3.1.6	DIV shall be capable of importing ITS Commercial Vehicle Operations data to include:	Original
7.1.3.1.6(a)	Cargo identification data.	Original
7.1.3.1.6(b)	Fleet activity data.	Original
7.1.3.1.6(c)	Hazardous material packaging data.	Original
7.1.3.1.6(d)	Border crossing data.	Original
7.1.3.1.6(e)	Commercial vehicle on-board safety data.	Original
7.1.3.1.6(f)	Truck Origin/Destination and Classification data	Original
7.1.3.1.7	DIV shall be capable of importing ITS Environmental data to include:	Original
7.1.3.1.7(a)	Emission data.	Original
7.1.3.1.7(b)	Weather data.	Original
7.1.3.1.8	DIV shall be capable of importing ITS Vehicle and Traveler data to include:	Original
7.1.3.1.8(a)	Commercial and non-commercial vehicle probe data.	Original
7.1.3.1.8(b)	VMS message set data.	Original
7.1.3.1.8(c)	Vehicle trajectories.	Original
7.1.3.1.8(d)	Route guidance data.	Original
7.1.3.1.8(e)	Parking and roadway pricing change data.	Original
7.1.3.1.8(f)	Origin/destination trip data.	Original
7.1.3.1.8(g)	Service requests	Original
7.1.3.1.8(h)	Information utilization	Original
7.1.3.1.9	DIV shall be capable of importing data on ITS Physical Characteristics of Transportation Infrastructure to include:	Original
7.1.3.1.9(a)	Roadway network attributes.	Original
7.1.3.1.9(b)	Transit network attributes.	Original
7.1.3.1.9(c)	Equipment maintenance status	Original
7.1.3.1.9(d)	Transportation facilities.	Original
7.1.3.1.9(e)	GIS map of network.	Original
7.1.3.1.9(f)	Infrastructure maintenance data	Original
7.1.3.2	DIV shall be capable of accepting pre-defined data inputs from transportation or other sources.	Original
7.1.3.3	DIV shall be capable of applying pre-defined quality control verification on the imported ITS data and annotating results in the appropriate meta files.	Original
7.1.3.4	DIV shall be capable of formatting the data to conform to the archive schema.	Original
7.1.3.5	DIV shall be capable of cleansing imported data	Original
7.1.3.5.1	Cleansing shall include the removal of source privacy attributes.	Original
7.1.3.5.2	Cleansing shall be capable of assigning unique system-developed anonymous identifiers to data during archiving.	Original
7.1.3.6	DIV shall be capable of performing pre-defined data mining functions to import data.	Original
7.1.3.7	DIV shall be capable of performing pre-defined data fusion on imported data near real-time.	Original
7.1.3.8	DIV shall be capable of assigning meta attributes to ITS operational data if data modification is required during the historical archive process.	Original
7.1.3.9	DIV shall be capable of notifying source system owners of potential data or equipment errors.	Original
7.1.4	The Archived Data function shall provide the Automatic Data Historical Archive (ADHA) function for permanently archiving the data.	Original
7.1.4.1	ADHA shall provide an archive schema for all ITS data entering the archives.	Original
7.1.4.1.1	The archive schema shall preclude the possibility of identifying or tracking either individual citizens or private firms.	Original
7.1.4.1.2	ADHA shall strip all identifiers of individual citizens or private firms from all data before archiving.	Original
7.1.4.1.3	ADHA shall be capable of assigning unique system-developed anonymous identifiers	Original

Table C.1 (Continued)

USR	Description	Status
	to data during archiving.	
7.1.4.2	ADHA shall manage the ITS historical data archiving processes for all functional areas as follows:	Original
7.1.4.2(a)	Format data to archive schema conformance.	Original
7.1.4.2(b)	Maintain a centralized meta schema to specify how data is archived.	Original
7.1.4.2(c)	Maintain data quality meta attributes.	Original
7.1.4.2(d)	Schedule archiving of data.	Original
7.1.4.3	ADHA shall permanently store historical archives and only provide data replicates to users.	Original
7.1.4.4	ADHA shall be capable of supporting user-specified data archiving procedures as follows:	Original
7.1.4.4(a)	When specified by a user, archive operational data as received in the user's storage files.	Original
7.1.4.4(b)	When specified by a user, archive edited data in the User's storage files.	Original
7.1.4.4(c)	When specified by a user, perform pre-defined data fusion before archiving in User's storage files.	Original
7.1.4.5	ADHA shall be capable of assigning meta attributes to ITS operational data if data modification is required during the historical archive process.	Original
7.1.5	The Archived Data Function shall provide a Data Warehouse Distribution (DWD) function as the ITS data source to support the ITS community user functions.	Original
7.1.5.1	DWD shall be capable of supporting the generation of data products for the following transportation agencies:	Original
7.1.5.1(a)	Planning	Original
7.1.5.1(b)	Operations	Original
7.1.5.1(c)	Safety	Original
7.1.5.1(d)	Research	Original
7.1.5.2	DWD shall include a User Data Products (UDP) function.	Original
7.1.5.2.1	UDP shall provide an online analytical functionality to generate pre-defined data products for ITS users, to include:	Original
7.1.5.2.1(a)	Reports	Original
7.1.5.2.1(b)	Analyses	Original
7.1.5.2.1(c)	Aggregations or summaries.	Original
7.1.5.2.1(d)	User defined archiving of data concepts.	Original
7.1.5.2.2	UDP shall be capable of recreating ITS operational data formats from the historical archives.	Original
7.1.5.2.3	UDP shall be capable of providing user defined data mining functions on ITS data sources.	Original
7.1.5.2.4	UDP shall be capable of performing user defined data fusion functions on data extracted from ITS Archives.	Original
7.1.5.2.5	UDP shall be capable of supporting the Federal data system with user-defined data products, when the necessary data is available, to include the following systems:	Original
7.1.5.2.5(a)	Highway Performance Monitoring System (HPMS)	Original
7.1.5.2.5(b)	Truck Weight Study/VTRIS	Original
7.1.5.2.5(c)	National Bridge Inventory	Original
7.1.5.2.5(d)	Fatal Accident Reporting System (FARS)	Original
7.1.5.2.5(e)	Highway Safety Information System (HSIS)	Original
7.1.5.2.5(f)	Section 15 Transit Data	Original
7.1.5.2.5(g)	Motor Carrier Management Information System (MCMIS)	Original
7.1.5.2.5(h)	Hazardous Materials Incident Reporting System	Original
7.1.5.2.5(i)	Grade Crossing Inventory System (GCIS)	Original
7.1.5.2.5(j)	Railroad Accident/Incident Reporting System (RAIRS; grade crossing portion)	Original
7.1.5.3	DWD shall have the single point of administration for the archived data system.	Original
7.1.6	The Archived Data Function shall provide users with an ITS Community Interface (ICI) including all ITS users for the specification and retrieval of data products.	Original

Table C.1 (Continued)

USR	Description	Status
7.1.6.1	ICI shall be the common data interface for all ITS users to access the ITS Data Archives.	Original
7.1.6.1.1	ICI shall provide users' systems with the data interface functionality.	Original
7.1.6.2	ICI shall manage user access and security across the interface.	Original
7.1.6.2.1	ICI shall be capable of cleansing data to remove source privacy attributes before archiving data.	Original
7.1.6.2.2	ICI shall be capable of cleansing data to remove source privacy attributes before exporting data to users.	Original
7.1.6.3	ICI shall provide a user-interface functionality to existing data warehouse data schema for users to define their data products.	Original
7.1.6.3.1	The user-interface shall permit users to define access to multiple databases as data sources for their data products.	Original
7.1.6.3.2	The user-interface shall permit users to select online analytical functions to produce their data products.	Original
7.1.6.3.3	The user-interface shall permit the user to view sample data products.	Original
7.1.6.4	ICI shall provide the user interface for ITS Transportation Agencies.	Original
7.1.6.4.1	Transportation agencies shall include the following planning functions:	Original
7.1.6.4.1(a)	Metropolitan Planning Organizations (MPO) and State Transportation Planning	Original
7.1.6.4.1(b)	Transportation System Monitoring	Original
7.1.6.4.1(c)	Air Quality Analysis	Original
7.1.6.4.1(d)	MPO/State Freight and Intermodal Planning	Original
7.1.6.4.1(e)	Land Use Regulation and Growth Management	Original
7.1.6.4.1(f)	Transportation Administration and Policy Analysis.	Original
7.1.6.4.1(g)	Transit Planning	Original
7.1.6.4.2	Transportation agencies shall include the following ITS Operations functions:	Original
7.1.6.4.2(a)	Traffic Management.	Original
7.1.6.4.2(b)	Transit Management.	Original
7.1.6.4.2(c)	Construction and Maintenance.	Original
7.1.6.4.2(d)	The Private Sector.	Original
7.1.6.4.3	Transportation functions shall include the following safety agencies:	Original
7.1.6.4.3(a)	Safety Planning and Administration.	Original
7.1.6.4.3(b)	Commercial Vehicle Operations.	Original
7.1.6.4.3(c)	Emergency Management.	Original
7.1.6.4.4	Transportation agencies shall include research agencies.	Original
8.0	MAINTENANCE AND CONSTRICTION OPERATIONS	
8.1	MAINTENANCE VEHICLE FLEET MANAGEMENT	
8.1.0	Shall provide real-time tracking of vehicles owned by organizations contracted by the public agency. Shall support the following:	
8.1 (a)	Monitor/track the location of public vehicle fleets	
8.1 (b)	Support enhanced routing, scheduling, dispatching functions.	
8.1 (c)	Improve communications, interactions, and fleet operations between dispatchers and drivers	
8.1 (d)	Use of on-board vehicle sensors to monitor vehicle diagnostics, operating conditions, etc.	
8.1 (e)	Use of on-board vehicle sensors to monitor roadway conditions	
8.1 (f)	Archive data for use in performance monitoring activities	
8.2	ROADWAY MANAGEMENT	
8.2.0	Shall provide real-time observations of the roadway network to determine or infer the presence of materials that could obstruct the path of vehicles and that pose a threat of vehicle crashes. Shall support the following:	
8.2 (a)	Plan and forecast roadway management activities in proactive and reactive response situations (winter and summer).	
8.2 (b)	Determine the need for roadway treatment, both scheduled and forecasted (e.g., short-term weather prediction for winter maintenance, friction monitors, etc.)	
8.2 (c)	Perform hazardous road conditions remediation (e.g., sand, salt, snowplows, etc.)	

Table C.1 (Continued)

USR	Description	Status
8.2 (d)	Monitor the level of chemicals on the roadway (e.g., salt, sand, de-icing chemicals, etc.)	
8.2 (e)	Monitor the amount and availability of chemicals on snowplows/spreader vehicles and at the maintenance shop facility (e.g., salt, sand, de-icing chemicals, etc.)	
8.2 (f)	Manage maintenance crew dispatching during road maintenance operations, hazard removal, and emergency preparedness activities.	
8.2 (g)	Monitor, manage, and control, automated systems operating at remote locations that affect the roadway surface through treatment applications (e.g., de-icing applications underneath an overpass, etc.).	
8.2 (h)	Archive data for use in performance monitoring activities to track out-sourced contracting (private sector or to other public agencies).	
8.3	WORK ZONE MANAGEMENT AND SAFETY	
8.3 (a)	Shall provide procedures and systems that cost-effectively manage work zone activities and communicate with the traveler.	
8.3 (b)	Predict "when" a work zone/lane closure may be necessary (e.g., flooding, landslide, etc.).	
8.3 (c)	Collect/maintain/report work zone location, delay, and alternate route information.	
8.3 (d)	Provide automated systems that enforce speed limits, provide vehicle intrusion warnings, and track individual crew movements.	
8.3 (e)	Provide reliable, accurate, and timely information to the motorists regarding the upcoming work zone and how best to navigate safely through the area.	
8.4	ROADWAY MAINTENANCE CONDITIONS AND WORK PLAN DISSEMINATION	
8.4.0	Shall disseminate/coordinate MCO assignments and work plans (e.g., type, routing, scheduling, resource allocation, etc.) to affected personnel/staff within and between public agencies (e.g., transportation, public safety, law enforcement, transit, construction, emergency service, etc.).	

Appendix D

FDOT ITS Plan Process Specifications

Table D.1 – ITS Plan Process Specifications

USR	P-Spec	Name	System	Status
1.0	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.0	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.0	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.0	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.0	1.1.2.2	Process Traffic Data	TMS	Original
1.0	1.1.2.3	Update Data Source Static Data	TMS	Original
1.0	1.1.2.4	Monitor HOV lane use	TMS	Original
1.0	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.0	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.0	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.0	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.0	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.0	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.0	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.0	1.1.4.4	Update Traffic Display Map Data	TMS	Original
1.0	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.0	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.0	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.0	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.0	1.2.1	Select Strategy	TMS	Original
1.0	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.0	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.0	1.2.3	Determine Ramp State	TMS	Original
1.0	1.2.4.1	Output Control Data for Roads	TMS	Original
1.0	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.0	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.0	1.2.5.1	Determine Parking Lot State	PMS	Original
1.0	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.0	1.2.5.3	Provide Parking Lot Operator Interface	PMS	Original
1.0	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.0	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.0	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.0	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
1.0	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.0	1.2.7.2	Monitor Roadside Equipment Operation for Faults	RS	Original
1.0	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.0	1.2.7.4	Process In-vehicle Signage Data	RS	Original
1.0	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.0	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.0	1.2.8.1	Collect Indicator Fault Data	TMS	Original
1.0	1.2.8.2	Maintain Indicator Fault Data Store	TMS	Original
1.0	1.2.8.3	Provide Indicator Fault Interface for C and M	TMS	Original
1.0	1.2.8.4	Provide Traffic Operations Personnel Indicator Fault Interface	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.0	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.0	1.3.2.1	Store Possible Incident Data	TMS	Original
1.0	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.0	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.0	1.3.2.4	Provide Planned Events Store Interface	TMS	Original
1.0	1.3.2.5	Provide Current Incidents Store Interface	TMS	Original
1.0	1.3.3	Respond to Current Incidents	TMS	Original
1.0	1.3.4.1	Retrieve Incident Data	TMS	Original
1.0	1.3.4.2	Provide Traffic Operations Personnel Incident Data Interface	TMS	Original
1.0	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.0	1.3.4.4	Update Incident Display Map Data	TMS	Original
1.0	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.0	1.3.5	Manage Possible Predetermined Responses Store	TMS	Original
1.0	1.3.6	Manage Predetermined Incident Response Data	TMS	Original
1.0	1.3.7	Analyze Incident Response Log	TMS	Original
1.0	1.4.1	Provide Traffic Operations Personnel Demand Interface	TMS	Original
1.0	1.4.2	Collect Demand Forecast Data	TMS	Original
1.0	1.4.3	Update Demand Display Map Data	TMS	Original
1.0	1.4.4	Implement Demand Management Policy	TMS	Original
1.0	1.4.5	Calculate Forecast Demand	TMS	Original
1.0	1.5.5	Process Vehicle Pollution Data	RS	Original
1.0	1.6.1.1	Detect Roadway Events	RS	Original
1.0	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.0	1.6.1.2.2	Control HRI Warnings and Barriers	RS	Original
1.0	1.6.1.2.3	Provide SSR Device Controls	RS	Original
1.0	1.6.1.2.4	Provide HSR Device Controls	RS	Original
1.0	1.6.1.2.5	Manage Device Control	RS	Original
1.0	1.6.1.2.6	Maintain Device State	RS	Original
1.0	1.6.1.3	Perform Equipment Self-Test	RS	Original
1.0	1.6.1.4.1	Generate Alerts and Advisories	RS	Original
1.0	1.6.1.4.2	Provide Closure Parameters	RS	Original
1.0	1.6.1.4.3	Report Alerts and Advisories	RS	Original
1.0	1.6.1.4.4	Report HRI Status on Approach	RS	Original
1.0	1.6.1.5	Detect HRI Hazards	RS	Original
1.0	1.6.1.6.1	Close HRI on Detection	RS	Original
1.0	1.6.1.6.2	Detect Imminent Vehicle/Train Collision	RS	Original
1.0	1.6.1.7.1	Control Vehicle Traffic at Passive HRI	RS	Original
1.0	1.6.1.7.2	Control Vehicle Traffic at Active HRI	RS	Original
1.0	1.6.1.7.3	Close HRI on Command	RS	Original
1.0	1.6.2.1	Exchange Data with Rail Operations	TMS	Original
1.0	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.0	1.6.2.3	Manage Rail Traffic Control Data	TMS	Original
1.0	1.6.3.1	Interact with Wayside Systems	RS	Original
1.0	1.6.3.2	Advise and Protect Train Crews	RS	Original
1.0	1.6.3.3	Provide ATS Alerts	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.0	1.6.4.1	Manage HRI Closures	TMS	Original
1.0	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.0	1.6.5.1	Provide Interactive Interface	RS	Original
1.0	1.6.5.2	Determine HRI Status	RS	Original
1.0	1.6.5.3	Maintain HRI Closure Data	RS	Original
1.0	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.0	4.4.1.8	Report Traveler Emergencies	RTS	Original
1.0	5.4.1	Process TM Detected Violations	TMS	Original
1.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.0	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.0	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.0	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.0	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.0	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.0	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.0	6.2.4	Collect Yellow Pages Data	ISP	Original
1.0	6.2.5	Provide Driver Interface	VS	Original
1.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.0	6.3.1	Get Traveler Request	RTS	Original
1.0	6.3.2	Inform Traveler	RTS	Original
1.0	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.0	6.4.1	Screen Rider Requests	ISP	Original
1.0	6.4.2	Match Rider and Provider	ISP	Original
1.0	6.4.3	Report Ride Match Results to Requestor	ISP	Original
1.0	6.5.1	Collect and Update Traveler Information	ISP	Original
1.0	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.0	6.5.3	Register Yellow Pages Service Providers	ISP	Original
1.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.0	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.0	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.0	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.0	6.6.2.4	Update Vehicle Route Selection Map Data	ISP	Original
1.0	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.0	6.6.4	Select Transit Route	ISP	Original
1.0	6.6.5	Select Other Routes	ISP	Original
1.0	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.0	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.0	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.0	6.7.2.2	Process Vehicle Location Data	VS	Original
1.0	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.0	6.7.2.4	Update Vehicle Navigable Map Database	VS	Original
1.0	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.0	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.0	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.0	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.0	6.8.1.5	Provide Traveler Emergency Message Interface	PIAS	Original
1.0	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.0	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.0	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.0	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.0	7.4.1.3	Process Driver Map Update Payments	ISP	Original
1.0	7.4.1.4	Process Traveler Map Update Payments	ISP	Original
1.0	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
1.0	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.1	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1	6.3.4	Update Traveler Display Map Data at Kiosks	RTS	Original
1.1.0	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1.0	4.4.1.8	Report Traveler Emergencies	RTS	Original
1.1.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.0	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.0	6.3.1	Get Traveler Request	RTS	Original
1.1.0	6.3.2	Inform Traveler	RTS	Original
1.1.0	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.0	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.0	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.0	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.0	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.1	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1	6.3.2	Inform Traveler	RTS	Original
1.1.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1.1	6.3.2	Inform Traveler	RTS	Original
1.1.1.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1.1.1	6.3.2	Inform Traveler	RTS	Original
1.1.1.1.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1.1.2	6.3.2	Inform Traveler	RTS	Original
1.1.1.1.2	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1.1.3	6.3.2	Inform Traveler	RTS	Original
1.1.1.1.3	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1.4	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1.1.4	6.3.2	Inform Traveler	RTS	Original
1.1.1.1.4	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1.5	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.1.1.1.5	6.3.2	Inform Traveler	RTS	Original
1.1.1.1.5	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.1.1.6	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.1.1.6	6.3.2	Inform Traveler	RTS	Original
1.1.1.1.6	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2	6.3.2	Inform Traveler	RTS	Original
1.1.2	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1.2.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1	6.3.2	Inform Traveler	RTS	Original
1.1.2.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.1	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.2	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.2	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.2	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.3	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.3	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.3	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.4	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.4	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.4	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.4	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.5	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.5	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.5	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.5	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.6	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.1.2.1.6	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.6	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.6	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.6	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.2.1.7	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.8	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.2.1.8	6.3.2	Inform Traveler	RTS	Original
1.1.2.1.8	6.5.1	Collect and Update Traveler Information	ISP	Original
1.1.2.1.8	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.3	6.3.1	Get Traveler Request	RTS	Original
1.1.3	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.3	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.3.1	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.3.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.1.1	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.3.1.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.1.4	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.2	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.3.2	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.1	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.1	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.1	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.1	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.10	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.10	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.10	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.10	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.2	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.2	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.2	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.2	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.3	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.3	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.3	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.3	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.4	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.4	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.4	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.4	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.5	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.5	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.5	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.5	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.1.3.2.6	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.6	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.6	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.6	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.7	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.7	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.7	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.7	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.8	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.8	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.8	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.3.2.8	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.8	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.2.9	6.3.1	Get Traveler Request	RTS	Original
1.1.3.2.9	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.1.3.2.9	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.1.3.2.9	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.3.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.3	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.3.3.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.3.3.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.4	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1.4	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.4	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.4	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.4	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.4	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.4.1	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1.4.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.4.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.4.1	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.4.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.4.1.1	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1.4.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.4.1.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.4.1.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.4.1.2	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1.4.1.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.4.1.2	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.4.1.2	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.4.1.3	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1.4.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.1.4.1.3	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.1.4.1.3	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.1.4.1.3	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.1.4.1.4	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.1.4.1.4	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.1.4.2	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1.4.2.1	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.1	1.1.2.2	Process Traffic Data	TMS	Original
1.1	1.2.4.1	Output Control Data for Roads	TMS	Original
1.1	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.1	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.1	1.6.1.1	Detect Roadway Events	RS	Original
1.1	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.1	1.6.1.2.2	Control HRI Warnings and Barriers	RS	Original
1.1	1.6.1.2.3	Provide SSR Device Controls	RS	Original
1.1	1.6.1.2.4	Provide HSR Device Controls	RS	Original
1.1	1.6.1.2.5	Manage Device Control	RS	Original
1.1	1.6.1.2.6	Maintain Device State	RS	Original
1.1	1.6.1.3	Perform Equipment Self-Test	RS	Original
1.1	1.6.1.4.1	Generate Alerts and Advisories	RS	Original
1.1	1.6.1.4.2	Provide Closure Parameters	RS	Original
1.1	1.6.1.4.3	Report Alerts and Advisories	RS	Original
1.1	1.6.1.4.4	Report HRI Status on Approach	RS	Original
1.1	1.6.1.5	Detect HRI Hazards	RS	Original
1.1	1.6.1.6.1	Close HRI on Detection	RS	Original
1.1	1.6.1.6.2	Detect Imminent Vehicle/Train Collision	RS	Original
1.1	1.6.1.7.1	Control Vehicle Traffic at Passive HRI	RS	Original
1.1	1.6.1.7.2	Control Vehicle Traffic at Active HRI	RS	Original
1.1	1.6.1.7.3	Close HRI on Command	RS	Original
1.1	1.6.2.1	Exchange Data with Rail Operations	TMS	Original
1.1	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.1	1.6.2.3	Manage Rail Traffic Control Data	TMS	Original
1.1	1.6.3.1	Interact with Wayside Systems	RS	Original
1.1	1.6.3.2	Advise and Protect Train Crews	RS	Original
1.1	1.6.3.3	Provide ATS Alerts	RS	Original
1.1	1.6.4.1	Manage HRI Closures	TMS	Original
1.1	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.1	1.6.5.1	Provide Interactive Interface	RS	Original
1.1	1.6.5.2	Determine HRI Status	RS	Original
1.1	1.6.5.3	Maintain HRI Closure Data	RS	Original
1.10.0	1.1.2.2	Process Traffic Data	TMS	Original
1.10.0	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.10.0	1.6.1.1	Detect Roadway Events	RS	Original
1.10.1.1	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.10.1	1.6.1.1	Detect Roadway Events	RS	Original
1.10.1	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.1	1.6.1.4.1	Generate Alerts and Advisories	RS	Original
1.10.1	1.6.1.6.1	Close HRI on Detection	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.10.1	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.1	1.6.3.2	Advise and Protect Train Crews	RS	Original
1.10.1	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.1.1	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.10.1.1	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.1.2	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.1.2	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.1.3	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.1.3	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.1.4	1.6.1.6.1	Close HRI on Detection	RS	Original
1.10.1.5	1.6.1.4.1	Generate Alerts and Advisories	RS	Original
1.10.1.6	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.1.6	1.6.3.2	Advise and Protect Train Crews	RS	Original
1.10.1.7	1.6.1.1	Detect Roadway Events	RS	Original
1.10.1.7	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.1.7	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.2	1.6.1.1	Detect Roadway Events	RS	Original
1.10.2	1.6.1.4.2	Provide Closure Parameters	RS	Original
1.10.2	1.6.2.1	Exchange Data with Rail Operations	TMS	Original
1.10.2	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.10.2	1.6.2.3	Manage Rail Traffic Control Data	TMS	Original
1.10.2	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.2	1.6.4.1	Manage HRI Closures	TMS	Original
1.10.2	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.10.2	1.6.5.1	Provide Interactive Interface	RS	Original
1.10.2	1.6.5.3	Maintain HRI Closure Data	RS	Original
1.10.2.1	1.6.1.1	Detect Roadway Events	RS	Original
1.10.2.1	1.6.2.1	Exchange Data with Rail Operations	TMS	Original
1.10.2.1	1.6.4.1	Manage HRI Closures	TMS	Original
1.10.2.1	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.10.2.1	1.6.5.3	Maintain HRI Closure Data	RS	Original
1.10.2.1.1	1.6.1.1	Detect Roadway Events	RS	Original
1.10.2.1.2	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.10.2.1.3	1.6.4.1	Manage HRI Closures	TMS	Original
1.10.2.1.3	1.6.5.3	Maintain HRI Closure Data	RS	Original
1.10.2.2	1.6.1.4.2	Provide Closure Parameters	RS	Original
1.10.2.2	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.10.2.2	1.6.2.3	Manage Rail Traffic Control Data	TMS	Original
1.10.2.2	1.6.3.1	Interact with Wayside Systems	RS	Original
1.10.2.2	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.10.2.2	1.6.5.1	Provide Interactive Interface	RS	Original
1.10.2.2.1	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.10.2.2.1	1.6.5.1	Provide Interactive Interface	RS	Original
1.10.2.2.2	1.6.2.3	Manage Rail Traffic Control Data	TMS	Original
1.10.2.2.2	1.6.5.1	Provide Interactive Interface	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.10.2.2.3	1.6.5.1	Provide Interactive Interface	RS	Original
1.10.2.2.4	1.6.1.4.2	Provide Closure Parameters	RS	Original
1.10.2.2.4	1.6.4.2	Exchange Data with Traffic Management	TMS	Original
1.10.3	1.2.4.1	Output Control Data for Roads	TMS	Original
1.10.3	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.3	1.6.1.1	Detect Roadway Events	RS	Original
1.10.3	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.3	1.6.1.2.2	Control HRI Warnings and Barriers	RS	Original
1.10.3	1.6.1.3	Perform Equipment Self-Test	RS	Original
1.10.3	1.6.1.4.3	Report Alerts and Advisories	RS	Original
1.10.3	1.6.1.5	Detect HRI Hazards	RS	Original
1.10.3	1.6.1.6.2	Detect Imminent Vehicle/Train Collision	RS	Original
1.10.3	1.6.1.7.2	Control Vehicle Traffic at Active HRI	RS	Original
1.10.3	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.3	1.6.5.2	Determine HRI Status	RS	Original
1.10.3.1	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.3.1	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.3.1	1.6.1.6.2	Detect Imminent Vehicle/Train Collision	RS	Original
1.10.3.1	1.6.5.2	Determine HRI Status	RS	Original
1.10.3.2	1.2.7.6	Provide Intersection Collision Avoidance Data	RS	Original
1.10.3.2	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.3.3	1.2.4.1	Output Control Data for Roads	TMS	Original
1.10.3.3	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.3.3	1.6.1.1	Detect Roadway Events	RS	Original
1.10.3.3	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.3.3	1.6.1.2.2	Control HRI Warnings and Barriers	RS	Original
1.10.3.3	1.6.1.3	Perform Equipment Self-Test	RS	Original
1.10.3.3	1.6.1.4.3	Report Alerts and Advisories	RS	Original
1.10.3.3	1.6.1.5	Detect HRI Hazards	RS	Original
1.10.3.3	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.3.3.1	1.6.1.2.1	Control HRI Traffic Signals	RS	Original
1.10.3.3.2	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.3.3.2	1.6.1.2.2	Control HRI Warnings and Barriers	RS	Original
1.10.3.3.3	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.3.3.3	1.6.1.1	Detect Roadway Events	RS	Original
1.10.3.3.3	1.6.1.5	Detect HRI Hazards	RS	Original
1.10.3.3.4	1.6.1.3	Perform Equipment Self-Test	RS	Original
1.10.3.3.5	1.2.4.1	Output Control Data for Roads	TMS	Original
1.10.3.3.5	1.6.1.4.3	Report Alerts and Advisories	RS	Original
1.10.3.3.5	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.4	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.4	1.6.1.2.3	Provide SSR Device Controls	RS	Original
1.10.4	1.6.1.2.5	Manage Device Control	RS	Original
1.10.4	1.6.1.2.6	Maintain Device State	RS	Original
1.10.4	1.6.1.7.1	Control Vehicle Traffic at Passive HRI	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.10.4	1.6.1.7.3	Close HRI on Command	RS	Original
1.10.4.1	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.4.1	1.6.1.2.3	Provide SSR Device Controls	RS	Original
1.10.4.1	1.6.1.2.5	Manage Device Control	RS	Original
1.10.4.1	1.6.1.2.6	Maintain Device State	RS	Original
1.10.4.1	1.6.1.7.3	Close HRI on Command	RS	Original
1.10.4.2	1.6.1.7.1	Control Vehicle Traffic at Passive HRI	RS	Original
1.10.4.2.1	1.6.1.7.1	Control Vehicle Traffic at Passive HRI	RS	Original
1.10.5	1.2.4.1	Output Control Data for Roads	TMS	Original
1.10.5	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.5	1.6.1.2.4	Provide HSR Device Controls	RS	Original
1.10.5	1.6.1.4.4	Report HRI Status on Approach	RS	Original
1.10.5	1.6.1.6.1	Close HRI on Detection	RS	Original
1.10.5	1.6.1.7.3	Close HRI on Command	RS	Original
1.10.5	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.10.5	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.5.1	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.5.1	1.6.1.2.4	Provide HSR Device Controls	RS	Original
1.10.5.2	1.2.4.1	Output Control Data for Roads	TMS	Original
1.10.5.2	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.5.2	1.6.1.2.4	Provide HSR Device Controls	RS	Original
1.10.5.2	1.6.1.4.4	Report HRI Status on Approach	RS	Original
1.10.5.2	1.6.1.6.1	Close HRI on Detection	RS	Original
1.10.5.2	1.6.1.7.3	Close HRI on Command	RS	Original
1.10.5.2	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.10.5.2	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.5.2.1	1.6.1.6.1	Close HRI on Detection	RS	Original
1.10.5.2.1	1.6.1.7.3	Close HRI on Command	RS	Original
1.10.5.2.2	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.10.5.2.2	1.6.1.2.4	Provide HSR Device Controls	RS	Original
1.10.5.2.3	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.5.2.4	1.6.2.2	Manage Alerts and Advisories	TMS	Original
1.10.5.2.5	1.6.3.3	Provide ATS Alerts	RS	Original
1.10.5.2.6	1.2.4.1	Output Control Data for Roads	TMS	Original
1.10.5.2.6	1.6.1.4.4	Report HRI Status on Approach	RS	Original
1.10.6	1.6.1.5	Detect HRI Hazards	RS	Original
1.2	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.2	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.2.0	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.0	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.0	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.0	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.2.0	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.2.0	6.2.4	Collect Yellow Pages Data	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.2.0	6.2.5	Provide Driver Interface	VS	Original
1.2.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.0	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.2.0	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.0	6.7.2.2	Process Vehicle Location Data	VS	Original
1.2.1	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.2.1	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.2.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.2.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.2.1.1	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.2.1.1	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.2.1.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.2.1.2	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.2.1.2	6.7.2.2	Process Vehicle Location Data	VS	Original
1.2.1.3	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.2.1.3	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.2.1.3	6.7.2.2	Process Vehicle Location Data	VS	Original
1.2.1.4	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.2.1.4	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.1.4.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.2.1.4.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.1.5	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.2.1.5	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.2.1.5	6.2.5	Provide Driver Interface	VS	Original
1.2.1.5	6.7.2.2	Process Vehicle Location Data	VS	Original
1.2.2	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.2	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.2	6.2.4	Collect Yellow Pages Data	ISP	Original
1.2.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.2.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.2.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.2.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.2.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.2.1	6.2.4	Collect Yellow Pages Data	ISP	Original
1.2.2.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.2.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.2.1.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.2.1.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.2.1.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.2.1.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.2.1.1	6.2.4	Collect Yellow Pages Data	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.2.2.1.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.2.1.2	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.2.1.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.2.1.2	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.2.1.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.2.1.2	6.2.4	Collect Yellow Pages Data	ISP	Original
1.2.2.1.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.2.1.2.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.2.1.2.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.2.1.2.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.2.1.2.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.2.1.2.1	6.2.4	Collect Yellow Pages Data	ISP	Original
1.2.2.1.2.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.2.1.3	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.2.2.1.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.2.2.1.3	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
1.2.2.1.3	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.2.2.1.3	6.2.4	Collect Yellow Pages Data	ISP	Original
1.2.2.1.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.2.2.1.4	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.2.2.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3	1.6.1.1	Detect Roadway Events	RS	Original
1.3	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.3	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.3	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.3	7.4.1.3	Process Driver Map Update Payments	ISP	Original
1.3	7.4.1.4	Process Traveler Map Update Payments	ISP	Original
1.3	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
1.3.0	6.2.5	Provide Driver Interface	VS	Original
1.3.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.0	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.0	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.0	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.3.0	6.6.2.4	Update Vehicle Route Selection Map Data	ISP	Original
1.3.0	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.0	6.6.3	Update Other Routes Selection Map Data	ISP	Original
1.3.0	6.6.4	Select Transit Route	ISP	Original
1.3.0	6.6.5	Select Other Routes	ISP	Original
1.3.0	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.0	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.0	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.0	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.0	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.0	6.7.2.4	Update Vehicle Navigable Map Database	VS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.0	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.0	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.0	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.0	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.0	7.4.1.3	Process Driver Map Update Payments	ISP	Original
1.3.0	7.4.1.4	Process Traveler Map Update Payments	ISP	Original
1.3.0	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
1.3.1	1.6.1.1	Detect Roadway Events	RS	Original
1.3.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.1	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.3.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.1	6.6.3	Update Other Routes Selection Map Data	ISP	Original
1.3.1	6.6.4	Select Transit Route	ISP	Original
1.3.1	6.6.5	Select Other Routes	ISP	Original
1.3.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.1	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.1	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.1	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.1	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.1	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.1	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.1	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.1.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.1.1	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.1.1	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.1.1	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.1.1	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.1.1	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.1.1	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.1.2	1.6.1.1	Detect Roadway Events	RS	Original
1.3.1.2	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.1.2	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.2	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.1.2	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.3.1.2	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.1.2	6.6.3	Update Other Routes Selection Map Data	ISP	Original
1.3.1.2	6.6.4	Select Transit Route	ISP	Original
1.3.1.2	6.6.5	Select Other Routes	ISP	Original
1.3.1.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.1.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.1.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.1.2	6.7.2.2	Process Vehicle Location Data	VS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.1.2	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.1.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.1.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.1.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.1.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.1.2.1	1.6.1.1	Detect Roadway Events	RS	Original
1.3.1.2.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.2.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.1.2.1	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.3.1.2.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.1.2.1	6.6.3	Update Other Routes Selection Map Data	ISP	Original
1.3.1.2.1	6.6.4	Select Transit Route	ISP	Original
1.3.1.2.1	6.6.5	Select Other Routes	ISP	Original
1.3.1.2.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.1.2.1	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.1.2.1	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.1.2.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.1.2.1	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.1.2.1	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.1.2.1	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.1.2.1	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.1.2.1	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.1.2.1(a)	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.2.1(b)	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.2.1(b)	6.6.3	Update Other Routes Selection Map Data	ISP	Original
1.3.1.2.1(b)	6.6.4	Select Transit Route	ISP	Original
1.3.1.2.1(c)	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.3.1.2.1(c)	6.6.4	Select Transit Route	ISP	Original
1.3.1.2.1(d)	1.6.1.1	Detect Roadway Events	RS	Original
1.3.1.2.1(d)	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.1.2.1(d).1	1.6.1.1	Detect Roadway Events	RS	Original
1.3.1.2.1(d).2	6.6.5	Select Other Routes	ISP	Original
1.3.1.2.1(d).2	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.1.2.1(d).3	6.6.5	Select Other Routes	ISP	Original
1.3.1.2.1(d).3	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.1.3	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.3	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.1.3	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.1.3	6.6.4	Select Transit Route	ISP	Original
1.3.1.3	6.6.5	Select Other Routes	ISP	Original
1.3.1.3	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.1.3	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.1.3	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.1.3	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.1.3	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.1.3	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.1.3	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.1.3(a)	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.3(b)	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.1.3(c)	6.6.5	Select Other Routes	ISP	Original
1.3.1.3(d)	6.6.5	Select Other Routes	ISP	Original
1.3.2	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.2	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.2	6.6.2.4	Update Vehicle Route Selection Map Data	ISP	Original
1.3.2	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.2	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.2	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.2	6.7.2.4	Update Vehicle Navigable Map Database	VS	Original
1.3.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.2.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.2.1	6.6.2.4	Update Vehicle Route Selection Map Data	ISP	Original
1.3.2.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.2.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.2.1	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.2.1	6.7.2.4	Update Vehicle Navigable Map Database	VS	Original
1.3.2.1(a)	6.6.2.4	Update Vehicle Route Selection Map Data	ISP	Original
1.3.2.1(b)	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.2.2	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.2.2	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.2.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.2.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.2.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.2.2	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.2.2	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.2.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.2.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.2.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.2.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.2.2.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.2.2.2	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.2.3	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.2.3	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.2.3	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.2.3	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.2.3	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.2.3	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.2.3	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.2.3.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.2.3.1	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.2.3.1	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.2.3.1	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.2.3.1	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.2.3.1	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.2.3.1	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.3	6.2.5	Provide Driver Interface	VS	Original
1.3.3	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.3	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.3	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3.3	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.3	6.6.4	Select Transit Route	ISP	Original
1.3.3	6.6.5	Select Other Routes	ISP	Original
1.3.3	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.3	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.3	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.3	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.3	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.3	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.3	7.4.1.3	Process Driver Map Update Payments	ISP	Original
1.3.3	7.4.1.4	Process Traveler Map Update Payments	ISP	Original
1.3.3	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
1.3.3.1	6.2.5	Provide Driver Interface	VS	Original
1.3.3.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.3.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.3.1	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3.3.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.3.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.3.1	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.3.1	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.3.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.3.1	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.3.1(a)	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3.3.1(b)	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.3.2	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.2	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.3.2	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.3.2	6.6.4	Select Transit Route	ISP	Original
1.3.3.2	6.6.5	Select Other Routes	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.3.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.3.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.3.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.3.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.3.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.3.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.3.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.3.2	7.4.1.3	Process Driver Map Update Payments	ISP	Original
1.3.3.2	7.4.1.4	Process Traveler Map Update Payments	ISP	Original
1.3.3.2	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
1.3.3.2(a)	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.2(b)	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.2.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.2.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.3.2.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.3.2.1	6.6.4	Select Transit Route	ISP	Original
1.3.3.2.1	6.6.5	Select Other Routes	ISP	Original
1.3.3.2.1	7.4.1.3	Process Driver Map Update Payments	ISP	Original
1.3.3.2.1	7.4.1.4	Process Traveler Map Update Payments	ISP	Original
1.3.3.2.1	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
1.3.3.2.2	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.2.2	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.3.2.2	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.3.2.2	6.6.4	Select Transit Route	ISP	Original
1.3.3.2.2	6.6.5	Select Other Routes	ISP	Original
1.3.3.2.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.3.2.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.3.2.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.3.2.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.3.2.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.3.2.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.3.2.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.3.3	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.3.3	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.3.3	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.3.3	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.3.3	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.3.3	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.3.3	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.3.3	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.3.3	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.3.3	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.4	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.3.4	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.4	6.6.2.1	Calculate Vehicle Route	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.4	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.4	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3.4	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.4	6.6.4	Select Transit Route	ISP	Original
1.3.4	6.6.5	Select Other Routes	ISP	Original
1.3.4	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.4	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.4	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.4	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.4	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.4	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.4	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.4	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.3.4	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.3.4.1	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3.4.1	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.1	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.1	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.3.4.1	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.3.4.1(a)	6.6.2.5	Provide ISP Operator Route Parameters Interface	ISP	Original
1.3.4.1(b)	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.3.4.1(b)	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.3.4.1(c)	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.3.4.1(c)	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.3.4.1(d)	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.1(d)	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.1(e)	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.1(e)	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.2	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.3.4.2	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.4.2	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.4.2	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.4.2	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.4.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.4.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.4.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.4.2	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.4.2	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.4.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.4.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.4.2.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.3.4.2.1	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.4.2.1	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.4.2.1	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.4.2.1	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.4.2.1	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.2.1	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.2.1	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.4.2.1	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.4.2.1	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.4.2.2	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.3.4.2.2	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.4.2.2	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.4.2.2	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.4.2.2	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.4.2.2	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.2.2	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.2.2	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.4.2.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.4.2.2	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.4.2.2(a)	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.4.2.2(b)	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
1.3.4.3	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.3.4.3	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.4.3	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.4.3	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.4.3	6.6.4	Select Transit Route	ISP	Original
1.3.4.3	6.6.5	Select Other Routes	ISP	Original
1.3.4.3	6.7.2.1.1	Determine In-vehicle Guidance Method	VS	Original
1.3.4.3	6.7.2.1.2	Provide Dynamic In-vehicle Guidance	VS	Original
1.3.4.3	6.7.2.1.3	Provide Autonomous In-vehicle Guidance	VS	Original
1.3.4.3	6.7.2.2	Process Vehicle Location Data	VS	Original
1.3.4.3	6.7.2.3	Provide Driver Guidance Interface	VS	Original
1.3.4.3	6.8.1.1.1	Determine Personal Portable Device Guidance Method	PIAS	Original
1.3.4.3	6.8.1.1.2	Provide Personal Portable Device Dynamic Guidance	PIAS	Original
1.3.4.3	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.3.4.3	6.8.1.2	Provide Personal Portable Device Guidance Interface	PIAS	Original
1.3.4.3.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
1.3.4.3.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
1.3.4.3.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
1.3.4.3.1	6.6.5	Select Other Routes	ISP	Original
1.4	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.4.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.0	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.0	6.3.1	Get Traveler Request	RTS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.4.0	6.3.2	Inform Traveler	RTS	Original
1.4.0	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.0	6.4.1	Screen Rider Requests	ISP	Original
1.4.0	6.4.2	Match Rider and Provider	ISP	Original
1.4.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.4.0	6.6.4	Select Transit Route	ISP	Original
1.4.0	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.0	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.4.0	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.4.0	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4.0	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.4.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.1	6.3.1	Get Traveler Request	RTS	Original
1.4.1	6.3.2	Inform Traveler	RTS	Original
1.4.1	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1	6.4.1	Screen Rider Requests	ISP	Original
1.4.1	6.4.2	Match Rider and Provider	ISP	Original
1.4.1	6.4.3	Report Ride Match Results to Requestor	ISP	Original
1.4.1	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.4.1	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.4.1.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.1.1	6.3.1	Get Traveler Request	RTS	Original
1.4.1.1	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1.1	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.1.1	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.4.1.1(a)	6.3.1	Get Traveler Request	RTS	Original
1.4.1.1(a)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1.1(b)	6.3.1	Get Traveler Request	RTS	Original
1.4.1.1(b)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1.2	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.1.2	6.3.1	Get Traveler Request	RTS	Original
1.4.1.2	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1.2	6.4.2	Match Rider and Provider	ISP	Original
1.4.1.2	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.1.2	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.4.1.2(a)	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.1.2(b)	6.3.1	Get Traveler Request	RTS	Original
1.4.1.2(b)	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.1.2(c)	6.3.1	Get Traveler Request	RTS	Original
1.4.1.2(c)	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.1.2(d)	6.3.1	Get Traveler Request	RTS	Original
1.4.1.2(e)	6.3.1	Get Traveler Request	RTS	Original
1.4.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.4.1.3	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.1.3	6.3.1	Get Traveler Request	RTS	Original
1.4.1.3	6.3.2	Inform Traveler	RTS	Original
1.4.1.3	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1.3	6.4.2	Match Rider and Provider	ISP	Original
1.4.1.3	6.4.3	Report Ride Match Results to Requestor	ISP	Original
1.4.1.3	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.4.1.3	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.4.1.3	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.4.1.4	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.1.4	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.4.1.4	6.4.1	Screen Rider Requests	ISP	Original
1.4.1.4	6.4.2	Match Rider and Provider	ISP	Original
1.4.1.4	6.4.3	Report Ride Match Results to Requestor	ISP	Original
1.4.1.4	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.4.2	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.2	6.4.1	Screen Rider Requests	ISP	Original
1.4.2	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4.2	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.4.2.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.2.1	6.4.1	Screen Rider Requests	ISP	Original
1.4.2.1	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4.2.2	6.4.1	Screen Rider Requests	ISP	Original
1.4.2.2	9	Satisfy Implementation Requirements	N/A	Original
1.4.2.3	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.4.2.4	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.2.4	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.3	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.3	6.4.2	Match Rider and Provider	ISP	Original
1.4.3	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.4.3	6.6.4	Select Transit Route	ISP	Original
1.4.3	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4.3	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.4.3.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.3.2	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.4.3.2	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
1.4.3.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.3.3	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.4.3.3	6.6.4	Select Transit Route	ISP	Original
1.4.3.3(a)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.3.3(b)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.3.3(c)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.3.4	6.4.2	Match Rider and Provider	ISP	Original
1.4.3.5	7.4.2	Collect Price Data for ITS Use	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.4.3.6	7.4.2	Collect Price Data for ITS Use	ISP	Original
1.4.4.3(d)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.4.3(e)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.4.3(f)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.4.4.3(f)	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.4.4.3(g)	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
1.5	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.5	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.5	6.2.5	Provide Driver Interface	VS	Original
1.5	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.5	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.5	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.5	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.5.0	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.5.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.0	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.5.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.0	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.0	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.5.0	6.2.4	Collect Yellow Pages Data	ISP	Original
1.5.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.0	6.3.1	Get Traveler Request	RTS	Original
1.5.0	6.3.2	Inform Traveler	RTS	Original
1.5.0	6.5.1	Collect and Update Traveler Information	ISP	Original
1.5.0	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.0	6.8.1.5	Provide Traveler Emergency Message Interface	PIAS	Original
1.5.0	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.5.0	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.5.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.5.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.5.1	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.1.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.5.1.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.2	6.5.1	Collect and Update Traveler Information	ISP	Original
1.5.1.2.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.2.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.5.1.2.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.2.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.2.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.2.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.2.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.2.3	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.2.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.2.4	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.2.4	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.2.4	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.2.5	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.2.5	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.2.5	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.3	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.3	6.5.1	Collect and Update Traveler Information	ISP	Original
1.5.1.3	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.1.4	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.5.1.4	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.4	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.4	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.5	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.1.5	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.1.5	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.1.5	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2	1.2.4.1	Output Control Data for Roads	TMS	Original
1.5.2	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.5.2	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.5.2	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.5.2	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.5.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.5.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.2	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.5.2	6.2.4	Collect Yellow Pages Data	ISP	Original
1.5.2	6.2.5	Provide Driver Interface	VS	Original
1.5.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2	6.3.1	Get Traveler Request	RTS	Original
1.5.2	6.3.2	Inform Traveler	RTS	Original
1.5.2	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.5.2	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.5.2	6.8.1.5	Provide Traveler Emergency Message Interface	PIAS	Original
1.5.2	6.8.3.1	Get Traveler Personal Request	PIAS	Original
1.5.2	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.5.2	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.5.2	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.5.2.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.2.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.2.1	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.5.2.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.1	6.3.2	Inform Traveler	RTS	Original
1.5.2.1	6.8.1.5	Provide Traveler Emergency Message Interface	PIAS	Original
1.5.2.1	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.5.2.2	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.5.2.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.2.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.2.2	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.5.2.2	6.2.4	Collect Yellow Pages Data	ISP	Original
1.5.2.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.2	6.3.2	Inform Traveler	RTS	Original
1.5.2.2	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.2	6.8.1.5	Provide Traveler Emergency Message Interface	PIAS	Original
1.5.2.2	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
1.5.2.2(a)	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.2(a)	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.2(b)	6.2.4	Collect Yellow Pages Data	ISP	Original
1.5.2.2(b)	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.2(b)	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.2(c)	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.5.2.2(d)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2.2(e)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2.2(f)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2.2(g)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2.2(g)	6.2.4	Collect Yellow Pages Data	ISP	Original
1.5.2.2(h)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.5.2.2(h)	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.2(h)	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.2.3	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
1.5.2.3	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
1.5.2.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.3	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.3	6.8.1.5	Provide Traveler Emergency Message Interface	PIAS	Original
1.5.2.3(a)	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
1.5.2.3(a)	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.5.2.3(b)	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.4	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
1.5.2.4	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
1.5.2.5	1.2.4.1	Output Control Data for Roads	TMS	Original
1.5.2.5	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.5.2.5	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.5.2.5	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.5.2.5	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.5.2.5	6.2.5	Provide Driver Interface	VS	Original
1.5.2.5	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2.5	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.5.2.5	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.5.2.5	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.5.2.5	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.5.2.5(a)	1.2.4.1	Output Control Data for Roads	TMS	Original
1.5.2.5(a)	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.5.2.5(a)	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.5.2.5(a)	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.5.2.5(b)	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.5.2.5(c)	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.5.2.5(c)	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.5.2.5(d)	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.5.2.5(d)	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.5.2.5(d)	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
1.5.2.5(d)	6.8.3.4	Update Traveler Personal Display Map Data	PIAS	Original
1.5.2.5(e)	6.2.5	Provide Driver Interface	VS	Original
1.5.2.5(f)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2.5(f)	6.3.4	Update Traveler Display Map Data at Kiosk	RTS	Original
1.5.2.5(g)	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
1.5.2.5(g)	6.8.1.1.3	Provide Personal Portable Device Autonomous Guidance	PIAS	Original
1.5.2.6	6.3.1	Get Traveler Request	RTS	Original
1.5.2.6	6.3.2	Inform Traveler	RTS	Original
1.5.2.6	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2.6(a)	6.3.2	Inform Traveler	RTS	Original
1.5.2.6(b)	6.3.1	Get Traveler Request	RTS	Original
1.5.2.6(b)	6.3.2	Inform Traveler	RTS	Original
1.5.2.6(b)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2.6(c)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2.6(d)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.5.2.6(e)	6.3.2	Inform Traveler	RTS	Original
1.5.2.6(e)	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
1.6	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.6	1.1.2.2	Process Traffic Data	TMS	Original
1.6	1.1.2.3	Update Data Source Static Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6	1.1.2.4	Monitor HOV lane use	TMS	Original
1.6	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.6	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.6	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.6	1.1.4.4	Update Traffic Display Map Data	TMS	Original
1.6	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.6	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.6	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6	1.2.1	Select Strategy	TMS	Original
1.6	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6	1.2.3	Determine Ramp State	TMS	Original
1.6	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6	1.2.5.1	Determine Parking Lot State	PMS	Original
1.6	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.6	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
1.6	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6	3.1.3	Process Vehicle On-board Data	VS	Original
1.6	5.3.2	Dispatch Vehicle	EM	Original
1.6	5.3.7	Provide Emergency Vehicle Route	EM	Original
1.6	5.4.1	Process TM Detected Violations	TMS	Original
1.6	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.6	6.1.4	Provide ISP Operator Interface for Trip Planning Parameters	ISP	Original
1.6.0	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.6.0	1.1.2.2	Process Traffic Data	TMS	Original
1.6.0	1.1.2.3	Update Data Source Static Data	TMS	Original
1.6.0	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.6.0	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.0	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6.0	1.1.4.4	Update Traffic Display Map Data	TMS	Original
1.6.0	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.6.0	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.0	1.2.1	Select Strategy	TMS	Original
1.6.0	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.0	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.0	1.2.3	Determine Ramp State	TMS	Original
1.6.0	1.2.4.1	Output Control Data for Roads	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6.0	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.0	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.0	1.2.5.1	Determine Parking Lot State	PMS	Original
1.6.0	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.6.0	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
1.6.0	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.0	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.0	5.4.1	Process TM Detected Violations	TMS	Original
1.6.1	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6.1	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.6.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1	1.2.3	Determine Ramp State	TMS	Original
1.6.1.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.1	1.2.3	Determine Ramp State	TMS	Original
1.6.1.1.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.1.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.1.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.1.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.1.2	1.2.3	Determine Ramp State	TMS	Original
1.6.1.1.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.1.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.1.4	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.1.4	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.1.5	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.1.5	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.2	1.2.3	Determine Ramp State	TMS	Original
1.6.1.2.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.2.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.2.1	1.2.3	Determine Ramp State	TMS	Original
1.6.1.2.1	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.1.2.1	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.1.2.1	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.1.2.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.2.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.2.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.2.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.2.3	1.2.3	Determine Ramp State	TMS	Original
1.6.1.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.4	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.4	1.2.2.2	Determine Indicator State for Road Management	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6.1.4	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.1.4	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.1.4	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.1.4.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.4.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.5	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.5	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.6	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.6	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.7	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6.1.7	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.6.1.7	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.7	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.1.7(a)	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6.1.7(a)	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.6.1.7(b)	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.1.7(b)	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.2	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.6.2	1.1.2.2	Process Traffic Data	TMS	Original
1.6.2	1.1.2.3	Update Data Source Static Data	TMS	Original
1.6.2	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.6.2	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.6.2	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.2	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.6.2	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.2	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.2	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.2	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2	5.4.1	Process TM Detected Violations	TMS	Original
1.6.2.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.1.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.2	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.2	1.1.2.2	Process Traffic Data	TMS	Original
1.6.2.2	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.6.2.2	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2.2	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.6.2.2	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2.2	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.2.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.2.1	1.1.2.2	Process Traffic Data	TMS	Original
1.6.2.3	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.3	1.1.2.2	Process Traffic Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6.2.3	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2.3	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2.3	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.3.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.3.1	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2.3.1	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2.3.1	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.3.2	1.1.2.2	Process Traffic Data	TMS	Original
1.6.2.3.2	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2.3.2	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2.3.2	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.4	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.6.2.4	1.1.2.2	Process Traffic Data	TMS	Original
1.6.2.4	1.1.2.3	Update Data Source Static Data	TMS	Original
1.6.2.4	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.6.2.4	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2.4	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.6.2.4	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2.4	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.4	5.4.1	Process TM Detected Violations	TMS	Original
1.6.2.4.1	1.1.2.2	Process Traffic Data	TMS	Original
1.6.2.4.1	1.1.2.3	Update Data Source Static Data	TMS	Original
1.6.2.4.1	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.6.2.4.1	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.6.2.4.1	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.4.1	5.4.1	Process TM Detected Violations	TMS	Original
1.6.2.5	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.6.2.5	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.6.2.5	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.6.2.5	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.2.5	1.1.7	Collect Vehicle Smart Probe Data	RS	Original
1.6.2.5	1.2.7.7	Process Vehicle Smart Probe Data for Output	RS	Original
1.6.2.5.1	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.6.2.5.1	1.1.2.5	Process Tag/AVL Data for Link Time Data	TMS	Original
1.6.2.5.1	1.1.6	Collect Vehicle Tag Data for Link Time Calculations	RS	Original
1.6.2.5.2	1.1.3	Generate Predictive Traffic Model	TMS	Original
1.6.2.5.2	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.3	1.1.2.4	Monitor HOV lane use	TMS	Original
1.6.3	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.3	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6.3	1.1.4.4	Update Traffic Display Map Data	TMS	Original
1.6.3	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.6.3	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.3	1.2.1	Select Strategy	TMS	Original
1.6.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.3	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3	5.3.2	Dispatch Vehicle	EM	Original
1.6.3	5.3.7	Provide Emergency Vehicle Route	EM	Original
1.6.3	5.4.1	Process TM Detected Violations	TMS	Original
1.6.3.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.2	5.3.2	Dispatch Vehicle	EM	Original
1.6.3.2	5.3.7	Provide Emergency Vehicle Route	EM	Original
1.6.3.2	5.4.1	Process TM Detected Violations	TMS	Original
1.6.3.2.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.2.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.2.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.2.2	5.3.2	Dispatch Vehicle	EM	Original
1.6.3.2.2	5.3.7	Provide Emergency Vehicle Route	EM	Original
1.6.3.2.2	5.4.1	Process TM Detected Violations	TMS	Original
1.6.3.2.2(a)	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.2.2(b)	5.4.1	Process TM Detected Violations	TMS	Original
1.6.3.2.2(c)	5.3.2	Dispatch Vehicle	EM	Original
1.6.3.2.2(c)	5.3.7	Provide Emergency Vehicle Route	EM	Original
1.6.3.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.3	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.3	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.3	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.3	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.3.3	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3.3.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.3.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.3.1	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.3.1	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.3.1	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.3.1	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.3.3.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.3.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.3.2	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.3.2	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.3.2	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.3.2	1.2.7.1	Process Indicator Output Data for Roads	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6.3.3.2	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3.3.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.3.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.3.3	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.3.3	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.3.3	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.3.3	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3.3.4	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
1.6.3.3.4	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
1.6.3.3.4	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.3.4	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.3.4	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.3.4	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.3.4	1.1.2.4	Monitor HOV lane use	TMS	Original
1.6.3.4	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.3.4	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.6.3.4	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.4	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.4	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.4	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.3.4	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3.4(a)	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.4(a)	1.2.7.1	Process Indicator Output Data for Roads	RS	Original
1.6.3.4(b)	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3.4(c)	1.2.7.5	Process Indicator Output Data for Freeways	RS	Original
1.6.3.4(d)	1.1.2.4	Monitor HOV lane use	TMS	Original
1.6.3.4(e)	1.1.4.2	Provide Traffic Operations Personnel Traffic Data Interface	TMS	Original
1.6.3.4(e)	1.1.4.4	Update Traffic Display Map Data	TMS	Original
1.6.3.4.1	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.3.4.1	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
1.6.3.4.1	1.2.4.1	Output Control Data for Roads	TMS	Original
1.6.3.4.1	1.2.4.2	Output Control Data for Freeways	TMS	Original
1.6.3.4.1	1.2.4.3	Output In-vehicle Signage Data	TMS	Original
1.6.3.5	1.2.1	Select Strategy	TMS	Original
1.6.3.6	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.3.6	1.2.1	Select Strategy	TMS	Original
1.6.4	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.4	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.4	3.1.3	Process Vehicle On-board Data	VS	Original
1.6.4	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.6.4	6.1.4	Provide ISP Operator Interface for Trip Planning Parameters	ISP	Original
1.6.4(a)	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.4(a)	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
1.6.4(a)	3.1.3	Process Vehicle On-board Data	VS	Original
1.6.4(b)	1.1.4.1	Retrieve Traffic Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.6.4(b)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.6.4(b)	6.1.4	Provide ISP Operator Interface for Trip Planning Parameters	ISP	Original
1.6.4(c)	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.6.4(c)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.6.4(c)	6.1.4	Provide ISP Operator Interface for Trip Planning Parameters	ISP	Original
1.6.4(d)	1.1.4.1	Retrieve Traffic Data	TMS	Original
1.7	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.7	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7	1.1.2.2	Process Traffic Data	TMS	Original
1.7	1.1.2.4	Monitor HOV lane use	TMS	Original
1.7	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.7	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.7	1.2.5.3	Provide Parking Lot Operator Interface	PMS	Original
1.7	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.7	1.2.7.2	Monitor Roadside Equipment Operation for Faults	RS	Original
1.7	1.2.7.4	Process In-vehicle Signage Data	RS	Original
1.7	1.2.8.1	Collect Indicator Fault Data	TMS	Original
1.7	1.2.8.2	Maintain Indicator Fault Data Store	TMS	Original
1.7	1.2.8.3	Provide Indicator Fault Interface for C and M	TMS	Original
1.7	1.2.8.4	Provide Traffic Operations Personnel Indicator Fault Interface	TMS	Original
1.7	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.7	1.3.1.3	Process Traffic Images	RS	Original
1.7	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7	1.3.2.4	Provide Planned Events Store Interface	TMS	Original
1.7	1.3.2.5	Provide Current Incidents Store Interface	TMS	Original
1.7	1.3.3	Respond to Current Incidents	TMS	Original
1.7	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7	1.3.4.2	Provide Traffic Operations Personnel Incident Data Interface	TMS	Original
1.7	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7	1.3.4.4	Update Incident Display Map Data	TMS	Original
1.7	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7	1.3.5	Manage Possible Predetermined Responses Store	TMS	Original
1.7	1.3.6	Manage Predetermined Incident Response Data	TMS	Original
1.7	1.3.7	Analyze Incident Response Log	TMS	Original
1.7	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.7	6.5.1	Collect and Update Traveler Information	ISP	Original
1.7.0	1.1.2.4	Monitor HOV lane use	TMS	Original
1.7.0	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7.0	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.7.0	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.7.0	1.2.5.3	Provide Parking Lot Operator Interface	PMS	Original
1.7.0	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.7.0	1.2.7.2	Monitor Roadside Equipment Operation for Faults	RS	Original
1.7.0	1.2.7.4	Process In-vehicle Signage Data	RS	Original
1.7.0	1.2.8.1	Collect Indicator Fault Data	TMS	Original
1.7.0	1.2.8.2	Maintain Indicator Fault Data Store	TMS	Original
1.7.0	1.2.8.3	Provide Indicator Fault Interface for C and M	TMS	Original
1.7.0	1.2.8.4	Provide Traffic Operations Personnel Indicator Fault Interface	TMS	Original
1.7.0	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.7.0	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.0	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.0	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.0	1.3.2.4	Provide Planned Events Store Interface	TMS	Original
1.7.0	1.3.2.5	Provide Current Incidents Store Interface	TMS	Original
1.7.0	1.3.3	Respond to Current Incidents	TMS	Original
1.7.0	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.0	1.3.4.2	Provide Traffic Operations Personnel Incident Data Interface	TMS	Original
1.7.0	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7.0	1.3.4.4	Update Incident Display Map Data	TMS	Original
1.7.0	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.0	1.3.5	Manage Possible Predetermined Responses Store	TMS	Original
1.7.0	1.3.6	Manage Predetermined Incident Response Data	TMS	Original
1.7.0	1.3.7	Analyze Incident Response Log	TMS	Original
1.7.0	4.4.1.8	Report Traveler Emergencies	RTS	Original
1.7.0	6.5.3	Register Yellow Pages Service Providers	ISP	Original
1.7.0	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.7.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.7.1	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1	1.1.2.2	Process Traffic Data	TMS	Original
1.7.1	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7.1	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.7.1	1.3.1.3	Process Traffic Images	RS	Original
1.7.1	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.1	1.3.3	Respond to Current Incidents	TMS	Original
1.7.1	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7.1	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1	4.4.1.8	Report Traveler Emergencies	RTS	Original
1.7.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.7.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.7.1.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.7.1.1	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.1	1.1.2.2	Process Traffic Data	TMS	Original
1.7.1.1	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7.1.1	1.3.2.1	Store Possible Incident Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.7.1.1	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7.1.1	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.7.1.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.7.1.1.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.7.1.1.1	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.1.1	1.1.2.2	Process Traffic Data	TMS	Original
1.7.1.1.1	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7.1.1.1	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.1	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7.1.1.1	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1.1.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.7.1.1.1	6.5.1	Collect and Update Traveler Information	ISP	Original
1.7.1.1.1(a)	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.7.1.1.1(a)	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.1.1(a)	1.1.2.2	Process Traffic Data	TMS	Original
1.7.1.1.1(a)	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7.1.1.1(a)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(b)	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.1.1(b)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(c)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(c)	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1.1.1(d)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(d)	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7.1.1.1(e)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(e)	6.5.1	Collect and Update Traveler Information	ISP	Original
1.7.1.1.1(f)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(f)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.7.1.1.1(g)	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.1.1(g)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.1(g)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.7.1.1.1(h)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.1.2	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.2(a)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.2(b)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.2(c)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.2(d)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.2(e)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.1.3	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.2	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.2	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.7.1.2	1.3.1.3	Process Traffic Images	RS	Original
1.7.1.2	1.3.2.1	Store Possible Incident Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.7.1.2	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.1.2	1.3.3	Respond to Current Incidents	TMS	Original
1.7.1.2	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1.2	4.4.1.8	Report Traveler Emergencies	RTS	Original
1.7.1.2.1	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.2.1	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.7.1.2.1	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.2.1	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2.1	4.4.1.8	Report Traveler Emergencies	RTS	Original
1.7.1.2.1(a)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1(b)	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.7.1.2.1(b)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1(c)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1(c)	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2.1(d)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1(d)	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2.1(e)	1.3.1.1	Analyze Traffic Data for Incidents	TMS	Original
1.7.1.2.1(e)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.2.1(e)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1(f)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.1(f)	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2.1(g)	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.2.1(g)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.2	1.3.1.3	Process Traffic Images	RS	Original
1.7.1.2.2	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.2.2	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.2	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.1.2.2	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2.2	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1.2.2(a)	1.3.1.3	Process Traffic Images	RS	Original
1.7.1.2.2(a)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.2(a)	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.1.2.2(b)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.2(b)	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.1.2.2(c)	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.1.2.2(d)	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.1.2.2(e)	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.1.2.3	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.1.2.3	1.3.3	Respond to Current Incidents	TMS	Original
1.7.2	1.3.2.1	Store Possible Incident Data	TMS	Original
1.7.2	1.3.3	Respond to Current Incidents	TMS	Original
1.7.2.1	1.3.2.1	Store Possible Incident Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.7.2.2	1.3.3	Respond to Current Incidents	TMS	Original
1.7.2.3	1.3.3	Respond to Current Incidents	TMS	Original
1.7.2.4	1.3.3	Respond to Current Incidents	TMS	Original
1.7.2.5	1.3.3	Respond to Current Incidents	TMS	Original
1.7.3	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.7.3	1.3.3	Respond to Current Incidents	TMS	Original
1.7.3	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.3.1	1.3.3	Respond to Current Incidents	TMS	Original
1.7.3.1	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.3.1(a)	1.3.3	Respond to Current Incidents	TMS	Original
1.7.3.1(b)	1.3.4.5	Manage Resources for Incidents	TMS	Original
1.7.3.2	1.3.3	Respond to Current Incidents	TMS	Original
1.7.3.3	1.1.4.3	Provide Direct Media Traffic Data Interface	TMS	Original
1.7.3.3	1.3.3	Respond to Current Incidents	TMS	Original
1.7.4	1.1.2.4	Monitor HOV lane use	TMS	Original
1.7.4	1.1.2.7	Monitor Reversible Lanes	TMS	Original
1.7.4	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.7.4	1.2.5.3	Provide Parking Lot Operator Interface	PMS	Original
1.7.4	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.7.4	1.2.7.2	Monitor Roadside Equipment Operation for Faults	RS	Original
1.7.4	1.2.7.4	Process In-vehicle Signage Data	RS	Original
1.7.4	1.2.8.1	Collect Indicator Fault Data	TMS	Original
1.7.4	1.2.8.2	Maintain Indicator Fault Data Store	TMS	Original
1.7.4	1.2.8.3	Provide Indicator Fault Interface for C and M	TMS	Original
1.7.4	1.2.8.4	Provide Traffic Operations Personnel Indicator Fault Interface	TMS	Original
1.7.4	1.3.2.2	Review and Classify Possible Incidents	TMS	Original
1.7.4	1.3.2.3	Review and Classify Planned Events	TMS	Original
1.7.4	1.3.2.4	Provide Planned Events Store Interface	TMS	Original
1.7.4	1.3.2.5	Provide Current Incidents Store Interface	TMS	Original
1.7.4	1.3.3	Respond to Current Incidents	TMS	Original
1.7.4	1.3.4.1	Retrieve Incident Data	TMS	Original
1.7.4	1.3.4.2	Provide Traffic Operations Personnel Incident Data Interface	TMS	Original
1.7.4	1.3.4.3	Provide Media Incident Data Interface	TMS	Original
1.7.4	1.3.4.4	Update Incident Display Map Data	TMS	Original
1.7.4	1.3.5	Manage Possible Predetermined Responses Store	TMS	Original
1.7.4	1.3.6	Manage Predetermined Incident Response Data	TMS	Original
1.7.4	1.3.7	Analyze Incident Response Log	TMS	Original
1.7.4	6.5.3	Register Yellow Pages Service Providers	ISP	Original
1.7.4	6.6.2.3	Provide Route Segment Data for Other Areas	ISP	Original
1.8	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.8	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8	1.1.2.2	Process Traffic Data	TMS	Original
1.8	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8	1.2.5.1	Determine Parking Lot State	PMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.8	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8	1.4.1	Provide Traffic Operations Personnel Demand Interface	TMS	Original
1.8	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8	1.4.3	Update Demand Display Map Data	TMS	Original
1.8	1.4.4	Implement Demand Management Policy	TMS	Original
1.8	1.4.5	Calculate Forecast Demand	TMS	Original
1.8	1.5.2	Process Pollution Data	EMMS	Original
1.8	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.8	4.2.3.9	Update Transit Map Data	TRMS	Original
1.8	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.8	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
1.8	6.2.5	Provide Driver Interface	VS	Original
1.8	6.3.2	Inform Traveler	RTS	Original
1.8	6.4.1	Screen Rider Requests	ISP	Original
1.8	6.4.2	Match Rider and Provider	ISP	Original
1.8	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.0	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.8.0	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.0	1.2.5.1	Determine Parking Lot State	PMS	Original
1.8.0	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.0	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.0	1.4.1	Provide Traffic Operations Personnel Demand Interface	TMS	Original
1.8.0	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.0	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.0	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.0	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.1	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.1	1.1.2.2	Process Traffic Data	TMS	Original
1.8.1	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.1	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.8.1	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.1	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8.1	1.4.1	Provide Traffic Operations Personnel Demand Interface	TMS	Original
1.8.1	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1	1.4.3	Update Demand Display Map Data	TMS	Original
1.8.1	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.1	1.5.2	Process Pollution Data	EMMS	Original
1.8.1	1.5.5	Process Vehicle Pollution Data	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.1	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.8.1	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.8.1	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
1.8.1	6.2.5	Provide Driver Interface	VS	Original
1.8.1	6.4.1	Screen Rider Requests	ISP	Original
1.8.1	6.4.2	Match Rider and Provider	ISP	Original
1.8.1	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.1.1	1.4.1	Provide Traffic Operations Personnel Demand Interface	TMS	Original
1.8.1.1	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.1	1.4.3	Update Demand Display Map Data	TMS	Original
1.8.1.1	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.1	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.1.2	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.1.2	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.8.1.2	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8.1.2	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.2	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.2	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.1.2	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.2	6.4.1	Screen Rider Requests	ISP	Original
1.8.1.2	6.4.2	Match Rider and Provider	ISP	Original
1.8.1.2(a)	1.2.5.4	Determine P+R needs for Transit Management	PMS	Original
1.8.1.2(a)	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8.1.2(b)	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.1.2(c)	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1.2(d)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.2(d)	6.4.1	Screen Rider Requests	ISP	Original
1.8.1.2(d)	6.4.2	Match Rider and Provider	ISP	Original
1.8.1.2(e)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.2(e)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.2(e)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.2(f)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.2(f)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.2(g)	6.4.1	Screen Rider Requests	ISP	Original
1.8.1.2(g)	6.4.2	Match Rider and Provider	ISP	Original
1.8.1.3	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.1.3	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.3	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.3	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.1.3	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.3	6.4.1	Screen Rider Requests	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.1.3	6.4.2	Match Rider and Provider	ISP	Original
1.8.1.3(a)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.3(b)	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.1.3(c)	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1.3(d)	6.4.1	Screen Rider Requests	ISP	Original
1.8.1.3(d)	6.4.2	Match Rider and Provider	ISP	Original
1.8.1.3(e)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.3(e)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.3(e)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.3(f)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.3(f)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.3(f)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.3(g)	6.4.1	Screen Rider Requests	ISP	Original
1.8.1.3(g)	6.4.2	Match Rider and Provider	ISP	Original
1.8.1.4	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.1.4	1.1.2.2	Process Traffic Data	TMS	Original
1.8.1.4	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.1.4	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.4	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.4	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.1.4	1.5.2	Process Pollution Data	EMMS	Original
1.8.1.4	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.1.4	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.8.1.4	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1.4(a)	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.1.4(a)	1.1.2.2	Process Traffic Data	TMS	Original
1.8.1.4(b)	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.1.4(c)	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.1.4(c)	4.2.3.7	Provide Interface for Other TRM Data	TRMS	Original
1.8.1.4(d)	1.5.2	Process Pollution Data	EMMS	Original
1.8.1.4(d)	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.8.1.5	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.1.5	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.5	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.5	1.4.5	Calculate Forecast Demand TMS		Original
1.8.1.5(a)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.5(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.5(b)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.5(b)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.1.5(c)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.1.6	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.1.6	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.6	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.6	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.8.1.6	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.1.6	6.2.5	Provide Driver Interface	VS	Original
1.8.1.6	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.1.6(a)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.1.6(a)	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
1.8.1.6(b)	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
1.8.1.6(c)	6.2.5	Provide Driver Interface	VS	Original
1.8.1.6(d)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.1.6(e)	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.1.6(f)	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.2	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.2	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.8.2	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.2	1.1.2.2	Process Traffic Data	TMS	Original
1.8.2	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.2	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.8.2	1.2.5.1	Determine Parking Lot State	PMS	Original
1.8.2	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.8.2	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.2	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8.2	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.2	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.8.2	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.8.2	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.2	4.2.3.9	Update Transit Map Data	TRMS	Original
1.8.2	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.2	6.3.2	Inform Traveler	RTS	Original
1.8.2	6.4.1	Screen Rider Requests	ISP	Original
1.8.2	6.4.2	Match Rider and Provider	ISP	Original
1.8.2	7.1.1.1	Read Tag Data for Tolls	TCS	Original
1.8.2	7.1.1.2	Calculate Vehicle Toll	TCS	Original
1.8.2	7.1.1.3	Manage Bad Toll Payment Data	TAS	Original
1.8.2	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2	7.2.1.2	Calculate Vehicle Parking Lot Charges	PMS	Original
1.8.2	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.2	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
1.8.2.1	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.8.2.1	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.2.1	1.2.5.1	Determine Parking Lot State	PMS	Original
1.8.2.1	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.8.2.1	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.1	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.1	1.4.5	Calculate Forecast Demand	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.2.1	6.4.1	Screen Rider Requests	ISP	Original
1.8.2.1	6.4.2	Match Rider and Provider	ISP	Original
1.8.2.1	7.1.1.3	Manage Bad Toll Payment Data	TAS	Original
1.8.2.1(a)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.1(b)	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.2.1(c)	1.2.5.1	Determine Parking Lot State	PMS	Original
1.8.2.1(c)	1.2.5.2	Coordinate Other Parking Data	PMS	Original
1.8.2.1(d)	6.4.1	Screen Rider Requests	ISP	Original
1.8.2.1(d)	6.4.2	Match Rider and Provider	ISP	Original
1.8.2.1(e)	1.1.1.3	Process Environmental Sensor Data	RS	Original
1.8.2.1(f)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.1(f)	7.1.1.3	Manage Bad Toll Payment Data	TAS	Original
1.8.2.10	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.2.10	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.8.2.10	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.10	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.10	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.10	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2.10	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
1.8.2.10(a)	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2.10(a)	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
1.8.2.10(b)	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.8.2.10(c)	1.1.2.1	Process Traffic Data for Storage	TMS	Original
1.8.2.11	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.2.11	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.2.11	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.11	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.11	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.11(a)	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.2.11(b)	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.2.12	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.12	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.12	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.12	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2.12	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.2.12(a)	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2.12(b)	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
1.8.2.13	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.2.13	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8.2.13	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.13	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.13	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.13	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.2.13	7.1.1.1	Read Tag Data for Tolls	TCS	Original
1.8.2.13	7.1.1.2	Calculate Vehicle Toll	TCS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.2.13	7.2.1.2	Calculate Vehicle Parking Lot Charges	PMS	Original
1.8.2.13(a)	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
1.8.2.13(b)	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.2.13(c)	7.1.1.1	Read Tag Data for Tolls	TCS	Original
1.8.2.13(c)	7.1.1.2	Calculate Vehicle Toll	TCS	Original
1.8.2.13(c)	7.2.1.2	Calculate Vehicle Parking Lot Charges	PMS	Original
1.8.2.14	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.14	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.14	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.14(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.14(b)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.14(c)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.2	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.2	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.2	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.2	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.8.2.2	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.8.2.2(a)	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.8.2.2(b)	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.8.2.2(c)	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.8.2.3	1.1.2.2	Process Traffic Data	TMS	Original
1.8.2.3	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.3	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.3	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.2.3	6.3.2	Inform Traveler	RTS	Original
1.8.2.3(a)	1.1.2.2	Process Traffic Data	TMS	Original
1.8.2.3(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.3(a)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.3(a)	6.3.2	Inform Traveler	RTS	Original
1.8.2.3(b)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.3(c)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.3(c)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.2.3(d)	1.1.2.2	Process Traffic Data	TMS	Original
1.8.2.3(d)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.4	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.2.4	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.4	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.4	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.4	4.2.3.9	Update Transit Map Data	TRMS	Original
1.8.2.4	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.2.4	6.4.1	Screen Rider Requests	ISP	Original
1.8.2.4	6.4.2	Match Rider and Provider	ISP	Original
1.8.2.4	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2.4(a)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.2.4(b)	1.1.2.4	Monitor HOV lane use	TMS	Original
1.8.2.4(c)	4.2.3.9	Update Transit Map Data	TRMS	Original
1.8.2.4(d)	6.4.1	Screen Rider Requests	ISP	Original
1.8.2.4(d)	6.4.2	Match Rider and Provider	ISP	Original
1.8.2.4(e)	7.1.1.9	Manage Toll Financial Processing	TAS	Original
1.8.2.4(f)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.4(f)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.4(f)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
1.8.2.4(g)	6.4.1	Screen Rider Requests	ISP	Original
1.8.2.4(g)	6.4.2	Match Rider and Provider	ISP	Original
1.8.2.5	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.5	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.5	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.5(a)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.5(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.5(a)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.5(b)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.5(b)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.5(b)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.5(c)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.5(c)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.5(c)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.5(d)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.5(d)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.5(d)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.5(e)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.5(e)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.5(e)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.6	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.6	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.6	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.7	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.7	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.7	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.7(a)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.7(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.7(a)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.7(b)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.7(b)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.7(b)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.7(c)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.7(c)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.7(c)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.8	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.2.8	1.4.2	Collect Demand Forecast Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.8.2.8	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.8	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.8(a)	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.2.8(a)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.8(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.8(a)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.8(b)	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.2.8(c)	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.2.9	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.9	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.9	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.9(a)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.9(a)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.9(a)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.9(b)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.9(b)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.9(b)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.2.9(c)	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.2.9(c)	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.2.9(c)	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.3	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.8.3	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.3	1.2.5.1	Determine Parking Lot State	PMS	Original
1.8.3	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.3	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.3	1.4.2	Collect Demand Forecast Data	TMS	Original
1.8.3	1.4.4	Implement Demand Management Policy	TMS	Original
1.8.3	1.4.5	Calculate Forecast Demand	TMS	Original
1.8.3	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.3.1	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.8.3.1	1.1.1.2	Collect and Process Sensor Fault Data	TMS	Original
1.8.3.1	1.2.5.1	Determine Parking Lot State	PMS	Original
1.8.3.1	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.3.1	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.3.1	1.5.5	Process Vehicle Pollution Data	RS	Original
1.8.3.1(a)	1.2.5.6	Calculate Parking Lot Occupancy	PMS	Original
1.8.3.1(b)	1.1.1.1	Process Traffic Sensor Data	RS	Original
1.8.3.1(c)	1.2.7.3	Manage Indicator Preemptions	RS	Original
1.8.3.1(d)	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.9	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.0	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.9.0	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.0	1.5.2	Process Pollution Data	EMMS	Original
1.9.0	1.5.3	Update Pollution Display Map Data	EMMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.9.0	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.0	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.0	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.0	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
1.9.1	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.1	1.5.2	Process Pollution Data	EMMS	Original
1.9.1	1.5.3	Update Pollution Display Map Data	EMMS	Original
1.9.1	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.1	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
1.9.1.1	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.1	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.1.1	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.1.1	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.1.2	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.1.2	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.1.3	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.1.3	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.2	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.1.2	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.2	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.1.2	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.2	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
1.9.1.2.1	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.1.2.1	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.2.1	1.5.3	Update Pollution Display Map Data	EMMS	Original
1.9.1.2.1	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.1.2.1	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.2.1	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
1.9.1.2.2	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.1.2.2	1.5.2	Process Pollution Data	EMMS	Original
1.9.1.2.2	1.5.3	Update Pollution Display Map Data	EMMS	Original
1.9.1.2.2	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.1.2.2	1.5.6	Detect Roadside Pollution Levels	RS	Original
1.9.1.2.2	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
1.9.2	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.9.2	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.1	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.9.2.1	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.1.1	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.1.2	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.1.3	1.1.2.6	Process Collected Vehicle Smart Probe Data	RS	Original
1.9.2.1.4	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.1.5	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.2	1.5.5	Process Vehicle Pollution Data	RS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
1.9.2.2.1	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.2.2.1	1.5.3	Update Pollution Display Map Data	EMMS	Original
1.9.2.2.1	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.2.2.1	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.2.1	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
1.9.2.2.2	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.2.3	1.5.1	Provide Traffic Operations Personnel Pollution Data Interface	EMMS	Original
1.9.2.2.3	1.5.3	Update Pollution Display Map Data	EMMS	Original
1.9.2.2.3	1.5.4	Manage Pollution State Data Store	EMMS	Original
1.9.2.2.3	1.5.5	Process Vehicle Pollution Data	RS	Original
1.9.2.2.3	1.5.8	Manage Pollution Reference Data Store	EMMS	Original
2.0	1.3.1.3	Process Traffic Images	RS	Original
2.0	4.1.1	Process Transit Vehicle Sensor Trip Data	TRVS	Original
2.0	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.0	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.0	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.0	4.1.2.4	Provide Transit Vehicle Correction Data Output Interface	TRMS	Original
2.0	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.0	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.0	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.0	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.0	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.0	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.0	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
2.0	4.1.9	Process Transit Vehicle Sensor Maintenance Data	TRVS	Original
2.0	4.2.1.1	Process Demand Responsive Transit Trip Request	TRMS	Original
2.0	4.2.1.2	Compute Demand Responsive Transit Vehicle Availability	TRMS	Original
2.0	4.2.1.3	Generate Demand Responsive Transit Schedule and Routes	TRMS	Original
2.0	4.2.1.4	Confirm Demand Responsive Transit Schedule and Route	TRMS	Original
2.0	4.2.1.5	Process Demand Responsive Transit Vehicle Availability Data	TRVS	Original
2.0	4.2.1.6	Provide Demand Responsive Transit Driver Interface	TRVS	Original
2.0	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.0	4.2.3.1	Generate Transit Routes	TRMS	Original
2.0	4.2.3.2	Generate Schedules	TRMS	Original
2.0	4.2.3.3	Produce Transit Service Data for External Use	TRMS	Original
2.0	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.0	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.0	4.2.3.6	Produce Transit Service Data for Manage Transit Use	TRMS	Original
2.0	4.2.3.9	Update Transit Map Data	TRMS	Original
2.0	4.3.1	Monitor Transit Vehicle Condition	TRMS	Original
2.0	4.3.2	Generate Transit Vehicle Maintenance Schedules	TRMS	Original
2.0	4.3.3	Generate Technician Work Assignments	TRMS	Original
2.0	4.3.4	Monitor And Verify Maintenance Activity	TRMS	Original
2.0	4.3.5	Report Transit Vehicle Information	TRMS	Original
2.0	4.3.6	Update Transit Vehicle Information	TRMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.0	4.3.7	Manage Transit Vehicle Operations Data Store	TRMS	Original
2.0	4.4.1.1	Manage Transit Security	TRMS	Original
2.0	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.0	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.0	4.4.1.4	Provide Transit External Interface for Emergencies	TRMS	Original
2.0	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.0	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.0	4.4.1.7	Monitor Secure Area	RTS	Original
2.0	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.0	4.4.2	Coordinate Multiple Agency Responses to Incidents	TRMS	Original
2.0	4.4.3	Generate Responses for Incidents	TRMS	Original
2.0	4.5.1	Assess Transit Driver Performance	TRMS	Original
2.0	4.5.2	Assess Transit Driver Availability	TRMS	Original
2.0	4.5.3	Access Transit Driver Cost Effectiveness	TRMS	Original
2.0	4.5.4	Assess Transit Driver Eligibility	TRMS	Original
2.0	4.5.5	Generate Transit Driver Route Assignments	TRMS	Original
2.0	4.5.6	Update Transit Driver Information	TRMS	Original
2.0	4.5.7	Report Transit Driver Information	TRMS	Original
2.0	4.5.8	Provide Transit Driver Information Store Interface	TRMS	Original
2.0	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.0	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.0	5.1.5	Manage Emergency Service Allocation Store	EM	Original
2.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
2.0	6.1.3	Manage Multi-Modal Service Provider Interface	ISP	Original
2.0	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.0	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.0	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.0	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.0	6.2.4	Collect Yellow Pages Data	ISP	Original
2.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.0	6.3.2	Inform Traveler	RTS	Original
2.0	6.3.3	Provide Traveler Kiosk Interface	RTS	Original
2.0	6.4.4	Confirm Traveler Rideshare Request	ISP	Original
2.0	6.8.3.2	Provide Traveler with Personal Travel Information	PIAS	Original
2.0	6.8.3.3	Provide Traveler Personal Interface	PIAS	Original
2.0	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
2.1	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.0	4.1.1	Process Transit Vehicle Sensor Trip Data	TRVS	Original
2.1.0	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.1.0	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.0	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.0	4.1.2.4	Provide Transit Vehicle Correction Data Output Interface	TRMS	Original
2.1.0	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.0	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.1.0	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.0	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.0	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.0	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.1.0	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
2.1.0	4.1.9	Process Transit Vehicle Sensor Maintenance Data	TRVS	Original
2.1.0	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.1.0	4.2.3.1	Generate Transit Routes	TRMS	Original
2.1.0	4.2.3.2	Generate Schedules	TRMS	Original
2.1.0	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.0	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.1.0	4.2.3.9	Update Transit Map Data	TRMS	Original
2.1.0	4.3.1	Monitor Transit Vehicle Condition	TRMS	Original
2.1.0	4.3.2	Generate Transit Vehicle Maintenance Schedules	TRMS	Original
2.1.0	4.3.3	Generate Technician Work Assignments	TRMS	Original
2.1.0	4.3.4	Monitor And Verify Maintenance Activity	TRMS	Original
2.1.0	4.3.5	Report Transit Vehicle Information	TRMS	Original
2.1.0	4.3.6	Update Transit Vehicle Information	TRMS	Original
2.1.0	4.3.7	Manage Transit Vehicle Operations Data Store	TRMS	Original
2.1.0	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.1.0	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.0	4.4.1.4	Provide Transit External Interface for Emergencies	TRMS	Original
2.1.0	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.0	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.1.0	4.4.1.7	Monitor Secure Area	RTS	Original
2.1.0	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.1.0	4.5.1	Assess Transit Driver Performance	TRMS	Original
2.1.0	4.5.2	Assess Transit Driver Availability	TRMS	Original
2.1.0	4.5.3	Access Transit Driver Cost Effectiveness	TRMS	Original
2.1.0	4.5.4	Assess Transit Driver Eligibility	TRMS	Original
2.1.0	4.5.5	Generate Transit Driver Route Assignments	TRMS	Original
2.1.0	4.5.6	Update Transit Driver Information	TRMS	Original
2.1.0	4.5.7	Report Transit Driver Information	TRMS	Original
2.1.0	4.5.8	Provide Transit Driver Information Store Interface	TRMS	Original
2.1.1	4.1.1	Process Transit Vehicle Sensor Trip Data	TRVS	Original
2.1.1	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.1.1	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.1	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.1	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.1	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.1	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.1	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.1.1	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.1.1	4.1.9	Process Transit Vehicle Sensor Maintenance Data	TRVS	Original
2.1.1	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.1.1	4.1.1	Process Transit Vehicle Sensor Trip Data	TRVS	Original
2.1.1.1	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.1.1	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.1.1	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.1	4.1.9	Process Transit Vehicle Sensor Maintenance Data	TRVS	Original
2.1.1.1(a)	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.1(b)	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.1(c)	4.1.9	Process Transit Vehicle Sensor Maintenance Data	TRVS	Original
2.1.1.1(d)	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.1.1(e)	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.1(f)	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.1.2	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.1.1.2	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.1.2	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1.2	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.1.2	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.1.2	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.1.2	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.2	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.1.2.1	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.1.1.2.1	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.1.2.1	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1.2.1	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.1.2.1	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.1.2.1	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.1.2.1	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.2.1	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.1.2.1.1	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.1.1.2.1.1	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.1.2.1.2	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.1.2.1.3	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1.2.1.3	4.1.5	Provide Transit Vehicle Status Information	TRMS	Original
2.1.1.2.1.4	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.1.2.1.4	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1.2.1.4	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.1.2.1.4	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.1.2.1.4(a)	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1.2.1.4(b)	4.1.2.3	Provide Transit Vehicle Driver Interface	TRVS	Original
2.1.1.2.2	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.1.2.2	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.1.2.2	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.1.2.3	4.1.2.5	Request Transit Vehicle Preemptions	TRVS	Original
2.1.1.2.3	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.1.1.2.4	4.1.2.1	Determine Transit Vehicle Deviation and ETA	TRVS	Original
2.1.1.2.4	4.1.2.2	Determine Transit Vehicle Corrective Instructions	TRVS	Original
2.1.1.2.4	4.1.4	Manage Transit Vehicle Deviations	TRMS	Original
2.1.1.2.4	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.2	4.1.2.4	Provide Transit Vehicle Correction Data Output Interface	TRMS	Original
2.1.2	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.2	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.2	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.1.2	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
2.1.2	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.1.2	4.2.3.1	Generate Transit Routes	TRMS	Original
2.1.2	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.1.2	4.2.3.9	Update Transit Map Data	TRMS	Original
2.1.2	4.3.1	Monitor Transit Vehicle Condition	TRMS	Original
2.1.2	4.3.2	Generate Transit Vehicle Maintenance Schedules	TRMS	Original
2.1.2	4.3.3	Generate Technician Work Assignments	TRMS	Original
2.1.2	4.3.4	Monitor And Verify Maintenance Activity	TRMS	Original
2.1.2	4.3.5	Report Transit Vehicle Information	TRMS	Original
2.1.2	4.3.6	Update Transit Vehicle Information	TRMS	Original
2.1.2	4.3.7	Manage Transit Vehicle Operations Data Store	TRMS	Original
2.1.2	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.2.1	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.1.2.1	4.2.3.1	Generate Transit Routes	TRMS	Original
2.1.2.1	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2.1	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.1	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.1.2.1	4.2.3.9	Update Transit Map Data	TRMS	Original
2.1.2.1	4.3.1	Monitor Transit Vehicle Condition	TRMS	Original
2.1.2.1	4.3.2	Generate Transit Vehicle Maintenance Schedules	TRMS	Original
2.1.2.1	4.3.3	Generate Technician Work Assignments	TRMS	Original
2.1.2.1	4.3.4	Monitor And Verify Maintenance Activity	TRMS	Original
2.1.2.1	4.3.5	Report Transit Vehicle Information	TRMS	Original
2.1.2.1	4.3.6	Update Transit Vehicle Information	TRMS	Original
2.1.2.1	4.3.7	Manage Transit Vehicle Operations Data Store	TRMS	Original
2.1.2.1	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.2.1.1	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.1.2.1.1	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2.1.1	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.1.1	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.1.2.1.2	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.1.2	4.2.3.9	Update Transit Map Data	TRMS	Original
2.1.2.1.2	4.3.1	Monitor Transit Vehicle Condition	TRMS	Original
2.1.2.1.2	4.3.2	Generate Transit Vehicle Maintenance Schedules	TRMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.1.2.1.2	4.3.3	Generate Technician Work Assignments	TRMS	Original
2.1.2.1.2	4.3.4	Monitor And Verify Maintenance Activity	TRMS	Original
2.1.2.1.2	4.3.5	Report Transit Vehicle Information	TRMS	Original
2.1.2.1.2	4.3.6	Update Transit Vehicle Information	TRMS	Original
2.1.2.1.2	4.3.7	Manage Transit Vehicle Operations Data Store	TRMS	Original
2.1.2.1.2	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.2.2	4.1.2.4	Provide Transit Vehicle Correction Data Output Interface	TRMS	Original
2.1.2.2	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.2.2	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.2.2	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.1.2.2	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
2.1.2.2	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2.2	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.2	4.2.3.9	Update Transit Map Data	TRMS	Original
2.1.2.2.1	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.2.2.1	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.2.2.1	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
2.1.2.2.1	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2.2.1(a)	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.2.2.1(b)	4.1.3	Provide Transit Vehicle Location Data	TRVS	Original
2.1.2.2.1(c)	4.1.6	Manage Transit Vehicle Operations Data	TRMS	Original
2.1.2.2.2	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2.2.2	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.2.2	4.2.3.9	Update Transit Map Data	TRMS	Original
2.1.2.2.3	4.2.3.2	Generate Schedules	TRMS	Original
2.1.2.2.4	4.1.2.4	Provide Transit Vehicle Correction Data Output Interface	TRMS	Original
2.1.2.2.4	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.1.2.2.4	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.2.4(a)	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.2.4(b)	4.2.3.4	Provide Transit Fleet Manager Interface for Services Generation	TRMS	Original
2.1.2.2.5	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
2.1.2.2.5	4.2.3.2	Generate Schedules	TRMS	Original
2.1.4	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.1.4	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.4	4.4.1.4	Provide Transit External Interface for Emergencies	TRMS	Original
2.1.4	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.1.4	4.4.1.7	Monitor Secure Area	RTS	Original
2.1.4	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.1.4.1	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.1.4.1	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.4.2	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4.3	4.4.1.4	Provide Transit External Interface for Emergencies	TRMS	Original
2.1.4.3	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.1.4.3	4.4.1.7	Monitor Secure Area	RTS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.1.4.3	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.1.4.4	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.1.4.4	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.1.4.4	4.4.1.4	Provide Transit External Interface for Emergencies	TRMS	Original
2.1.4.4	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4.4	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.1.4.4	4.4.1.7	Monitor Secure Area	RTS	Original
2.1.4.4	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.1.4.4(a)	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4.4(b)	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4.4(c)	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4.4(d)	4.4.1.4	Provide Transit External Interface for Emergencies	TRMS	Original
2.1.4.4(d)	4.4.1.5	Provide Transit Driver Interface for Emergencies	TRVS	Original
2.1.4.5	9	Satisfy Implementation Requirements	N/A	Original
2.2	1.3.1.3	Process Traffic Images	RS	Original
2.2	5.1.5	Manage Emergency Service Allocation Store	EM	Original
2.2	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
2.2.0	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.2.0	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.2.0	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.2.0	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.0	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.0	6.1.3	Manage Multi-Modal Service Provider Interface	ISP	Original
2.2.0	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.0	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.0	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.0	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.0	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.1	1.3.1.3	Process Traffic Images	RS	Original
2.2.1	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.2.1	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.2.1	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.2.1	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1	5.1.5	Manage Emergency Service Allocation Store	EM	Original
2.2.1	6.1.3	Manage Multi-Modal Service Provider Interface	ISP	Original
2.2.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.1	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.2.1	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
2.2.1.1	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.2.1.1	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.2.1.1	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.2.1.1	5.1.5	Manage Emergency Service Allocation Store	EM	Original
2.2.1.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.1.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.1.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.1.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.1.1	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.1	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.1.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.1.1	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
2.2.1.1.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.1.1.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.1.1.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.1.1.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.1.1.1	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.1.1	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.1.1.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.1.1.2	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.2.1.1.3	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.2.1.1.3	6.1.3	Manage Multi-Modal Service Provider Interface	ISP	Original
2.2.1.1.4	4.1.7	Provide Transit Vehicle Deviation Data Output Interface	TRMS	Original
2.2.1.1.4	4.2.2	Provide Transit Plans Store Interface	TRMS	Original
2.2.1.1.4	4.2.3.5	Manage Transit Operational Data Store	TRMS	Original
2.2.1.1.4	5.1.5	Manage Emergency Service Allocation Store	EM	Original
2.2.1.1.4	6.1.3	Manage Multi-Modal Service Provider Interface	ISP	Original
2.2.1.1.4	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
2.2.1.2	1.3.1.3	Process Traffic Images	RS	Original
2.2.1.2	4.4.1.7	Monitor Secure Area	RTS	Original
2.2.1.2	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1	1.3.1.3	Process Traffic Images	RS	Original
2.2.1.2.1	4.4.1.7	Monitor Secure Area	RTS	Original
2.2.1.2.1	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1.1	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.1	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1.1.1	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.1.1	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1.1.2	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.1.2	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1.1.2(a)	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.1.2(b)	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.2.1.2.1.1.3	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.1.3	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1.2	4.4.1.7	Monitor Secure Area	RTS	Original
2.2.1.2.1.2	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.2	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.1.2(a)	4.4.1.7	Monitor Secure Area	RTS	Original
2.2.1.2.1.2(b)	4.4.1.7	Monitor Secure Area	RTS	Original
2.2.1.2.1.2(c)	4.4.1.7	Monitor Secure Area	RTS	Original
2.2.1.2.1.3	1.3.1.3	Process Traffic Images	RS	Original
2.2.1.2.1.3	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.1.3	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.2	1.3.1.3	Process Traffic Images	RS	Original
2.2.1.2.2	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
2.2.1.2.2	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.2	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.2	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
2.2.1.2.2	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.2.2	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
2.2.1.2.2	6.7.2.2	Process Vehicle Location Data	VS	Original
2.2.1.2.2.1	1.3.1.3	Process Traffic Images	RS	Original
2.2.1.2.2.1	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
2.2.1.2.2.1	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.2.1	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.2.1	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
2.2.1.2.2.1	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.2.2.1	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
2.2.1.2.2.1	6.7.2.2	Process Vehicle Location Data	VS	Original
2.2.1.2.2.2	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
2.2.1.2.2.2	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.2.2	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.2.2	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
2.2.1.2.2.2	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.2.2.2	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
2.2.1.2.2.2	6.7.2.2	Process Vehicle Location Data	VS	Original
2.2.1.2.2.3	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
2.2.1.2.2.3	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.2.3	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.2.3	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
2.2.1.2.2.3	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.2.2.3	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
2.2.1.2.2.3	6.7.2.2	Process Vehicle Location Data	VS	Original
2.2.1.2.2.4	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
2.2.1.2.2.4	4.7.1.1	Provide Transit User Roadside Data Interface	RTS	Original
2.2.1.2.2.4	4.7.1.2	Provide Transit User Roadside Vehicle Data Interface	RTS	Original
2.2.1.2.2.4	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.2.1.2.2.4	6.2.2	Prepare and Output In-vehicle Displays	VS	Original
2.2.1.2.2.4	6.2.3	Provide Transit User Advisory Interface	TRVS	Original
2.2.1.2.2.4	6.7.2.2	Process Vehicle Location Data	VS	Original
2.2.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.2	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.2.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.2.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.2.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.2.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.2.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.2.3	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.2.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.2.3(a)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.2.3(b)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.2.3(c)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.3	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.3	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.3.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.3.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.3.1	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.3.1.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.3.1.1	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.3.1.1	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.1.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
2.2.3.1.1(a)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1.1(b)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1.1(c)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1.1(d)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1.2	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.1.2	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
2.2.3.1.2	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.3.1.2	6.2.1.4	Provide Traffic and Transit Broadcast Messages	ISP	Original
2.2.3.1.2(a)	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.1.2(b)	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.2	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.2	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.2.3.2	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.2.1	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.2.1	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.3.2.1	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.2.2	6.2.1.1	Collect Traffic Data for Advisory Messages	ISP	Original
2.2.3.2.2	6.2.1.3	Collect Transit Data for Advisory Messages	ISP	Original
2.2.3.2.2	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.2.2(a)	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.2.2(b)	6.2.4	Collect Yellow Pages Data	ISP	Original
2.2.3.2.2(c)	6.2.4	Collect Yellow Pages Data	ISP	Original
2.4	1.3.1.3	Process Traffic Images	RS	Original
2.4.0	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.0	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.4.0	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.4.0	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.0	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.0	4.4.2	Coordinate Multiple Agency Responses to Incidents	TRMS	Original
2.4.0	4.4.3	Generate Responses for Incidents	TRMS	Original
2.4.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
2.4.1	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.1	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.4.1	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.4.1.1	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.1.1	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1.1	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.1(a)	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1.1(a)	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.1(b)	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1.1(b)	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.1(c)	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1.1(c)	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.1(d)	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1.1(d)	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.1(e)	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.1.1(e)	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.2	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.1.2	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.4.1.2	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.1.2	4.4.1.8	Report Traveler Emergencies	RTS	Original
2.4.1.3	4.4.1.2	Manage Transit Emergencies	TRVS	Original
2.4.1.3	4.4.1.6	Collect Transit Vehicle Emergency Information	TRMS	Original
2.4.2	1.3.1.3	Process Traffic Images	RS	Original
2.4.2	4.4.1.1	Manage Transit Security	TRMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
2.4.2	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.2.1	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.2.1	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.2.2	1.3.1.3	Process Traffic Images	RS	Original
2.4.2.2	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.2.2	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.4	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.4	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.4.4	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.4	4.4.2	Coordinate Multiple Agency Responses to Incidents	TRMS	Original
2.4.4	4.4.3	Generate Responses for Incidents	TRMS	Original
2.4.4.1	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.4.1	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.4.4.1	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.4.2	4.4.1.1	Manage Transit Security	TRMS	Original
2.4.4.2	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.4.4.2	4.4.1.7	Monitor Secure Area	RTS	Original
2.4.4.3	4.4.1.3	Provide Transit System Operator Security Interface	TRMS	Original
2.4.4.3	4.4.2	Coordinate Multiple Agency Responses to Incidents	TRMS	Original
2.4.4.4	4.4.3	Generate Responses for Incidents	TRMS	Original
2.4.4.5	4.4.2	Coordinate Multiple Agency Responses to Incidents	TRMS	Original
3.0	1.4.2	Collect Demand Forecast Data	TMS	Original
3.0	1.4.4	Implement Demand Management Policy	TMS	Original
3.0	1.4.5	Calculate Forecast Demand	TMS	Original
3.0	4.6.1	Detect Transit User on Vehicle	TRVS	Original
3.0	4.6.2	Determine Transit User Needs on Vehicle	TRVS	Original
3.0	4.6.3	Determine Transit Fare on Vehicle	TRVS	Original
3.0	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.0	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
3.0	4.6.6	Update Transit Vehicle Fare Data	TRVS	Original
3.0	4.6.7	Provide Transit Vehicle Passenger Data	TRVS	Original
3.0	4.6.8	Manage Transit Vehicle Advanced Payments	TRMS	Original
3.0	4.7.2.1	Detect Transit User at Roadside	RTS	Original
3.0	4.7.2.2	Determine Transit User Needs at Roadside	RTS	Original
3.0	4.7.2.3	Determine Transit Fare at Roadside	RTS	Original
3.0	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.0	4.7.2.5	Provide Transit User Roadside Fare Interface	RTS	Original
3.0	4.7.2.6	Update Roadside Transit Fare Data	RTS	Original
3.0	4.7.2.7	Provide Transit Roadside Passenger Data	RTS	Original
3.0	5.4.2	Process Violations for Tolls	TAS	Original
3.0	5.4.3	Process Parking Lot Violations	PMS	Original
3.0	5.4.4	Process Fare Payment Violations	TRMS	Original
3.0	5.4.5	Process Vehicle Fare Collection Violations	TRMS	Original
3.0	5.4.6	Process CV Violations	CVAS	Original
3.0	5.4.7	Process Roadside Fare Collection Violations	TRMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
3.0	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
3.0	7.1.1.1	Read Tag Data for Tolls	TCS	Original
3.0	7.1.1.10	Determine Advanced Toll Bill	TCS	Original
3.0	7.1.1.2	Calculate Vehicle Toll	TCS	Original
3.0	7.1.1.3	Manage Bad Toll Payment Data	TAS	Original
3.0	7.1.1.4	Check for Advanced Tolls Payment	TCS	Original
3.0	7.1.1.5	Bill Driver for Tolls	TCS	Original
3.0	7.1.1.6	Collect Probe Data From Toll Transactions	TAS	Original
3.0	7.1.1.7	Update Toll Price Data	TAS	Original
3.0	7.1.1.8	Register for Advanced Toll Payment	TAS	Original
3.0	7.1.1.9	Manage Toll Financial Processing	TAS	Original
3.0	7.1.2	Produce Roadside Displays	TCS	Original
3.0	7.1.3	Obtain Toll Violator Image	TCS	Original
3.0	7.1.4	Provide Driver Toll Payment Interface	VS	Original
3.0	7.1.5	Detect Vehicle for Tolls	TCS	Original
3.0	7.1.6	Distribute Advanced Charges and Fares	ISP	Original
3.0	7.1.7	Provide Payment Instrument Interface for Tolls	VS	Original
3.0	7.2.1.1	Read Parking Lot Tag Data	PMS	Original
3.0	7.2.1.10	Determine Advanced Charges	PMS	Original
3.0	7.2.1.2	Calculate Vehicle Parking Lot Charges	PMS	Original
3.0	7.2.1.3	Collect Bad Charge Payment Data	PMS	Original
3.0	7.2.1.4	Check for Advanced Parking Lot Payment	PMS	Original
3.0	7.2.1.5	Bill Driver for Parking Lot Charges	PMS	Original
3.0	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
3.0	7.2.1.7	Update Parking Lot Data	PMS	Original
3.0	7.2.1.8	Register for Advanced Parking Lot Payment	PMS	Original
3.0	7.2.1.9	Manage Parking Lot Reservations	PMS	Original
3.0	7.2.2	Produce Parking Lot Displays	PMS	Original
3.0	7.2.3	Obtain Parking Lot Violator Image	PMS	Original
3.0	7.2.4	Provide Driver Parking Lot Payment Interface	VS	Original
3.0	7.2.5	Detect Vehicle for Parking Lot Payment	PMS	Original
3.0	7.2.6	Distribute Advanced Tolls and Fares	ISP	Original
3.0	7.2.7	Provide Payment Instrument Interface for Parking	VS	Original
3.0	7.3.1.1	Register for Advanced Transit Fare Payment	TRMS	Original
3.0	7.3.1.2	Determine Advanced Transit Fares	TRMS	Original
3.0	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
3.0	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.0	7.3.1.5	Bill Transit User for Transit Fare	TRMS	Original
3.0	7.3.1.6	Collect Bad Transit Fare Payment Data	TRMS	Original
3.0	7.3.1.7	Update Transit Fare Data	TRMS	Original
3.0	7.3.2	Distribute Advanced Tolls and Parking Lot Charges	ISP	Original
3.0	7.3.3	Get Transit User Image for Violation	TRMS	Original
3.0	7.3.4	Provide Remote Terminal Payment Instrument Interface	RTS	Original
3.0	7.3.5	Provide Transit Vehicle Payment Instrument Interface	TRVS	Original
3.0	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
3.0	7.4.1.3	Process Driver Map Update Payments	ISP	Original
3.0	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
3.0	7.4.1.6	Process Traveler Trip and Other Services Payments	ISP	Original
3.0	7.4.1.7	Collect Payment Transaction Records	ISP	Original
3.0	7.4.1.8	Process Traveler Rideshare Payments	ISP	Original
3.0	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.0	7.4.3	Route Traveler Advanced Payments	ISP	Original
3.0	7.5.1	Provide Vehicle Payment Instrument Interface	VS	Original
3.0	7.5.2	Provide Transit User Roadside Payment Instrument Interface	RTS	Original
3.0	7.5.3	Provide Personal Payment Instrument Interface	PIAS	Original
3.0	7.5.4	Provide Commercial Fleet Payment Instrument Interface	FMS	Original
3.0	7.5.5	Provide Traveler Kiosk Payment Instrument Interface	RTS	Original
3.1	1.4.2	Collect Demand Forecast Data	TMS	Original
3.1	1.4.4	Implement Demand Management Policy	TMS	Original
3.1	1.4.5	Calculate Forecast Demand	TMS	Original
3.1	5.4.2	Process Violations for Tolls	TAS	Original
3.1	5.4.3	Process Parking Lot Violations	PMS	Original
3.1	5.4.4	Process Fare Payment Violations	TRMS	Original
3.1	5.4.5	Process Vehicle Fare Collection Violations	TRMS	Original
3.1	5.4.6	Process CV Violations	CVAS	Original
3.1	5.4.7	Process Roadside Fare Collection Violations	TRMS	Original
3.1	7.1.1.1	Read Tag Data for Tolls	TCS	Original
3.1	7.1.1.10	Determine Advanced Toll Bill	TCS	Original
3.1	7.1.1.2	Calculate Vehicle Toll	TCS	Original
3.1	7.1.1.3	Manage Bad Toll Payment Data	TAS	Original
3.1	7.1.1.4	Check for Advanced Tolls Payment	TCS	Original
3.1	7.1.1.5	Bill Driver for Tolls	TCS	Original
3.1	7.1.1.6	Collect Probe Data From Toll Transactions	TAS	Original
3.1	7.1.1.7	Update Toll Price Data	TAS	Original
3.1	7.1.1.8	Register for Advanced Toll Payment	TAS	Original
3.1	7.1.1.9	Manage Toll Financial Processing	TAS	Original
3.1	7.1.2	Produce Roadside Displays	TCS	Original
3.1	7.1.3	Obtain Toll Violator Image	TCS	Original
3.1	7.1.4	Provide Driver Toll Payment Interface	VS	Original
3.1	7.1.5	Detect Vehicle for Tolls	TCS	Original
3.1	7.1.6	Distribute Advanced Charges and Fares	ISP	Original
3.1	7.1.7	Provide Payment Instrument Interface for Tolls	VS	Original
3.1	7.2.1.1	Read Parking Lot Tag Data	PMS	Original
3.1	7.2.1.10	Determine Advanced Charges	PMS	Original
3.1	7.2.1.2	Calculate Vehicle Parking Lot Charges	PMS	Original
3.1	7.2.1.3	Collect Bad Charge Payment Data	PMS	Original
3.1	7.2.1.4	Check for Advanced Parking Lot Payment	PMS	Original
3.1	7.2.1.5	Bill Driver for Parking Lot Charges	PMS	Original
3.1	7.2.1.6	Manage Parking Lot Financial Processing	PMS	Original
3.1	7.2.1.7	Update Parking Lot Data	PMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
3.1	7.2.1.8	Register for Advanced Parking Lot Payment	PMS	Original
3.1	7.2.1.9	Manage Parking Lot Reservations	PMS	Original
3.1	7.2.2	Produce Parking Lot Displays	PMS	Original
3.1	7.2.3	Obtain Parking Lot Violator Image	PMS	Original
3.1	7.2.4	Provide Driver Parking Lot Payment Interface	VS	Original
3.1	7.2.5	Detect Vehicle for Parking Lot Payment	PMS	Original
3.1	7.2.6	Distribute Advanced Tolls and Fares	ISP	Original
3.1	7.2.7	Provide Payment Instrument Interface for Parking	VS	Original
3.1	7.3.1.1	Register for Advanced Transit Fare Payment	TRMS	Original
3.1	7.3.1.2	Determine Advanced Transit Fares	TRMS	Original
3.1	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.1	7.3.1.5	Bill Transit User for Transit Fare	TRMS	Original
3.1	7.3.1.6	Collect Bad Transit Fare Payment Data	TRMS	Original
3.1	7.3.1.7	Update Transit Fare Data	TRMS	Original
3.1	7.3.2	Distribute Advanced Tolls and Parking Lot Charges	ISP	Original
3.1	7.3.3	Get Transit User Image for Violation	TRMS	Original
3.1	7.3.4	Provide Remote Terminal Payment Instrument Interface	RTS	Original
3.1	7.3.5	Provide Transit Vehicle Payment Instrument Interface	TRVS	Original
3.1	7.4.1.1	Process Commercial Vehicle Payments	CVAS	Original
3.1	7.4.1.3	Process Driver Map Update Payments	ISP	Original
3.1	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
3.1	7.4.1.6	Process Traveler Trip and Other Services Payments	ISP	Original
3.1	7.4.1.7	Collect Payment Transaction Records	ISP	Original
3.1	7.4.1.8	Process Traveler Rideshare Payments	ISP	Original
3.1	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1	7.4.3	Route Traveler Advanced Payments	ISP	Original
3.1	7.5.1	Provide Vehicle Payment Instrument Interface	VS	Original
3.1	7.5.2	Provide Transit User Roadside Payment Instrument Interface	RTS	Original
3.1	7.5.3	Provide Personal Payment Instrument Interface	PIAS	Original
3.1	7.5.4	Provide Commercial Fleet Payment Instrument Interface	FMS	Original
3.1	7.5.5	Provide Traveler Kiosk Payment Instrument Interface	RTS	Original
3.1.0	4.6.1	Detect Transit User on Vehicle	TRVS	Original
3.1.0	4.6.2	Determine Transit User Needs on Vehicle	TRVS	Original
3.1.0	4.6.3	Determine Transit Fare on Vehicle	TRVS	Original
3.1.0	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.0	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
3.1.0	4.6.6	Update Transit Vehicle Fare Data	TRVS	Original
3.1.0	4.6.7	Provide Transit Vehicle Passenger Data	TRVS	Original
3.1.0	4.6.8	Manage Transit Vehicle Advanced Payments	TRMS	Original
3.1.0	4.7.2.1	Detect Transit User at Roadside	RTS	Original
3.1.0	4.7.2.2	Determine Transit User Needs at Roadside	RTS	Original
3.1.0	4.7.2.3	Determine Transit Fare at Roadside	RTS	Original
3.1.0	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.0	4.7.2.5	Provide Transit User Roadside Fare Interface	RTS	Original
3.1.0	4.7.2.6	Update Roadside Transit Fare Data	RTS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
3.1.0	4.7.2.7	Provide Transit Roadside Passenger Data	RTS	Original
3.1.0	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
3.1.0	7.1.7	Provide Payment Instrument Interface for Tolls	VS	Original
3.1.0	7.2.7	Provide Payment Instrument Interface for Parking	VS	Original
3.1.0	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
3.1.0	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.1.0	7.3.4	Provide Remote Terminal Payment Instrument Interface	RTS	Original
3.1.0	7.3.5	Provide Transit Vehicle Payment Instrument Interface	TRVS	Original
3.1.0	7.4.1.3	Process Driver Map Update Payments	ISP	Original
3.1.0	7.4.1.5	Process Transit User Other Services Payments	TRMS	Original
3.1.0	7.4.1.6	Process Traveler Trip and Other Services Payments	ISP	Original
3.1.0	7.4.1.7	Collect Payment Transaction Records	ISP	Original
3.1.0	7.4.1.8	Process Traveler Rideshare Payments	ISP	Original
3.1.0	7.4.3	Route Traveler Advanced Payments	ISP	Original
3.1.0	7.5.1	Provide Vehicle Payment Instrument Interface	VS	Original
3.1.0	7.5.2	Provide Transit User Roadside Payment Instrument Interface	RTS	Original
3.1.0	7.5.3	Provide Personal Payment Instrument Interface	PIAS	Original
3.1.0	7.5.4	Provide Commercial Fleet Payment Instrument Interface	FMS	Original
3.1.0	7.5.5	Provide Traveler Kiosk Payment Instrument Interface	RTS	Original
3.1.2	4.6.1	Detect Transit User on Vehicle	TRVS	Original
3.1.2	4.6.2	Determine Transit User Needs on Vehicle	TRVS	Original
3.1.2	4.6.3	Determine Transit Fare on Vehicle	TRVS	Original
3.1.2	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
3.1.2	4.6.6	Update Transit Vehicle Fare Data	TRVS	Original
3.1.2	4.6.7	Provide Transit Vehicle Passenger Data	TRVS	Original
3.1.2	4.6.8	Manage Transit Vehicle Advanced Payments	TRMS	Original
3.1.2	4.7.2.1	Detect Transit User at Roadside	RTS	Original
3.1.2	4.7.2.2	Determine Transit User Needs at Roadside	RTS	Original
3.1.2	4.7.2.3	Determine Transit Fare at Roadside	RTS	Original
3.1.2	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2	4.7.2.5	Provide Transit User Roadside Fare Interface	RTS	Original
3.1.2	4.7.2.6	Update Roadside Transit Fare Data	RTS	Original
3.1.2	4.7.2.7	Provide Transit Roadside Passenger Data	RTS	Original
3.1.2	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
3.1.2	7.1.6	Distribute Advanced Charges and Fares	ISP	Original
3.1.2	7.2.6	Distribute Advanced Tolls and Fares	ISP	Original
3.1.2	7.3.1.1	Register for Advanced Transit Fare Payment	TRMS	Original
3.1.2	7.3.1.2	Determine Advanced Transit Fares	TRMS	Original
3.1.2	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
3.1.2	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.1.2	7.3.1.5	Bill Transit User for Transit Fare	TRMS	Original
3.1.2	7.3.1.6	Collect Bad Transit Fare Payment Data	TRMS	Original
3.1.2	7.3.1.7	Update Transit Fare Data	TRMS	Original
3.1.2	7.3.2	Distribute Advanced Tolls and Parking Lot Charges	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
3.1.2	7.3.3	Get Transit User Image for Violation	TRMS	Original
3.1.2	7.4.1.8	Process Traveler Rideshare Payments	ISP	Original
3.1.2	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1.2	7.4.3	Route Traveler Advanced Payments	ISP	Original
3.1.2.1	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.1	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.1	7.1.6	Distribute Advanced Charges and Fares	ISP	Original
3.1.2.1	7.2.6	Distribute Advanced Tolls and Fares	ISP	Original
3.1.2.1	7.3.1.1	Register for Advanced Transit Fare Payment	TRMS	Original
3.1.2.1	7.3.1.2	Determine Advanced Transit Fares	TRMS	Original
3.1.2.1	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
3.1.2.1	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.1.2.1	7.3.1.5	Bill Transit User for Transit Fare	TRMS	Original
3.1.2.1	7.3.1.6	Collect Bad Transit Fare Payment Data	TRMS	Original
3.1.2.1	7.3.2	Distribute Advanced Tolls and Parking Lot Charges	ISP	Original
3.1.2.2	4.6.3	Determine Transit Fare on Vehicle	TRVS	Original
3.1.2.2	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.2	4.6.7	Provide Transit Vehicle Passenger Data	TRVS	Original
3.1.2.2	4.7.2.3	Determine Transit Fare at Roadside	RTS	Original
3.1.2.2	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.2	4.7.2.7	Provide Transit Roadside Passenger Data	RTS	Original
3.1.2.2	7.3.1.2	Determine Advanced Transit Fares	TRMS	Original
3.1.2.2	7.4.1.8	Process Traveler Rideshare Payments	ISP	Original
3.1.2.3	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.3	4.6.5	Provide Transit User Fare Payment Interface on Vehicle	TRVS	Original
3.1.2.3	4.6.8	Manage Transit Vehicle Advanced Payments	TRMS	Original
3.1.2.3	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.3	4.7.2.5	Provide Transit User Roadside Fare Interface	RTS	Original
3.1.2.3	6.2.1.6	Provide Transit Advisory Data On Vehicle	TRVS	Original
3.1.2.3	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
3.1.2.3	7.3.1.5	Bill Transit User for Transit Fare	TRMS	Original
3.1.2.3	7.3.1.6	Collect Bad Transit Fare Payment Data	TRMS	Original
3.1.2.4	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.4	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.4	7.2.6	Distribute Advanced Tolls and Fares	ISP	Original
3.1.2.4	7.3.1.1	Register for Advanced Transit Fare Payment	TRMS	Original
3.1.2.4	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.1.2.4	7.4.3	Route Traveler Advanced Payments	ISP	Original
3.1.2.5	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.5	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.5	7.3.1.3	Manage Transit Fare Financial Processing	TRMS	Original
3.1.2.5	7.3.1.6	Collect Bad Transit Fare Payment Data	TRMS	Original
3.1.2.5	7.3.3	Get Transit User Image for Violation	TRMS	Original
3.1.2.6	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.6	4.6.6	Update Transit Vehicle Fare Data	TRVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
3.1.2.6	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.6	4.7.2.6	Update Roadside Transit Fare Data	RTS	Original
3.1.2.6	7.3.1.7	Update Transit Fare Data	TRMS	Original
3.1.2.6	7.4.3	Route Traveler Advanced Payments	ISP	Original
3.1.2.7	4.6.1	Detect Transit User on Vehicle	TRVS	Original
3.1.2.7	4.6.4	Manage Transit Fare Billing on Vehicle	TRVS	Original
3.1.2.7	4.6.7	Provide Transit Vehicle Passenger Data	TRVS	Original
3.1.2.7	4.7.2.1	Detect Transit User at Roadside	RTS	Original
3.1.2.7	4.7.2.4	Manage Transit Fare Billing at Roadside	RTS	Original
3.1.2.7	4.7.2.7	Provide Transit Roadside Passenger Data	RTS	Original
3.1.2.7	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1.2.8	4.6.1	Detect Transit User on Vehicle	TRVS	Original
3.1.2.8	4.7.2.1	Detect Transit User at Roadside	RTS	Original
3.1.2.8	7.3.1.1	Register for Advanced Transit Fare Payment	TRMS	Original
3.1.2.8	7.3.1.2	Determine Advanced Transit Fares	TRMS	Original
3.1.2.8	7.3.1.4	Check for Advanced Transit Fare Payment	TRMS	Original
3.1.2.8	7.3.1.5	Bill Transit User for Transit Fare	TRMS	Original
3.1.5	1.4.2	Collect Demand Forecast Data	TMS	Original
3.1.5	1.4.4	Implement Demand Management Policy	TMS	Original
3.1.5	1.4.5	Calculate Forecast Demand	TMS	Original
3.1.5	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1.5.1	1.4.2	Collect Demand Forecast Data	TMS	Original
3.1.5.1	1.4.4	Implement Demand Management Policy	TMS	Original
3.1.5.1	1.4.5	Calculate Forecast Demand	TMS	Original
3.1.5.1	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1.5.1.1	1.4.2	Collect Demand Forecast Data	TMS	Original
3.1.5.1.1	1.4.4	Implement Demand Management Policy	TMS	Original
3.1.5.1.1	1.4.5	Calculate Forecast Demand	TMS	Original
3.1.5.1.1	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1.5.2	1.4.2	Collect Demand Forecast Data	TMS	Original
3.1.5.2	1.4.4	Implement Demand Management Policy	TMS	Original
3.1.5.2	1.4.5	Calculate Forecast Demand	TMS	Original
3.1.5.2	7.4.2	Collect Price Data for ITS Use	ISP	Original
3.1.5.3	1.4.2	Collect Demand Forecast Data	TMS	Original
3.1.5.3	1.4.4	Implement Demand Management Policy	TMS	Original
3.1.5.3	1.4.5	Calculate Forecast Demand	TMS	Original
3.1.5.3	7.4.2	Collect Price Data for ITS Use	ISP	Original
4.0	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.0	2.1.2	Provide Commercial Fleet Static Route	FMS	Original
4.0	2.1.3	Provide Flt Mgr Electronic Credentials and Tax Filing Interface	FMS	Original
4.0	2.1.4	Provide Fleet Manager Commercial Vehicle Communications	FMS	Original
4.0	2.1.5	Provide Commercial Vehicle Driver Routing Interface	CVS	Original
4.0	2.2.1	Manage CV Electronic Credential and Tax Filing Interface	FMS	Original
4.0	2.2.2	Provide Vehicle Static Route	CVS	Original
4.0	2.2.3	Provide CV Driver Electronic Credential and Tax Filing Interface	CVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.0	2.2.4	Provide Commercial Vehicle Driver Communications	CVS	Original
4.0	2.3.1	Produce Commercial Vehicle Driver Message at Roadside	CVCS	Original
4.0	2.3.2.1	Administer Commercial Vehicle Roadside Credentials Database	CVCS	Original
4.0	2.3.2.2	Process Screening Transactions	CVCS	Original
4.0	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.0	2.3.3.2	Provide Commercial Vehicle Inspector Handheld Terminal Interface	CVCS	Original
4.0	2.3.3.3	Administer Commercial Vehicle Roadside Safety Datadase	CVCS	Original
4.0	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.0	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.0	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.0	2.3.5	Provide Commercial Vehicle Roadside Operator Interface	CVCS	Original
4.0	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.0	2.3.7	Produce Commercial Vehicle Driver Message on Vehicle	CVS	Original
4.0	2.3.8	Provide Commercial Vehicle Border Screening	CVCS	Original
4.0	2.4.1	Communicate Commercial Vehicle On-board Data to Roadside	CVS	Original
4.0	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.0	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.0	2.5.1	Manage Commercial Vehicle Trips and Clearances	CVAS	Original
4.0	2.5.2	Obtain Electronic Credential and Tax Filing Payment	CVAS	Original
4.0	2.5.3	Update Permits and Duties Store	CVAS	Original
4.0	2.5.4	Communicate with Other Commercial Vehicle Administration System	CVAS	Original
4.0	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.0	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.0	2.5.7	Process Commercial Vehicle Violations	CVAS	Original
4.0	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.0	2.6.1	Provide Commercial Vehicle Manager Tag Data Interface	FMS	Original
4.0	2.6.2	Transmit Commercial Vehicle Tag Data	CVS	Original
4.0	2.6.3	Provide Commercial Driver Tag Data Interface	CVS	Original
4.0	2.6.4	Provide Lock Tag Data Interface	CVS	Original
4.0	2.6.5	Manage Commercial Vehicle Tag Data Store	CVS	Original
4.0	2.7	Manage Cargo	FMS	Original
4.0	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.0	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
4.1	2.3.1	Produce Commercial Vehicle Driver Message at Roadside	CVCS	Original
4.1	2.3.2.1	Administer Commercial Vehicle Roadside Credentials Database	CVCS	Original
4.1	2.3.2.2	Process Screening Transactions	CVCS	Original
4.1	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.1	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.1	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1	2.3.7	Produce Commercial Vehicle Driver Message on Vehicle	CVS	Original
4.1	2.3.8	Provide Commercial Vehicle Border Screening	CVCS	Original
4.1	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.1	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1	2.5.3	Update Permits and Duties Store	CVAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.1	2.5.4	Communicate with Other Commercial Vehicle Administration System	CVAS	Original
4.1	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.1	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.1	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.1	2.6.1	Provide Commercial Vehicle Manager Tag Data Interface	FMS	Original
4.1	2.6.2	Transmit Commercial Vehicle Tag Data	CVS	Original
4.1	2.6.3	Provide Commercial Driver Tag Data Interface	CVS	Original
4.1	2.6.4	Provide Lock Tag Data Interface	CVS	Original
4.1	2.6.5	Manage Commercial Vehicle Tag Data Store	CVS	Original
4.1	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
4.1.0	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.1.0	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
4.1.1	2.3.1	Produce Commercial Vehicle Driver Message at Roadside	CVCS	Original
4.1.1	2.3.2.1	Administer Commercial Vehicle Roadside Credentials Database	CVCS	Original
4.1.1	2.3.2.2	Process Screening Transactions	CVCS	Original
4.1.1	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.1.1	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1.1	2.3.7	Produce Commercial Vehicle Driver Message on Vehicle	CVS	Original
4.1.1	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.1.1	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1.1	2.5.3	Update Permits and Duties Store	CVAS	Original
4.1.1	2.5.4	Communicate with Other Commercial Vehicle Administration System	CVAS	Original
4.1.1	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.1.1	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.1.1	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.1.1.1	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1.2	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1.2	2.5.3	Update Permits and Duties Store	CVAS	Original
4.1.1.3	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1.3	2.5.4	Communicate with Other Commercial Vehicle Administration System	CVAS	Original
4.1.1.4	2.3.1	Produce Commercial Vehicle Driver Message at Roadside	CVCS	Original
4.1.1.4	2.3.2.2	Process Screening Transactions	CVCS	Original
4.1.1.4	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.1.1.4	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1.4	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1.1.4	2.3.7	Produce Commercial Vehicle Driver Message on Vehicle	CVS	Original
4.1.1.4(a)	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1.1.4(b)	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1.1.4(c)	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1.1.5	2.3.2.2	Process Screening Transactions	CVCS	Original
4.1.1.5	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.1.1.6	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1.6	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.1.1.6	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.1.1.6(a)	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1.1.6(b)	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1.1.6(c)	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1.1.6(d)	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1.1.6(e)	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.1.1.7	2.3.2.2	Process Screening Transactions	CVCS	Original
4.1.1.7	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.1.1.7	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.1.1.8	2.3.2.1	Administer Commercial Vehicle Roadside Credentials Database	CVCS	Original
4.1.1.8	2.3.2.2	Process Screening Transactions	CVCS	Original
4.1.1.8	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.1.1.8	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.1.1.8	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.1.1.8	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.1.2	2.3.1	Produce Commercial Vehicle Driver Message at Roadside	CVCS	Original
4.1.2	2.3.8	Provide Commercial Vehicle Border Screening	CVCS	Original
4.1.2	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.1.2	2.6.1	Provide Commercial Vehicle Manager Tag Data Interface	FMS	Original
4.1.2	2.6.2	Transmit Commercial Vehicle Tag Data	CVS	Original
4.1.2	2.6.3	Provide Commercial Driver Tag Data Interface	CVS	Original
4.1.2	2.6.4	Provide Lock Tag Data Interface	CVS	Original
4.1.2	2.6.5	Manage Commercial Vehicle Tag Data Store	CVS	Original
4.1.2	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
4.1.2.1	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.1.2.1	2.6.2	Transmit Commercial Vehicle Tag Data	CVS	Original
4.1.2.1	2.6.5	Manage Commercial Vehicle Tag Data Store	CVS	Original
4.1.2.2	2.3.1	Produce Commercial Vehicle Driver Message at Roadside	CVCS	Original
4.1.2.2	2.3.8	Provide Commercial Vehicle Border Screening	CVCS	Original
4.1.2.2	2.6.1	Provide Commercial Vehicle Manager Tag Data Interface	FMS	Original
4.1.2.2	2.6.2	Transmit Commercial Vehicle Tag Data	CVS	Original
4.1.2.2	2.6.3	Provide Commercial Driver Tag Data Interface	CVS	Original
4.1.2.2	2.6.4	Provide Lock Tag Data Interface	CVS	Original
4.1.2.2	2.6.5	Manage Commercial Vehicle Tag Data Store	CVS	Original
4.1.2.2	7.4.1.2	Process Yellow Pages Services Provider Payments	ISP	Original
4.2	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2	2.3.3.2	Provide Commercial Vehicle Inspector Handheld Terminal Interface	CVCS	Original
4.2	2.3.3.3	Administer Commercial Vehicle Roadside Safety Database	CVCS	Original
4.2	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.2	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.2	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.2	2.4.1	Communicate Commercial Vehicle On-board Data to Roadside	CVS	Original
4.2	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.2	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.2	2.7	Manage Cargo	FMS	Original
4.2.0	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.2.0	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.0	2.5.7	Process Commercial Vehicle Violations	CVAS	Original
4.2.1	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.2.1	2.5.7	Process Commercial Vehicle Violations	CVAS	Original
4.2.2	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2	2.3.3.2	Provide Commercial Vehicle Inspector Handheld Terminal Interface	CVCS	Original
4.2.2	2.3.3.3	Administer Commercial Vehicle Roadside Safety Database	CVCS	Original
4.2.2	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.2.2	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.2.2	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.2.2	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2	2.5.7	Process Commercial Vehicle Violations	CVAS	Original
4.2.2	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.2.2	2.7	Manage Cargo	FMS	Original
4.2.2.1	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2.1	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2.1	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.1	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.2.2.1	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2.1	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.2.2.2	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2.2	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.3	2.3.3.2	Provide Commercial Vehicle Inspector Handheld Terminal Interface	CVCS	Original
4.2.2.3	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2.3	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.3(a)	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.3(b)	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.3(c)	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.4	2.3.3.3	Administer Commercial Vehicle Roadside Safety Database	CVCS	Original
4.2.2.4	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.4	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.2.2.4	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.2.2.4	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2.4	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.2.2.5	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2.5	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.2.2.5(a)	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2.5(b)	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2.5(c)	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.2.2.5(d)	2.5.6	Output Commercial Vehicle Enrollment Data to Roadside Facilities	CVAS	Original
4.2.2.6	2.3.3.3	Administer Commercial Vehicle Roadside Safety Database	CVCS	Original
4.2.2.6	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.2.2.6	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2.6	2.3.5	Provide Commercial Vehicle RoadsideOperator Interface	CVCS	Original
4.2.2.7	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2.7	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2.7	2.7	Manage Cargo	FMS	Original
4.2.2.7(a)	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2.7(a)	2.3.3.5	Carry-out Commercial Vehicle Roadside Inspection	CVCS	Original
4.2.2.7(b)	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2.7(c)	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2.7(d)	2.3.3.1	Provide Commercial Vehicle Checkstation Communications	CVCS	Original
4.2.2.7(d)	2.7	Manage Cargo	FMS	Original
4.2.3	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.2.3	2.4.1	Communicate Commercial Vehicle On-board Data to Roadside	CVS	Original
4.2.3	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.1	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.1	2.4.3	Analyze Commercial Vehicle On-board Data	CVS	Original
4.2.3.1	2.4.5	Communicate Commercial Vehicle On-board Data to Vehicle Manager	CVS	Original
4.2.3.1	2.4.6	Provide Commercial Vehicle On-board Data Store Interface	CVS	Original
4.2.3.2	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.2.3.2	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.2	2.4.3	Analyze Commercial Vehicle On-board Data	CVS	Original
4.2.3.2	2.4.5	Communicate Commercial Vehicle On-board Data to Vehicle Manager	CVS	Original
4.2.3.2	2.4.6	Provide Commercial Vehicle On-board Data Store Interface	CVS	Original
4.2.3.3	2.4.1	Communicate Commercial Vehicle On-board Data to Roadside	CVS	Original
4.2.3.3	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.4	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.4	2.4.3	Analyze Commercial Vehicle On-board Data	CVS	Original
4.2.3.4	2.4.5	Communicate Commercial Vehicle On-board Data to Vehicle Manager	CVS	Original
4.2.3.4	2.4.6	Provide Commercial Vehicle On-board Data Store Interface	CVS	Original
4.2.3.5	2.3.4	Detect Commercial Vehicle	CVCS	Original
4.2.3.5	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.5	2.4.3	Analyze Commercial Vehicle On-board Data	CVS	Original
4.2.3.5	2.4.5	Communicate Commercial Vehicle On-board Data to Vehicle Manager	CVS	Original
4.2.3.5	2.4.6	Provide Commercial Vehicle On-board Data Store Interface	CVS	Original
4.2.3.6	2.4.2	Collect On-board Commercial Vehicle Sensor Data	CVS	Original
4.2.3.7	2.4.1	Communicate Commercial Vehicle On-board Data to Roadside	CVS	Original
4.4	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.4	2.2.1	Manage CV Electronic Credential and Tax Filing Interface	FMS	Original
4.4	2.2.2	Provide Vehicle Static Route	CVS	Original
4.4	2.2.3	Provide CV Driver Electronic Credential and Tax Filing Interface	CVS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.4	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.4	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.4	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.4	2.5.7	Process Commercial Vehicle Violations	CVAS	Original
4.4	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.4.0	2.1.2	Provide Commercial Fleet Static Route	FMS	Original
4.4.0	2.5.3	Update Permits and Duties Store	CVAS	Original
4.4.0	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.4.1	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.4.1	2.1.2	Provide Commercial Fleet Static Route	FMS	Original
4.4.1	2.2.1	Manage CV Electronic Credential and Tax Filing Interface	FMS	Original
4.4.1	2.2.2	Provide Vehicle Static Route	CVS	Original
4.4.1	2.2.3	Provide CV Driver Electronic Credential and Tax Filing Interface	CVS	Original
4.4.1	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.4.1	2.5.3	Update Permits and Duties Store	CVAS	Original
4.4.1	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.4.1(a)	2.5.3	Update Permits and Duties Store	CVAS	Original
4.4.1(a)	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.4.1(b)	2.5.3	Update Permits and Duties Store	CVAS	Original
4.4.1(b)	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.4.1(c)	2.1.2	Provide Commercial Fleet Static Route	FMS	Original
4.4.1(d)	2.1.2	Provide Commercial Fleet Static Route	FMS	Original
4.4.1(e)	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.4.1(f)	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.4.1(g)	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.4.2	2.2.3	Provide CV Driver Electronic Credential and Tax Filing Interface	CVS	Original
4.4.2	2.3.3.4	Carry-out Commercial Vehicle Roadside Safety Screening	CVCS	Original
4.4.2	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.4.2	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.4.2	2.5.5	Manage Commercial Vehicle Credentials and Enrollment	CVAS	Original
4.4.2	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.4.2(a)	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.4.2(b)	2.3.6	Provide Commercial Vehicle Reports	CVCS	Original
4.4.2(c)	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.4.2(d)	2.5.8	Process Data Received from Roadside Facilities	CVAS	Original
4.5	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5	5.1.1	Identify Emergencies from Inputs	EM	Original
4.5	5.1.4	Manage Emergency Response	EM	Original
4.5	5.1.6	Process Mayday Messages	EM	Original
4.5	5.3.2	Dispatch Vehicle	EM	Original
4.5	5.3.7	Provide Emergency Vehicle Route	EM	Original
4.5.0	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.0	5.1.1	Identify Emergencies from Inputs	EM	Original
4.5.0	5.1.4	Manage Emergency Response	EM	Original
4.5.0	5.1.6	Process Mayday Messages	EM	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
4.5.0	5.3.2	Dispatch Vehicle	EM	Original
4.5.0	5.3.7	Provide Emergency Vehicle Route	EM	Original
4.5.1	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.1.1	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.1.2	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.1.2(a)	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.1.2(b)	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.1.2(c)	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
4.5.2	5.1.4	Manage Emergency Response	EM	Original
4.5.2.1	5.1.4	Manage Emergency Response	EM	Original
4.5.2.2	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(a)	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(b)	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(c)	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(e)	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(f)	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(g)	5.1.4	Manage Emergency Response	EM	Original
4.5.2.3(h)	5.1.4	Manage Emergency Response	EM	Original
4.5.3	5.1.1	Identify Emergencies from Inputs	EM	Original
4.5.3	5.1.4	Manage Emergency Response	EM	Original
4.5.3	5.1.6	Process Mayday Messages	EM	Original
4.5.3	5.3.2	Dispatch Vehicle	EM	Original
4.5.3	5.3.7	Provide Emergency Vehicle Route	EM	Original
4.5.3.1	5.1.1	Identify Emergencies from Inputs	EM	Original
4.5.3.1	5.1.6	Process Mayday Messages	EM	Original
4.5.3.2	5.3.2	Dispatch Vehicle	EM	Original
4.5.3.2	5.3.7	Provide Emergency Vehicle Route	EM	Original
4.5.3.3	5.1.4	Manage Emergency Response	EM	Original
4.5.3.4	5.1.4	Manage Emergency Response	EM	Original
4.5.3.5	9	Satisfy Implementation Requirements	N/A	Original
4.6	2.1.1	Manage Commercial Fleet Electronic Credentials and Tax Filing	FMS	Original
4.6	2.1.3	Provide Flt Mgr Electronic Credentials and Tax Filing Interface	FMS	Original
4.6	2.1.4	Provide Fleet Manager Commercial Vehicle Communications	FMS	Original
4.6	2.1.5	Provide Commercial Vehicle Driver Routing Interface	CVS	Original
4.6	2.2.1	Manage CV Electronic Credential and Tax Filing Interface	FMS	Original
4.6	2.2.3	Provide CV Driver Electronic Credential and Tax Filing Interface	CVS	Original
4.6	2.2.4	Provide Commercial Vehicle Driver Communications	CVS	Original
4.6	2.4.4	Provide Commercial Vehicle Driver Interface	CVS	Original
4.6	2.5.1	Manage Commercial Vehicle Trips and Clearances	CVAS	Original
4.6	2.5.2	Obtain Electronic Credential and Tax Filing Payment	CVAS	Original
4.6	2.5.4	Communicate with Other Commercial Vehicle Administration System	CVAS	Original
4.6.0	2.1.4	Provide Fleet Manager Commercial Vehicle Communications	FMS	Original
4.6.0	2.2.4	Provide Commercial Vehicle Driver Communications	CVS	Original
5.0	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
5.0	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
5.0	1.2.7.3	Manage Indicator Preemptions	RS	Original
5.0	1.2.7.6	Provide Intersection Collision Avoidance Data	RS	Original
5.0	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.0	3.3.2	Provide Communications Function	VS	Original
5.0	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.0	5.1.1	Identify Emergencies from Inputs	EM	Original
5.0	5.1.2	Determine Coordinated Response Plan	EM	Original
5.0	5.1.3	Communicate Emergency Status	EM	Original
5.0	5.1.4	Manage Emergency Response	EM	Original
5.0	5.1.6	Process Mayday Messages	EM	Original
5.0	5.2	Provide Operator Interface for Emergency Data	EM	Original
5.0	5.3.1	Select Response Mode	EM	Original
5.0	5.3.2	Dispatch Vehicle	EM	Original
5.0	5.3.3	Track Vehicle	EVS	Original
5.0	5.3.4	Assess Response Status	EM	Original
5.0	5.3.5	Provide Emergency Personnel Interface	EVS	Original
5.0	5.3.6	Maintain Vehicle Status	EM	Original
5.0	5.3.7	Provide Emergency Vehicle Route	EM	Original
5.0	5.5	Update Emergency Display Map Data	EM	Original
5.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
5.0	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.0	6.7.1.2	Provide Driver In-vehicle Communications Function	VS	Original
5.0	6.7.2.2	Process Vehicle Location Data	VS	Original
5.0	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.0	6.8.2.2	Provide Traveler Emergency Communications Function	PIAS	Original
5.1	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.1	3.3.2	Provide Communications Function	VS	Original
5.1	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1	5.1.1	Identify Emergencies from Inputs	EM	Original
5.1	5.1.2	Determine Coordinated Response Plan	EM	Original
5.1	5.1.3	Communicate Emergency Status	EM	Original
5.1	5.1.6	Process Mayday Messages	EM	Original
5.1	5.2	Provide Operator Interface for Emergency Data	EM	Original
5.1	5.5	Update Emergency Display Map Data	EM	Original
5.1.0	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.0	6.7.1.2	Provide Driver In-vehicle Communications Function	VS	Original
5.1.0	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.0	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.1.0	6.8.2.2	Provide Traveler Emergency Communications Function	PIAS	Original
5.1.1	3.3.2	Provide Communications Function	VS	Original
5.1.1	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.1	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1	6.7.1.2	Provide Driver In-vehicle Communications Function	VS	Original
5.1.1	6.7.2.2	Process Vehicle Location Data	VS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
5.1.1	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.1.1	6.8.2.2	Provide Traveler Emergency Communications Function	PIAS	Original
5.1.1.1	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.1	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.1.1	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.1.1.1(a)	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.1(b)	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.1(c)	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.1(d)	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.1(d)	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.1.1(d)	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.1.1.1(e)	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.1(e)	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.1.1.2	6.7.1.1	Build Driver Personal Security Message	VS	Original
5.1.1.2	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.1.2	6.8.2.1	Build Traveler Personal Security Message	PIAS	Original
5.1.1.3	3.3.2	Provide Communications Function	VS	Original
5.1.1.3	6.7.1.2	Provide Driver In-vehicle Communications Function	VS	Original
5.1.1.3	6.8.2.2	Provide Traveler Emergency Communications Function	PIAS	Original
5.1.1.4	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.1.4	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.1.2	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.2	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2.1	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.1.2.1	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.2.1	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2.1.1	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.2.1.1	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2.1.2	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.1.2.1.2	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.2.1.2	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2.2	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.1.2.2	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.2.2	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2.2(a)	3.3.3	Build Automatic Collision Notification Message	VS	Original
5.1.2.2(b)	6.7.2.2	Process Vehicle Location Data	VS	Original
5.1.2.2(c)	3.3.1	Provide Cargo Data for Incident Notification	CVS	Original
5.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
5.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
5.2	1.2.7.3	Manage Indicator Preemptions	RS	Original
5.2	1.2.7.6	Provide Intersection Collision Avoidance Data	RS	Original
5.2	5.1.1	Identify Emergencies from Inputs	EM	Original
5.2	5.1.2	Determine Coordinated Response Plan	EM	Original
5.2	5.1.3	Communicate Emergency Status	EM	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
5.2	5.1.4	Manage Emergency Response	EM	Original
5.2	5.1.6	Process Mayday Messages	EM	Original
5.2	5.2	Provide Operator Interface for Emergency Data	EM	Original
5.2	5.3.1	Select Response Mode	EM	Original
5.2	5.3.2	Dispatch Vehicle	EM	Original
5.2	5.3.3	Track Vehicle	EVS	Original
5.2	5.3.4	Assess Response Status	EM	Original
5.2	5.3.5	Provide Emergency Personnel Interface	EVS	Original
5.2	5.3.6	Maintain Vehicle Status	EM	Original
5.2	5.3.7	Provide Emergency Vehicle Route	EM	Original
5.2	5.5	Update Emergency Display Map Data	EM	Original
5.2.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
5.2.1	5.1.4	Manage Emergency Response	EM	Original
5.2.1	5.3.1	Select Response Mode	EM	Original
5.2.1	5.3.2	Dispatch Vehicle	EM	Original
5.2.1	5.3.3	Track Vehicle	EVS	Original
5.2.1	5.3.4	Assess Response Status	EM	Original
5.2.1	5.3.6	Maintain Vehicle Status	EM	Original
5.2.1	5.3.7	Provide Emergency Vehicle Route	EM	Original
5.2.1.1	5.1.4	Manage Emergency Response	EM	Original
5.2.1.1	5.3.3	Track Vehicle	EVS	Original
5.2.1.1	5.3.6	Maintain Vehicle Status	EM	Original
5.2.1.2	5.1.4	Manage Emergency Response	EM	Original
5.2.1.2	5.3.1	Select Response Mode	EM	Original
5.2.1.2	5.3.2	Dispatch Vehicle	EM	Original
5.2.1.2	5.3.7	Provide Emergency Vehicle Route	EM	Original
5.2.1.3	5.1.4	Manage Emergency Response	EM	Original
5.2.1.3	5.3.1	Select Response Mode	EM	Original
5.2.1.3	5.3.2	Dispatch Vehicle	EM	Original
5.2.1.3	5.3.7	Provide Emergency Vehicle Route	EM	Original
5.2.2	5.1.4	Manage Emergency Response	EM	Original
5.2.2	5.3.2	Dispatch Vehicle	EM	Original
5.2.2	5.3.5	Provide Emergency Personnel Interface	EVS	Original
5.2.2	5.3.7	Provide Emergency Vehicle Route	EM	Original
5.2.2	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
5.2.2.1	5.1.4	Manage Emergency Response	EM	Original
5.2.2.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
5.2.2.2	5.3.5	Provide Emergency Personnel Interface	EVS	Original
5.2.3	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
5.2.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
5.2.3	1.2.7.3	Manage Indicator Preemptions	RS	Original
5.2.3	1.2.7.6	Provide Intersection Collision Avoidance Data	RS	Original
5.2.3	5.1.4	Manage Emergency Response	EM	Original
5.2.3.1	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
5.2.3.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
5.2.3.1	5.1.4	Manage Emergency Response	EM	Original
5.2.3.2	1.2.2.1	Determine Indicator State for Freeway Management	TMS	Original
5.2.3.2	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
6.0	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.0	3.1.2	Carry-out Safety Analysis	VS	Original
6.0	3.1.3	Process Vehicle On-board Data	VS	Original
6.0	3.2.1	Provide Driver Interface	VS	Original
6.0	3.2.2	Provide AHS Control	VS	Original
6.0	3.2.3.1	Provide Command Interface	VS	Original
6.0	3.2.3.2	Manage Platoon Following	VS	Original
6.0	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.0	3.2.3.4.1	Provide Speed Servo Control	VS	Original
6.0	3.2.3.4.2	Provide Headway Servo Control	VS	Original
6.0	3.2.3.4.3	Provide Lane Servo Control	VS	Original
6.0	3.2.3.4.4	Provide Change Lane Servo Control	VS	Original
6.0	3.2.3.5	Process Vehicle Sensor Data	VS	Original
6.0	3.2.3.6	Communicate with other Platoon Vehicles	VS	Original
6.0	3.2.4	Process Sensor Data for AHS input	VS	Original
6.0	3.2.5	Check Vehicle for AHS eligibility	RS	Original
6.0	3.2.6	Manage AHS Check-in and Check-out	RS	Original
6.0	3.2.7	Manage AHS Operations	TMS	Original
6.0	3.4	Enhance Driver's Vision	VS	Original
6.0	6.7.2.2	Process Vehicle Location Data	VS	Original
6.2	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2	3.1.3	Process Vehicle On-board Data	VS	Original
6.2	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.2.0	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.0	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.2.1.1	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.1.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1.1.1	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.1.1.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1.2	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.1.2	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1.2.2	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.1.2.2	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1.3	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1.3	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.2.1.3.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.1.3.1	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.2.2	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.2	3.1.3	Process Vehicle On-board Data	VS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
6.2.2	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.2.2.1	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.2.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.2.1.1	3.1.1	Produce Collision and Crash Avoidance Data	VS	Original
6.2.2.1.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.2.2	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.2.2.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.2.3	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.2.3	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.2.2.3.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.2.2.3.1	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.4	3.4	Enhance Driver's Vision	VS	Original
6.4.0	3.4	Enhance Driver's Vision	VS	Original
6.4.1	3.4	Enhance Driver's Vision	VS	Original
6.7.2	3.1.3	Process Vehicle On-board Data	VS	Original
6.7.2	3.2.2	Provide AHS Control	VS	Original
6.7.2	3.2.3.1	Provide Command Interface	VS	Original
6.7.2	3.2.3.2	Manage Platoon Following	VS	Original
6.7.2	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.7.2	3.2.3.4.1	Provide Speed Servo Control	VS	Original
6.7.2	3.2.3.4.2	Provide Headway Servo Control	VS	Original
6.7.2	3.2.3.4.3	Provide Lane Servo Control	VS	Original
6.7.2	3.2.3.4.4	Provide Change Lane Servo Control	VS	Original
6.7.2	3.2.3.4.5	Provide Vehicle Control Data Interface	VS	Original
6.7.2	3.2.3.5	Process Vehicle Sensor Data	VS	Original
6.7.2	3.2.3.6	Communicate with other Platoon Vehicles	VS	Original
6.7.2	3.2.4	Process Sensor Data for AHS input	VS	Original
6.7.2.1	3.1.3	Process Vehicle On-board Data	VS	Original
6.7.2.1	3.2.2	Provide AHS Control	VS	Original
6.7.2.1	3.2.3.1	Provide Command Interface	VS	Original
6.7.2.1	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.7.2.1	3.2.3.5	Process Vehicle Sensor Data	VS	Original
6.7.2.1	3.2.3.6	Communicate with other Platoon Vehicles	VS	Original
6.7.2.1	3.2.4	Process Sensor Data for AHS input	VS	Original
6.7.2.2	3.2.2	Provide AHS Control	VS	Original
6.7.2.3	3.1.3	Process Vehicle On-board Data	VS	Original
6.7.2.3	3.2.3.2	Manage Platoon Following	VS	Original
6.7.2.3	3.2.3.3	Process data for Vehicle Actuators	VS	Original
6.7.2.3	3.2.3.4.1	Provide Speed Servo Control	VS	Original
6.7.2.3	3.2.3.4.2	Provide Headway Servo Control	VS	Original
6.7.2.3	3.2.3.4.3	Provide Lane Servo Control	VS	Original
6.7.2.3	3.2.3.4.4	Provide Change Lane Servo Control	VS	Original
6.7.2.3	3.2.3.4.5	Provide Vehicle Control Data Interface	VS	Original
6.7.2.3	3.2.3.5	Process Vehicle Sensor Data	VS	Original
6.7.2.3	3.2.3.6	Communicate with other Platoon Vehicles	VS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
6.7.2.3	3.2.4	Process Sensor Data for AHS input	VS	Original
7.0	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.0	1.1.4.4	Update Traffic Display Map Data	TMS	Original
7.0	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.0	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.0	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
7.0	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.0	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.0	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
7.0	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.0	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.0	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.0	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.0	4.2.4	Manage Transit Archive Data	TRMS	Original
7.0	5.6	Manage Emergency Services Data	EM	Original
7.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.0	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.0	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.0	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.0	6.4.1	Screen Rider Requests	ISP	Original
7.0	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
7.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.0	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.0	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.0	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.0	6.6.5	Select Other Routes	ISP	Original
7.0	7.1.1.11	Manage Toll Archive Data	TAS	Original
7.0	8.1	Get Archive Data	ADMS	Original
7.0	8.2	Manage Archive	ADMS	Original
7.0	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.0	8.4	Coordinate Archives	ADMS	Original
7.0	8.5	Process Archived Data User System Requests	ADMS	Original
7.0	8.6	Analyze Archive	ADMS	Original
7.0	8.7	Process On Demand Archive Requests	ADMS	Original
7.0	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.0	8.9	Manage Roadside Data Collection	ADMS	Original
7.1	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1	1.1.4.4	Update Traffic Display Map Data	TMS	Original
7.1	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.1	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
7.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.1	1.2.5.5	Manage Parking Archive Data	PMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
7.1	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.1	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.1	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.1	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1	5.6	Manage Emergency Services Data	EM	Original
7.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.1	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.1	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.1	6.4.1	Screen Rider Requests	ISP	Original
7.1	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
7.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1	6.6.5	Select Other Routes	ISP	Original
7.1	7.1.1.11	Manage Toll Archive Data	TAS	Original
7.1	8.1	Get Archive Data	ADMS	Original
7.1	8.2	Manage Archive	ADMS	Original
7.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1	8.4	Coordinate Archives	ADMS	Original
7.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1	8.6	Analyze Archive	ADMS	Original
7.1	8.7	Process On Demand Archive Requests	ADMS	Original
7.1	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.0	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.0	1.1.4.4	Update Traffic Display Map Data	TMS	Original
7.1.0	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.1.0	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.0	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
7.1.0	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.1.0	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.0	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
7.1.0	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.1.0	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.1.0	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.1.0	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.0	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1.0	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.1.0	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.0	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.0	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.1.0	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.1.0	6.4.1	Screen Rider Requests	ISP	Original
7.1.0	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
7.1.0	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.0	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.0	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.1.0	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1.0	6.6.5	Select Other Routes	ISP	Original
7.1.0	8.1	Get Archive Data	ADMS	Original
7.1.0	8.2	Manage Archive	ADMS	Original
7.1.0	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.0	8.4	Coordinate Archives	ADMS	Original
7.1.0	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.0	8.6	Analyze Archive	ADMS	Original
7.1.0	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.0	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.0	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.1	8.1	Get Archive Data	ADMS	Original
7.1.1	8.2	Manage Archive	ADMS	Original
7.1.1.1	8.1	Get Archive Data	ADMS	Original
7.1.1.1	8.2	Manage Archive	ADMS	Original
7.1.1.2	8.2	Manage Archive	ADMS	Original
7.1.1.3	8.1	Get Archive Data	ADMS	Original
7.1.1.3	8.2	Manage Archive	ADMS	Original
7.1.1.4	8.2	Manage Archive	ADMS	Original
7.1.1.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.1.4.1	8.2	Manage Archive	ADMS	Original
7.1.1.4.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.1.4.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.1.4.1	8.6	Analyze Archive	ADMS	Original
7.1.1.4.2	8.2	Manage Archive	ADMS	Original
7.1.1.4.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.1.4.3	8.2	Manage Archive	ADMS	Original
7.1.1.4.3	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.1.4.3	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.1.4.3	8.6	Analyze Archive	ADMS	Original
7.1.1.4.4	8.2	Manage Archive	ADMS	Original
7.1.1.4.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.1.4.4	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.1.4.4	8.6	Analyze Archive	ADMS	Original
7.1.1.5	8.6	Analyze Archive	ADMS	Original
7.1.2	8.1	Get Archive Data	ADMS	Original
7.1.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.2	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.2	8.6	Analyze Archive	ADMS	Original
7.1.2	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.2	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1	8.1	Get Archive Data	ADMS	Original
7.1.2.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.1	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.1	8.1	Get Archive Data	ADMS	Original
7.1.2.1.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.1.1	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.2	8.1	Get Archive Data	ADMS	Original
7.1.2.1.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.1.2	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.3	8.1	Get Archive Data	ADMS	Original
7.1.2.1.3	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.3(a)	8.1	Get Archive Data	ADMS	Original
7.1.2.1.3(a)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.3(b)	8.1	Get Archive Data	ADMS	Original
7.1.2.1.3(b)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.3(c)	8.1	Get Archive Data	ADMS	Original
7.1.2.1.3(c)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.2.1.4	8.1	Get Archive Data	ADMS	Original
7.1.2.1.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.1.5	8.1	Get Archive Data	ADMS	Original
7.1.2.1.5	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.1.5(a)	8.1	Get Archive Data	ADMS	Original
7.1.2.1.5(a)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.1.5(b)	8.1	Get Archive Data	ADMS	Original
7.1.2.1.5(b)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.2	8.1	Get Archive Data	ADMS	Original
7.1.2.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.2	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.2.3	8.1	Get Archive Data	ADMS	Original
7.1.2.3	8.2	Manage Archive	ADMS	Original
7.1.2.4	8.1	Get Archive Data	ADMS	Original
7.1.2.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.2.5	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.2.6	8.6	Analyze Archive	ADMS	Original
7.1.3	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.1.3	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
7.1.3	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.1.3	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.3	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.1.3	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.1.3	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.1.3	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3	5.6	Manage Emergency Services Data	EM	Original
7.1.3	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1.3	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.1.3	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.1.3	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.1.3	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.1.3	6.4.1	Screen Rider Requests	ISP	Original
7.1.3	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
7.1.3	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.3	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.3	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.1.3	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1.3	6.6.5	Select Other Routes	ISP	Original
7.1.3	7.1.1.11	Manage Toll Archive Data	TAS	Original
7.1.3	8.1	Get Archive Data	ADMS	Original
7.1.3	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1	1.1.4.4	Update Traffic Display Map Data	TMS	Original
7.1.3.1	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.1.3.1	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
7.1.3.1	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.1.3.1	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3.1	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
7.1.3.1	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.1.3.1	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.1.3.1	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.1.3.1	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1.3.1	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.1.3.1	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.1.3.1	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.1.3.1	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.1.3.1	6.4.1	Screen Rider Requests	ISP	Original
7.1.3.1	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.3.1	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.3.1	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.3.1	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.1.3.1	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1.3.1	6.6.5	Select Other Routes	ISP	Original
7.1.3.1	8.1	Get Archive Data	ADMS	Original
7.1.3.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.1	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.1	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.1	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.1	8.1	Get Archive Data	ADMS	Original
7.1.3.1.1	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.1(a)	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.1(a)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.1(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.1(a)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.1(b)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.1(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.1(c)	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.1(c)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.1(c)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.1(c)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.1(d)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.1(d)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.1(e)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.1(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.10	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3.1.10	8.1	Get Archive Data	ADMS	Original
7.1.3.1.11	8.1	Get Archive Data	ADMS	Original
7.1.3.1.2	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.2	7.1.1.11	Manage Toll Archive Data	TAS	Original
7.1.3.1.2	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.3	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.3	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.3(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3(c)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3(d)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3(e)	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.3(e)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.3(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.3(e)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.4	4.2.4	Manage Transit Archive Data	TRMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.3.1.4	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.4	6.4.1	Screen Rider Requests	ISP	Original
7.1.3.1.4	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(a)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.4(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(b)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.4(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(c)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.4(c)	6.4.1	Screen Rider Requests	ISP	Original
7.1.3.1.4(c)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(d)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.4(d)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(e)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.4(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(f)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.4(f)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.4(g)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.4(g)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.5	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(a)	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(b)	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(c)	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5(c)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(d)	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5(d)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(e)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.5(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(f)	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5(f)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(g)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.5(g)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.5(h)	5.6	Manage Emergency Services Data	EM	Original
7.1.3.1.5(h)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.6	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6	8.1	Get Archive Data	ADMS	Original
7.1.3.1.6(a)	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.6(b)	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.6(c)	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6(c)	8.1	Get Archive Data	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.3.1.6(d)	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6(d)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.6(e)	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.6(f)	2.5.9	Manage Commercial Vehicle Archive Data	CVAS	Original
7.1.3.1.6(f)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.7	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.7	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.1.3.1.7	8.1	Get Archive Data	ADMS	Original
7.1.3.1.7	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.7(a)	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.7(a)	1.5.9	Manage Pollution Archive Data	EMMS	Original
7.1.3.1.7(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.7(a)	8.9	Manage Roadside Data Collection	ADMS	Original
7.1.3.1.7(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.1.3.1.8	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.8	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3.1.8	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.1.3.1.8	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1.3.1.8	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.1.3.1.8	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.1.3.1.8	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.1.3.1.8	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.1.3.1.8	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
7.1.3.1.8	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.3.1.8	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.3.1.8	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.1.3.1.8	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1.3.1.8	6.6.5	Select Other Routes	ISP	Original
7.1.3.1.8	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(a)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(a)	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1.3.1.8(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(b)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.8(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(c)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(c)	6.6.2.2	Provide Vehicle Route Calculation Data	ISP	Original
7.1.3.1.8(c)	6.6.2.6	Calculate Vehicle Probe Data for Guidance	ISP	Original
7.1.3.1.8(c)	6.6.5	Select Other Routes	ISP	Original
7.1.3.1.8(c)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(d)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(d)	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.3.1.8(d)	8.1	Get Archive Data	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.3.1.8(e)	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3.1.8(e)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1.3.1.8(e)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(f)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(f)	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.3.1.8(f)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(g)	1.1.4.6	Provide Traffic Data Retrieval Interface	ISP	Original
7.1.3.1.8(g)	4.1.8	Provide Transit Operations Data Distribution Interface	ISP	Original
7.1.3.1.8(g)	6.1.1	Provide Trip Planning Information to Traveler	ISP	Original
7.1.3.1.8(g)	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.1.3.1.8(g)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(g)	6.2.1.2	Provide Traffic and Transit Advisory Messages	ISP	Original
7.1.3.1.8(g)	6.2.6	Provide Yellow Pages Data and Reservations	ISP	Original
7.1.3.1.8(g)	6.5.2	Provide Traveler Yellow Pages Information and Reservations	ISP	Original
7.1.3.1.8(g)	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.3.1.8(g)	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.3.1.8(g)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.8(h)	6.1.2	Confirm Traveler's Trip Plan	ISP	Original
7.1.3.1.8(h)	6.1.5	Collect Service Requests and Confirmation for Archive	ISP	Original
7.1.3.1.8(h)	6.1.6	Manage Traveler Info Archive Data	ISP	Original
7.1.3.1.8(h)	6.6.1	Provide Multi-Modal Route Selection	ISP	Original
7.1.3.1.8(h)	6.6.2.1	Calculate Vehicle Route	ISP	Original
7.1.3.1.8(h)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.9	1.1.4.4	Update Traffic Display Map Data	TMS	Original
7.1.3.1.9	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.9	1.1.5	Exchange data with Other Traffic Centers	TMS	Original
7.1.3.1.9	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.1.3.1.9	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3.1.9	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
7.1.3.1.9	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.1.3.1.9	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.9	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9(a)	1.1.4.7	Manage Traffic Archive Data	TMS	Original
7.1.3.1.9(a)	1.2.2.2	Determine Indicator State for Road Management	TMS	Original
7.1.3.1.9(a)	1.2.6.1	Maintain Traffic and Sensor Static Data	TMS	Original
7.1.3.1.9(a)	1.2.6.2	Provide Static Data Store Output Interface	TMS	Original
7.1.3.1.9(a)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9(b)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.9(b)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9(c)	1.1.1.4	Manage Data Collection and Monitoring	RS	Original
7.1.3.1.9(c)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.9(c)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9(d)	1.1.5	Exchange data with Other Traffic Centers	TMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.3.1.9(d)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.9(d)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9(e)	1.1.4.4	Update Traffic Display Map Data	TMS	Original
7.1.3.1.9(e)	1.2.5.5	Manage Parking Archive Data	PMS	Original
7.1.3.1.9(e)	4.2.4	Manage Transit Archive Data	TRMS	Original
7.1.3.1.9(e)	8.1	Get Archive Data	ADMS	Original
7.1.3.1.9(f)	8.1	Get Archive Data	ADMS	Original
7.1.3.2	8.1	Get Archive Data	ADMS	Original
7.1.3.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.3	8.1	Get Archive Data	ADMS	Original
7.1.3.3	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.4	8.1	Get Archive Data	ADMS	Original
7.1.3.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.5	8.1	Get Archive Data	ADMS	Original
7.1.3.5	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.5.1	8.1	Get Archive Data	ADMS	Original
7.1.3.5.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.5.2	8.1	Get Archive Data	ADMS	Original
7.1.3.5.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.6	8.1	Get Archive Data	ADMS	Original
7.1.3.6	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.7	8.1	Get Archive Data	ADMS	Original
7.1.3.7	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.7	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.3.7	8.6	Analyze Archive	ADMS	Original
7.1.3.8	8.1	Get Archive Data	ADMS	Original
7.1.3.8	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.3.9	8.1	Get Archive Data	ADMS	Original
7.1.4	8.1	Get Archive Data	ADMS	Original
7.1.4	8.2	Manage Archive	ADMS	Original
7.1.4.1	8.1	Get Archive Data	ADMS	Original
7.1.4.1	8.2	Manage Archive	ADMS	Original
7.1.4.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.1.1	8.1	Get Archive Data	ADMS	Original
7.1.4.1.1	8.2	Manage Archive	ADMS	Original
7.1.4.1.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.1.2	8.1	Get Archive Data	ADMS	Original
7.1.4.1.2	8.2	Manage Archive	ADMS	Original
7.1.4.1.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.1.3	8.1	Get Archive Data	ADMS	Original
7.1.4.1.3	8.2	Manage Archive	ADMS	Original
7.1.4.1.3	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.2	8.1	Get Archive Data	ADMS	Original
7.1.4.2	8.2	Manage Archive	ADMS	Original
7.1.4.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.4.2(a)	8.2	Manage Archive	ADMS	Original
7.1.4.2(a)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.2(b)	8.2	Manage Archive	ADMS	Original
7.1.4.2(b)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.2(c)	8.1	Get Archive Data	ADMS	Original
7.1.4.2(c)	8.2	Manage Archive	ADMS	Original
7.1.4.2(c)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.2(d)	8.2	Manage Archive	ADMS	Original
7.1.4.2(d)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.3	8.2	Manage Archive	ADMS	Original
7.1.4.4	8.1	Get Archive Data	ADMS	Original
7.1.4.4	8.2	Manage Archive	ADMS	Original
7.1.4.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.4	8.4	Coordinate Archives	ADMS	Original
7.1.4.4	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.4.4	8.6	Analyze Archive	ADMS	Original
7.1.4.4	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.4.4(a)	8.1	Get Archive Data	ADMS	Original
7.1.4.4(a)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.4(a)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.4.4(b)	8.1	Get Archive Data	ADMS	Original
7.1.4.4(b)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.4(b)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.4.4(c)	8.1	Get Archive Data	ADMS	Original
7.1.4.4(c)	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.4.4(c)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.4.4(c)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.4.5	8.1	Get Archive Data	ADMS	Original
7.1.4.5	8.2	Manage Archive	ADMS	Original
7.1.4.5	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.5	8.2	Manage Archive	ADMS	Original
7.1.5	8.4	Coordinate Archives	ADMS	Original
7.1.5	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5	8.6	Analyze Archive	ADMS	Original
7.1.5	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.1	8.2	Manage Archive	ADMS	Original
7.1.5.1	8.4	Coordinate Archives	ADMS	Original
7.1.5.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.1	8.6	Analyze Archive	ADMS	Original
7.1.5.1(a)	8.2	Manage Archive	ADMS	Original
7.1.5.1(a)	8.4	Coordinate Archives	ADMS	Original
7.1.5.1(a)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.1(a)	8.6	Analyze Archive	ADMS	Original
7.1.5.1(b)	8.2	Manage Archive	ADMS	Original
7.1.5.1(b)	8.4	Coordinate Archives	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.5.1(b)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.1(b)	8.6	Analyze Archive	ADMS	Original
7.1.5.1(c)	8.2	Manage Archive	ADMS	Original
7.1.5.1(c)	8.4	Coordinate Archives	ADMS	Original
7.1.5.1(c)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.1(c)	8.6	Analyze Archive	ADMS	Original
7.1.5.1(d)	8.2	Manage Archive	ADMS	Original
7.1.5.1(d)	8.4	Coordinate Archives	ADMS	Original
7.1.5.1(d)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.1(d)	8.6	Analyze Archive	ADMS	Original
7.1.5.2	8.2	Manage Archive	ADMS	Original
7.1.5.2	8.4	Coordinate Archives	ADMS	Original
7.1.5.2	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.2	8.6	Analyze Archive	ADMS	Original
7.1.5.2	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.1	8.6	Analyze Archive	ADMS	Original
7.1.5.2.1(a)	8.6	Analyze Archive	ADMS	Original
7.1.5.2.1(b)	8.6	Analyze Archive	ADMS	Original
7.1.5.2.1(c)	8.6	Analyze Archive	ADMS	Original
7.1.5.2.1(d)	8.6	Analyze Archive	ADMS	Original
7.1.5.2.2	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.2.3	8.2	Manage Archive	ADMS	Original
7.1.5.2.3	8.4	Coordinate Archives	ADMS	Original
7.1.5.2.3	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.2.3	8.6	Analyze Archive	ADMS	Original
7.1.5.2.4	8.2	Manage Archive	ADMS	Original
7.1.5.2.4	8.4	Coordinate Archives	ADMS	Original
7.1.5.2.4	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.5.2.4	8.6	Analyze Archive	ADMS	Original
7.1.5.2.5	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(a)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(b)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(c)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(d)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(e)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(f)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(g)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(h)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(i)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.2.5(j)	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.5.3	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6	8.1	Get Archive Data	ADMS	Original
7.1.6	8.2	Manage Archive	ADMS	Original
7.1.6	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6	8.4	Coordinate Archives	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.6	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6	8.6	Analyze Archive	ADMS	Original
7.1.6	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.6.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.1	8.6	Analyze Archive	ADMS	Original
7.1.6.1	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.1.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.1.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.1.1	8.6	Analyze Archive	ADMS	Original
7.1.6.1.1	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.2	8.1	Get Archive Data	ADMS	Original
7.1.6.2	8.2	Manage Archive	ADMS	Original
7.1.6.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.2	8.4	Coordinate Archives	ADMS	Original
7.1.6.2	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.2	8.6	Analyze Archive	ADMS	Original
7.1.6.2	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.2	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.6.2.1	8.1	Get Archive Data	ADMS	Original
7.1.6.2.1	8.2	Manage Archive	ADMS	Original
7.1.6.2.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.2.2	8.2	Manage Archive	ADMS	Original
7.1.6.2.2	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.2.2	8.4	Coordinate Archives	ADMS	Original
7.1.6.2.2	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.2.2	8.6	Analyze Archive	ADMS	Original
7.1.6.2.2	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.2.2	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.6.3	8.2	Manage Archive	ADMS	Original
7.1.6.3	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.3	8.4	Coordinate Archives	ADMS	Original
7.1.6.3	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.3	8.6	Analyze Archive	ADMS	Original
7.1.6.3	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.3	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.6.3.1	8.2	Manage Archive	ADMS	Original
7.1.6.3.1	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.3.1	8.4	Coordinate Archives	ADMS	Original
7.1.6.3.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.3.1	8.6	Analyze Archive	ADMS	Original
7.1.6.3.1	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.3.1	8.8	Prepare Government Reporting Inputs	ADMS	Original
7.1.6.3.2	8.2	Manage Archive	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.6.3.2	8.6	Analyze Archive	ADMS	Original
7.1.6.3.3	8.2	Manage Archive	ADMS	Original
7.1.6.3.3	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.3.3	8.6	Analyze Archive	ADMS	Original
7.1.6.4	8.3	Manage Archive Data Administrator Interface	ADMS	Original
7.1.6.4	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4	8.6	Analyze Archive	ADMS	Original
7.1.6.4	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(a)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(a)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(a)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(b)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(b)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(b)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(c)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(c)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(c)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(d)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(d)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(d)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(e)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(e)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(e)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(f)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(f)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(f)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.1(g)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.1(g)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.1(g)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.2	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.2	8.6	Analyze Archive	ADMS	Original
7.1.6.4.2	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.2(a)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.2(a)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.2(a)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.2(b)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.2(b)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.2(b)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.2(c)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.2(c)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.2(c)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.2(d)	8.5	Process Archived Data User System Requests	ADMS	Original

Table D.1 (Continued)

USR	P-Spec	Name	System	Status
7.1.6.4.2(d)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.2(d)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.3	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.3	8.6	Analyze Archive	ADMS	Original
7.1.6.4.3	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.3(a)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.3(a)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.3(a)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.3(b)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.3(b)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.3(b)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.3(c)	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.3(c)	8.6	Analyze Archive	ADMS	Original
7.1.6.4.3(c)	8.7	Process On Demand Archive Requests	ADMS	Original
7.1.6.4.4	8.5	Process Archived Data User System Requests	ADMS	Original
7.1.6.4.4	8.6	Analyze Archive	ADMS	Original
7.1.6.4.4	8.7	Process On Demand Archive Requests	ADMS	Original

Appendix E

FDOT ITS Plan Data Flows

Table E.1 – ITS Plan Data Flows

Data Flow Name	Source	Destination
advanced_fares_and_charges_request	7.1.4 (Vehicle)	7.1.6 (Information Service Provider)
advanced_fares_and_charges_response	7.1.6 (Information Service Provider)	7.1.4 (Vehicle)
advanced_tolls_and_charges_roadside_confirm	7.3.2 (Information Service Provider)	4.7.2.5 (Remote Traveler Support)
advanced_tolls_and_charges_roadside_request	4.7.2.5 (Remote Traveler Support)	7.3.2 (Information Service Provider)
advanced_tolls_and_fares_request	7.2.4 (Vehicle)	7.2.6 (Information Service Provider)
advanced_tolls_and_fares_response	7.2.6 (Information Service Provider)	7.2.4 (Vehicle)
advanced_traveler_tolls_confirm	7.1.1.8 (Toll Administration)	7.4.3 (Information Service Provider)
advanced_traveler_tolls_request	7.4.3 (Information Service Provider)	7.1.1.8 (Toll Administration)
advisory_data	6.2.1.2 (Information Service Provider)	6.2.2 (Vehicle)
advisory_data_request	6.2.2 (Vehicle)	6.2.1.2 (Information Service Provider)
advisory_data_request_for_archive	6.2.1.2 (Information Service Provider)	6.1.5 (Information Service Provider)
analyze_archive_data_request	8.6 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
approach_warning	1.6.1.4.3 (Roadway Subsystem)	1.6.1.4.4 (Roadway Subsystem)
approaching_train_announcement	1.6.3.1 (Roadway Subsystem)	1.6.3.2 (Roadway Subsystem)
approaching_train_data	1.6.3.1 (Roadway Subsystem)	1.6.1.1 (Roadway Subsystem)
approved_corrective_plan	4.1.4 (Transit Management)	4.1.2.2 (Transit Vehicle Subsystem)
archive_administration_data	8.2 (Archived Data Management Subsystem)	8.3 (Archived Data Management Subsystem)
archive_administration_request	8.3 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
archive_data_for_analysis	8.2 (Archived Data Management Subsystem)	8.6 (Archived Data Management Subsystem)
archive_data_product	8.2 (Archived Data Management Subsystem)	8.5 (Archived Data Management Subsystem)
archive_data_product_request	8.5 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
archive_environmental_sensor_data	1.1.1.3 (Roadway Subsystem)	1.1.1.4 (Roadway Subsystem)
archive_manage_emergency_vehicle_data	5.3.6 (Emergency Management)	5.6 (Emergency Management)
archive_pollution_data	1.5.2 (Emissions Management)	1.5.9 (Emissions Management)
archive_pollution_reference_data	1.5.8 (Emissions Management)	1.5.9 (Emissions Management)
archive_pollution_state_data	1.5.4 (Emissions Management)	1.5.9 (Emissions Management)
archive_provide_emergency_service_allocation_data	5.1.5 (Emergency Management)	5.6 (Emergency Management)
archive_request_confirmation	8.3 (Archived Data Management Subsystem)	8.7 (Archived Data Management Subsystem)
ats_advisory	1.6.3.2 (Roadway Subsystem)	1.6.3.3 (Roadway Subsystem)
ats_alert	1.6.3.3 (Roadway Subsystem)	1.6.3.1 (Roadway Subsystem)
ats_status	1.6.3.1 (Roadway Subsystem)	1.6.3.3 (Roadway Subsystem)
ats_warning_notification	1.6.3.3 (Roadway Subsystem)	1.6.3.2 (Roadway Subsystem)
autonomous_traveler_guidance_accepted	6.8.1.1.1 (Personal Information Access)	6.8.1.1.3 (Personal Information Access)
autonomous_traveler_guidance_data	6.8.1.1.3 (Personal Information Access)	6.8.1.1.1 (Personal Information Access)
autonomous_traveler_guidance_data_request	6.8.1.1.1 (Personal Information Access)	6.8.1.1.3 (Personal Information Access)

Table E.1 (Continued)

Data Flow Name	Source	Destination
autonomous_vehicle_guidance_accepted	6.7.2.1.1 (Vehicle)	6.7.2.1.3 (Vehicle)
autonomous_vehicle_guidance_data	6.7.2.1.3 (Vehicle)	6.7.2.1.1 (Vehicle)
autonomous_vehicle_guidance_data_request	6.7.2.1.1 (Vehicle)	6.7.2.1.3 (Vehicle)
barrier_control_request	1.6.1.2.1 (Roadway Subsystem)	1.6.1.2.2 (Roadway Subsystem)
barrier_device_control	1.6.1.2.2 (Roadway Subsystem)	1.6.1.2.5 (Roadway Subsystem)
barrier_device_control_state	1.6.1.2.2 (Roadway Subsystem)	1.6.1.2.6 (Roadway Subsystem)
billing_for_tolls_needed	7.1.1.4 (Toll Collection)	7.1.1.5 (Toll Collection)
broadcast_data	6.2.1.4 (Information Service Provider)	6.2.2 (Vehicle)
cf_hazmat_request	5.1.4 (Emergency Management)	2.1.1 (Fleet and Freight Management)
cf_hazmat_route_information	2.1.1 (Fleet and Freight Management)	5.1.1 (Emergency Management)
cf_hazmat_vehicle_information	2.1.1 (Fleet and Freight Management)	5.1.4 (Emergency Management)
cf_tag_data_store_output	2.6.5 (Commercial Vehicle Subsystem)	2.6.1 (Fleet and Freight Management)
cf_tag_data_store_request	2.6.1 (Fleet and Freight Management)	2.6.5 (Commercial Vehicle Subsystem)
cf_tag_data_store_write	2.6.1 (Fleet and Freight Management)	2.6.5 (Commercial Vehicle Subsystem)
cf_tax_audit_data	2.1.1 (Fleet and Freight Management)	2.5.1 (Commercial Vehicle Administration)
close_hri	1.6.1.7.2 (Roadway Subsystem)	1.6.1.7.3 (Roadway Subsystem)
closure_event_data	1.6.4.1 (Traffic Management)	1.6.4.2 (Traffic Management)
collected_roadside_data	8.9 (Archived Data Management Subsystem)	8.1 (Archived Data Management Subsystem)
collected_roadside_data_status	8.1 (Archived Data Management Subsystem)	8.9 (Archived Data Management Subsystem)
collection_administration_request	8.3 (Archived Data Management Subsystem)	8.9 (Archived Data Management Subsystem)
collection_administration_status	8.9 (Archived Data Management Subsystem)	8.3 (Archived Data Management Subsystem)
collision_data	3.1.3 (Vehicle)	3.1.1 (Vehicle)
confirm_advanced_tolls_payment	7.1.1.5 (Toll Collection)	7.1.1.8 (Toll Administration)
control_data_for_highways	1.2.4.2 (Traffic Management)	1.1.5 (Traffic Management)
control_data_for_roads	1.2.4.1 (Traffic Management)	1.1.5 (Traffic Management)
control_status	3.2.3.1 (Vehicle)	3.2.1 (Vehicle)
coordination_data_freeways_to_roads	1.2.2.1 (Traffic Management)	1.2.2.2 (Traffic Management)
coordination_data_ramps_to_roads	1.2.3 (Traffic Management)	1.2.2.2 (Traffic Management)
coordination_data_roads_to_freeways	1.2.2.2 (Traffic Management)	1.2.2.1 (Traffic Management)
coordination_data_roads_to_ramps	1.2.2.2 (Traffic Management)	1.2.3 (Traffic Management)
crew_close_hri	1.6.1.7.1 (Roadway Subsystem)	1.6.1.7.3 (Roadway Subsystem)
current_conditions	6.5.1 (Information Service Provider)	6.1.1 (Information Service Provider)
current_highway_network_data	1.2.2.1 (Traffic Management)	1.1.2.1 (Traffic Management)
current_highway_network_state	1.2.2.1 (Traffic Management)	6.6.2.2 (Information Service Provider)
current_hri_state	1.6.1.1 (Roadway Subsystem)	1.6.1.6.1 (Roadway Subsystem)
current_incident_data	1.3.2.3 (Traffic Management)	1.1.2.1 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
current_incident_data	1.3.2.3 (Traffic Management)	1.1.3 (Traffic Management)
current_incident_data_for_vehicle_signage	1.3.3 (Traffic Management)	1.2.4.3 (Traffic Management)
current_incident_static_data	1.3.1.2 (Traffic Management)	1.2.6.1 (Traffic Management)
current_incidents	1.3.2.3 (Traffic Management)	1.3.4.1 (Traffic Management)
current_incidents_data	1.3.2.5 (Traffic Management)	1.3.2.3 (Traffic Management)
current_incidents_data_output	1.3.2.3 (Traffic Management)	1.3.3 (Traffic Management)
current_incidents_data_request	1.3.2.3 (Traffic Management)	1.3.2.5 (Traffic Management)
current_incidents_data_update	1.3.2.3 (Traffic Management)	1.3.2.5 (Traffic Management)
current_incidents_new_data	1.3.2.2 (Traffic Management)	1.3.2.5 (Traffic Management)
current_incidents_request	1.3.4.1 (Traffic Management)	1.3.2.3 (Traffic Management)
current_other_routes_use	6.6.5 (Information Service Provider)	1.4.2 (Traffic Management)
current_other_routes_use_for_archive	6.6.5 (Information Service Provider)	6.1.6 (Information Service Provider)
current_ramp_state	1.2.3 (Traffic Management)	1.1.2.1 (Traffic Management)
current_road_network_data	1.2.2.2 (Traffic Management)	1.1.2.1 (Traffic Management)
current_road_network_state	1.2.2.2 (Traffic Management)	6.6.2.2 (Information Service Provider)
current_road_network_use	6.6.2.2 (Information Service Provider)	1.1.2.1 (Traffic Management)
current_road_network_use	6.6.2.2 (Information Service Provider)	1.2.1 (Traffic Management)
current_road_network_use	6.6.2.2 (Information Service Provider)	1.3.1.1 (Traffic Management)
current_road_network_use_for_archive	6.6.2.2 (Information Service Provider)	6.1.6 (Information Service Provider)
current_toll_transactions	7.1.1.5 (Toll Collection)	7.1.1.9 (Toll Administration)
current_traffic_pollution_data	1.5.2 (Emissions Management)	1.1.4.6 (Information Service Provider)
current_transit_routes_use	6.6.4 (Information Service Provider)	1.4.2 (Traffic Management)
cv_archive_data	2.5.9 (Commercial Vehicle Administration)	8.1 (Archived Data Management Subsystem)
cv_archive_request	8.1 (Archived Data Management Subsystem)	2.5.9 (Commercial Vehicle Administration)
cv_archive_status	8.1 (Archived Data Management Subsystem)	2.5.9 (Commercial Vehicle Administration)
cv_archived_inspection_data	2.3.3.5 (Commercial Vehicle Check)	2.3.6 (Commercial Vehicle Check)
cv_archived_safety_data	2.3.3.4 (Commercial Vehicle Check)	2.3.6 (Commercial Vehicle Check)
cv_check_credentials_request	2.5.1 (Commercial Vehicle Administration)	2.5.5 (Commercial Vehicle Administration)
cv_check_credentials_response	2.5.5 (Commercial Vehicle Administration)	2.5.1 (Commercial Vehicle Administration)
cv_commit_local_enrollment	2.5.4 (Commercial Vehicle Administration)	2.5.5 (Commercial Vehicle Administration)
cv_commit_remote_enrollment	2.5.5 (Commercial Vehicle Administration)	2.5.4 (Commercial Vehicle Administration)
cv_confirmed_enrollment	2.5.2 (Commercial Vehicle Administration)	2.5.1 (Commercial Vehicle Administration)
cv_credentials_data_output	2.3.2.1 (Commercial Vehicle Check)	2.3.5 (Commercial Vehicle Check)
cv_credentials_data_request	2.3.5 (Commercial Vehicle Check)	2.3.2.1 (Commercial Vehicle Check)
cv_credentials_database_update	2.5.6 (Commercial Vehicle Administration)	2.3.2.1 (Commercial Vehicle Check)
cv_credentials_enrollment_data	2.5.5 (Commercial Vehicle Administration)	2.5.9 (Commercial Vehicle Administration)
cv_credentials_information_request	2.3.2.1 (Commercial Vehicle Check)	2.5.6 (Commercial Vehicle Administration)
cv_credentials_information_response	2.5.6 (Commercial Vehicle Administration)	2.3.2.1 (Commercial Vehicle Check)

Table E.1 (Continued)

Data Flow Name	Source	Destination
cv_critical_safety_problem	2.4.3 (Commercial Vehicle Subsystem)	2.4.4 (Commercial Vehicle Subsystem)
cv_daily_logs	2.5.8 (Commercial Vehicle Administration)	2.5.9 (Commercial Vehicle Administration)
cv_driver_credit_identity	7.5.1 (Vehicle)	2.2.3 (Commercial Vehicle Subsystem)
cv_driver_data_input	2.4.4 (Commercial Vehicle Subsystem)	2.4.3 (Commercial Vehicle Subsystem)
cv_driver_data_output	2.4.3 (Commercial Vehicle Subsystem)	2.4.4 (Commercial Vehicle Subsystem)
cv_driver_enrollment_cost	2.2.3 (Commercial Vehicle Subsystem)	7.5.1 (Vehicle)
cv_driver_enrollment_information	2.2.1 (Fleet and Freight Management)	2.2.3 (Commercial Vehicle Subsystem)
cv_driver_enrollment_payment_confirmation	2.2.1 (Fleet and Freight Management)	2.2.3 (Commercial Vehicle Subsystem)
cv_driver_enrollment_payment_request	2.2.3 (Commercial Vehicle Subsystem)	2.2.1 (Fleet and Freight Management)
cv_driver_enrollment_request	2.2.3 (Commercial Vehicle Subsystem)	2.2.1 (Fleet and Freight Management)
cv_driver_route_data	2.2.1 (Fleet and Freight Management)	2.2.3 (Commercial Vehicle Subsystem)
cv_driver_route_request	2.2.3 (Commercial Vehicle Subsystem)	2.2.1 (Fleet and Freight Management)
cv_driver_storage_request	2.2.3 (Commercial Vehicle Subsystem)	2.2.1 (Fleet and Freight Management)
cv_electronic_clearance_data	2.6.2 (Commercial Vehicle Subsystem)	2.3.4 (Commercial Vehicle Check)
cv_enrollment_information	2.5.1 (Commercial Vehicle Administration)	2.2.1 (Fleet and Freight Management)
cv_enrollment_list	2.5.1 (Commercial Vehicle Administration)	2.5.2 (Commercial Vehicle Administration)
cv_enrollment_payment_confirmation	2.5.1 (Commercial Vehicle Administration)	2.2.1 (Fleet and Freight Management)
cv_enrollment_payment_request	2.2.1 (Fleet and Freight Management)	2.5.1 (Commercial Vehicle Administration)
cv_enrollment_request	2.2.1 (Fleet and Freight Management)	2.5.1 (Commercial Vehicle Administration)
cv_general_decision	2.3.4 (Commercial Vehicle Check)	2.3.5 (Commercial Vehicle Check)
cv_general_input_message	2.4.5 (Commercial Vehicle Subsystem)	2.4.4 (Commercial Vehicle Subsystem)
cv_general_output_message	2.4.4 (Commercial Vehicle Subsystem)	2.4.5 (Commercial Vehicle Subsystem)
cv_general_override	2.3.5 (Commercial Vehicle Check)	2.3.4 (Commercial Vehicle Check)
cv_general_pull_in_output	2.3.4 (Commercial Vehicle Check)	2.3.1 (Commercial Vehicle Check)
cv_get_on_board_data	2.3.3.5 (Commercial Vehicle Check)	2.3.3.1 (Commercial Vehicle Check)
cv_incident_override	1.3.3 (Traffic Management)	1.2.1 (Traffic Management)
cv_incidents_for_other_TMC	1.2.1 (Traffic Management)	1.1.5 (Traffic Management)
cv_inspection_data	2.3.3.5 (Commercial Vehicle Check)	2.3.3.1 (Commercial Vehicle Check)
cv_inspection_data_output	2.3.3.1 (Commercial Vehicle Check)	2.4.1 (Commercial Vehicle Subsystem)
cv_inspection_data_update	2.4.1 (Commercial Vehicle Subsystem)	2.4.6 (Commercial Vehicle Subsystem)
cv_inspection_results	2.3.3.5 (Commercial Vehicle Check)	2.3.3.2 (Commercial Vehicle Check)
cv_inspector_safety_data_input	2.3.3.2 (Commercial Vehicle Check)	2.3.3.5 (Commercial Vehicle Check)
cv_lock_tag_data	2.6.4 (Commercial Vehicle Subsystem)	2.6.2 (Commercial Vehicle Subsystem)
cv_manual_pull_in	2.3.5 (Commercial Vehicle Check)	2.3.4 (Commercial Vehicle Check)
cv_provide_credentials_data_for_inspections	2.6.5 (Commercial Vehicle Subsystem)	2.4.6 (Commercial Vehicle Subsystem)
cv_provide_enrollment_data	2.5.1 (Commercial Vehicle Administration)	2.5.4 (Commercial Vehicle Administration)
cv_remote_enrollment_confirmation	2.5.4 (Commercial Vehicle Administration)	2.5.1 (Commercial Vehicle Administration)
cv_remote_enrollment_request	2.5.1 (Commercial Vehicle Administration)	2.5.4 (Commercial Vehicle Administration)

Table E.1 (Continued)

Data Flow Name	Source	Destination
cv_request_electronic_clearance_data	2.3.4 (Commercial Vehicle Check)	2.6.2 (Commercial Vehicle Subsystem)
cv_request_enrollment_data	2.5.4 (Commercial Vehicle Administration)	2.5.1 (Commercial Vehicle Administration)
cv_request_lock_tag_data	2.6.2 (Commercial Vehicle Subsystem)	2.6.4 (Commercial Vehicle Subsystem)
cv_request_on_board_data	2.3.3.1 (Commercial Vehicle Check)	2.4.1 (Commercial Vehicle Subsystem)
cv_request_on_board_vehicle_data	2.2.4 (Commercial Vehicle Subsystem)	2.4.5 (Commercial Vehicle Subsystem)
cv_request_permits_and_duties_update	2.5.1 (Commercial Vehicle Administration)	2.5.3 (Commercial Vehicle Administration)
cv_request_vehicle_data	2.2.3 (Commercial Vehicle Subsystem)	2.2.4 (Commercial Vehicle Subsystem)
cv_roadside_daily_log	2.3.6 (Commercial Vehicle Check)	2.5.8 (Commercial Vehicle Administration)
cv_roadside_facility_location	2.5.3 (Commercial Vehicle Administration)	2.5.5 (Commercial Vehicle Administration)
cv_roadside_operator_data_request	2.3.5 (Commercial Vehicle Check)	2.3.6 (Commercial Vehicle Check)
cv_roadside_operator_output	2.3.6 (Commercial Vehicle Check)	2.3.5 (Commercial Vehicle Check)
cv_route	6.6.1 (Information Service Provider)	2.2.1 (Fleet and Freight Management)
cv_route_request	2.2.1 (Fleet and Freight Management)	6.6.1 (Information Service Provider)
cv_safety_data	2.3.4 (Commercial Vehicle Check)	2.3.3.4 (Commercial Vehicle Check)
cv_safety_data_request	2.3.5 (Commercial Vehicle Check)	2.3.3.3 (Commercial Vehicle Check)
cv_safety_data_response	2.3.3.3 (Commercial Vehicle Check)	2.3.5 (Commercial Vehicle Check)
cv_safety_database_update	2.5.6 (Commercial Vehicle Administration)	2.3.3.3 (Commercial Vehicle Check)
cv_safety_decision	2.3.3.4 (Commercial Vehicle Check)	2.3.5 (Commercial Vehicle Check)
cv_safety_information_request	2.3.3.3 (Commercial Vehicle Check)	2.5.6 (Commercial Vehicle Administration)
cv_safety_information_response	2.5.6 (Commercial Vehicle Administration)	2.3.3.3 (Commercial Vehicle Check)
cv_safety_override	2.3.5 (Commercial Vehicle Check)	2.3.3.4 (Commercial Vehicle Check)
cv_safety_pull_in_output	2.3.3.4 (Commercial Vehicle Check)	2.3.1 (Commercial Vehicle Check)
cv_screening_data	2.3.4 (Commercial Vehicle Check)	2.3.2.2 (Commercial Vehicle Check)
cv_screening_decision	2.3.2.2 (Commercial Vehicle Check)	2.3.5 (Commercial Vehicle Check)
cv_screening_override	2.3.5 (Commercial Vehicle Check)	2.3.2.2 (Commercial Vehicle Check)
cv_screening_pull_in_output	2.3.2.2 (Commercial Vehicle Check)	2.3.1 (Commercial Vehicle Check)
cv_screening_record	2.3.2.2 (Commercial Vehicle Check)	2.3.6 (Commercial Vehicle Check)
cv_start_inspection	2.3.3.2 (Commercial Vehicle Check)	2.3.3.5 (Commercial Vehicle Check)
cv_static_route_data	2.2.2 (Commercial Vehicle Subsystem)	2.2.1 (Fleet and Freight Management)
cv_static_route_request	2.2.1 (Fleet and Freight Management)	2.2.2 (Commercial Vehicle Subsystem)
cv_tag_data_store_needed	2.6.2 (Commercial Vehicle Subsystem)	2.6.5 (Commercial Vehicle Subsystem)
cv_tag_data_store_output	2.6.5 (Commercial Vehicle Subsystem)	2.6.3 (Commercial Vehicle Subsystem)
cv_tag_data_store_read	2.6.5 (Commercial Vehicle Subsystem)	2.6.2 (Commercial Vehicle Subsystem)
cv_tag_data_store_request	2.6.3 (Commercial Vehicle Subsystem)	2.6.5 (Commercial Vehicle Subsystem)
cv_tag_data_store_update	2.6.2 (Commercial Vehicle Subsystem)	2.6.5 (Commercial Vehicle Subsystem)
cv_tag_data_store_write	2.6.3 (Commercial Vehicle Subsystem)	2.6.5 (Commercial Vehicle Subsystem)
cv_update_new_credentials_request	2.5.1 (Commercial Vehicle Administration)	2.5.5 (Commercial Vehicle Administration)
cv_update_new_credentials_response	2.5.5 (Commercial Vehicle Administration)	2.5.1 (Commercial Vehicle Administration)

Table E.1 (Continued)

Data Flow Name	Source	Destination
cv_update_safety_problems_list	2.3.3.5 (Commercial Vehicle Check)	2.5.8 (Commercial Vehicle Administration)
cv_vehicle_data	2.2.4 (Commercial Vehicle Subsystem)	2.2.3 (Commercial Vehicle Subsystem)
cv_violation_data	2.5.7 (Commercial Vehicle Administration)	5.4.6 (Commercial Vehicle Administration)
defined_incident_response_changes	1.3.5 (Traffic Management)	1.3.6 (Traffic Management)
defined_incident_response_data	1.3.6 (Traffic Management)	1.3.4.2 (Traffic Management)
defined_incident_response_data_request	1.3.4.2 (Traffic Management)	1.3.6 (Traffic Management)
defined_incident_response_update_request	1.3.4.2 (Traffic Management)	1.3.5 (Traffic Management)
defined_incident_response_updates	1.3.4.2 (Traffic Management)	1.3.6 (Traffic Management)
demand_data_update_request	1.4.1 (Traffic Management)	1.4.2 (Traffic Management)
demand_forecast_request	1.4.1 (Traffic Management)	1.4.5 (Traffic Management)
demand_forecast_result	1.4.5 (Traffic Management)	1.4.1 (Traffic Management)
demand_management_activate	1.4.1 (Traffic Management)	1.4.4 (Traffic Management)
demand_management_result	1.4.4 (Traffic Management)	1.4.1 (Traffic Management)
demand_overrides	1.4.4 (Traffic Management)	1.2.1 (Traffic Management)
detailed_emergency_status	5.1.4 (Emergency Management)	5.1.3 (Emergency Management)
device_control_state	1.6.1.2.6 (Roadway Subsystem)	1.6.1.1 (Roadway Subsystem)
device_status	1.6.1.3 (Roadway Subsystem)	1.6.5.2 (Roadway Subsystem)
dms_data_for_highways	1.2.4.2 (Traffic Management)	1.2.7.5 (Roadway Subsystem)
dms_data_for_roads	1.2.4.1 (Traffic Management)	1.2.7.1 (Roadway Subsystem)
dms_status_for_highways	1.2.7.5 (Roadway Subsystem)	1.2.4.2 (Traffic Management)
dms_status_for_roads	1.2.7.1 (Roadway Subsystem)	1.2.4.1 (Traffic Management)
dms_updates_for_highways	1.3.3 (Traffic Management)	1.2.4.2 (Traffic Management)
dms_updates_for_roads	1.3.3 (Traffic Management)	1.2.4.1 (Traffic Management)
driver_advanced_payment_at_toll	7.1.4 (Vehicle)	7.1.7 (Vehicle)
driver_advanced_payment_for_map	6.7.2.3 (Vehicle)	7.5.1 (Vehicle)
driver_advisory_information	6.2.2 (Vehicle)	6.2.5 (Vehicle)
driver_advisory_information_request	6.2.5 (Vehicle)	6.2.2 (Vehicle)
driver_ahs_input	3.2.1 (Vehicle)	3.2.2 (Vehicle)
driver_broadcast_information	6.2.2 (Vehicle)	6.2.5 (Vehicle)
driver_commands	3.2.3.1 (Vehicle)	3.2.3.4.5 (Vehicle)
driver_credit_identity	7.5.1 (Vehicle)	6.7.2.3 (Vehicle)
driver_guidance_accepted	6.7.2.3 (Vehicle)	6.7.2.1.1 (Vehicle)
driver_guidance_data	6.7.2.3 (Vehicle)	6.7.2.1.1 (Vehicle)
driver_guidance_request	6.7.2.3 (Vehicle)	6.7.2.1.1 (Vehicle)
driver_input	3.2.1 (Vehicle)	3.2.3.1 (Vehicle)
driver_input_request	6.7.2.1.1 (Vehicle)	6.7.2.3 (Vehicle)
driver_manual_input	3.2.3.1 (Vehicle)	3.2.3.3 (Vehicle)
driver_map_update_payment_request	6.7.2.4 (Vehicle)	7.4.1.3 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
driver_map_update_payment_response	7.4.1.3 (Information Service Provider)	6.7.2.4 (Vehicle)
driver_map_update_payments_transactions	7.4.1.3 (Information Service Provider)	7.4.1.7 (Information Service Provider)
driver_map_update_request	6.7.2.3 (Vehicle)	6.7.2.4 (Vehicle)
driver_map_update_response	6.7.2.4 (Vehicle)	6.7.2.3 (Vehicle)
driver_parking_payment_credit_identity	7.2.7 (Vehicle)	7.2.4 (Vehicle)
driver_personal_emergency_request	6.7.1.1 (Vehicle)	6.7.1.2 (Vehicle)
driver_selection	3.2.3.1 (Vehicle)	3.2.3.2 (Vehicle)
driver_toll_payment_credit_identity	7.1.7 (Vehicle)	7.1.4 (Vehicle)
driving_guidance_instructions	6.7.2.1.1 (Vehicle)	6.7.2.3 (Vehicle)
dynamic_traveler_guidance_data	6.8.1.1.2 (Personal Information Access)	6.8.1.1.1 (Personal Information Access)
dynamic_traveler_guidance_data_request	6.8.1.1.1 (Personal Information Access)	6.8.1.1.2 (Personal Information Access)
dynamic_vehicle_guidance_data	6.7.2.1.2 (Vehicle)	6.7.2.1.1 (Vehicle)
dynamic_vehicle_guidance_data_request	6.7.2.1.1 (Vehicle)	6.7.2.1.2 (Vehicle)
em_archive_data	5.6 (Emergency Management)	8.1 (Archived Data Management Subsystem)
em_archive_request	8.1 (Archived Data Management Subsystem)	5.6 (Emergency Management)
em_archive_status	8.1 (Archived Data Management Subsystem)	5.6 (Emergency Management)
emergency_acknowledge_transit_details	4.4.1.1 (Transit Management)	4.4.1.8 (Remote Traveler Support)
emergency_data_for_other_TMC	1.2.1 (Traffic Management)	1.1.5 (Traffic Management)
emergency_data_request	5.1.3 (Emergency Management)	3.3.2 (Vehicle)
emergency_message_auto_output	3.3.2 (Vehicle)	6.2.2 (Vehicle)
emergency_message_driver_output	6.7.1.2 (Vehicle)	6.2.2 (Vehicle)
emergency_message_traveler_output	6.8.2.2 (Personal Information Access)	6.8.1.5 (Personal Information Access)
emergency_request_driver_acknowledge	5.1.3 (Emergency Management)	6.7.1.2 (Vehicle)
emergency_request_driver_details	6.7.1.2 (Vehicle)	5.1.6 (Emergency Management)
emergency_request_personal_traveler_acknowledge	5.1.3 (Emergency Management)	6.8.2.2 (Personal Information Access)
emergency_request_personal_traveler_details	6.8.2.2 (Personal Information Access)	5.1.1 (Emergency Management)
emergency_request_transit_details	4.4.1.8 (Remote Traveler Support)	4.4.1.1 (Transit Management)
emergency_request_traveler_acknowledge	5.1.3 (Emergency Management)	4.4.1.8 (Remote Traveler Support)
emergency_request_traveler_details	4.4.1.8 (Remote Traveler Support)	5.1.1 (Emergency Management)
emergency_request_vehicle_acknowledge	5.1.3 (Emergency Management)	3.3.2 (Vehicle)
emergency_request_vehicle_details	3.3.2 (Vehicle)	5.1.6 (Emergency Management)
emergency_response_data_for_communications	5.1.2 (Emergency Management)	5.1.3 (Emergency Management)
emergency_response_data_for_management	5.1.2 (Emergency Management)	5.1.4 (Emergency Management)
emergency_service_allocation_data	5.1.5 (Emergency Management)	5.1.2 (Emergency Management)
emergency_service_allocation_data_output	5.1.5 (Emergency Management)	5.2 (Emergency Management)
emergency_service_allocation_data_output_request	5.2 (Emergency Management)	5.1.5 (Emergency Management)
emergency_service_allocation_data_request	5.1.2 (Emergency Management)	5.1.5 (Emergency Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
emergency_service_allocation_data_updates	5.2 (Emergency Management)	5.1.5 (Emergency Management)
emergency_service_allocation_override	5.2 (Emergency Management)	5.1.4 (Emergency Management)
emergency_service_allocations	5.1.4 (Emergency Management)	5.2 (Emergency Management)
emergency_service_log_for_archive	5.1.3 (Emergency Management)	5.6 (Emergency Management)
emergency_service_log_output	5.1.3 (Emergency Management)	5.2 (Emergency Management)
emergency_service_log_output_request	5.2 (Emergency Management)	5.1.3 (Emergency Management)
emergency_traffic_control_request	5.3.2 (Emergency Management)	1.2.1 (Traffic Management)
emergency_traffic_control_response	1.2.1 (Traffic Management)	5.3.2 (Emergency Management)
emergency_vehicle_acknowledge	5.3.4 (Emergency Management)	5.1.4 (Emergency Management)
emergency_vehicle_dispatch_data	5.3.1 (Emergency Management)	5.3.2 (Emergency Management)
emergency_vehicle_dispatch_failure	5.1.4 (Emergency Management)	5.2 (Emergency Management)
emergency_vehicle_dispatch_request	5.3.2 (Emergency Management)	5.3.5 (Emergency Vehicle Subsystem)
emergency_vehicle_dispatch_response	5.3.5 (Emergency Vehicle Subsystem)	5.3.2 (Emergency Management)
emergency_vehicle_dispatch_status	5.3.1 (Emergency Management)	5.1.4 (Emergency Management)
emergency_vehicle_incident_details	5.1.4 (Emergency Management)	5.3.1 (Emergency Management)
emergency_vehicle_preemptions	5.3.3 (Emergency Vehicle Subsystem)	1.2.7.3 (Roadway Subsystem)
emergency_vehicle_response_request	5.1.4 (Emergency Management)	5.3.1 (Emergency Management)
emergency_vehicle_route	5.3.7 (Emergency Management)	5.3.2 (Emergency Management)
emergency_vehicle_route_assignment	5.3.7 (Emergency Management)	5.3.4 (Emergency Management)
emergency_vehicle_route_request	5.3.2 (Emergency Management)	5.3.7 (Emergency Management)
emergency_vehicle_status_data_change	5.3.1 (Emergency Management)	5.3.6 (Emergency Management)
emergency_vehicle_status_data_for_assessment	5.3.6 (Emergency Management)	5.3.4 (Emergency Management)
emergency_vehicle_status_data_for_dispatch	5.3.6 (Emergency Management)	5.3.2 (Emergency Management)
emergency_vehicle_status_data_for_responses	5.3.6 (Emergency Management)	5.3.1 (Emergency Management)
emergency_vehicle_status_data_needed	5.3.4 (Emergency Management)	5.3.6 (Emergency Management)
emergency_vehicle_status_data_request	5.3.1 (Emergency Management)	5.3.6 (Emergency Management)
emergency_vehicle_status_data_update	5.3.4 (Emergency Management)	5.3.6 (Emergency Management)
emergency_vehicle_suggested_route	5.3.2 (Emergency Management)	5.3.5 (Emergency Vehicle Subsystem)
emergency_vehicle_tracking_data	5.3.3 (Emergency Vehicle Subsystem)	5.3.6 (Emergency Management)
emissions_archive_data	1.5.9 (Emissions Management)	8.1 (Archived Data Management Subsystem)
emissions_archive_request	8.1 (Archived Data Management Subsystem)	1.5.9 (Emissions Management)
emissions_archive_status	8.1 (Archived Data Management Subsystem)	1.5.9 (Emissions Management)
environment_sensor_configuration_data	1.1.4.2 (Traffic Management)	1.1.1.3 (Roadway Subsystem)
environment_sensor_data	1.1.1.3 (Roadway Subsystem)	1.1.2.2 (Traffic Management)
environment_sensor_fault_data	1.1.1.3 (Roadway Subsystem)	1.1.1.2 (Traffic Management)
environmental_sensor_status	1.1.1.3 (Roadway Subsystem)	1.1.1.2 (Traffic Management)
evac_coord_evac_information	9.1(Evacuation Coordination)	6.5.3 (Information Service Provider)
evac_coord_evac_information_request	9.1 (Evacuation Coordination)	6.5.3 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
evac_coord_evac_management_info	1.1.2.7 (Traffic Management)	9.1 (Evacuation Coordination)
evac_coord_evac_management_request	1.1.2.7 (Traffic Management)	9.1 (Evacuation Coordination)
evac_coord_incident_information	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
evac_coord_incident_information_request	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
evac_coord_price_coordination	7.1.3 (Toll Collection)	9.1 (Evacuation Coordination)
evac_coord_resource_schedule_details	2.5.1 (Commercial Vehicle Admin)	9.1 (Evacuation Coordination)
evac_coord_resource_schedule_details_request	2.5.1 (Commercial Vehicle Admin)	9.1 (Evacuation Coordination)
evac_coord_resource_status_details	5.1.3 (Emergency Management)	9.1 (Evacuation Coordination)
evac_coord_resource_status_details_request	5.1.3 (Emergency Management)	9.1 (Evacuation Coordination)
evac_coord_resource_status_details	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
evac_coord_resource_status_details_request	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
evac_coord_traffic_information	1.1.2.7 (Traffic Management)	9.1 (Evacuation Coordination)
evac_coord_traffic_information_request	1.1.2.7 (Traffic Management)	9.1 (Evacuation Coordination)
evac_coord_transit_information	4.4.2 (Transit Management)	9.1 (Evacuation Coordination)
evac_coord_transit_information_request	4.4.2 (Transit Management)	9.1 (Evacuation Coordination)
evac_coord_traffic_video_data	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
evac_coord_traffic_video_data_request	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
evac_coord_traffic information	1.1.2.7 (Traffic Management)	6.5.3 (Information Service Provider)
evac_coord_vehicle_data	1.1.2.7 (Traffic Management)	6.5.3 (Information Service Provider)
evac_coord_vehicle_data_request	1.1.2.7 (Traffic Management)	6.5.3 (Information Service Provider)
existing_sensor_static_data	1.1.2.3 (Traffic Management)	1.2.6.1 (Traffic Management)
fada_archive_administration_requests	Archived Data Administrator	8.3 (Archived Data Management Subsystem)
fadu_archive_analysis_request	Archived Data User Systems	8.6 (Archived Data Management Subsystem)
fadu_archive_data_product_request	Archived Data User Systems	8.5 (Archived Data Management Subsystem)
fadu_on_demand_archive_request	Archived Data User Systems	8.7 (Archived Data Management Subsystem)
fault_data	1.1.1.1 (Roadway Subsystem)	1.1.1.4 (Roadway Subsystem)
fbv_crash_sensor_data	Basic Vehicle	3.3.3 (Vehicle)
fbv_diagnostics_data	Basic Vehicle	3.1.3 (Vehicle)
fbv_vehicle_lane_position	Basic Vehicle	3.2.3.5 (Vehicle)
fbv_vehicle_motion_data	Basic Vehicle	3.1.3 (Vehicle)
fbv_vehicle_on_ahs_lane	Basic Vehicle	3.2.3.5 (Vehicle)
fbv_vehicle_on_ahs_lane	Basic Vehicle	3.2.4 (Vehicle)
fbv_vehicle_proximity_data	Basic Vehicle	3.1.3 (Vehicle)
fbv_vehicle_safety_status	Basic Vehicle	3.1.3 (Vehicle)
fbv_vehicle_security_status	Basic Vehicle	3.1.3 (Vehicle)
fbv_vehicle_speed	Basic Vehicle	3.2.3.5 (Vehicle)
fci_credentials_data_request	CVO Inspector	2.3.5 (Commercial Vehicle Check)
fci_inspection_data_input	CVO Inspector	2.3.3.2 (Commercial Vehicle Check)

Table E.1 (Continued)

Data Flow Name	Source	Destination
fci_pull_in_action	CVO Inspector	2.3.5 (Commercial Vehicle Check)
fci_request_log_report	CVO Inspector	2.3.5 (Commercial Vehicle Check)
fci_safety_data_request	CVO Inspector	2.3.5 (Commercial Vehicle Check)
fci_start_inspection	CVO Inspector	2.3.3.2 (Commercial Vehicle Check)
fcm_c_and_m_archive_data	Construction and Maintenance	8.1 (Archived Data Management Subsystem)
fcm_fault_clearance	Construction and Maintenance	1.2.8.3 (Traffic Management)
fcm_incident_information	Construction and Maintenance	1.3.2.1 (Traffic Management)
fcm_resource_response	Construction and Maintenance	1.3.4.5 (Traffic Management)
fcm_sensor_fault_data	Construction and Maintenance	1.1.1.2 (Traffic Management)
fcv_brake_condition	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcv_cargo_data	Commercial Vehicle	3.3.1 (Commercial Vehicle Subsystem)
fcv_cargo_safety_status	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcv_cargo_safety_status	Commercial Vehicle	3.3.1 (Commercial Vehicle Subsystem)
fcv_distance_travelled	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcv_driver_safety_status	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcv_driver_status	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcv_lock_tag_data	Commercial Vehicle	2.6.4 (Commercial Vehicle Subsystem)
fcv_vehicle_characteristics	Commercial Vehicle	2.3.4 (Commercial Vehicle Check)
fcv_vehicle_safety_status	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcv_weight	Commercial Vehicle	2.4.2 (Commercial Vehicle Subsystem)
fcvd_activity_request	Commercial Vehicle Driver	2.2.3 (Commercial Vehicle Subsystem)
fcvd_carrier_number	Commercial Vehicle Driver	2.6.3 (Commercial Vehicle Subsystem)
fcvd_driver_data_input	Commercial Vehicle Driver	2.4.4 (Commercial Vehicle Subsystem)
fcvd_driver_general_message	Commercial Vehicle Driver	2.4.4 (Commercial Vehicle Subsystem)
fcvd_driver_input_type	Commercial Vehicle Driver	2.4.4 (Commercial Vehicle Subsystem)
fcvd_driver_number	Commercial Vehicle Driver	2.6.3 (Commercial Vehicle Subsystem)
fcvd_enrollment_payment_request	Commercial Vehicle Driver	2.2.3 (Commercial Vehicle Subsystem)
fcvd_enrollment_request	Commercial Vehicle Driver	2.2.3 (Commercial Vehicle Subsystem)
fcvd_other_data_input	Commercial Vehicle Driver	2.2.3 (Commercial Vehicle Subsystem)
fcvd_request_routing_instructions	Commercial Vehicle Driver	2.1.5 (Commercial Vehicle Subsystem)
fcvd_request_tag_data_output	Commercial Vehicle Driver	2.6.3 (Commercial Vehicle Subsystem)
fcvd_route_data	Commercial Vehicle Driver	2.2.3 (Commercial Vehicle Subsystem)
fcvd_route_request	Commercial Vehicle Driver	2.2.3 (Commercial Vehicle Subsystem)
fcvd_trip_identity	Commercial Vehicle Driver	2.6.3 (Commercial Vehicle Subsystem)
fcvd_vehicle_number	Commercial Vehicle Driver	2.6.3 (Commercial Vehicle Subsystem)
fcvm_carrier_number	Commercial Vehicle Manager	2.6.1 (Fleet and Freight Management)
fcvm_driver_number	Commercial Vehicle Manager	2.6.1 (Fleet and Freight Management)
fcvm_enrollment_payment_request	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
fcvm_enrollment_request	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_other_data_input	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_preclearance_data	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_request_driver_route_instructions	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_request_on_board_vehicle_data	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_request_tag_data_output	Commercial Vehicle Manager	2.6.1 (Fleet and Freight Management)
fcvm_roadside_activity_report_request	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_route_data	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_route_function_request	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_trip_identity	Commercial Vehicle Manager	2.6.1 (Fleet and Freight Management)
fcvm_update_driver_route_instructions	Commercial Vehicle Manager	2.1.3 (Fleet and Freight Management)
fcvm_vehicle_number	Commercial Vehicle Manager	2.6.1 (Fleet and Freight Management)
fcvoir_request_for_information	CVO Information Requestor	2.5.5 (Commercial Vehicle Administration)
fd_activate_vehicle_control	Driver	6.2.5 (Vehicle)
fd_emergency_request	Driver	6.7.1.1 (Vehicle)
fd_guidance_data	Driver	6.7.2.3 (Vehicle)
fd_guidance_map_update_request	Driver	6.7.2.3 (Vehicle)
fd_guidance_request	Driver	6.7.2.3 (Vehicle)
fd_guidance_route_accepted	Driver	6.7.2.3 (Vehicle)
fd_other_services_parking_request	Driver	7.2.4 (Vehicle)
fd_other_services_toll_request	Driver	7.1.4 (Vehicle)
fd_request_advisory_information	Driver	6.2.5 (Vehicle)
fdmv_cv_violation_state_identity	DMV	5.4.6 (Commercial Vehicle Administration)
fdmv_cv_violation_vehicle_registration	DMV	5.4.6 (Commercial Vehicle Administration)
fdmv_parking_lot_violation_state_identity	DMV	5.4.3 (Parking Management)
fdmv_parking_lot_violation_vehicle_registration	DMV	5.4.3 (Parking Management)
fdmv_toll_violation_state_identity	DMV	5.4.2 (Toll Administration)
fdmv_toll_violation_vehicle_registration	DMV	5.4.2 (Toll Administration)
fdmv_traffic_violation_state_identity	DMV	5.4.1 (Traffic Management)
fdmv_traffic_violation_vehicle_registration	DMV	5.4.1 (Traffic Management)
fe_area_pollutant_levels	Environment	1.5.2 (Emissions Management)
fe_roadside_pollutant_levels	Environment	1.5.6 (Roadway Subsystem)
fea_cv_enforcement_agency_response	Enforcement Agency	2.5.5 (Commercial Vehicle Administration)
feedback_change_lane_servo_status	3.2.3.4.4 (Vehicle)	3.2.3.4.5 (Vehicle)
feedback_headway_servo_status	3.2.3.4.2 (Vehicle)	3.2.3.4.5 (Vehicle)
feedback_lane_servo_status	3.2.3.4.3 (Vehicle)	3.2.3.4.5 (Vehicle)
fep_emergency_dispatch_acknowledge	Emergency Personnel	5.3.5 (Emergency Vehicle Subsystem)
fep_event_information	Event Promoters	1.3.2.1 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
fep_incident_command_request	Emergency Personnel	5.3.5 (Emergency Vehicle Subsystem)
fep_incident_status	Emergency Personnel	5.3.5 (Emergency Vehicle Subsystem)
fep_planned_event_data	Event Promoters	5.1.1 (Emergency Management)
feso_archive_commands	Emergency System Operator	5.6 (Emergency Management)
feso_emergency_action_log_request	Emergency System Operator	5.2 (Emergency Management)
feso_emergency_allocation_override	Emergency System Operator	5.2 (Emergency Management)
feso_emergency_data_input	Emergency System Operator	5.2 (Emergency Management)
feso_emergency_data_output_request	Emergency System Operator	5.2 (Emergency Management)
feso_emergency_display_update_request	Emergency System Operator	5.2 (Emergency Management)
fets_caller_information	Emergency Telecommunications System	5.1.1 (Emergency Management)
fets_incident_information	Emergency Telecommunications System	5.1.1 (Emergency Management)
ffi_archive_analysis_payment_confirm	Financial Institution	8.6 (Archived Data Management Subsystem)
ffi_archive_payment_confirm	Financial Institution	8.5 (Archived Data Management Subsystem)
ffi_bad_charges_payment_updates	Financial Institution	7.2.1.3 (Parking Management)
ffi_bad_fare_payment_updates	Financial Institution	7.3.1.6 (Transit Management)
ffi_bad_toll_payment_updates	Financial Institution	7.1.1.3 (Toll Administration)
ffi_confirm_charges_payment	Financial Institution	7.2.1.6 (Parking Management)
ffi_confirm_fare_payment	Financial Institution	7.3.1.3 (Transit Management)
ffi_confirm_toll_payment	Financial Institution	7.1.1.9 (Toll Administration)
ffi_cv_payment_confirm	Financial Institution	7.4.1.1 (Commercial Vehicle Administration)
ffi_driver_map_payment_confirm	Financial Institution	7.4.1.3 (Information Service Provider)
ffi_other_services_payment_confirm	Financial Institution	7.4.1.5 (Transit Management)
ffi_registration_payment_confirm	Financial Institution	7.4.1.2 (Information Service Provider)
ffi_traveler_display_payment_confirm	Financial Institution	7.4.1.4 (Information Service Provider)
ffi_traveler_map_payment_confirm	Financial Institution	7.4.1.4 (Information Service Provider)
ffi_traveler_other_services_payments_confirm	Financial Institution	7.4.1.6 (Information Service Provider)
ffi_traveler_rideshare_payment_confirm	Financial Institution	7.4.1.8 (Information Service Provider)
fga_carrier_safety_ratings	Government Administrators	2.5.3 (Commercial Vehicle Administration)
fga_roadside_facility_locations	Government Administrators	2.5.3 (Commercial Vehicle Administration)
fga_tax_and_credential_fees	Government Administrators	2.5.3 (Commercial Vehicle Administration)
fgrs_government_data_report_request	Government Reporting Systems	8.8 (Archived Data Management Subsystem)
fifd_freight_data	Intermodal Freight Depot	2.7 (Fleet and Freight Management)
fifd_intermodal_archive_data	Intermodal Freight Depot	8.1 (Archived Data Management Subsystem)
financial_request	2.5.2 (Commercial Vehicle Administration)	7.4.1.1 (Commercial Vehicle Administration)
financial_response	7.4.1.1 (Commercial Vehicle Administration)	2.5.2 (Commercial Vehicle Administration)
fispo_archive_commands	ISP Operator	6.1.6 (Information Service Provider)
fispo_broadcast_data_parameters_request	ISP Operator	6.2.1.5 (Information Service Provider)
fispo_broadcast_data_parameters_update	ISP Operator	6.2.1.5 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
fispo_request_other_routes_selection_map_data_update	ISP Operator	6.6.2.5 (Information Service Provider)
fispo_request_route_selection_map_data_update	ISP Operator	6.6.2.5 (Information Service Provider)
fispo_route_selection_parameters_request	ISP Operator	6.6.2.5 (Information Service Provider)
fispo_route_selection_parameters_update	ISP Operator	6.6.2.5 (Information Service Provider)
fispo_trip_planning_parameters_request	ISP Operator	6.1.4 (Information Service Provider)
fispo_trip_planning_parameters_update	ISP Operator	6.1.4 (Information Service Provider)
fm_emergency_information_request	Media	5.1.3 (Emergency Management)
fm_incident_data_request	Media	1.3.4.3 (Traffic Management)
fm_incident_details	Media	1.1.4.5 (Information Service Provider)
fm_incident_information	Media	1.3.4.3 (Traffic Management)
fm_incident_information_request	Media	1.1.4.5 (Information Service Provider)
fm_traffic_data_request	Media	1.1.4.3 (Traffic Management)
fm_traffic_information_request	Media	1.1.4.5 (Information Service Provider)
fm_transit_incident_information_request	Media	4.4.1.4 (Transit Management)
fm_transit_schedule_deviations_request	Media	4.1.6 (Transit Management)
fm_transit_vehicle_deviations_request	Media	4.1.8 (Information Service Provider)
fm_traveler_information	Media	6.5.1 (Information Service Provider)
fmmc_crossing_close_duration	Multi-Modal Crossings	1.1.1.1 (Roadway Subsystem)
fmmc_crossing_close_time	Multi-Modal Crossings	1.1.1.1 (Roadway Subsystem)
fmmc_crossing_status_for_highways	Multi-Modal Crossings	1.2.7.5 (Roadway Subsystem)
fmmc_crossing_status_for_roads	Multi-Modal Crossings	1.2.7.1 (Roadway Subsystem)
fmtsp_air_services	Multi-Modal Transportation Service Provider	6.1.3 (Information Service Provider)
fmtsp_ferry_services	Multi-Modal Transportation Service Provider	6.1.3 (Information Service Provider)
fmtsp_multimodal_archive_data	Multi-Modal Transportation Service Provider	8.1 (Archived Data Management Subsystem)
fmtsp_multimodal_service_confirmation	Multi-Modal Transportation Service Provider	6.1.3 (Information Service Provider)
fmtsp_rail_services	Multi-Modal Transportation Service Provider	6.1.3 (Information Service Provider)
fmtsp_transit_service_data	Multi-Modal Transportation Service Provider	4.2.3.8 (Transit Management)
fmup_demand_display_update	Map Update Provider	1.4.3 (Traffic Management)
fmup_emergency_display_update	Map Update Provider	5.5 (Emergency Management)
fmup_emergency_route_map_update	Map Update Provider	5.3.7 (Emergency Management)
fmup_incident_display_update	Map Update Provider	1.3.4.4 (Traffic Management)
fmup_map_archive_data	Map Update Provider	8.1 (Archived Data Management Subsystem)
fmup_other_routes_map_data	Map Update Provider	6.6.3 (Information Service Provider)
fmup_pollution_display_update	Map Update Provider	1.5.3 (Emissions Management)
fmup_route_selection_map_data	Map Update Provider	6.6.2.4 (Information Service Provider)
fmup_traffic_display_update	Map Update Provider	1.1.4.4 (Traffic Management)
fmup_transit_map_update	Map Update Provider	4.2.3.9 (Transit Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
fmup_traveler_display_update	Map Update Provider	6.3.4 (Remote Traveler Support)
fmup_traveler_map_update	Map Update Provider	6.8.1.4 (Personal Information Access)
fmup_traveler_map_update_cost	Map Update Provider	6.8.1.4 (Personal Information Access)
fmup_traveler_personal_display_update	Map Update Provider	6.8.3.4 (Personal Information Access)
fmup_traveler_personal_display_update_cost	Map Update Provider	6.8.3.4 (Personal Information Access)
fmup_vehicle_map_update	Map Update Provider	6.7.2.4 (Vehicle)
fmup_vehicle_map_update_cost	Map Update Provider	6.7.2.4 (Vehicle)
foa_archive_coordination_data	Other Archives	8.4 (Archived Data Management Subsystem)
focvas_commit_local_enrollment	Other CVAS	2.5.4 (Commercial Vehicle Administration)
focvas_data_table	Other CVAS	2.5.4 (Commercial Vehicle Administration)
focvas_enrollment_confirmation	Other CVAS	2.5.4 (Commercial Vehicle Administration)
focvas_enrollment_request	Other CVAS	2.5.4 (Commercial Vehicle Administration)
focvas_provide_data	Other CVAS	2.5.4 (Commercial Vehicle Administration)
fods_other_data_source_archive_data	Other Data Sources	8.1 (Archived Data Management Subsystem)
foec_emergency_center_identity	Other EM	5.1.2 (Emergency Management)
foec_incident_details	Other EM	5.1.2 (Emergency Management)
foec_incident_response_coordination	Other EM	5.1.2 (Emergency Management)
foec_mayday_emergency_data	Other EM	5.1.6 (Emergency Management)
foisp_data_supply	Other ISP	6.6.2.3 (Information Service Provider)
foisp_request_data	Other ISP	6.6.2.3 (Information Service Provider)
foisp_traffic_data	Other ISP	6.2.1.1 (Information Service Provider)
foisp_traffic_information_request	Other ISP	6.2.1.1 (Information Service Provider)
foisp_transit_data	Other ISP	6.2.1.3 (Information Service Provider)
foisp_transit_information_request	Other ISP	6.2.1.3 (Information Service Provider)
fotc_data_request	Other TM	1.1.5 (Traffic Management)
fotc_identity	Other TM	1.1.5 (Traffic Management)
fotc_traffic_control_and_status	Other TM	1.1.5 (Traffic Management)
fotc_transfer_data	Other TM	1.1.5 (Traffic Management)
fotrm_transit_services	Other TRM	4.2.3.7 (Transit Management)
fp_pedestrian_data	Pedestrians	1.1.1.1 (Roadway Subsystem)
fp_pedestrian_images	Pedestrians	1.1.1.1 (Roadway Subsystem)
fpi_commercial_manager_input_credit_identity	Payment Instrument	7.5.4 (Fleet and Freight Management)
fpi_confirm_fare_payment_at_roadside	Payment Instrument	7.3.4 (Remote Traveler Support)
fpi_confirm_fare_payment_on_transit_vehicle	Payment Instrument	7.3.5 (Transit Vehicle Subsystem)
fpi_confirm_payment_at_parking_lot	Payment Instrument	7.2.7 (Vehicle)
fpi_confirm_payment_at_toll_plaza	Payment Instrument	7.1.7 (Vehicle)
fpi_driver_vehicle_input_credit_identity	Payment Instrument	7.5.1 (Vehicle)
fpi_parking_tag_data	Payment Instrument	7.2.7 (Vehicle)

Table E.1 (Continued)

Data Flow Name	Source	Destination
fpi_toll_tag_data	Payment Instrument	7.1.7 (Vehicle)
fpi_transit_roadside_tag_data	Payment Instrument	7.3.4 (Remote Traveler Support)
fpi_transit_user_roadside_input_credit_identity	Payment Instrument	7.5.2 (Remote Traveler Support)
fpi_transit_user_vehicle_input_credit_identity	Payment Instrument	7.5.1 (Vehicle)
fpi_transit_vehicle_tag_data	Payment Instrument	7.3.5 (Transit Vehicle Subsystem)
fpi_traveler_personal_input_credit_identity	Payment Instrument	7.5.3 (Personal Information Access)
fpi_traveler_roadside_input_credit_identity	Payment Instrument	7.5.5 (Remote Traveler Support)
fre_environmental_conditions	Roadway Environment	1.1.1.3 (Roadway Subsystem)
fre_physical_conditions	Roadway Environment	1.1.1.1 (Roadway Subsystem)
fre_roadside_data	Roadway Environment	3.1.3 (Vehicle)
freight_cargo_data	2.7 (Fleet and Freight Management)	2.1.1 (Fleet and Freight Management)
fro_incident_notification	Rail Operations	1.6.2.1 (Traffic Management)
fro_maintenance_schedules	Rail Operations	1.6.2.1 (Traffic Management)
fro_train_schedules	Rail Operations	1.6.2.1 (Traffic Management)
From_Intermodal_Freight_Shipper	Intermodal Freight Shipper	2.7 (Fleet and Freight Management)
From_Location_Data_Source	Location Data Source	6.7.2.2 (Vehicle)
From_Location_Data_Source	Location Data Source	6.8.1.3 (Personal Information Access)
From_Other_Vehicle	Other Vehicle	3.2.3.6 (Vehicle)
From_Potential_Obstacles	Potential Obstacles	3.1.3 (Vehicle)
From_Roadway	Roadway	3.1.3 (Vehicle)
From_Roadway	Roadway	3.4 (Vehicle)
From_Vehicle_Characteristics	Vehicle Characteristics	1.5.5 (Roadway Subsystem)
From_Vehicle_Characteristics	Vehicle Characteristics	7.1.3 (Toll Collection)
From_Vehicle_Characteristics	Vehicle Characteristics	7.1.5 (Toll Collection)
fsa_area_image	Secure Area Environment	4.4.1.7 (Remote Traveler Support)
ft_extra_trip_data	Traveler	6.3.3 (Remote Traveler Support)
ft_guidance_data	Traveler	6.8.1.2 (Personal Information Access)
ft_guidance_map_update_request	Traveler	6.8.1.2 (Personal Information Access)
ft_guidance_request	Traveler	6.8.1.2 (Personal Information Access)
ft_guidance_route_accepted	Traveler	6.8.1.2 (Personal Information Access)
ft_personal_emergency_request	Traveler	6.8.2.1 (Personal Information Access)
ft_personal_extra_trip_data	Traveler	6.8.3.3 (Personal Information Access)
ft_personal_map_display_update_request	Traveler	6.8.3.3 (Personal Information Access)
ft_personal_trip_planning_requests	Traveler	6.8.3.3 (Personal Information Access)
ft_remote_emergency_request	Traveler	4.4.1.8 (Remote Traveler Support)
ft_traffic_data	Traffic	1.1.1.1 (Roadway Subsystem)
ft_traffic_images	Traffic	1.1.1.1 (Roadway Subsystem)
ft_traffic_images	Traffic	1.3.1.3 (Roadway Subsystem)

Table E.1 (Continued)

Data Flow Name	Source	Destination
ft_trip_planning_requests	Traveler	6.3.3 (Remote Traveler Support)
ft_vehicle_pollutant_levels	Traffic	1.5.5 (Roadway Subsystem)
fta_archive_commands	Toll Administrator	7.1.1.11 (Toll Administration)
fta_confirm_advanced_toll	Toll Administrator	7.1.1.8 (Toll Administration)
fta_toll_price_changes_response	Toll Administrator	7.1.1.7 (Toll Administration)
fta_toll_price_data	Toll Administrator	7.1.1.7 (Toll Administration)
ftd_emergency_request	Transit Driver	4.4.1.5 (Transit Vehicle Subsystem)
ftd_information_updates	Transit Driver	4.5.6 (Transit Management)
ftd_request_batch_mode_data_transfer	Transit Driver	4.6.4 (Transit Vehicle Subsystem)
ftfm_approved_corrections	Transit Fleet Manager	4.1.4 (Transit Management)
ftfm_coordination_data	Transit Fleet Manager	4.4.2 (Transit Management)
ftfm_initiate_service_updates	Transit Fleet Manager	4.2.3.4 (Transit Management)
ftfm_passenger_loading_updates	Transit Fleet Manager	4.2.3.5 (Transit Management)
ftfm_planning_parameters	Transit Fleet Manager	4.2.3.4 (Transit Management)
ftfm_planning_parameters_update_request	Transit Fleet Manager	4.2.3.4 (Transit Management)
ftfm_request_response_parameter_output	Transit Fleet Manager	4.4.3 (Transit Management)
ftfm_request_transit_vehicle_data	Transit Fleet Manager	4.1.5 (Transit Management)
ftfm_response_parameters	Transit Fleet Manager	4.4.3 (Transit Management)
ftfm_technician_information_request	Transit Fleet Manager	4.3.3 (Transit Management)
ftfm_technician_information_updates	Transit Fleet Manager	4.3.3 (Transit Management)
ftfm_transit_display_update_request	Transit Fleet Manager	4.2.3.4 (Transit Management)
ftfm_transit_driver_information_request	Transit Fleet Manager	4.5.7 (Transit Management)
ftfm_transit_driver_information_updates	Transit Fleet Manager	4.5.7 (Transit Management)
ftfm_transit_driver_route_preferences	Transit Fleet Manager	4.5.7 (Transit Management)
ftfm_transit_services_output_request	Transit Fleet Manager	4.2.3.4 (Transit Management)
ftfm_transit_vehicle_maintenance_information_request	Transit Fleet Manager	4.3.5 (Transit Management)
ftfm_transit_vehicle_maintenance_specs	Transit Fleet Manager	4.3.5 (Transit Management)
ftmp_transit_vehicle_maintenance_updates	Transit Maintenance Personnel	4.3.6 (Transit Management)
fto_local_toll_price_variations	Toll Operator	7.1.1.2 (Toll Collection)
ftop_archive_command	Traffic Operations Personnel	1.1.4.7 (Traffic Management)
ftop_defined_incident_response_data_request	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_defined_incident_response_data_update	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_demand_data_request	Traffic Operations Personnel	1.4.1 (Traffic Management)
ftop_demand_data_update_request	Traffic Operations Personnel	1.4.1 (Traffic Management)
ftop_demand_forecast_request	Traffic Operations Personnel	1.4.1 (Traffic Management)
ftop_demand_policy_activation	Traffic Operations Personnel	1.4.1 (Traffic Management)
ftop_demand_policy_information_request	Traffic Operations Personnel	1.4.1 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
ftop_demand_policy_updates	Traffic Operations Personnel	1.4.1 (Traffic Management)
ftop_incident_camera_action_request	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_incident_data_amendment	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_incident_information_requests	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_indicator_fault_data_input	Traffic Operations Personnel	1.2.8.4 (Traffic Management)
ftop_indicator_fault_data_request	Traffic Operations Personnel	1.2.8.4 (Traffic Management)
ftop_indicator_fault_data_update	Traffic Operations Personnel	1.2.8.4 (Traffic Management)
ftop_output_possible_defined_reponses	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_pollution_data_information_request	Traffic Operations Personnel	1.5.1 (Emissions Management)
ftop_pollution_parameter_updates	Traffic Operations Personnel	1.5.1 (Emissions Management)
ftop_request_possible_incidents_data	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_resource_request	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_roadway_characteristics	Traffic Operations Personnel	1.2.6.1 (Traffic Management)
ftop_sensor_fault_data_input	Traffic Operations Personnel	1.1.1.2 (Traffic Management)
ftop_static_data	Traffic Operations Personnel	1.2.6.1 (Traffic Management)
ftop_strategy_override	Traffic Operations Personnel	1.2.1 (Traffic Management)
ftop_traffic_data_parameter_updates	Traffic Operations Personnel	1.1.4.2 (Traffic Management)
ftop_traffic_information_requests	Traffic Operations Personnel	1.1.4.2 (Traffic Management)
ftop_update_defined_incident_responses	Traffic Operations Personnel	1.3.4.2 (Traffic Management)
ftop_video_camera_strategy_change	Traffic Operations Personnel	1.2.1 (Traffic Management)
ftop_weather_request_information	Traffic Operations Personnel	1.1.4.2 (Traffic Management)
ftso_archive_commands	Transit System Operators	4.2.4 (Transit Management)
ftso_emergency_request_acknowledge	Transit System Operators	4.4.1.3 (Transit Management)
ftso_fare_updates	Transit System Operators	7.3.1.7 (Transit Management)
ftso_media_parameter_request	Transit System Operators	4.4.1.3 (Transit Management)
ftso_media_parameter_updates	Transit System Operators	4.4.1.3 (Transit Management)
ftso_request_fare_output	Transit System Operators	7.3.1.7 (Transit Management)
ftso_security_action	Transit System Operators	4.4.1.3 (Transit Management)
ftso_video_camera_action_request	Transit System Operators	4.4.1.3 (Transit Management)
ftu_destination_at_roadside	Transit User	4.7.2.5 (Remote Traveler Support)
ftu_destination_on_vehicle	Transit User	6.2.1.6 (Transit Vehicle Subsystem)
ftu_emergency_request	Transit User	4.4.1.2 (Transit Vehicle Subsystem)
ftu_other_services_roadside_request	Transit User	4.7.2.5 (Remote Traveler Support)
ftu_other_services_vehicle_request	Transit User	6.2.1.6 (Transit Vehicle Subsystem)
ftu_request_advisory_information	Transit User	6.2.3 (Transit Vehicle Subsystem)
ftu_transit_information_request	Transit User	4.7.1.1 (Remote Traveler Support)
ftu_transit_user_roadside_image	Transit User	4.7.2.1 (Remote Traveler Support)
ftu_transit_user_roadside_image	Transit User	4.7.2.4 (Remote Traveler Support)

Table E.1 (Continued)

Data Flow Name	Source	Destination
ftu_transit_user_vehicle_image	Transit User	4.6.1 (Transit Vehicle Subsystem)
ftu_transit_user_vehicle_image	Transit User	4.6.4 (Transit Vehicle Subsystem)
ftv_availability	Transit Vehicle	4.2.1.5 (Transit Vehicle Subsystem)
ftv_vehicle_maintenance_data	Transit Vehicle	4.1.9 (Transit Vehicle Subsystem)
ftv_vehicle_trip_data	Transit Vehicle	4.1.1 (Transit Vehicle Subsystem)
fwe_approaching_train_announcement	Wayside Equipment	1.6.3.1 (Roadway Subsystem)
fwe_train_data	Wayside Equipment	1.6.3.1 (Roadway Subsystem)
fwe_wayside_equipment_status	Wayside Equipment	1.6.3.1 (Roadway Subsystem)
fws_current_weather	Weather Service	1.3.2.1 (Traffic Management)
fws_current_weather	Weather Service	1.4.2 (Traffic Management)
fws_current_weather	Weather Service	4.1.6 (Transit Management)
fws_current_weather	Weather Service	5.1.4 (Emergency Management)
fws_current_weather	Weather Service	6.5.1 (Information Service Provider)
fws_current_weather	Weather Service	6.6.1 (Information Service Provider)
fws_current_weather	Weather Service	6.6.2.1 (Information Service Provider)
fws_predicted_weather	Weather Service	1.1.3 (Traffic Management)
fws_predicted_weather	Weather Service	1.3.2.1 (Traffic Management)
fws_predicted_weather	Weather Service	1.4.2 (Traffic Management)
fws_predicted_weather	Weather Service	4.1.6 (Transit Management)
fws_predicted_weather	Weather Service	5.1.4 (Emergency Management)
fws_predicted_weather	Weather Service	6.5.1 (Information Service Provider)
fws_predicted_weather	Weather Service	6.6.1 (Information Service Provider)
fws_predicted_weather	Weather Service	6.6.2.1 (Information Service Provider)
fws_weather_archive_data	Weather Service	8.1 (Archived Data Management Subsystem)
fypsp_provider_profile_update	Yellow Pages Service Providers	6.5.3 (Information Service Provider)
fypsp_request_provider_registration	Yellow Pages Service Providers	6.5.3 (Information Service Provider)
fypsp_transaction_confirmation	Yellow Pages Service Providers	6.5.2 (Information Service Provider)
fypsp_yellow_pages_data	Yellow Pages Service Providers	6.5.1 (Information Service Provider)
get_other_route	6.6.1 (Information Service Provider)	6.6.5 (Information Service Provider)
get_toll_payment_violator_image	7.1.1.5 (Toll Collection)	7.1.3 (Toll Collection)
get_toll_tag_violator_image	7.1.1.1 (Toll Collection)	7.1.3 (Toll Collection)
get_transit_route	6.6.1 (Information Service Provider)	6.6.4 (Information Service Provider)
get_vehicle_route	6.6.1 (Information Service Provider)	6.6.2.1 (Information Service Provider)
global_schema	8.4 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
government_report_data	8.2 (Archived Data Management Subsystem)	8.8 (Archived Data Management Subsystem)
government_report_data_request	8.8 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
har_data_for_highways	1.2.4.2 (Traffic Management)	1.2.7.5 (Roadway Subsystem)
har_data_for_roads	1.2.4.1 (Traffic Management)	1.2.7.1 (Roadway Subsystem)

Table E.1 (Continued)

Data Flow Name	Source	Destination
har_fault_data_for_highways	1.2.7.5 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
har_fault_data_for_roads	1.2.7.1 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
har_status_for_highways	1.2.7.5 (Roadway Subsystem)	1.2.4.2 (Traffic Management)
har_status_for_roads	1.2.7.1 (Roadway Subsystem)	1.2.4.1 (Traffic Management)
hazard_condition	1.6.1.5 (Roadway Subsystem)	1.6.1.4.1 (Roadway Subsystem)
hazard_condition	1.6.1.5 (Roadway Subsystem)	1.6.1.4.2 (Roadway Subsystem)
hazard_condition	1.6.1.5 (Roadway Subsystem)	1.6.1.4.4 (Roadway Subsystem)
headway	3.2.3.4.5 (Vehicle)	3.2.3.4.2 (Vehicle)
hov_lane_data	1.1.2.4 (Traffic Management)	1.1.2.1 (Traffic Management)
hov_lane_data_input	1.1.1.1 (Roadway Subsystem)	1.1.2.4 (Traffic Management)
hov_lane_violation	1.1.2.4 (Traffic Management)	5.4.1 (Traffic Management)
hov_sensor_data	1.1.1.1 (Roadway Subsystem)	1.1.2.2 (Traffic Management)
hri_advisory	1.6.1.4.1 (Roadway Subsystem)	1.6.1.4.3 (Roadway Subsystem)
hri_alert	1.6.1.4.1 (Roadway Subsystem)	1.6.1.4.3 (Roadway Subsystem)
hri_blockage	1.6.1.6.1 (Roadway Subsystem)	1.6.2.2 (Traffic Management)
hri_closure_data_response	1.6.5.3 (Roadway Subsystem)	1.6.5.1 (Roadway Subsystem)
hri_control_message	1.6.1.7.3 (Roadway Subsystem)	1.6.1.2.1 (Roadway Subsystem)
hri_device_control	1.6.1.2.5 (Roadway Subsystem)	1.2.7.1 (Roadway Subsystem)
hri_device_sense	1.2.7.1 (Roadway Subsystem)	1.6.1.1 (Roadway Subsystem)
hri_device_sense	1.2.7.1 (Roadway Subsystem)	1.6.1.3 (Roadway Subsystem)
hri_guidance_for_beacon_message	1.6.1.4.4 (Roadway Subsystem)	1.2.4.3 (Traffic Management)
hri_guidance_for_dms	1.6.1.4.3 (Roadway Subsystem)	1.2.4.1 (Traffic Management)
hri_hazard	1.6.1.6.1 (Roadway Subsystem)	1.6.1.5 (Roadway Subsystem)
hri_incident_data	1.6.4.1 (Traffic Management)	1.3.1.1 (Traffic Management)
hri_predicted_collision	1.6.1.6.2 (Roadway Subsystem)	1.6.1.6.1 (Roadway Subsystem)
hri_priority_message	1.6.2.2 (Traffic Management)	1.6.2.1 (Traffic Management)
hri_rail_alert	1.6.3.3 (Roadway Subsystem)	1.6.5.2 (Roadway Subsystem)
hri_reporting_data	1.6.3.2 (Roadway Subsystem)	1.6.3.1 (Roadway Subsystem)
hri_sensor_data	1.6.4.2 (Traffic Management)	1.1.2.2 (Traffic Management)
hri_state	1.6.5.2 (Roadway Subsystem)	1.6.5.1 (Roadway Subsystem)
hri_state	1.6.5.2 (Roadway Subsystem)	1.6.5.3 (Roadway Subsystem)
hri_status	1.6.5.1 (Roadway Subsystem)	1.6.1.1 (Roadway Subsystem)
hri_status	1.6.5.1 (Roadway Subsystem)	1.6.2.2 (Traffic Management)
hri_status	1.6.5.1 (Roadway Subsystem)	1.6.3.2 (Roadway Subsystem)
hri_status	1.6.5.1 (Roadway Subsystem)	1.6.4.2 (Traffic Management)
hri_status_for_traffic_demand	1.6.4.2 (Traffic Management)	1.4.2 (Traffic Management)
hri_strategy_override	1.3.3 (Traffic Management)	1.6.4.1 (Traffic Management)
hri_traffic_data	1.6.1.7.2 (Roadway Subsystem)	1.6.4.1 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
hri_traffic_surveillance	1.6.4.2 (Traffic Management)	1.6.1.1 (Roadway Subsystem)
hri_traffic_surveillance	1.6.4.2 (Traffic Management)	1.6.1.7.2 (Roadway Subsystem)
hsr_control_request	1.6.1.2.1 (Roadway Subsystem)	1.6.1.2.4 (Roadway Subsystem)
hsr_device_control	1.6.1.2.4 (Roadway Subsystem)	1.6.1.2.5 (Roadway Subsystem)
hsr_device_control_state	1.6.1.2.4 (Roadway Subsystem)	1.6.1.2.6 (Roadway Subsystem)
import_administration_request	8.3 (Archived Data Management Subsystem)	8.1 (Archived Data Management Subsystem)
import_administration_status	8.1 (Archived Data Management Subsystem)	8.3 (Archived Data Management Subsystem)
incident_alert	1.3.3 (Traffic Management)	5.1.1 (Emergency Management)
incident_analysis_data	1.1.1.1 (Roadway Subsystem)	1.3.1.1 (Traffic Management)
incident_command_request	5.3.5 (Emergency Vehicle Subsystem)	5.1.4 (Emergency Management)
incident_data_update	1.3.2.2 (Traffic Management)	1.3.2.3 (Traffic Management)
incident_details	5.1.3 (Emergency Management)	1.3.2.2 (Traffic Management)
incident_details_from_media	1.1.4.5 (Information Service Provider)	1.1.4.6 (Information Service Provider)
incident_details_request	1.3.2.2 (Traffic Management)	5.1.3 (Emergency Management)
incident_information	5.1.3 (Emergency Management)	6.5.1 (Information Service Provider)
incident_information_request	6.5.1 (Information Service Provider)	5.1.3 (Emergency Management)
incident_response_clear	1.3.3 (Traffic Management)	5.1.4 (Emergency Management)
incident_response_status	5.1.4 (Emergency Management)	1.3.2.3 (Traffic Management)
incident_status_data	5.3.5 (Emergency Vehicle Subsystem)	5.1.4 (Emergency Management)
incident_status_update	5.3.5 (Emergency Vehicle Subsystem)	5.3.4 (Emergency Management)
incident_strategy_override	1.3.3 (Traffic Management)	1.2.1 (Traffic Management)
incident_video_for_emergency_services	1.1.4.1 (Traffic Management)	5.1.4 (Emergency Management)
incident_video_image	1.3.1.3 (Roadway Subsystem)	1.3.4.2 (Traffic Management)
incident_video_image_control	1.3.4.2 (Traffic Management)	1.3.1.3 (Roadway Subsystem)
indicator_control_data_for_highways	1.2.4.2 (Traffic Management)	1.2.7.5 (Roadway Subsystem)
indicator_control_data_for_roads	1.2.4.1 (Traffic Management)	1.2.7.1 (Roadway Subsystem)
indicator_control_monitoring_data_for_highways	1.2.4.2 (Traffic Management)	1.2.7.2 (Roadway Subsystem)
indicator_control_monitoring_data_for_roads	1.2.4.1 (Traffic Management)	1.2.7.2 (Roadway Subsystem)
indicator_control_storage_data_for_highways	1.2.4.2 (Traffic Management)	1.1.2.1 (Traffic Management)
indicator_control_storage_data_for_roads	1.2.4.1 (Traffic Management)	1.1.2.1 (Traffic Management)
indicator_current_fault_data	1.2.8.2 (Traffic Management)	1.2.8.4 (Traffic Management)
indicator_current_fault_update	1.2.8.4 (Traffic Management)	1.2.8.2 (Traffic Management)
indicator_data_fault_for_highways	1.2.4.2 (Traffic Management)	1.2.8.1 (Traffic Management)
indicator_data_fault_for_roads	1.2.4.1 (Traffic Management)	1.2.8.1 (Traffic Management)
indicator_fault_clearance_update	1.2.8.3 (Traffic Management)	1.2.8.2 (Traffic Management)
indicator_fault_state	1.2.8.2 (Traffic Management)	1.2.1 (Traffic Management)
indicator_highway_requested_state	1.2.2.1 (Traffic Management)	1.2.4.2 (Traffic Management)
indicator_input_data_from_highways	1.2.7.5 (Roadway Subsystem)	1.2.4.2 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
indicator_input_data_from_roads	1.2.7.1 (Roadway Subsystem)	1.2.4.1 (Traffic Management)
indicator_input_state_for_highways	1.2.4.2 (Traffic Management)	1.2.1 (Traffic Management)
indicator_input_state_for_roads	1.2.4.1 (Traffic Management)	1.2.1 (Traffic Management)
indicator_input_storage_data_for_highways	1.2.4.2 (Traffic Management)	1.1.2.1 (Traffic Management)
indicator_input_storage_data_for_roads	1.2.4.1 (Traffic Management)	1.1.2.1 (Traffic Management)
indicator_monitoring_suspend	1.2.7.3 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
indicator_new_fault	1.2.8.2 (Traffic Management)	1.2.8.3 (Traffic Management)
indicator_new_fault_data	1.2.8.4 (Traffic Management)	1.2.8.2 (Traffic Management)
indicator_new_fault_update	1.2.8.1 (Traffic Management)	1.2.8.2 (Traffic Management)
indicator_preemption_override_for_highways	1.2.7.3 (Roadway Subsystem)	1.2.7.5 (Roadway Subsystem)
indicator_preemption_override_for_roads	1.2.7.3 (Roadway Subsystem)	1.2.7.1 (Roadway Subsystem)
indicator_response_data_for_highways	1.2.7.5 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
indicator_response_data_for_roads	1.2.7.1 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
indicator_road_requested_state	1.2.2.2 (Traffic Management)	1.2.4.1 (Traffic Management)
indicator_sign_control_data_for_hri	1.2.4.1 (Traffic Management)	1.6.1.1 (Roadway Subsystem)
information_device_fault_status	1.2.7.2 (Roadway Subsystem)	1.2.8.1 (Traffic Management)
information_for_media	1.1.4.6 (Information Service Provider)	1.1.4.5 (Information Service Provider)
intersection_blocked	1.6.1.5 (Roadway Subsystem)	1.6.4.2 (Traffic Management)
intersection_collision_avoidance_data	1.2.7.6 (Roadway Subsystem)	3.1.1 (Vehicle)
intersection_state_data	1.2.7.1 (Roadway Subsystem)	1.2.7.6 (Roadway Subsystem)
lane_deviation	3.2.3.4.5 (Vehicle)	3.2.3.4.3 (Vehicle)
lane_steering_commands	3.2.3.4.3 (Vehicle)	3.2.3.4.5 (Vehicle)
link_and_queue_data	6.6.2.2 (Information Service Provider)	6.7.2.1.3 (Vehicle)
link_data_for_guidance	1.2.6.1 (Traffic Management)	6.6.2.2 (Information Service Provider)
link_data_from_avl	1.1.2.5 (Traffic Management)	1.1.2.1 (Traffic Management)
link_data_from_tags	1.1.2.5 (Traffic Management)	1.1.2.1 (Traffic Management)
link_data_update	1.2.6.1 (Traffic Management)	1.1.2.3 (Traffic Management)
local_control_plan	1.6.1.7.2 (Roadway Subsystem)	1.6.1.6.1 (Roadway Subsystem)
local_decision_support	5.1.4 (Emergency Management)	5.3.5 (Emergency Vehicle Subsystem)
local_schema	8.2 (Archived Data Management Subsystem)	8.4 (Archived Data Management Subsystem)
local_sensor_data_for_highways	1.1.1.1 (Roadway Subsystem)	1.2.7.5 (Roadway Subsystem)
local_sensor_data_for_roads	1.1.1.1 (Roadway Subsystem)	1.2.7.1 (Roadway Subsystem)
local_sensor_data_for_roads	1.1.1.1 (Roadway Subsystem)	1.2.7.6 (Roadway Subsystem)
logged_special_vehicle_route	6.6.2.1 (Information Service Provider)	1.3.2.1 (Traffic Management)
mayday_emergency_data	5.1.6 (Emergency Management)	5.1.1 (Emergency Management)
media_incident_data_updates	1.3.4.3 (Traffic Management)	1.3.2.1 (Traffic Management)
multimodal_crossing_sensor_data	1.1.1.1 (Roadway Subsystem)	1.1.2.2 (Traffic Management)
multimodal_service_confirm	6.1.2 (Information Service Provider)	6.1.3 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
multimodal_service_confirmation	6.1.3 (Information Service Provider)	6.1.2 (Information Service Provider)
multimodal_service_data_request	6.1.1 (Information Service Provider)	6.1.3 (Information Service Provider)
multimodal_service_data_response	6.1.3 (Information Service Provider)	6.1.1 (Information Service Provider)
near_term_status	1.6.1.6.1 (Roadway Subsystem)	1.6.1.3 (Roadway Subsystem)
new_sensor_static_data	1.2.6.1 (Traffic Management)	1.1.2.3 (Traffic Management)
on_demand_archive_request	8.7 (Archived Data Management Subsystem)	8.3 (Archived Data Management Subsystem)
operations_incident_data_updates	1.3.4.2 (Traffic Management)	1.3.2.2 (Traffic Management)
other_archive_data	8.2 (Archived Data Management Subsystem)	8.4 (Archived Data Management Subsystem)
other_archive_data_input	8.4 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
other_archive_data_request	8.2 (Archived Data Management Subsystem)	8.4 (Archived Data Management Subsystem)
other_archive_data_request_input	8.4 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
other_control_data_for_highways	1.1.5 (Traffic Management)	1.2.4.2 (Traffic Management)
other_control_data_for_roads	1.1.5 (Traffic Management)	1.2.4.1 (Traffic Management)
other_current_incidents	1.1.5 (Traffic Management)	1.3.2.5 (Traffic Management)
other_parking_lot_price_data_request	1.2.5.2 (Parking Management)	7.2.1.7 (Parking Management)
other_planned_events	1.1.5 (Traffic Management)	1.3.2.4 (Traffic Management)
other_route	6.6.5 (Information Service Provider)	6.6.1 (Information Service Provider)
other_route_segment_data	6.6.2.3 (Information Service Provider)	6.6.2.2 (Information Service Provider)
other_services_roadside_request	4.7.2.5 (Remote Traveler Support)	7.4.1.5 (Transit Management)
other_services_roadside_response	7.4.1.5 (Transit Management)	4.7.2.5 (Remote Traveler Support)
other_services_vehicle_request	6.2.1.6 (Transit Vehicle Subsystem)	7.4.1.5 (Transit Management)
other_services_vehicle_response	7.4.1.5 (Transit Management)	6.2.1.6 (Transit Vehicle Subsystem)
other_status_for_highways	1.2.4.2 (Traffic Management)	1.1.5 (Traffic Management)
other_status_for_roads	1.2.4.1 (Traffic Management)	1.1.5 (Traffic Management)
other_TMC_cv_incidents	1.1.5 (Traffic Management)	1.2.1 (Traffic Management)
other_TMC_emergency_data	1.1.5 (Traffic Management)	1.2.1 (Traffic Management)
other_TMC_strategy_data	1.1.5 (Traffic Management)	1.2.1 (Traffic Management)
other_TRM_service_data	4.2.3.7 (Transit Management)	4.2.3.8 (Transit Management)
override_lane_hold	3.2.3.4.4 (Vehicle)	3.2.3.4.3 (Vehicle)
pedestrian_sensor_data	1.1.1.1 (Roadway Subsystem)	1.1.2.2 (Traffic Management)
planned_event_data	1.3.2.2 (Traffic Management)	1.1.2.1 (Traffic Management)
planned_event_data_for_vehicle_signage	1.3.2.3 (Traffic Management)	1.2.4.3 (Traffic Management)
planned_events	1.3.2.2 (Traffic Management)	1.1.3 (Traffic Management)
planned_events	1.3.2.2 (Traffic Management)	6.2.1.1 (Information Service Provider)
planned_events	1.3.2.2 (Traffic Management)	6.6.1 (Information Service Provider)
planned_events	1.3.2.2 (Traffic Management)	6.6.2.2 (Information Service Provider)
planned_events	1.3.2.2 (Traffic Management)	6.6.5 (Information Service Provider)
planned_events_data	1.3.2.4 (Traffic Management)	1.3.2.3 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
planned_events_data_output	1.3.2.4 (Traffic Management)	1.3.4.1 (Traffic Management)
planned_events_local_data	1.3.2.4 (Traffic Management)	1.1.5 (Traffic Management)
planned_events_new_data	1.3.2.2 (Traffic Management)	1.3.2.4 (Traffic Management)
platoon_action	3.2.2 (Vehicle)	3.2.3.2 (Vehicle)
platoon_change_lane_servo_override	3.2.3.4.5 (Vehicle)	3.2.3.4.4 (Vehicle)
platoon_following_commands	3.2.3.2 (Vehicle)	3.2.3.4.5 (Vehicle)
platoon_headway_servo_override	3.2.3.4.5 (Vehicle)	3.2.3.4.2 (Vehicle)
platoon_lane_servo_override	3.2.3.4.5 (Vehicle)	3.2.3.4.3 (Vehicle)
platoon_speed_servo_override	3.2.3.4.5 (Vehicle)	3.2.3.4.1 (Vehicle)
platoon_status	3.2.3.2 (Vehicle)	3.2.2 (Vehicle)
platooning_selected	3.2.3.2 (Vehicle)	3.2.3.3 (Vehicle)
pollution_archive_data_log	1.5.7 (Emissions Management)	1.5.9 (Emissions Management)
pollution_incident	1.5.2 (Emissions Management)	1.3.2.1 (Traffic Management)
pollution_reference_data_archive_request	1.5.9 (Emissions Management)	1.5.8 (Emissions Management)
pollution_reference_data_output	1.5.8 (Emissions Management)	1.5.1 (Emissions Management)
pollution_reference_data_request	1.5.1 (Emissions Management)	1.5.8 (Emissions Management)
pollution_reference_data_update	1.5.1 (Emissions Management)	1.5.8 (Emissions Management)
pollution_state_data	1.5.4 (Emissions Management)	1.4.2 (Traffic Management)
pollution_state_data_output	1.5.4 (Emissions Management)	1.5.1 (Emissions Management)
pollution_state_data_output_request	1.5.1 (Emissions Management)	1.5.4 (Emissions Management)
pollution_state_data_request	1.4.2 (Traffic Management)	1.5.4 (Emissions Management)
pollution_state_roadside_collection	1.5.6 (Roadway Subsystem)	1.5.2 (Emissions Management)
pollution_state_static_acceptance_criteria	1.5.8 (Emissions Management)	1.5.2 (Emissions Management)
pollution_state_static_collection	1.5.2 (Emissions Management)	1.5.4 (Emissions Management)
pollution_state_static_log_data	1.5.2 (Emissions Management)	1.5.7 (Emissions Management)
pollution_state_vehicle_acceptance_criteria	1.5.8 (Emissions Management)	1.5.5 (Roadway Subsystem)
pollution_state_vehicle_collection	1.5.5 (Roadway Subsystem)	1.5.4 (Emissions Management)
pollution_state_vehicle_log_data	1.5.5 (Roadway Subsystem)	1.5.7 (Emissions Management)
position_warnings	3.1.1 (Vehicle)	6.2.2 (Vehicle)
possible_defined_responses_data	1.3.7 (Traffic Management)	1.3.5 (Traffic Management)
possible_defined_responses_output	1.3.5 (Traffic Management)	1.3.4.2 (Traffic Management)
possible_defined_responses_output_request	1.3.4.2 (Traffic Management)	1.3.5 (Traffic Management)
possible_detected_incidents	1.3.1.1 (Traffic Management)	1.3.2.1 (Traffic Management)
possible_incident_data_update	1.3.2.1 (Traffic Management)	1.3.2.2 (Traffic Management)
possible_incidents_data_output	1.3.2.2 (Traffic Management)	1.3.4.1 (Traffic Management)
predicted_hri_state	1.6.1.6.1 (Roadway Subsystem)	1.6.1.6.2 (Roadway Subsystem)
prediction_data	1.1.3 (Traffic Management)	1.2.2.1 (Traffic Management)
prediction_data	1.1.3 (Traffic Management)	1.2.2.2 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
prediction_data	1.1.3 (Traffic Management)	4.1.4 (Transit Management)
prediction_data	1.1.3 (Traffic Management)	6.2.1.1 (Information Service Provider)
prediction_data 1.1.3 (Traffic	1.1.3 (Traffic Management)	6.6.2.2 (Information Service Provider)
preemption_command	1.6.5.2 (Roadway Subsystem)	1.6.1.7.2 (Roadway Subsystem)
prices	7.4.2 (Information Service Provider)	6.1.1 (Information Service Provider)
probe_data_for_traffic	7.1.1.6 (Toll Administration)	1.1.2.5 (Traffic Management)
processed_cargo_data	3.3.1 (Commercial Vehicle Subsystem)	3.3.3 (Vehicle)
processed_data	1.1.2.2 (Traffic Management)	1.1.2.1 (Traffic Management)
rail_operations_advisories	1.6.2.2 (Traffic Management)	1.6.1.6.1 (Roadway Subsystem)
rail_operations_data	1.6.2.3 (Traffic Management)	1.6.2.2 (Traffic Management)
rail_operations_device_command	1.6.2.1 (Traffic Management)	1.6.1.7.1 (Roadway Subsystem)
rail_operations_device_command	1.6.2.1 (Traffic Management)	1.6.1.7.3 (Roadway Subsystem)
rail_operations_message	1.6.1.6.1 (Roadway Subsystem)	1.6.2.1 (Traffic Management)
rail_operations_priority_data	1.6.2.1 (Traffic Management)	1.6.2.2 (Traffic Management)
rail_operations_query	1.6.2.2 (Traffic Management)	1.6.2.3 (Traffic Management)
rail_operations_update	1.6.2.1 (Traffic Management)	1.6.2.3 (Traffic Management)
rail_schedules_data	1.6.2.3 (Traffic Management)	1.6.4.2 (Traffic Management)
ramp_data	1.1.2.2 (Traffic Management)	1.2.3 (Traffic Management)
ramp_signal_state	1.2.3 (Traffic Management)	1.2.4.2 (Traffic Management)
reclassify_incidents	1.3.4.2 (Traffic Management)	1.3.2.3 (Traffic Management)
remote_video_image_control	5.1.4 (Emergency Management)	1.3.4.2 (Traffic Management)
request_demand_display_update	1.4.1 (Traffic Management)	1.4.3 (Traffic Management)
request_emergency_display_update	5.2 (Emergency Management)	5.5 (Emergency Management)
request_hri_closure_data	1.6.5.1 (Roadway Subsystem)	1.6.5.3 (Roadway Subsystem)
request_incident_map_display_update	1.3.4.2 (Traffic Management)	1.3.4.4 (Traffic Management)
request_incident_media_data	1.3.4.3 (Traffic Management)	1.3.4.1 (Traffic Management)
request_incident_operations_data	1.3.4.2 (Traffic Management)	1.3.4.1 (Traffic Management)
request_local_current_incidents_data	1.1.5 (Traffic Management)	1.3.2.5 (Traffic Management)
request_local_planned_events_data	1.1.5 (Traffic Management)	1.3.2.4 (Traffic Management)
request_other_current_incidents_data	1.3.2.5 (Traffic Management)	1.1.5 (Traffic Management)
request_other_planned_events_data	1.3.2.4 (Traffic Management)	1.1.5 (Traffic Management)
request_other_route_segment_data	6.6.2.2 (Information Service Provider)	6.6.2.3 (Information Service Provider)
request_other_routes_map_update	6.6.2.5 (Information Service Provider)	6.6.3 (Information Service Provider)
request_other_TMC_data	1.2.1 (Traffic Management)	1.1.5 (Traffic Management)
request_planned_events_data	1.3.2.3 (Traffic Management)	1.3.2.4 (Traffic Management)
request_pollution_map_display_update	1.5.1 (Emissions Management)	1.5.3 (Emissions Management)
request_possible_incidents_data	1.3.4.1 (Traffic Management)	1.3.2.2 (Traffic Management)
request_prices	6.1.1 (Information Service Provider)	7.4.2 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
request_rail_schedules_data	1.6.4.2 (Traffic Management)	1.6.2.3 (Traffic Management)
request_roadside_fare_payment	4.7.2.4 (Remote Traveler Support)	7.3.1.4 (Transit Management)
request_route_segment_data	6.6.2.1 (Information Service Provider)	6.6.2.2 (Information Service Provider)
request_route_selection_map_update	6.6.2.5 (Information Service Provider)	6.6.2.4 (Information Service Provider)
request_sensor_static_data	1.2.6.1 (Traffic Management)	1.1.2.3 (Traffic Management)
request_traffic_map_display_update	1.1.4.2 (Traffic Management)	1.1.4.4 (Traffic Management)
request_traffic_media_data	1.1.4.3 (Traffic Management)	1.1.4.1 (Traffic Management)
request_traffic_operations_data	1.1.4.2 (Traffic Management)	1.1.4.1 (Traffic Management)
request_transit_map_update	4.2.3.4 (Transit Management)	4.2.3.9 (Transit Management)
request_transit_service_external_data	4.2.3.3 (Transit Management)	4.2.3.8 (Transit Management)
request_transit_service_internal_data	4.2.3.6 (Transit Management)	4.2.3.8 (Transit Management)
request_transit_services_data_for_output	4.2.3.4 (Transit Management)	4.2.3.8 (Transit Management)
request_transit_user_roadside_image	7.3.3 (Transit Management)	4.7.2.1 (Remote Traveler Support)
request_transit_user_vehicle_image	7.3.3 (Transit Management)	4.6.1 (Transit Vehicle Subsystem)
request_vehicle_fare_payment	4.6.4 (Transit Vehicle Subsystem)	7.3.1.4 (Transit Management)
resource_deployment_status	1.3.4.5 (Traffic Management)	5.1.4 (Emergency Management)
resource_request	5.1.4 (Emergency Management)	1.3.4.5 (Traffic Management)
retrieved_archive_data	8.1 (Archived Data Management Subsystem)	8.2 (Archived Data Management Subsystem)
retrieved_incident_media_data	1.3.4.1 (Traffic Management)	1.3.4.3 (Traffic Management)
retrieved_incident_operations_data	1.3.4.1 (Traffic Management)	1.3.4.2 (Traffic Management)
retrieved_traffic_media_data	1.1.4.1 (Traffic Management)	1.1.4.3 (Traffic Management)
retrieved_traffic_operations_data	1.1.4.1 (Traffic Management)	1.1.4.2 (Traffic Management)
reversible_lane_status	1.3.1.1 (Traffic Management)	1.1.2.7 (Traffic Management)
reversible_lane_video_images	1.3.1.3 (Roadway Subsystem)	1.1.2.7 (Traffic Management)
rideshare_confirmation	6.4.4 (Information Service Provider)	6.1.2 (Information Service Provider)
rideshare_confirmation_data	6.4.4 (Information Service Provider)	6.4.2 (Information Service Provider)
rideshare_data_for_archive	6.4.1 (Information Service Provider)	6.1.6 (Information Service Provider)
rideshare_ineligible_status_notification	6.4.1 (Information Service Provider)	6.4.3 (Information Service Provider)
rideshare_payment_confirmation	7.4.1.8 (Information Service Provider)	6.4.4 (Information Service Provider)
rideshare_payment_request	6.4.4 (Information Service Provider)	7.4.1.8 (Information Service Provider)
rideshare_request_from_eligible_traveler	6.4.1 (Information Service Provider)	6.4.2 (Information Service Provider)
rideshare_response	6.4.3 (Information Service Provider)	6.1.1 (Information Service Provider)
rideshare_selection	6.4.2 (Information Service Provider)	6.4.3 (Information Service Provider)
ro_requests	1.6.2.1 (Traffic Management)	1.6.5.1 (Roadway Subsystem)
roadside_archive_control	8.9 (Archived Data Management Subsystem)	1.1.1.4 (Roadway Subsystem)
roadside_archive_data	1.1.1.4 (Roadway Subsystem)	8.9 (Archived Data Management Subsystem)
roadway_status	1.6.1.1 (Roadway Subsystem)	1.6.5.2 (Roadway Subsystem)
route_guidance_data_for_archive	6.6.2.1 (Information Service Provider)	6.1.6 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
route_segment_details_updated	6.6.2.2 (Information Service Provider)	6.6.2.1 (Information Service Provider)
safety_data	3.1.3 (Vehicle)	3.1.2 (Vehicle)
safety_warnings	3.1.2 (Vehicle)	6.2.2 (Vehicle)
secure_area_broadcast_message	4.4.1.1 (Transit Management)	4.4.1.7 (Remote Traveler Support)
secure_area_monitoring_control	4.4.1.1 (Transit Management)	4.4.1.7 (Remote Traveler Support)
secure_area_surveillance_information	4.4.1.7 (Remote Traveler Support)	4.4.1.1 (Transit Management)
select_headway	3.2.3.4.5 (Vehicle)	3.2.3.4.2 (Vehicle)
select_lane_hold	3.2.3.4.5 (Vehicle)	3.2.3.4.3 (Vehicle)
select_speed	3.2.3.4.5 (Vehicle)	3.2.3.4.1 (Vehicle)
selected_highway_control_strategy	1.2.1 (Traffic Management)	1.2.2.1 (Traffic Management)
selected_hri_control_strategy	1.2.1 (Traffic Management)	1.2.2.2 (Traffic Management)
selected_parking_lot_control_strategy	1.2.1 (Traffic Management)	1.2.5.1 (Parking Management)
selected_ramp_control_strategy	1.2.1 (Traffic Management)	1.2.3 (Traffic Management)
selected_road_control_strategy	1.2.1 (Traffic Management)	1.2.2.2 (Traffic Management)
selected_strategy	1.2.1 (Traffic Management)	1.1.2.1 (Traffic Management)
selected_strategy	1.2.1 (Traffic Management)	1.1.3 (Traffic Management)
sensor_configuration_data	1.1.4.2 (Traffic Management)	1.1.1.1 (Roadway Subsystem)
sensor_data	3.2.3.5 (Vehicle)	3.2.3.4.5 (Vehicle)
sensor_data_archive_input	1.1.1.1 (Roadway Subsystem)	1.1.1.4 (Roadway Subsystem)
sensor_data_for_distribution	1.1.4.1 (Traffic Management)	1.1.4.6 (Information Service Provider)
sensor_data_for_reversible_lanes	1.1.1.1 (Roadway Subsystem)	1.1.2.7 (Traffic Management)
sensor_fault_data	1.1.1.1 (Roadway Subsystem)	1.1.1.2 (Traffic Management)
sensor_output_data	1.1.2.2 (Traffic Management)	1.1.2.1 (Traffic Management)
sensor_status	1.1.1.1 (Roadway Subsystem)	1.1.1.4 (Roadway Subsystem)
service_req_and_confirm_for_archive	6.1.5 (Information Service Provider)	6.1.6 (Information Service Provider)
special_vehicle_priority_routing	6.6.2.1 (Information Service Provider)	1.2.1 (Traffic Management)
speed	3.2.3.4.5 (Vehicle)	3.2.3.4.1 (Vehicle)
ssr_control_request	1.6.1.2.1 (Roadway Subsystem)	1.6.1.2.3 (Roadway Subsystem)
ssr_device_control	1.6.1.2.3 (Roadway Subsystem)	1.6.1.2.5 (Roadway Subsystem)
ssr_device_control_state	1.6.1.2.3 (Roadway Subsystem)	1.6.1.2.6 (Roadway Subsystem)
static_data_for_archive	1.2.6.2 (Traffic Management)	1.1.4.7 (Traffic Management)
static_data_for_highway_control	1.2.6.2 (Traffic Management)	1.2.4.2 (Traffic Management)
static_data_for_highways	1.2.6.2 (Traffic Management)	1.2.2.1 (Traffic Management)
static_data_for_parking_lots	1.2.6.2 (Traffic Management)	1.2.5.6 (Parking Management)
static_data_for_ramps	1.2.6.2 (Traffic Management)	1.2.3 (Traffic Management)
static_data_for_road_control	1.2.6.2 (Traffic Management)	1.2.4.1 (Traffic Management)
static_data_for_roads	1.2.6.2 (Traffic Management)	1.2.2.2 (Traffic Management)
static_data_for_strategy	1.2.6.2 (Traffic Management)	1.2.1 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
static_data_for_vehicle_signage	1.2.6.2 (Traffic Management)	1.2.4.3 (Traffic Management)
static_data_store_updated	1.2.6.1 (Traffic Management)	1.2.6.2 (Traffic Management)
status_data_for_highways	1.1.5 (Traffic Management)	1.2.4.2 (Traffic Management)
status_data_for_roads	1.1.5 (Traffic Management)	1.2.4.1 (Traffic Management)
strategy_data_for_highways	1.1.2.2 (Traffic Management)	1.2.2.1 (Traffic Management)
strategy_data_for_roads	1.1.2.2 (Traffic Management)	1.2.2.2 (Traffic Management)
strategy_preemption	1.6.1.5 (Roadway Subsystem)	1.6.1.7.2 (Roadway Subsystem)
supplied_route	6.6.1 (Information Service Provider)	6.1.1 (Information Service Provider)
supply_incident_static_data	1.2.6.1 (Traffic Management)	1.3.1.2 (Traffic Management)
tada_archive_administration_data	8.3 (Archived Data Management Subsystem)	Archived Data Administrator
tadu_archive_analysis_results	8.6 (Archived Data Management Subsystem)	Archived Data User Systems
tadu_archive_data_product	8.5 (Archived Data Management Subsystem)	Archived Data User Systems
tadu_on_demand_confirmation	8.7 (Archived Data Management Subsystem)	Archived Data User Systems
tbv_har_broadcast_for_highways	1.2.7.5 (Roadway Subsystem)	Basic Vehicle
tbv_har_broadcast_for_roads	1.2.7.1 (Roadway Subsystem)	Basic Vehicle
tci_credentials_data_output	2.3.5 (Commercial Vehicle Check)	CVO Inspector
tci_inspection_report	2.3.3.2 (Commercial Vehicle Check)	CVO Inspector
tci_output_log_report	2.3.5 (Commercial Vehicle Check)	CVO Inspector
tci_pull_in_information	2.3.5 (Commercial Vehicle Check)	CVO Inspector
tci_safety_data_output	2.3.5 (Commercial Vehicle Check)	CVO Inspector
tcm_c_and_m_archive_request	8.1 (Archived Data Management Subsystem)	Construction and Maintenance
tcm_c_and_m_archive_status	8.1 (Archived Data Management Subsystem)	Construction and Maintenance
tcm_fault_data	1.2.8.3 (Traffic Management)	Construction and Maintenance
tcm_incident_confirmation	1.3.2.2 (Traffic Management)	Construction and Maintenance
tcm_request_incident_change	1.3.2.2 (Traffic Management)	Construction and Maintenance
tcm_resource_request	1.3.4.5 (Traffic Management)	Construction and Maintenance
tcm_sensor_fault_data	1.1.1.2 (Traffic Management)	Construction and Maintenance
tcv_lock_tag_data_request	2.6.4 (Commercial Vehicle Subsystem)	Commercial Vehicle
tcvd_border_pull_in_output	2.3.1 (Commercial Vehicle Check)	Commercial Vehicle Driver
tcvd_clearance_pull_in_output	2.3.1 (Commercial Vehicle Check)	Commercial Vehicle Driver
tcvd_confirm_data_stored	2.6.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_critical_safety_problem	2.4.4 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_data_input_request	2.4.4 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_data_request	2.2.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_enrollment_confirmation	2.2.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_enrollment_payment_confirmation	2.2.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_general_pull_in_output	2.3.1 (Commercial Vehicle Check)	Commercial Vehicle Driver
tcvd_inspection_results	2.3.3.5 (Commercial Vehicle Check)	Commercial Vehicle Driver

Table E.1 (Continued)

Data Flow Name	Source	Destination
tcvd_on_board_pull_in_output	2.3.7 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_other_data_request	2.2.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_output_data	2.4.4 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_output_tag_data	2.6.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_route_data	2.2.3 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_routing_instructions	2.1.5 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvd_safety_pull_in_output	2.3.1 (Commercial Vehicle Check)	Commercial Vehicle Driver
tcvd_type_input_request	2.4.4 (Commercial Vehicle Subsystem)	Commercial Vehicle Driver
tcvm_confirm_enrollment_data_stored	2.6.1 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_data_input_request	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_driver_route_instructions	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_enrollment_confirmation	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_enrollment_payment_confirmation	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_other_data_request	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_output_tag_data	2.6.1 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_preclearance_results	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_roadside_activity_report	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvm_route_data	2.1.3 (Fleet and Freight Management)	Commercial Vehicle Manager
tcvoir_carrier_or_vehicle_information	2.5.5 (Commercial Vehicle Administration)	CVO Information Requestor
td_advisory_information	6.2.5 (Vehicle)	Driver
td_broadcast_information	6.2.5 (Vehicle)	Driver
td_dms_indication_for_highways	1.2.7.5 (Roadway Subsystem)	Driver
td_dms_indication_for_roads	1.2.7.1 (Roadway Subsystem)	Driver
td_driving_guidance	6.7.2.3 (Vehicle)	Driver
td_guidance_input_request	6.7.2.3 (Vehicle)	Driver
td_guidance_map_update_response	6.7.2.3 (Vehicle)	Driver
td_guidance_route_details	6.7.2.3 (Vehicle)	Driver
td_lane_use_indication_for_highways	1.2.7.5 (Roadway Subsystem)	Driver
td_lane_use_indication_for_roads	1.2.7.1 (Roadway Subsystem)	Driver
td_other_services_toll_response	7.1.4 (Vehicle)	Driver
td_ramp_state_indication	1.2.7.5 (Roadway Subsystem)	Driver
td_signal_indication	1.2.7.1 (Roadway Subsystem)	Driver
td_toll_payment_confirmed	7.1.2 (Toll Collection)	Driver
td_toll_payment_invalid	7.1.2 (Toll Collection)	Driver
tdmv_cv_violation_identity_code	5.4.6 (Commercial Vehicle Administration)	DMV
tdmv_cv_violation_vehicle_license	5.4.6 (Commercial Vehicle Administration)	DMV
tdmv_toll_violation_identity_code	5.4.2 (Toll Administration)	DMV
tdmv_toll_violation_vehicle_license	5.4.2 (Toll Administration)	DMV

Table E.1 (Continued)

Data Flow Name	Source	Destination
tdmv_traffic_violation_identity_code	5.4.1 (Traffic Management)	DMV
tdmv_traffic_violation_vehicle_license	5.4.1 (Traffic Management)	DMV
tea_cv_request_for_information	2.5.5 (Commercial Vehicle Administration)	Enforcement Agency
tea_cv_violation_data	5.4.6 (Commercial Vehicle Administration)	Enforcement Agency
tea_toll_violation_data	5.4.2 (Toll Administration)	Enforcement Agency
tea_traffic_violation_data	5.4.1 (Traffic Management)	Enforcement Agency
tep_decision_support	5.3.5 (Emergency Vehicle Subsystem)	Emergency Personnel
tep_emergency_dispatch_order	5.3.5 (Emergency Vehicle Subsystem)	Emergency Personnel
tep_event_confirmation	1.3.2.2 (Traffic Management)	Event Promoters
tep_planned_event_confirmation	5.1.1 (Emergency Management)	Event Promoters
teso_archive_status	5.6 (Emergency Management)	Emergency System Operator
teso_emergency_action_log_output	5.2 (Emergency Management)	Emergency System Operator
teso_emergency_data_output	5.2 (Emergency Management)	Emergency System Operator
teso_emergency_vehicle_dispatch_failure	5.2 (Emergency Management)	Emergency System Operator
tets_incident_acknowledge	5.1.3 (Emergency Management)	Emergency Telecommunications System
tfi_archive_analysis_payment_request	8.6 (Archived Data Management Subsystem)	Financial Institution
tfi_archive_payment_request	8.5 (Archived Data Management Subsystem)	Financial Institution
tfi_cv_payment_request	7.4.1.1 (Commercial Vehicle Administration)	Financial Institution
tfi_driver_map_payment_request	7.4.1.3 (Information Service Provider)	Financial Institution
tfi_fare_payment_violator_data	7.3.1.6 (Transit Management)	Financial Institution
tfi_other_services_payment_request	7.4.1.5 (Transit Management)	Financial Institution
tfi_registration_payment_request	7.4.1.2 (Information Service Provider)	Financial Institution
tfi_request_fare_payment	7.3.1.3 (Transit Management)	Financial Institution
tfi_request_toll_payment	7.1.1.9 (Toll Administration)	Financial Institution
tfi_toll_payment_violator_data	7.1.1.3 (Toll Administration)	Financial Institution
tfi_traveler_display_payment_request	7.4.1.4 (Information Service Provider)	Financial Institution
tfi_traveler_map_payment_request	7.4.1.4 (Information Service Provider)	Financial Institution
tfi_traveler_other_services_payments_request	7.4.1.6 (Information Service Provider)	Financial Institution
tfi_traveler_rideshare_payment_request	7.4.1.8 (Information Service Provider)	Financial Institution
tga_quarterly_reports	2.5.8 (Commercial Vehicle Administration)	Government Administrators
tga_request_fees_updates	2.5.3 (Commercial Vehicle Administration)	Government Administrators
tgrs_government_data_report_input	8.8 (Archived Data Management Subsystem)	Government Reporting Systems
throttle_commands	3.2.3.4.1 (Vehicle)	3.2.3.4.5 (Vehicle)
tifd_freight_request	2.7 (Fleet and Freight Management)	Intermodal Freight Depot
tifd_intermodal_archive_request	8.1 (Archived Data Management Subsystem)	Intermodal Freight Depot
tifd_intermodal_archive_status	8.1 (Archived Data Management Subsystem)	Intermodal Freight Depot
time_to_closing	1.6.1.4.2 (Roadway Subsystem)	1.6.1.4.4 (Roadway Subsystem)
tispo_archive_status	6.1.6 (Information Service Provider)	ISP Operator

Table E.1 (Continued)

Data Flow Name	Source	Destination
tispo_broadcast_data_parameters_output	6.2.1.5 (Information Service Provider)	ISP Operator
tispo_route_selection_parameters	6.6.2.5 (Information Service Provider)	ISP Operator
tispo_trip_planning_parameters	6.1.4 (Information Service Provider)	ISP Operator
tm_emergency_information	5.1.3 (Emergency Management)	Media
tm_incident_data	1.3.4.3 (Traffic Management)	Media
tm_incident_information	1.1.4.5 (Information Service Provider)	Media
tm_pollution_data	1.5.2 (Emissions Management)	Media
tm_traffic_data	1.1.4.3 (Traffic Management)	Media
tm_traffic_information	1.1.4.5 (Information Service Provider)	Media
tm_transit_emergency_information	4.4.1.4 (Transit Management)	Media
tm_transit_incident_information	4.4.1.4 (Transit Management)	Media
tm_transit_schedule_deviations_to_media	4.1.6 (Transit Management)	Media
tm_transit_vehicle_deviations	4.1.8 (Information Service Provider)	Media
tm_traveler_information_request	6.5.1 (Information Service Provider)	Media
tmmc_crossing_clear_at_highways	1.2.7.5 (Roadway Subsystem)	Multi-Modal Crossings
tmmc_crossing_clear_at_roads	1.2.7.1 (Roadway Subsystem)	Multi-Modal Crossings
tmmc_highway_equipment_status	1.2.7.5 (Roadway Subsystem)	Multi-Modal Crossings
tmmc_road_equipment_status	1.2.7.1 (Roadway Subsystem)	Multi-Modal Crossings
tmmc_stop_alternate_mode_at_highways	1.2.7.5 (Roadway Subsystem)	Multi-Modal Crossings
tmmc_stop_alternate_mode_at_roads	1.2.7.1 (Roadway Subsystem)	Multi-Modal Crossings
tms_requests	1.6.4.2 (Traffic Management)	1.6.5.1 (Roadway Subsystem)
tmtsp_air_services_request	6.1.3 (Information Service Provider)	Multi-Modal Transportation Service Provider
tmtsp_confirm_multimodal_service	6.1.3 (Information Service Provider)	Multi-Modal Transportation Service Provider
tmtsp_ferry_services_request	6.1.3 (Information Service Provider)	Multi-Modal Transportation Service Provider
tmtsp_multimodal_archive_request	8.1 (Archived Data Management Subsystem)	Multi-Modal Transportation Service Provider
tmtsp_multimodal_archive_status	8.1 (Archived Data Management Subsystem)	Multi-Modal Transportation Service Provider
tmtsp_rail_services_request	6.1.3 (Information Service Provider)	Multi-Modal Transportation Service Provider
tmtsp_transit_arrival_changes	4.1.2.4 (Transit Management)	Multi-Modal Transportation Service Provider
tmtsp_transit_arrival_deviations	4.1.7 (Transit Management)	Multi-Modal Transportation Service Provider
tmtsp_transit_service_data	4.2.3.3 (Transit Management)	Multi-Modal Transportation Service Provider
tmup_emergency_route_map_request	5.3.7 (Emergency Management)	Map Update Provider
tmup_map_archive_request	8.1 (Archived Data Management Subsystem)	Map Update Provider
tmup_map_archive_status	8.1 (Archived Data Management Subsystem)	Map Update Provider
tmup_map_static_data	1.2.6.2 (Traffic Management)	Map Update Provider
tmup_request_demand_display_update	1.4.3 (Traffic Management)	Map Update Provider
tmup_request_emergency_display_update	5.5 (Emergency Management)	Map Update Provider
tmup_request_incident_display_update	1.3.4.4 (Traffic Management)	Map Update Provider
tmup_request_other_routes_map_update	6.6.3 (Information Service Provider)	Map Update Provider

Table E.1 (Continued)

Data Flow Name	Source	Destination
tmup_request_pollution_display_update	1.5.3 (Emissions Management)	Map Update Provider
tmup_request_route_selection_map_update	6.6.2.4 (Information Service Provider)	Map Update Provider
tmup_request_traffic_display_update	1.1.4.4 (Traffic Management)	Map Update Provider
tmup_request_traveler_display_update	6.3.4 (Remote Traveler Support)	Map Update Provider
tmup_request_traveler_personal_display_update	6.8.3.4 (Personal Information Access)	Map Update Provider
tmup_request_traveler_personal_display_update_cost	6.8.3.4 (Personal Information Access)	Map Update Provider
tmup_transit_map_update_request	4.2.3.9 (Transit Management)	Map Update Provider
tmup_traveler_map_update_cost_request	6.8.1.4 (Personal Information Access)	Map Update Provider
tmup_traveler_map_update_request	6.8.1.4 (Personal Information Access)	Map Update Provider
tmup_vehicle_map_update_cost_request	6.7.2.4 (Vehicle)	Map Update Provider
tmup_vehicle_map_update_request	6.7.2.4 (Vehicle)	Map Update Provider
To_Intermodal_Freight_Shipper	2.7 (Fleet and Freight Management)	Intermodal Freight Shipper
To_Other_Vehicle	3.2.3.6 (Vehicle)	Other Vehicle
toa_archive_coordination_data	8.4 (Archived Data Management Subsystem)	Other Archives
tocvas_commit_remote_enrollment	2.5.4 (Commercial Vehicle Administration)	Other CVAS
tocvas_data_table	2.5.4 (Commercial Vehicle Administration)	Other CVAS
tocvas_enrollment_confirmation	2.5.4 (Commercial Vehicle Administration)	Other CVAS
tocvas_enrollment_request	2.5.4 (Commercial Vehicle Administration)	Other CVAS
tocvas_provide_data	2.5.4 (Commercial Vehicle Administration)	Other CVAS
tods_other_data_source_archive_request	8.1 (Archived Data Management Subsystem)	Other Data Sources
tods_other_data_source_archive_status	8.1 (Archived Data Management Subsystem)	Other Data Sources
toec_emergency_center_identity	5.1.2 (Emergency Management)	Other EM
toec_incident_details	5.1.2 (Emergency Management)	Other EM
toec_incident_response_coordination	5.1.2 (Emergency Management)	Other EM
toec_mayday_emergency_data	5.1.6 (Emergency Management)	Other EM
toisp_data_supply	6.6.2.3 (Information Service Provider)	Other ISP
toisp_request_data	6.6.2.3 (Information Service Provider)	Other ISP
toisp_traffic_data_request	6.2.1.1 (Information Service Provider)	Other ISP
toisp_traffic_information	6.2.1.1 (Information Service Provider)	Other ISP
toisp_transit_data_request	6.2.1.3 (Information Service Provider)	Other ISP
toisp_transit_information	6.2.1.3 (Information Service Provider)	Other ISP
toll_archive_data	7.1.1.11 (Toll Administration)	8.1 (Archived Data Management Subsystem)
toll_archive_request	8.1 (Archived Data Management Subsystem)	7.1.1.11 (Toll Administration)
toll_archive_status	8.1 (Archived Data Management Subsystem)	7.1.1.11 (Toll Administration)
toll_bad_payment_check_request	7.1.1.5 (Toll Collection)	7.1.1.3 (Toll Administration)
toll_bad_payment_check_response	7.1.1.3 (Toll Administration)	7.1.1.5 (Toll Collection)
toll_charge	7.1.1.2 (Toll Collection)	7.1.1.4 (Toll Collection)

Table E.1 (Continued)

Data Flow Name	Source	Destination
toll_operational_data	7.1.1.9 (Toll Administration)	7.1.1.11 (Toll Administration)
toll_payment_confirmation	7.1.7 (Vehicle)	7.1.1.5 (Toll Collection)
toll_payment_debited	7.1.1.5 (Toll Collection)	7.1.7 (Vehicle)
toll_payment_pull_in_message	7.1.1.5 (Toll Collection)	7.1.2 (Toll Collection)
toll_payment_request	7.1.1.5 (Toll Collection)	7.1.7 (Vehicle)
toll_payment_violator_data	7.1.1.5 (Toll Collection)	7.1.1.3 (Toll Administration)
toll_price_changes_request	1.4.4 (Traffic Management)	7.1.1.7 (Toll Administration)
toll_price_changes_response	7.1.1.7 (Toll Administration)	1.4.4 (Traffic Management)
toll_price_data	7.1.1.7 (Toll Administration)	7.4.2 (Information Service Provider)
toll_price_data_for_advanced_toll	7.1.1.7 (Toll Administration)	7.1.1.10 (Toll Collection)
toll_price_data_for_vehicle_toll	7.1.1.7 (Toll Administration)	7.1.1.2 (Toll Collection)
toll_price_data_request	7.4.2 (Information Service Provider)	7.1.1.7 (Toll Administration)
toll_price_details	7.4.2 (Information Service Provider)	1.4.2 (Traffic Management)
toll_price_direct_details	7.1.1.7 (Toll Administration)	1.4.2 (Traffic Management)
toll_price_direct_request	1.4.2 (Traffic Management)	7.1.1.7 (Toll Administration)
toll_price_request	1.4.2 (Traffic Management)	7.4.2 (Information Service Provider)
toll_prices_for_archive	7.1.1.7 (Toll Administration)	7.1.1.11 (Toll Administration)
toll_tag_data_clear	7.1.1.5 (Toll Collection)	7.1.7 (Vehicle)
toll_tag_data_collect	7.1.7 (Vehicle)	7.1.1.1 (Toll Collection)
toll_tag_data_input	7.1.7 (Vehicle)	1.1.6 (Roadway Subsystem)
toll_tag_data_needed	1.1.6 (Roadway Subsystem)	7.1.7 (Vehicle)
toll_tag_data_request	7.1.1.1 (Toll Collection)	7.1.7 (Vehicle)
toll_tag_data_update	7.1.1.1 (Toll Collection)	7.1.7 (Vehicle)
toll_tag_problem_message	7.1.1.1 (Toll Collection)	7.1.2 (Toll Collection)
toll_transactions_for_probe_data	7.1.1.9 (Toll Administration)	7.1.1.6 (Toll Administration)
toll_transactions_for_probe_data_request	7.1.1.6 (Toll Administration)	7.1.1.9 (Toll Administration)
toll_violation_information	7.1.3 (Toll Collection)	5.4.2 (Toll Administration)
top_parking_coordination_data	1.2.5.2 (Parking Management)	Other Parking
totc_data_request	1.1.5 (Traffic Management)	Other TM
totc_identity	1.1.5 (Traffic Management)	Other TM
totc_traffic_control_and_status	1.1.5 (Traffic Management)	Other TM
totc_transfer_data	1.1.5 (Traffic Management)	Other TM
totrm_transit_services	4.2.3.7 (Transit Management)	Other TRM
tp_cross_request_received	1.2.7.1 (Roadway Subsystem)	Pedestrians
tp_cross_road	1.2.7.1 (Roadway Subsystem)	Pedestrians
tp_dms_indication	1.2.7.1 (Roadway Subsystem)	Pedestrians
tpi_debited_commercial_manager_payment	7.5.4 (Fleet and Freight Management)	Payment Instrument
tpi_debited_driver_payment_at_vehicle	7.5.1 (Vehicle)	Payment Instrument

Table E.1 (Continued)

Data Flow Name	Source	Destination
tpi_debited_fare_payment_at_roadside	7.3.4 (Remote Traveler Support)	Payment Instrument
tpi_debited_payment_at_parking_lot	7.2.7 (Vehicle)	Payment Instrument
tpi_debited_payment_at_personal_device	7.5.3 (Personal Information Access)	Payment Instrument
tpi_debited_payment_at_toll_plaza	7.1.7 (Vehicle)	Payment Instrument
tpi_debited_payment_on_transit_vehicle	7.3.5 (Transit Vehicle Subsystem)	Payment Instrument
tpi_debited_transit_user_payment_at_roadside	7.5.2 (Remote Traveler Support)	Payment Instrument
tpi_debited_transit_user_payment_at_vehicle	7.5.1 (Vehicle)	Payment Instrument
tpi_debited_traveler_payment_at_roadside	7.5.5 (Remote Traveler Support)	Payment Instrument
tpi_request_fare_payment_at_roadside	7.3.4 (Remote Traveler Support)	Payment Instrument
tpi_request_fare_payment_on_transit_vehicle	7.3.5 (Transit Vehicle Subsystem)	Payment Instrument
tpi_request_payment_at_parking_lot	7.2.7 (Vehicle)	Payment Instrument
tpi_request_payment_at_toll_plaza	7.1.7 (Vehicle)	Payment Instrument
traffic_control_device_status	1.2.7.2 (Roadway Subsystem)	1.2.8.1 (Traffic Management)
traffic_data_advisory_request	6.2.1.1 (Information Service Provider)	1.1.4.6 (Information Service Provider)
traffic_data_demand_request	1.4.2 (Traffic Management)	1.1.4.1 (Traffic Management)
traffic_data_deployment_request	1.1.4.7 (Traffic Management)	1.1.4.1 (Traffic Management)
traffic_data_distribution_request	1.1.4.6 (Information Service Provider)	1.1.4.1 (Traffic Management)
traffic_data_for_advisory_output	1.1.4.6 (Information Service Provider)	6.2.1.1 (Information Service Provider)
traffic_data_for_broadcast_to_kiosks	1.1.4.6 (Information Service Provider)	6.3.2 (Remote Traveler Support)
traffic_data_for_broadcast_to_personal_devices	1.1.4.6 (Information Service Provider)	6.8.3.2 (Personal Information Access)
traffic_data_for_demand	1.1.4.1 (Traffic Management)	1.4.2 (Traffic Management)
traffic_data_for_deployment	1.1.4.1 (Traffic Management)	1.1.4.7 (Traffic Management)
traffic_data_for_distribution	1.1.4.1 (Traffic Management)	1.1.4.6 (Information Service Provider)
traffic_data_for_emergency_services	1.1.4.1 (Traffic Management)	5.1.4 (Emergency Management)
traffic_data_for_guidance	1.1.4.6 (Information Service Provider)	6.6.2.2 (Information Service Provider)
traffic_data_for_kiosks	1.1.4.6 (Information Service Provider)	6.3.2 (Remote Traveler Support)
traffic_data_for_personal_devices	1.1.4.6 (Information Service Provider)	6.8.3.2 (Personal Information Access)
traffic_data_for_ridesharing	1.1.4.6 (Information Service Provider)	6.4.2 (Information Service Provider)
traffic_data_for_signage	1.1.4.1 (Traffic Management)	1.2.4.3 (Traffic Management)
traffic_data_for_transit	1.1.4.1 (Traffic Management)	4.1.2.4 (Transit Management)
traffic_data_for_transit	1.1.4.1 (Traffic Management)	4.1.6 (Transit Management)
traffic_data_for_transit	1.1.4.1 (Traffic Management)	4.2.1.3 (Transit Management)
traffic_data_guidance_request	6.6.2.2 (Information Service Provider)	1.1.4.6 (Information Service Provider)
traffic_data_kiosk_request	6.3.2 (Remote Traveler Support)	1.1.4.6 (Information Service Provider)
traffic_data_kiosk_request_for_archive	1.1.4.6 (Information Service Provider)	6.1.5 (Information Service Provider)
traffic_data_media_parameters	1.1.4.2 (Traffic Management)	1.1.4.3 (Traffic Management)
traffic_data_personal_request	6.8.3.2 (Personal Information Access)	1.1.4.6 (Information Service Provider)
traffic_data_personal_request_for_archive	1.1.4.6 (Information Service Provider)	6.1.5 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
traffic_data_ridesharing_request	6.4.2 (Information Service Provider)	1.1.4.6 (Information Service Provider)
traffic_device_control	1.6.1.2.1 (Roadway Subsystem)	1.6.1.2.5 (Roadway Subsystem)
traffic_device_control_state	1.6.1.2.1 (Roadway Subsystem)	1.6.1.2.6 (Roadway Subsystem)
traffic_image_data	1.3.1.3 (Roadway Subsystem)	1.3.1.1 (Traffic Management)
traffic_management_archive_data	1.1.4.7 (Traffic Management)	8.1 (Archived Data Management Subsystem)
traffic_management_archive_request	8.1 (Archived Data Management Subsystem)	1.1.4.7 (Traffic Management)
traffic_management_archive_status	8.1 (Archived Data Management Subsystem)	1.1.4.7 (Traffic Management)
traffic_management_request	1.6.1.7.2 (Roadway Subsystem)	1.6.4.2 (Traffic Management)
traffic_operations_resource_request	1.3.4.2 (Traffic Management)	1.3.4.5 (Traffic Management)
traffic_operations_resource_response	1.3.4.5 (Traffic Management)	1.3.4.2 (Traffic Management)
traffic_sensor_data	1.1.1.1 (Roadway Subsystem)	1.1.2.2 (Traffic Management)
traffic_sensor_status	1.1.1.1 (Roadway Subsystem)	1.1.1.2 (Traffic Management)
traffic_surveillance_data	1.1.2.2 (Traffic Management)	1.6.4.2 (Traffic Management)
traffic_video_image	1.1.1.1 (Roadway Subsystem)	1.1.2.2 (Traffic Management)
traffic_video_image_for_display	1.1.1.1 (Roadway Subsystem)	1.1.4.2 (Traffic Management)
train_message	1.6.1.4.3 (Roadway Subsystem)	1.6.3.2 (Roadway Subsystem)
train_ops_plan	1.6.4.2 (Traffic Management)	1.6.4.1 (Traffic Management)
train_sense_data	1.6.1.1 (Roadway Subsystem)	1.2.7.1 (Roadway Subsystem)
transfer_charges_to_fares	7.2.6 (Information Service Provider)	7.3.2 (Information Service Provider)
transfer_charges_to_tolls	7.2.6 (Information Service Provider)	7.1.6 (Information Service Provider)
transfer_fares_to_charges	7.3.2 (Information Service Provider)	7.2.6 (Information Service Provider)
transfer_fares_to_tolls	7.3.2 (Information Service Provider)	7.1.6 (Information Service Provider)
transfer_tolls_to_charges	7.1.6 (Information Service Provider)	7.2.6 (Information Service Provider)
transfer_tolls_to_fares	7.1.6 (Information Service Provider)	7.3.2 (Information Service Provider)
transit_advisory_data	6.2.1.6 (Transit Vehicle Subsystem)	6.2.3 (Transit Vehicle Subsystem)
transit_advisory_data_request	6.2.3 (Transit Vehicle Subsystem)	6.2.1.6 (Transit Vehicle Subsystem)
transit_advisory_vehicle_information	6.2.1.6 (Transit Vehicle Subsystem)	4.6.2 (Transit Vehicle Subsystem)
transit_archive_data	4.2.4 (Transit Management)	8.1 (Archived Data Management Subsystem)
transit_archive_request	8.1 (Archived Data Management Subsystem)	4.2.4 (Transit Management)
transit_archive_status	8.1 (Archived Data Management Subsystem)	4.2.4 (Transit Management)
transit_conditions_advisories_request	6.2.1.3 (Information Service Provider)	4.1.8 (Information Service Provider)
transit_conditions_demand_request	1.4.2 (Traffic Management)	4.1.5 (Transit Management)
transit_conditions_guidance_request	6.6.4 (Information Service Provider)	4.1.8 (Information Service Provider)
transit_coordination_data	4.4.2 (Transit Management)	5.1.4 (Emergency Management)
transit_deviation_data_received	4.1.6 (Transit Management)	4.1.8 (Information Service Provider)
transit_deviation_kiosk_request	6.3.2 (Remote Traveler Support)	4.1.8 (Information Service Provider)
transit_deviation_kiosk_request_for_archive	4.1.8 (Information Service Provider)	6.1.5 (Information Service Provider)
transit_deviations_for_broadcast_to_kiosks	4.1.8 (Information Service Provider)	6.3.2 (Remote Traveler Support)

Table E.1 (Continued)

Data Flow Name	Source	Destination
transit_deviations_for_broadcast_to_personal_devices	4.1.8 (Information Service Provider)	6.8.3.2 (Personal Information Access)
transit_deviations_for_kiosks	4.1.8 (Information Service Provider)	6.3.2 (Remote Traveler Support)
transit_deviations_for_personal_devices	4.1.8 (Information Service Provider)	6.8.3.2 (Personal Information Access)
transit_deviations_personal_request	6.8.3.2 (Personal Information Access)	4.1.8 (Information Service Provider)
transit_deviations_personal_request_for_archive	4.1.8 (Information Service Provider)	6.1.5 (Information Service Provider)
transit_driver_emergency_acknowledge	4.4.1.2 (Transit Vehicle Subsystem)	4.4.1.5 (Transit Vehicle Subsystem)
transit_driver_emergency_request	4.4.1.5 (Transit Vehicle Subsystem)	4.4.1.2 (Transit Vehicle Subsystem)
transit_driver_info_for_archive	4.5.8 (Transit Management)	4.2.4 (Transit Management)
transit_driver_information_output	4.5.8 (Transit Management)	4.5.7 (Transit Management)
transit_driver_information_output_request	4.5.7 (Transit Management)	4.5.8 (Transit Management)
transit_driver_performance	4.5.1 (Transit Management)	4.5.8 (Transit Management)
transit_driver_performance_considerations	4.5.8 (Transit Management)	4.5.1 (Transit Management)
transit_driver_performance_data	4.5.1 (Transit Management)	4.5.4 (Transit Management)
transit_driver_route_assignment_considerations	4.5.8 (Transit Management)	4.5.5 (Transit Management)
transit_emergency_data	4.4.1.6 (Transit Management)	5.1.1 (Emergency Management)
transit_emergency_data_for_archive	4.4.1.6 (Transit Management)	4.2.4 (Transit Management)
transit_emergency_details	4.4.1.2 (Transit Vehicle Subsystem)	4.4.1.6 (Transit Management)
transit_emergency_information	4.4.1.2 (Transit Vehicle Subsystem)	4.4.2 (Transit Management)
transit_fare_data	7.3.1.7 (Transit Management)	7.4.2 (Information Service Provider)
transit_fare_data_request	7.4.2 (Information Service Provider)	7.3.1.7 (Transit Management)
transit_fare_details	7.4.2 (Information Service Provider)	1.4.2 (Traffic Management)
transit_fare_direct_details	7.3.1.7 (Transit Management)	1.4.2 (Traffic Management)
transit_fare_direct_request	1.4.2 (Traffic Management)	7.3.1.7 (Transit Management)
transit_fare_request	1.4.2 (Traffic Management)	7.4.2 (Information Service Provider)
transit_fare_transactions	7.3.1.3 (Transit Management)	4.2.4 (Transit Management)
transit_highway_overall_priority	4.1.4 (Transit Management)	1.2.2.1 (Traffic Management)
transit_highway_priority_given	1.2.2.1 (Traffic Management)	4.1.4 (Transit Management)
transit_incident_coordination_data	5.1.3 (Emergency Management)	4.4.2 (Transit Management)
transit_incident_data	4.4.1.4 (Transit Management)	6.2.1.3 (Information Service Provider)
transit_incident_details	4.4.1.1 (Transit Management)	5.1.1 (Emergency Management)
transit_incident_info_for_archive	4.4.1.1 (Transit Management)	4.2.4 (Transit Management)
transit_incident_information	4.4.1.1 (Transit Management)	4.4.2 (Transit Management)
transit_information_request	4.1.5 (Transit Management)	4.1.6 (Transit Management)
transit_media_emergency_information	4.4.1.6 (Transit Management)	4.4.1.4 (Transit Management)
transit_media_incident_information	4.4.1.1 (Transit Management)	4.4.1.4 (Transit Management)
transit_operational_data_for_archive	4.2.3.5 (Transit Management)	4.2.4 (Transit Management)
transit_operator_emergency_request	4.4.1.2 (Transit Vehicle Subsystem)	4.4.1.3 (Transit Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
transit_operator_incident_information	4.4.1.1 (Transit Management)	4.4.1.3 (Transit Management)
transit_operator_request_acknowledge	4.4.1.3 (Transit Management)	4.4.1.2 (Transit Vehicle Subsystem)
transit_operator_security_action	4.4.1.3 (Transit Management)	4.4.1.1 (Transit Management)
transit_probe_data	4.1.5 (Transit Management)	1.1.2.5 (Traffic Management)
transit_ramp_overall_priority	4.1.4 (Transit Management)	1.2.3 (Traffic Management)
transit_ramp_priority_given	1.2.3 (Traffic Management)	4.1.4 (Transit Management)
transit_road_overall_priority	4.1.4 (Transit Management)	1.2.2.2 (Traffic Management)
transit_road_priority_given	1.2.2.2 (Traffic Management)	4.1.4 (Transit Management)
transit_roadside_fare_data	7.3.1.7 (Transit Management)	4.7.2.6 (Remote Traveler Support)
transit_roadside_fare_payment_confirmation	7.3.4 (Remote Traveler Support)	7.3.1.5 (Transit Management)
transit_roadside_fare_payment_debited	7.3.1.5 (Transit Management)	7.3.4 (Remote Traveler Support)
transit_roadside_fare_payment_request	7.3.1.5 (Transit Management)	7.3.4 (Remote Traveler Support)
transit_roadside_passenger_data	4.7.2.7 (Remote Traveler Support)	4.2.3.5 (Transit Management)
transit_route	6.6.4 (Information Service Provider)	6.6.1 (Information Service Provider)
transit_route_assign_for_archive	4.5.5 (Transit Management)	4.2.4 (Transit Management)
transit_routes_current_data	4.2.2 (Transit Management)	4.2.3.1 (Transit Management)
transit_routes_data	4.2.3.1 (Transit Management)	4.2.3.8 (Transit Management)
transit_routes_request	4.2.3.1 (Transit Management)	4.2.2 (Transit Management)
transit_routes_updates	4.2.3.1 (Transit Management)	4.2.2 (Transit Management)
transit_running_data_for_advisory_output	4.1.8 (Information Service Provider)	6.2.1.3 (Information Service Provider)
transit_running_data_for_advisory_output	4.1.8 (Information Service Provider)	Other ISP
transit_running_data_for_demand	4.1.5 (Transit Management)	1.4.2 (Traffic Management)
transit_running_data_for_guidance	4.1.8 (Information Service Provider)	6.6.4 (Information Service Provider)
transit_schedule_current_data	4.2.2 (Transit Management)	4.2.3.2 (Transit Management)
transit_schedule_data	4.2.3.2 (Transit Management)	4.2.3.8 (Transit Management)
transit_schedule_request	4.2.3.2 (Transit Management)	4.2.2 (Transit Management)
transit_schedule_updates	4.2.3.2 (Transit Management)	4.2.2 (Transit Management)
transit_service_external_data	4.2.3.8 (Transit Management)	4.2.3.3 (Transit Management)
transit_service_internal_data	4.2.3.8 (Transit Management)	4.2.3.6 (Transit Management)
transit_services_advisories_request	6.2.1.3 (Information Service Provider)	4.2.3.3 (Transit Management)
transit_services_changes_request	1.4.4 (Traffic Management)	4.2.3.4 (Transit Management)
transit_services_changes_response	4.2.3.4 (Transit Management)	1.4.4 (Traffic Management)
transit_services_data_for_output	4.2.3.8 (Transit Management)	4.2.3.4 (Transit Management)
transit_services_demand_request	1.4.2 (Traffic Management)	4.2.3.3 (Transit Management)
transit_services_demand_response_request	4.2.1.3 (Transit Management)	4.2.2 (Transit Management)
transit_services_for_advanced_fares	4.2.3.6 (Transit Management)	7.3.1.2 (Transit Management)
transit_services_for_advisory_data	4.2.3.3 (Transit Management)	6.2.1.3 (Information Service Provider)
transit_services_for_corrections	4.2.3.6 (Transit Management)	4.1.2.2 (Transit Vehicle Subsystem)

Table E.1 (Continued)

Data Flow Name	Source	Destination
transit_services_for_demand	4.2.3.3 (Transit Management)	1.4.2 (Traffic Management)
transit_services_for_demand_response	4.2.2 (Transit Management)	4.2.1.3 (Transit Management)
transit_services_for_deployment	4.2.3.3 (Transit Management)	4.2.4 (Transit Management)
transit_services_for_eta	4.2.3.6 (Transit Management)	4.1.2.1 (Transit Vehicle Subsystem)
transit_services_for_eta_request	4.1.2.1 (Transit Vehicle Subsystem)	4.2.3.6 (Transit Management)
transit_services_for_guidance	4.2.3.3 (Transit Management)	6.6.4 (Information Service Provider)
transit_services_for_kiosks	4.2.3.3 (Transit Management)	6.3.2 (Remote Traveler Support)
transit_services_for_other_TRM	4.2.3.8 (Transit Management)	4.2.3.7 (Transit Management)
transit_services_for_personal_devices	4.2.3.3 (Transit Management)	6.8.3.2 (Personal Information Access)
transit_services_for_roadside_fares	4.2.3.6 (Transit Management)	4.7.2.2 (Remote Traveler Support)
transit_services_for_scenarios	4.2.3.6 (Transit Management)	4.1.4 (Transit Management)
transit_services_for_transit_drivers	4.2.3.6 (Transit Management)	4.5.5 (Transit Management)
transit_services_for_travelers	4.2.3.3 (Transit Management)	4.7.1.1 (Remote Traveler Support)
transit_services_for_vehicle_fares	4.2.3.6 (Transit Management)	4.6.2 (Transit Vehicle Subsystem)
transit_services_guidance_request	6.6.4 (Information Service Provider)	4.2.3.3 (Transit Management)
transit_services_kiosk_request	6.3.2 (Remote Traveler Support)	4.2.3.3 (Transit Management)
transit_services_personal_request	6.8.3.2 (Personal Information Access)	4.2.3.3 (Transit Management)
transit_services_travelers_request	4.7.1.1 (Remote Traveler Support)	4.2.3.3 (Transit Management)
transit_technician_info	4.3.3 (Transit Management)	4.2.4 (Transit Management)
transit_technician_work_assignment	4.3.3 (Transit Management)	4.3.4 (Transit Management)
transit_user_advanced_payment_at_roadside	4.7.2.5 (Remote Traveler Support)	7.5.2 (Remote Traveler Support)
transit_user_advanced_payment_on_vehicle	4.6.5 (Transit Vehicle Subsystem)	7.5.1 (Vehicle)
transit_user_advisory_information	6.2.2 (Vehicle)	6.2.3 (Transit Vehicle Subsystem)
transit_user_advisory_information_request	6.2.3 (Transit Vehicle Subsystem)	6.2.2 (Vehicle)
transit_user_payments_transactions	7.4.1.5 (Transit Management)	4.2.4 (Transit Management)
transit_user_roadside_credit_identity	7.5.2 (Remote Traveler Support)	4.7.2.5 (Remote Traveler Support)
transit_user_roadside_fare	4.7.2.3 (Remote Traveler Support)	4.7.2.4 (Remote Traveler Support)
transit_user_roadside_image	4.7.2.1 (Remote Traveler Support)	7.3.3 (Transit Management)
transit_user_roadside_information	4.7.2.5 (Remote Traveler Support)	4.7.2.2 (Remote Traveler Support)
transit_user_roadside_payment_response	4.7.2.4 (Remote Traveler Support)	4.7.2.5 (Remote Traveler Support)
transit_user_roadside_processed_fare_data	4.7.2.4 (Remote Traveler Support)	4.7.2.7 (Remote Traveler Support)
transit_user_roadside_ride	4.7.2.2 (Remote Traveler Support)	4.7.2.3 (Remote Traveler Support)
transit_user_roadside_ride_data	4.7.2.2 (Remote Traveler Support)	4.7.2.7 (Remote Traveler Support)
transit_user_roadside_tag_data	7.3.4 (Remote Traveler Support)	4.7.2.1 (Remote Traveler Support)
transit_user_roadside_tag_identity	4.7.2.1 (Remote Traveler Support)	4.7.2.2 (Remote Traveler Support)
transit_user_roadside_tag_identity	4.7.2.1 (Remote Traveler Support)	4.7.2.4 (Remote Traveler Support)
transit_user_vehicle_credit_identity	7.5.1 (Vehicle)	4.6.5 (Transit Vehicle Subsystem)
transit_user_vehicle_fare	4.6.3 (Transit Vehicle Subsystem)	4.6.4 (Transit Vehicle Subsystem)

Table E.1 (Continued)

Data Flow Name	Source	Destination
transit_user_vehicle_image	4.6.1 (Transit Vehicle Subsystem)	7.3.3 (Transit Management)
transit_user_vehicle_information	4.6.5 (Transit Vehicle Subsystem)	4.6.2 (Transit Vehicle Subsystem)
transit_user_vehicle_payment_response	4.6.4 (Transit Vehicle Subsystem)	4.6.5 (Transit Vehicle Subsystem)
transit_user_vehicle_processed_fare_data	4.6.4 (Transit Vehicle Subsystem)	4.6.7 (Transit Vehicle Subsystem)
transit_user_vehicle_ride	4.6.2 (Transit Vehicle Subsystem)	4.6.3 (Transit Vehicle Subsystem)
transit_user_vehicle_ride_data	4.6.2 (Transit Vehicle Subsystem)	4.6.7 (Transit Vehicle Subsystem)
transit_user_vehicle_tag_data	7.3.5 (Transit Vehicle Subsystem)	4.6.1 (Transit Vehicle Subsystem)
transit_user_vehicle_tag_identity	4.6.1 (Transit Vehicle Subsystem)	4.6.2 (Transit Vehicle Subsystem)
transit_user_vehicle_tag_identity	4.6.1 (Transit Vehicle Subsystem)	4.6.4 (Transit Vehicle Subsystem)
transit_vehicle_advanced_payment_request	4.6.5 (Transit Vehicle Subsystem)	4.6.8 (Transit Management)
transit_vehicle_advanced_payment_response	4.6.8 (Transit Management)	4.6.5 (Transit Vehicle Subsystem)
transit_vehicle_advisory_eta	4.1.6 (Transit Management)	6.2.3 (Transit Vehicle Subsystem)
transit_vehicle_arrival_conditions	4.1.2.2 (Transit Vehicle Subsystem)	4.1.2.4 (Transit Management)
transit_vehicle_arrival_deviations	4.1.4 (Transit Management)	4.1.7 (Transit Management)
transit_vehicle_arrival_time	4.1.5 (Transit Management)	4.7.1.1 (Remote Traveler Support)
transit_vehicle_arrival_times	4.1.1 (Transit Vehicle Subsystem)	4.1.2.1 (Transit Vehicle Subsystem)
transit_vehicle_availability	4.3.2 (Transit Management)	4.2.3.5 (Transit Management)
transit_vehicle_availability	4.3.2 (Transit Management)	4.5.5 (Transit Management)
transit_vehicle_collected_maintenance_data	4.1.9 (Transit Vehicle Subsystem)	4.1.6 (Transit Management)
transit_vehicle_collected_maintenance_data_request	4.1.6 (Transit Management)	4.1.9 (Transit Vehicle Subsystem)
transit_vehicle_collected_trip_data	4.1.1 (Transit Vehicle Subsystem)	4.1.6 (Transit Management)
transit_vehicle_corrective_instructions	4.1.2.2 (Transit Vehicle Subsystem)	4.1.2.3 (Transit Vehicle Subsystem)
transit_vehicle_data	4.1.5 (Transit Management)	4.2.3.5 (Transit Management)
transit_vehicle_data_for_archive	4.1.5 (Transit Management)	4.2.4 (Transit Management)
transit_vehicle_deviation_data	4.1.2.1 (Transit Vehicle Subsystem)	4.1.2.3 (Transit Vehicle Subsystem)
transit_vehicle_deviation_update	4.1.4 (Transit Management)	4.1.6 (Transit Management)
transit_vehicle_deviations	4.1.2.1 (Transit Vehicle Subsystem)	4.1.2.2 (Transit Vehicle Subsystem)
transit_vehicle_deviations_details	4.1.6 (Transit Management)	4.1.8 (Information Service Provider)
transit_vehicle_deviations_details_request	4.1.8 (Information Service Provider)	4.1.6 (Transit Management)
transit_vehicle_deviations_from_schedule	4.1.2.1 (Transit Vehicle Subsystem)	4.1.4 (Transit Management)
transit_vehicle_eta	4.1.2.1 (Transit Vehicle Subsystem)	4.1.6 (Transit Management)
transit_vehicle_eta_for_advisory	4.1.2.1 (Transit Vehicle Subsystem)	6.2.3 (Transit Vehicle Subsystem)
transit_vehicle_fare_data	7.3.1.7 (Transit Management)	4.6.6 (Transit Vehicle Subsystem)
transit_vehicle_fare_payment_confirmation	7.3.5 (Transit Vehicle Subsystem)	7.3.1.5 (Transit Management)
transit_vehicle_fare_payment_debited	7.3.1.5 (Transit Management)	7.3.5 (Transit Vehicle Subsystem)
transit_vehicle_fare_payment_request	7.3.1.5 (Transit Management)	7.3.5 (Transit Vehicle Subsystem)
transit_vehicle_information	4.1.6 (Transit Management)	4.1.5 (Transit Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
transit_vehicle_location	4.1.3 (Transit Vehicle Subsystem)	4.2.1.2 (Transit Management)
transit_vehicle_location	4.1.3 (Transit Vehicle Subsystem)	4.4.1.2 (Transit Vehicle Subsystem)
transit_vehicle_location	4.1.3 (Transit Vehicle Subsystem)	4.6.2 (Transit Vehicle Subsystem)
transit_vehicle_location	4.1.3 (Transit Vehicle Subsystem)	4.6.5 (Transit Vehicle Subsystem)
transit_vehicle_location	4.1.3 (Transit Vehicle Subsystem)	6.2.1.6 (Transit Vehicle Subsystem)
transit_vehicle_location_for_deviation	4.1.3 (Transit Vehicle Subsystem)	4.1.4 (Transit Management)
transit_vehicle_location_for_eta	4.1.3 (Transit Vehicle Subsystem)	4.1.2.1 (Transit Vehicle Subsystem)
transit_vehicle_location_for_store	4.1.3 (Transit Vehicle Subsystem)	4.1.6 (Transit Management)
transit_vehicle_maintenance	4.3.1 (Transit Management)	4.3.7 (Transit Management)
transit_vehicle_maintenance_data	4.3.7 (Transit Management)	4.3.5 (Transit Management)
transit_vehicle_maintenance_data_request	4.3.5 (Transit Management)	4.3.7 (Transit Management)
transit_vehicle_maintenance_data_update	4.3.6 (Transit Management)	4.3.7 (Transit Management)
transit_vehicle_maintenance_info	4.3.7 (Transit Management)	4.2.4 (Transit Management)
transit_vehicle_maintenance_information	4.3.1 (Transit Management)	4.3.2 (Transit Management)
transit_vehicle_maintenance_log_data	4.3.4 (Transit Management)	4.3.7 (Transit Management)
transit_vehicle_maintenance_schedule	4.3.2 (Transit Management)	4.3.7 (Transit Management)
transit_vehicle_maintenance_schedule_data	4.3.2 (Transit Management)	4.3.3 (Transit Management)
transit_vehicle_maintenance_specs	4.3.7 (Transit Management)	4.3.1 (Transit Management)
transit_vehicle_maintenance_specs	4.3.7 (Transit Management)	4.3.4 (Transit Management)
transit_vehicle_maintenance_specs_update	4.3.5 (Transit Management)	4.3.7 (Transit Management)
transit_vehicle_maintenance_verification_results	4.3.4 (Transit Management)	4.3.3 (Transit Management)
transit_vehicle_on_board_data	4.1.1 (Transit Vehicle Subsystem)	4.1.3 (Transit Vehicle Subsystem)
transit_vehicle_passenger_data	4.6.7 (Transit Vehicle Subsystem)	4.2.3.5 (Transit Management)
transit_vehicle_preemption_request	4.1.2.2 (Transit Vehicle Subsystem)	4.1.2.5 (Transit Vehicle Subsystem)
transit_vehicle_roadway_preemptions	4.1.2.5 (Transit Vehicle Subsystem)	1.2.7.3 (Roadway Subsystem)
transit_vehicle_schedule_deviation	4.1.2.1 (Transit Vehicle Subsystem)	4.1.6 (Transit Management)
transit_vehicle_status	4.1.5 (Transit Management)	4.3.1 (Transit Management)
transit_vehicle_status	4.1.5 (Transit Management)	4.3.4 (Transit Management)
transit_vehicle_user_data	4.1.6 (Transit Management)	4.7.1.2 (Remote Traveler Support)
traveler_advanced_payments_confirm	7.4.3 (Information Service Provider)	7.4.1.6 (Information Service Provider)
traveler_advanced_payments_request	7.4.1.6 (Information Service Provider)	7.4.3 (Information Service Provider)
traveler_archive_data	6.1.6 (Information Service Provider)	8.1 (Archived Data Management Subsystem)
traveler_archive_request	8.1 (Archived Data Management Subsystem)	6.1.6 (Information Service Provider)
traveler_archive_status	8.1 (Archived Data Management Subsystem)	6.1.6 (Information Service Provider)
traveler_confirm_for_archive	6.1.2 (Information Service Provider)	6.1.5 (Information Service Provider)
traveler_current_condition_request	6.3.1 (Remote Traveler Support)	6.1.1 (Information Service Provider)
traveler_guidance_accepted	6.8.1.2 (Personal Information Access)	6.8.1.1.1 (Personal Information Access)
traveler_guidance_data	6.8.1.2 (Personal Information Access)	6.8.1.1.1 (Personal Information Access)

Table E.1 (Continued)

Data Flow Name	Source	Destination
traveler_guidance_instructions	6.8.1.1.1 (Personal Information Access)	6.8.1.2 (Personal Information Access)
traveler_guidance_request	6.8.1.2 (Personal Information Access)	6.8.1.1.1 (Personal Information Access)
traveler_guidance_route	6.6.1 (Information Service Provider)	6.8.1.1.2 (Personal Information Access)
traveler_info_payments_transactions	7.4.1.7 (Information Service Provider)	6.1.6 (Information Service Provider)
traveler_information	6.2.1.6 (Transit Vehicle Subsystem)	6.2.3 (Transit Vehicle Subsystem)
traveler_information_request	6.2.3 (Transit Vehicle Subsystem)	6.2.1.6 (Transit Vehicle Subsystem)
traveler_input_request	6.8.1.1.1 (Personal Information Access)	6.8.1.2 (Personal Information Access)
traveler_location_for_autonomous_guidance	6.8.1.3 (Personal Information Access)	6.8.1.1.3 (Personal Information Access)
traveler_location_for_dynamic_guidance	6.8.1.3 (Personal Information Access)	6.8.1.1.2 (Personal Information Access)
traveler_location_for_emergencies	6.8.1.3 (Personal Information Access)	6.8.2.1 (Personal Information Access)
traveler_location_for_information	6.8.1.3 (Personal Information Access)	6.8.1.5 (Personal Information Access)
traveler_location_for_planning	6.8.1.3 (Personal Information Access)	6.8.3.3 (Personal Information Access)
traveler_map_update_payment_request	6.8.1.4 (Personal Information Access)	7.4.1.4 (Information Service Provider)
traveler_map_update_payment_response	7.4.1.4 (Information Service Provider)	6.8.1.4 (Personal Information Access)
traveler_map_update_payments_transactions	7.4.1.4 (Information Service Provider)	7.4.1.7 (Information Service Provider)
traveler_map_update_request	6.8.1.2 (Personal Information Access)	6.8.1.4 (Personal Information Access)
traveler_map_update_response	6.8.1.4 (Personal Information Access)	6.8.1.2 (Personal Information Access)
traveler_other_services_payment_request	6.5.2 (Information Service Provider)	7.4.1.6 (Information Service Provider)
traveler_other_services_payment_result	7.4.1.6 (Information Service Provider)	6.5.2 (Information Service Provider)
traveler_payment_confirmation	6.1.2 (Information Service Provider)	6.3.2 (Remote Traveler Support)
traveler_payment_information	6.3.1 (Remote Traveler Support)	6.1.2 (Information Service Provider)
traveler_payment_information	6.3.1 (Remote Traveler Support)	6.5.2 (Information Service Provider)
traveler_payment_request	6.1.2 (Information Service Provider)	7.4.1.6 (Information Service Provider)
traveler_payment_response	7.4.1.6 (Information Service Provider)	6.1.2 (Information Service Provider)
traveler_personal_credit_identity	7.5.3 (Personal Information Access)	6.8.1.2 (Personal Information Access)
traveler_personal_credit_identity	7.5.3 (Personal Information Access)	6.8.3.3 (Personal Information Access)
traveler_personal_current_condition_request	6.8.3.1 (Personal Information Access)	6.1.1 (Information Service Provider)
traveler_personal_display_map_update_request	6.8.3.3 (Personal Information Access)	6.8.3.4 (Personal Information Access)
traveler_personal_display_map_update_response	6.8.3.4 (Personal Information Access)	6.8.3.3 (Personal Information Access)
traveler_personal_display_update_cost	6.8.3.3 (Personal Information Access)	7.5.3 (Personal Information Access)
traveler_personal_display_update_payment_request	6.8.3.4 (Personal Information Access)	7.4.1.4 (Information Service Provider)
traveler_personal_display_update_payment_response	7.4.1.4 (Information Service Provider)	6.8.3.4 (Personal Information Access)
traveler_personal_emergency_request	6.8.2.1 (Personal Information Access)	6.8.2.2 (Personal Information Access)
traveler_personal_map_update_cost	6.8.1.2 (Personal Information Access)	7.5.3 (Personal Information Access)
traveler_personal_payment_confirmation	6.1.2 (Information Service Provider)	6.8.3.2 (Personal Information Access)
traveler_personal_payment_information	6.8.3.1 (Personal Information Access)	6.1.2 (Information Service Provider)
traveler_personal_payment_information	6.8.3.1 (Personal Information Access)	6.5.2 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
traveler_personal_traffic_condition_request	6.8.3.1 (Personal Information Access)	6.8.3.2 (Personal Information Access)
traveler_personal_transaction_confirmation	6.1.2 (Information Service Provider)	6.8.3.2 (Personal Information Access)
traveler_personal_transaction_request	6.8.3.1 (Personal Information Access)	6.5.2 (Information Service Provider)
traveler_personal_transit_condition_request	6.8.3.1 (Personal Information Access)	6.8.3.2 (Personal Information Access)
traveler_personal_trip_confirmation	6.8.3.1 (Personal Information Access)	6.1.2 (Information Service Provider)
traveler_personal_trip_costs	6.8.3.3 (Personal Information Access)	7.5.3 (Personal Information Access)
traveler_personal_trip_information	6.1.1 (Information Service Provider)	6.8.3.2 (Personal Information Access)
traveler_personal_trip_planning_requests	6.8.3.3 (Personal Information Access)	6.8.3.1 (Personal Information Access)
traveler_personal_trip_planning_responses	6.8.3.2 (Personal Information Access)	6.8.3.3 (Personal Information Access)
traveler_personal_trip_request	6.8.3.1 (Personal Information Access)	6.1.1 (Information Service Provider)
traveler_personal_yellow_pages_data	6.5.2 (Information Service Provider)	6.8.3.2 (Personal Information Access)
traveler_personal_yellow_pages_information_request	6.8.3.1 (Personal Information Access)	6.5.2 (Information Service Provider)
traveler_profile_from_vehicle	6.2.2 (Vehicle)	6.2.1.2 (Information Service Provider)
traveler_rideshare_confirmation	6.1.2 (Information Service Provider)	6.4.4 (Information Service Provider)
traveler_rideshare_payments_transactions	7.4.1.8 (Information Service Provider)	7.4.1.7 (Information Service Provider)
traveler_rideshare_request	6.1.1 (Information Service Provider)	6.4.1 (Information Service Provider)
traveler_rideshare_request	6.1.1 (Information Service Provider)	6.4.3 (Information Service Provider)
traveler_rideshare_request_for_archive	6.4.1 (Information Service Provider)	6.1.6 (Information Service Provider)
traveler_roadside_credit_identity	7.5.5 (Remote Traveler Support)	6.3.3 (Remote Traveler Support)
traveler_roadside_trip_costs	6.3.3 (Remote Traveler Support)	7.5.5 (Remote Traveler Support)
traveler_route_accepted	6.8.1.1.1 (Personal Information Access)	6.6.1 (Information Service Provider)
traveler_route_accepted_for_archive	6.6.1 (Information Service Provider)	6.1.5 (Information Service Provider)
traveler_route_request	6.8.1.1.2 (Personal Information Access)	6.6.1 (Information Service Provider)
traveler_route_request_for_archive	6.6.1 (Information Service Provider)	6.1.5 (Information Service Provider)
traveler_traffic_condition_request	6.3.1 (Remote Traveler Support)	6.3.2 (Remote Traveler Support)
traveler_traffic_profile	6.8.3.1 (Personal Information Access)	1.1.4.6 (Information Service Provider)
traveler_transaction_confirmation	6.1.2 (Information Service Provider)	6.3.2 (Remote Traveler Support)
traveler_transaction_request	6.3.1 (Remote Traveler Support)	6.5.2 (Information Service Provider)
traveler_transit_condition_request	6.3.1 (Remote Traveler Support)	6.3.2 (Remote Traveler Support)
traveler_transit_profile	6.8.3.1 (Personal Information Access)	4.1.8 (Information Service Provider)
traveler_trip_and_cond_requests_for_archive	6.1.1 (Information Service Provider)	6.1.5 (Information Service Provider)
traveler_trip_confirmation	6.3.1 (Remote Traveler Support)	6.1.2 (Information Service Provider)
traveler_trip_information	6.1.1 (Information Service Provider)	6.3.2 (Remote Traveler Support)
traveler_trip_payments_transactions	7.4.1.6 (Information Service Provider)	7.4.1.7 (Information Service Provider)
traveler_trip_planning_requests	6.3.3 (Remote Traveler Support)	6.3.1 (Remote Traveler Support)
traveler_trip_planning_responses	6.3.2 (Remote Traveler Support)	6.3.3 (Remote Traveler Support)
traveler_trip_request	6.3.1 (Remote Traveler Support)	6.1.1 (Information Service Provider)

Table E.1 (Continued)

Data Flow Name	Source	Destination
traveler_yellow_pages_data	6.5.2 (Information Service Provider)	6.3.2 (Remote Traveler Support)
traveler_yellow_pages_information_request	6.3.1 (Remote Traveler Support)	6.5.2 (Information Service Provider)
traveler_yellow_pages_requests_for_archive	6.5.2 (Information Service Provider)	6.1.5 (Information Service Provider)
trip_request	6.1.1 (Information Service Provider)	6.6.1 (Information Service Provider)
trip_request_for_archive	6.6.1 (Information Service Provider)	6.1.6 (Information Service Provider)
tro_equipment_status	1.6.2.1 (Traffic Management)	Rail Operations
tro_event_schedules	1.6.2.1 (Traffic Management)	Rail Operations
tro_incident_notification	1.6.2.1 (Traffic Management)	Rail Operations
tt_emergency_message	6.8.1.5 (Personal Information Access)	Traveler
tt_emergency_response	4.4.1.8 (Remote Traveler Support)	Traveler
tt_extra_trip_data_request	6.3.3 (Remote Traveler Support)	Traveler
tt_guidance	6.8.1.2 (Personal Information Access)	Traveler
tt_guidance_input_request	6.8.1.2 (Personal Information Access)	Traveler
tt_guidance_map_update_response	6.8.1.2 (Personal Information Access)	Traveler
tt_guidance_route_details	6.8.1.2 (Personal Information Access)	Traveler
tt_personal_extra_trip_data_request	6.8.3.3 (Personal Information Access)	Traveler
tt_personal_trip_planning_responses	6.8.3.3 (Personal Information Access)	Traveler
tt_trip_planning_responses	6.3.3 (Remote Traveler Support)	Traveler
tta_archive_status	7.1.1.11 (Toll Administration)	Toll Administrator
tta_request_advanced_toll	7.1.1.8 (Toll Administration)	Toll Administrator
tta_toll_price_changes_request	7.1.1.7 (Toll Administration)	Toll Administrator
tta_transaction_reports	7.1.1.9 (Toll Administration)	Toll Administrator
ttd_batch_mode_data_transfer_status	4.6.4 (Transit Vehicle Subsystem)	Transit Driver
ttd_corrective_instructions	4.1.2.3 (Transit Vehicle Subsystem)	Transit Driver
ttd_emergency_information	4.4.1.5 (Transit Vehicle Subsystem)	Transit Driver
ttd_paratransit_information	4.2.1.6 (Transit Vehicle Subsystem)	Transit Driver
ttd_request_fare_transaction_mode_set_up	4.6.4 (Transit Vehicle Subsystem)	Transit Driver
ttd_route_assignements	4.5.5 (Transit Management)	Transit Driver
ttd_transit_vehicle_schedule_deviations	4.1.2.3 (Transit Vehicle Subsystem)	Transit Driver
ttfm_coordination_request	4.4.2 (Transit Management)	Transit Fleet Manager
ttfm_parameters	4.2.3.4 (Transit Management)	Transit Fleet Manager
ttfm_paratransit_service	4.2.1.4 (Transit Management)	Transit Fleet Manager
ttfm_passenger_loading_error	4.2.3.5 (Transit Management)	Transit Fleet Manager
ttfm_proposed_corrections	4.1.4 (Transit Management)	Transit Fleet Manager
ttfm_response_parameter_output	4.4.3 (Transit Management)	Transit Fleet Manager
ttfm_technician_information	4.3.3 (Transit Management)	Transit Fleet Manager
ttfm_transaction_reports	7.3.1.3 (Transit Management)	Transit Fleet Manager
ttfm_transit_driver_information	4.5.7 (Transit Management)	Transit Fleet Manager

Table E.1 (Continued)

Data Flow Name	Source	Destination
ttfm_transit_services_output	4.2.3.4 (Transit Management)	Transit Fleet Manager
ttfm_transit_vehicle_data	4.1.5 (Transit Management)	Transit Fleet Manager
ttfm_transit_vehicle_maintenance_information	4.3.5 (Transit Management)	Transit Fleet Manager
ttmp_work_schedule	4.3.3 (Transit Management)	Transit Maintenance Personnel
tto_transaction_reports	7.1.1.4 (Toll Collection)	Toll Operator
ttop_archive_status	1.1.4.7 (Traffic Management)	Traffic Operations Personnel
ttop_current_indicator_faults	1.2.8.4 (Traffic Management)	Traffic Operations Personnel
ttop_current_sensor_faults	1.1.1.2 (Traffic Management)	Traffic Operations Personnel
ttop_defined_incident_responses_data	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_demand_data	1.4.1 (Traffic Management)	Traffic Operations Personnel
ttop_demand_forecast_data	1.4.1 (Traffic Management)	Traffic Operations Personnel
ttop_demand_forecast_result	1.4.1 (Traffic Management)	Traffic Operations Personnel
ttop_demand_policy_activation_result	1.4.1 (Traffic Management)	Traffic Operations Personnel
ttop_demand_policy_information	1.4.1 (Traffic Management)	Traffic Operations Personnel
ttop_incident_information_display	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_incident_video_image_output	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_pollution_data_display	1.5.1 (Emissions Management)	Traffic Operations Personnel
ttop_possible_defined_response_output	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_possible_incidents_data	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_resource_response	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_traffic_control_information_display	1.1.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_undefined_response_details	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_video_image_output	1.1.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_weather_information	1.1.4.2 (Traffic Management)	Traffic Operations Personnel
ttop_wrong_way_detection	1.3.4.2 (Traffic Management)	Traffic Operations Personnel
ttso_archive_status	4.2.4 (Transit Management)	Transit System Operators
ttso_emergency_request	4.4.1.3 (Transit Management)	Transit System Operators
ttso_media_parameters	4.4.1.3 (Transit Management)	Transit System Operators
ttso_potential_incidents_alarm	4.4.1.3 (Transit Management)	Transit System Operators
ttso_potential_security_problem	4.4.1.3 (Transit Management)	Transit System Operators
ttso_transaction_reports	7.3.1.3 (Transit Management)	Transit System Operators
ttso_transit_fare_output	7.3.1.7 (Transit Management)	Transit System Operators
ttso_video_image_data	4.4.1.3 (Transit Management)	Transit System Operators
ttu_advisory_information	6.2.3 (Transit Vehicle Subsystem)	Transit User
ttu_other_services_roadside_confirmed	4.7.2.5 (Remote Traveler Support)	Transit User
ttu_other_services_vehicle_confirmed	6.2.1.6 (Transit Vehicle Subsystem)	Transit User
ttu_roadside_access_message	4.7.2.4 (Remote Traveler Support)	Transit User
ttu_roadside_payment_confirmed	4.7.2.5 (Remote Traveler Support)	Transit User

Table E.1 (Continued)

Data Flow Name	Source	Destination
ttu_transit_information	4.7.1.1 (Remote Traveler Support)	Transit User
ttu_transit_vehicle_information	4.7.1.2 (Remote Traveler Support)	Transit User
ttu_traveler_information	6.2.3 (Transit Vehicle Subsystem)	Transit User
ttu_vehicle_access_message	4.6.4 (Transit Vehicle Subsystem)	Transit User
ttu_vehicle_payment_confirmed	4.6.5 (Transit Vehicle Subsystem)	Transit User
twe_hri_status	1.6.3.1 (Roadway Subsystem)	Wayside Equipment
twe_stop_highway_indication	1.6.3.1 (Roadway Subsystem)	Wayside Equipment
twe_stop_train_indication	1.6.3.1 (Roadway Subsystem)	Wayside Equipment
tws_weather_archive_request	8.1 (Archived Data Management Subsystem)	Weather Service
tws_weather_archive_status	8.1 (Archived Data Management Subsystem)	Weather Service
typsp_provider_update_confirm	6.5.3 (Information Service Provider)	Yellow Pages Service Providers
typsp_transaction_request	6.5.2 (Information Service Provider)	Yellow Pages Service Providers
typsp_yellow_pages_info_request	6.5.1 (Information Service Provider)	Yellow Pages Service Providers
undefined_incident_response	1.3.3 (Traffic Management)	1.3.4.2 (Traffic Management)
unusual_congestion	1.1.3 (Traffic Management)	1.4.2 (Traffic Management)
unusual_data	1.1.2.2 (Traffic Management)	1.3.1.1 (Traffic Management)
update_routes	4.2.3.4 (Transit Management)	4.2.3.1 (Transit Management)
update_schedules	4.2.3.4 (Transit Management)	4.2.3.2 (Transit Management)
vehicle_action_requests	3.1.1 (Vehicle)	3.2.3.3 (Vehicle)
vehicle_and_driver_safety_status	3.1.2 (Vehicle)	3.2.3.2 (Vehicle)
vehicle_control_data	3.2.3.4.5 (Vehicle)	3.2.3.2 (Vehicle)
vehicle_control_request	6.2.5 (Vehicle)	3.2.1 (Vehicle)
vehicle_control_status	3.2.1 (Vehicle)	6.2.2 (Vehicle)
vehicle_emergency_request	3.3.3 (Vehicle)	3.3.2 (Vehicle)
vehicle_guidance_probe_data	6.7.2.1.2 (Vehicle)	6.6.2.6 (Information Service Provider)
vehicle_guidance_probe_data_for_archive	6.6.2.6 (Information Service Provider)	6.1.6 (Information Service Provider)
vehicle_guidance_route	6.6.2.1 (Information Service Provider)	6.7.2.1.2 (Vehicle)
vehicle_guidance_route_accepted	6.7.2.1.1 (Vehicle)	6.6.2.1 (Information Service Provider)
vehicle_guidance_route_accepted_for_archive	6.6.2.1 (Information Service Provider)	6.1.5 (Information Service Provider)
vehicle_headway_control_data	3.2.3.4.5 (Vehicle)	3.2.3.4.2 (Vehicle)
vehicle_location_for_advisories	6.7.2.2 (Vehicle)	6.2.2 (Vehicle)
vehicle_location_for_autonomous_guidance	6.7.2.2 (Vehicle)	6.7.2.1.3 (Vehicle)
vehicle_location_for_cv	6.7.2.2 (Vehicle)	2.4.5 (Commercial Vehicle Subsystem)
vehicle_location_for_dynamic_guidance	6.7.2.2 (Vehicle)	6.7.2.1.2 (Vehicle)
vehicle_location_for_emergencies	6.7.2.2 (Vehicle)	6.7.1.1 (Vehicle)
vehicle_location_for_emergency_services	6.7.2.2 (Vehicle)	5.3.3 (Emergency Vehicle Subsystem)
vehicle_location_for_incidents	6.7.2.2 (Vehicle)	3.3.3 (Vehicle)
vehicle_location_for_transit	6.7.2.2 (Vehicle)	4.1.3 (Transit Vehicle Subsystem)

Table E.1 (Continued)

Data Flow Name	Source	Destination
vehicle_parking_lot_characteristic_data	7.2.5 (Parking Management)	7.2.1.1 (Parking Management)
vehicle_pollution_alert	1.5.5 (Roadway Subsystem)	5.4.1 (Traffic Management)
vehicle_pollution_message_for_highways	1.5.5 (Roadway Subsystem)	1.2.4.2 (Traffic Management)
vehicle_pollution_message_for_roads	1.5.5 (Roadway Subsystem)	1.2.4.1 (Traffic Management)
vehicle_probe_data_amalgamation	6.6.2.6 (Information Service Provider)	6.6.2.2 (Information Service Provider)
vehicle_route	6.6.2.1 (Information Service Provider)	6.6.1 (Information Service Provider)
vehicle_route_request	6.7.2.1.2 (Vehicle)	6.6.2.1 (Information Service Provider)
vehicle_route_request_for_archive	6.6.2.1 (Information Service Provider)	6.1.5 (Information Service Provider)
vehicle_sign_data	1.2.4.3 (Traffic Management)	1.2.7.4 (Roadway Subsystem)
vehicle_sign_data_for_highways	1.2.4.2 (Traffic Management)	1.2.4.3 (Traffic Management)
vehicle_sign_data_for_roads	1.2.4.1 (Traffic Management)	1.2.4.3 (Traffic Management)
vehicle_sign_data_output_fault	1.2.7.4 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
vehicle_signage_data	1.2.7.4 (Roadway Subsystem)	6.2.2 (Vehicle)
vehicle_smart_probe_data	3.1.3 (Vehicle)	1.1.7 (Roadway Subsystem)
vehicle_smart_probe_data_for_storage	1.1.2.6 (Roadway Subsystem)	1.1.2.1 (Traffic Management)
vehicle_smart_probe_data_indication	1.1.2.6 (Roadway Subsystem)	1.2.7.7 (Roadway Subsystem)
vehicle_smart_probe_data_output	1.2.7.7 (Roadway Subsystem)	6.2.2 (Vehicle)
vehicle_smart_probe_data_output_fault	1.2.7.7 (Roadway Subsystem)	1.2.7.2 (Roadway Subsystem)
vehicle_smart_probe_input_data	1.1.7 (Roadway Subsystem)	1.1.2.6 (Roadway Subsystem)
vehicle_speed_control_data	3.2.3.4.5 (Vehicle)	3.2.3.4.1 (Vehicle)
vehicle_status_details_for_broadcast	3.1.3 (Vehicle)	6.2.2 (Vehicle)
vehicle_status_details_for_driver_security	3.1.3 (Vehicle)	6.7.1.1 (Vehicle)
vehicle_status_details_for_emergencies	3.1.3 (Vehicle)	3.3.3 (Vehicle)
vehicle_status_details_for_emissions	3.1.3 (Vehicle)	1.5.5 (Roadway Subsystem)
vehicle_tag_data	1.1.6 (Roadway Subsystem)	1.1.2.5 (Traffic Management)
vehicle_tag_for_charges	7.2.1.1 (Parking Management)	7.2.1.2 (Parking Management)
vehicle_tag_for_tolls	7.1.1.1 (Toll Collection)	7.1.1.2 (Toll Collection)
vehicle_toll_characteristic_data	7.1.5 (Toll Collection)	7.1.1.1 (Toll Collection)
vehicle_toll_probe_data	7.1.1.6 (Toll Administration)	6.6.2.6 (Information Service Provider)
vehicle_type_for_charges	7.2.1.1 (Parking Management)	7.2.1.2 (Parking Management)
vehicle_type_for_tolls	7.1.1.1 (Toll Collection)	7.1.1.2 (Toll Collection)
verified_emergency	5.1.1 (Emergency Management)	5.1.2 (Emergency Management)
video_camera_control_strategy	1.2.1 (Traffic Management)	1.3.4.2 (Traffic Management)
vision_data	3.4 (Vehicle)	6.2.2 (Vehicle)
wayside_status	1.6.3.1 (Roadway Subsystem)	1.6.5.2 (Roadway Subsystem)
weather_service_information	1.4.2 (Traffic Management)	1.1.4.2 (Traffic Management)
weather_service_information_request	1.1.4.2 (Traffic Management)	1.4.2 (Traffic Management)
wide_area_pollution_data	1.5.2 (Emissions Management)	1.1.2.1 (Traffic Management)

Table E.1 (Continued)

Data Flow Name	Source	Destination
wrong_way_vehicle_detection	1.1.2.7 (Traffic Management)	1.3.4.2 (Traffic Management)
wrong_way_vehicle_detection	1.1.2.7 (Traffic Management)	5.1.4 (Emergency Management)
yellow_pages_advisory_data	6.2.6 (Information Service Provider)	6.2.2 (Vehicle)
yellow_pages_advisory_requests	6.2.2 (Vehicle)	6.2.6 (Information Service Provider)
yellow_pages_advisory_requests_for_archive	6.2.6 (Information Service Provider)	6.1.5 (Information Service Provider)
yellow_pages_data	6.5.2 (Information Service Provider)	6.2.4 (Information Service Provider)
yellow_pages_data_request	6.2.4 (Information Service Provider)	6.5.2 (Information Service Provider)
yellow_pages_new_data_request	6.5.3 (Information Service Provider)	6.5.1 (Information Service Provider)
yellow_pages_provder_payments_transactions	7.4.1.2 (Information Service Provider)	7.4.1.7 (Information Service Provider)
yellow_pages_reservation_confirmation	6.5.2 (Information Service Provider)	6.2.6 (Information Service Provider)
yellow_pages_reservation_request	6.2.6 (Information Service Provider)	6.5.2 (Information Service Provider)
yellow_pages_service_provider_registration_request	6.5.3 (Information Service Provider)	7.4.1.2 (Information Service Provider)
yellow_pages_service_provider_registration_response	7.4.1.2 (Information Service Provider)	6.5.3 (Information Service Provider)
yellow_pages_update_request	6.5.2 (Information Service Provider)	6.5.1 (Information Service Provider)
yellow_pages_update_response	6.5.1 (Information Service Provider)	6.5.2 (Information Service Provider)

Appendix F

FDOT ITS Plan Architectural Flow Diagrams

Figure F.1 – Manage ITS AFD

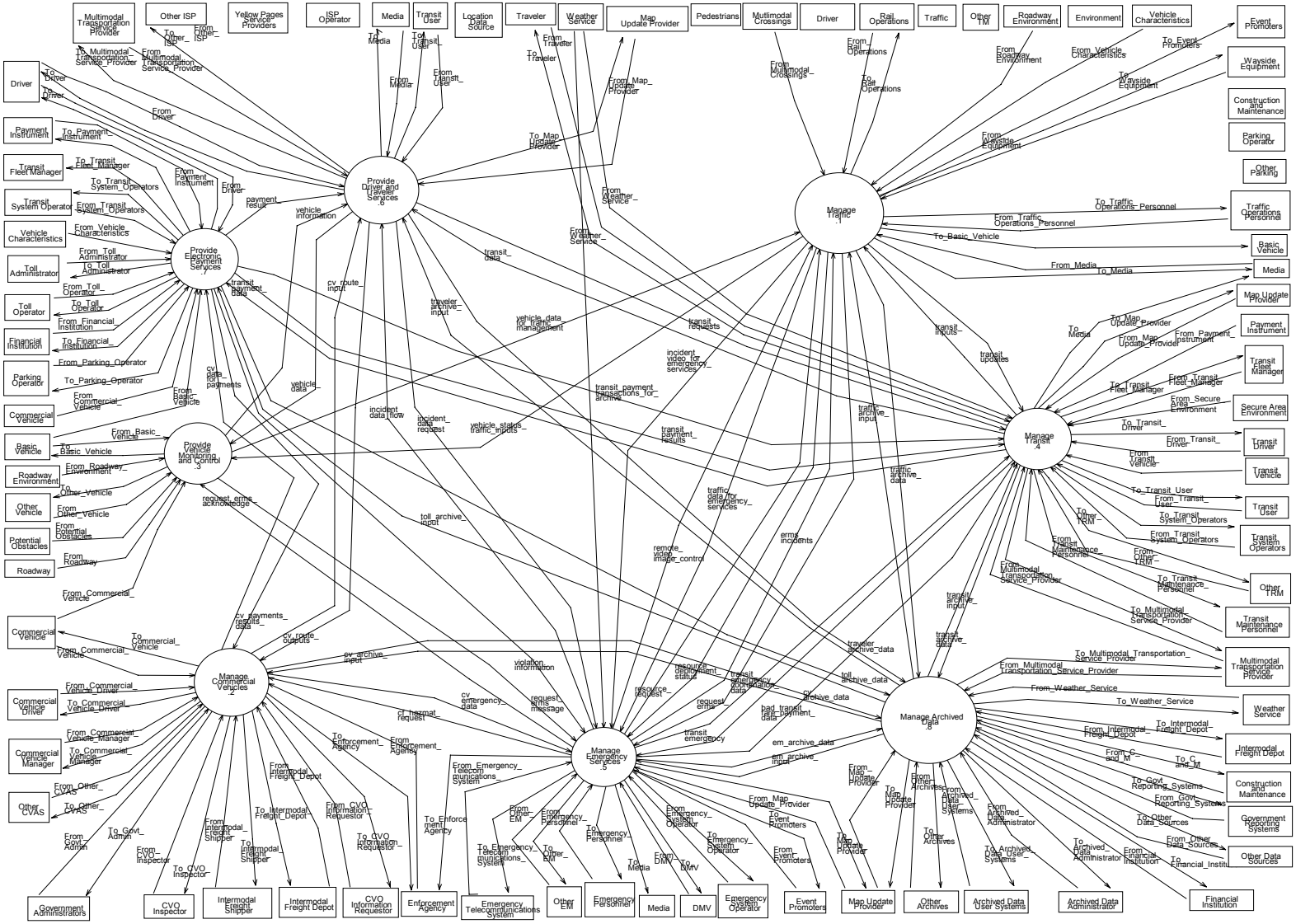

Figure F.2 – Manage Traffic AFD

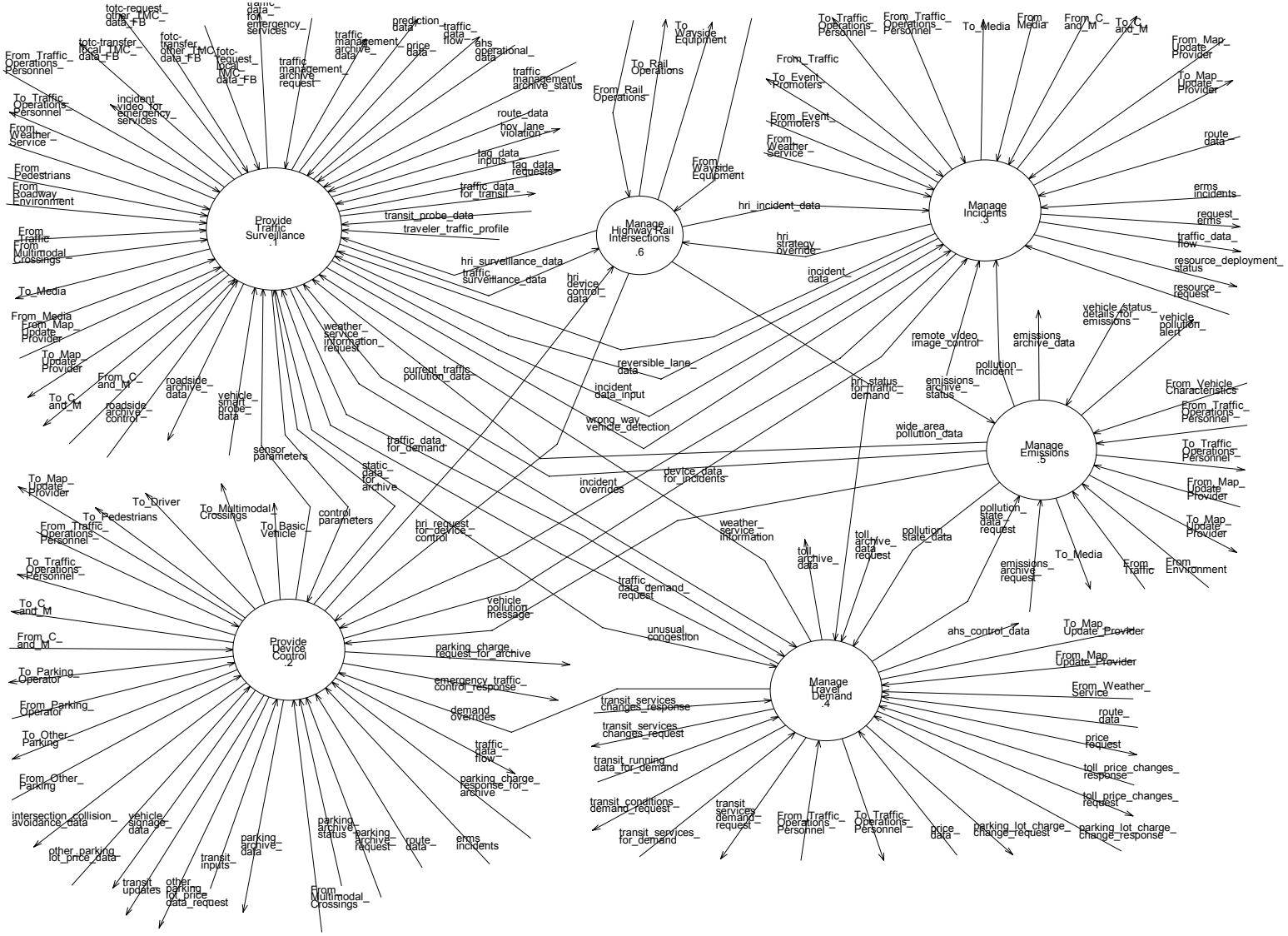

Figure F.3 – Provide Traffic Surveillance AFD

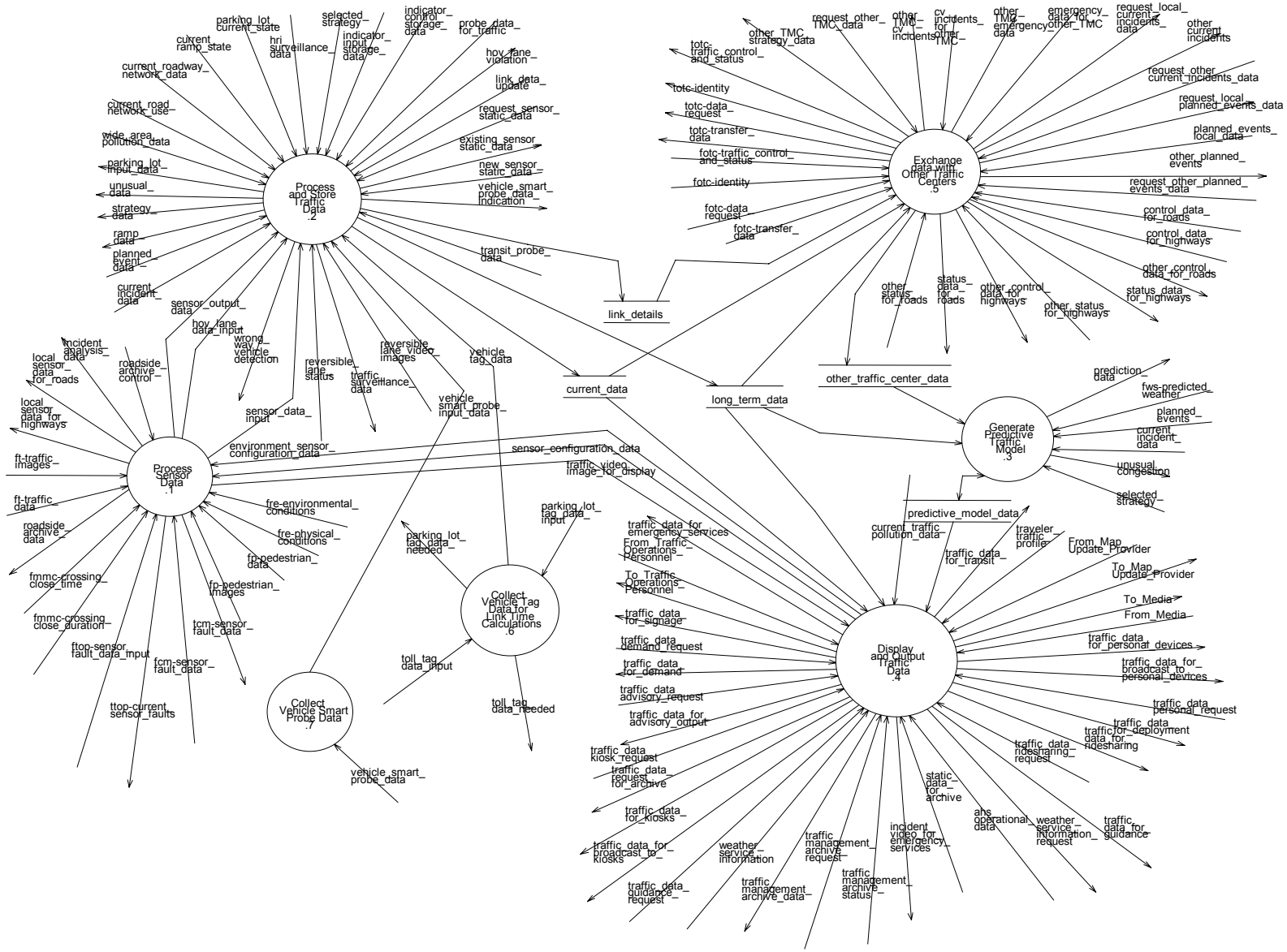

Figure F.4 – Process Sensor Data AFD

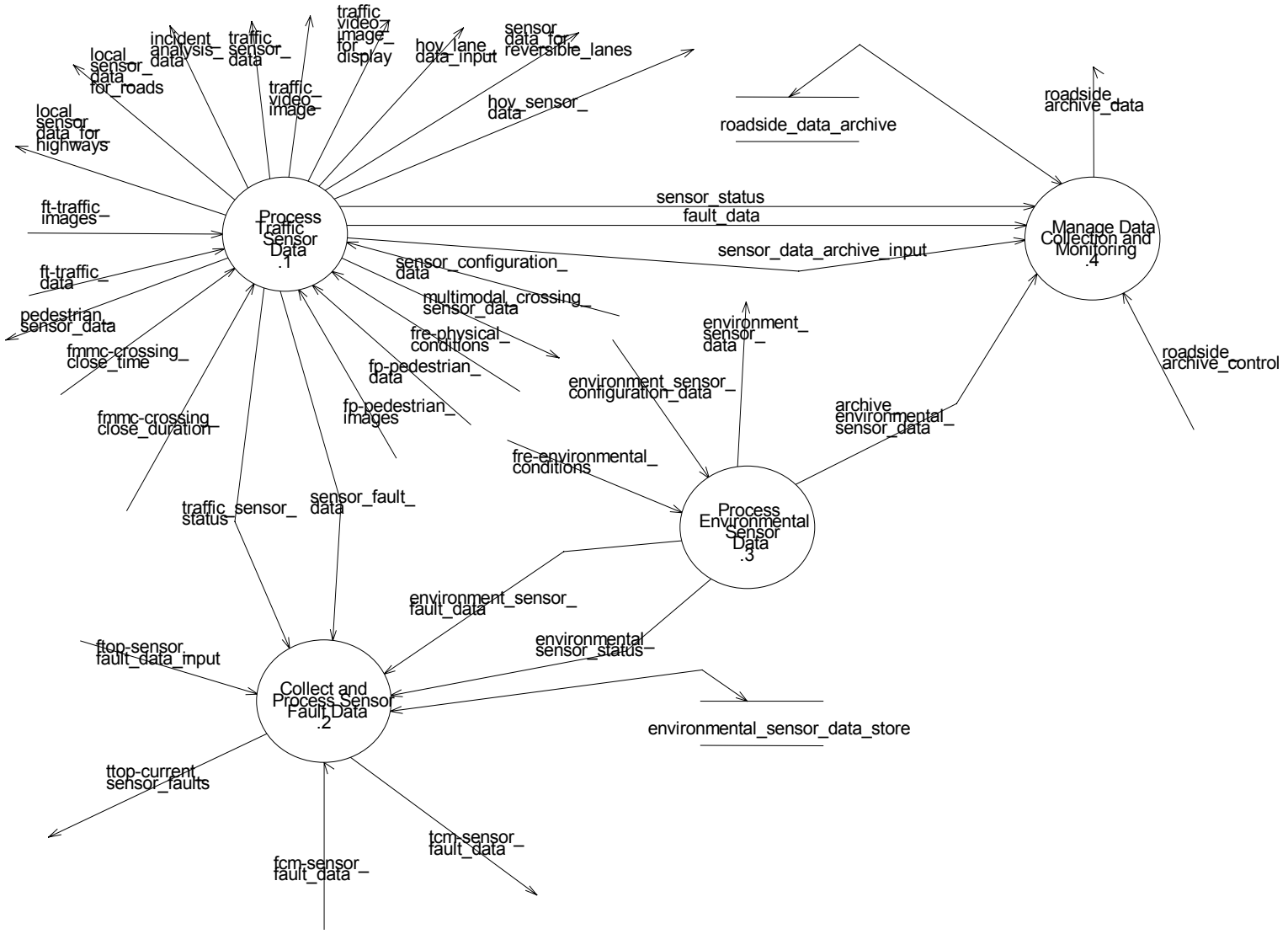

Figure F.5 – Process and Store Traffic Data AFD

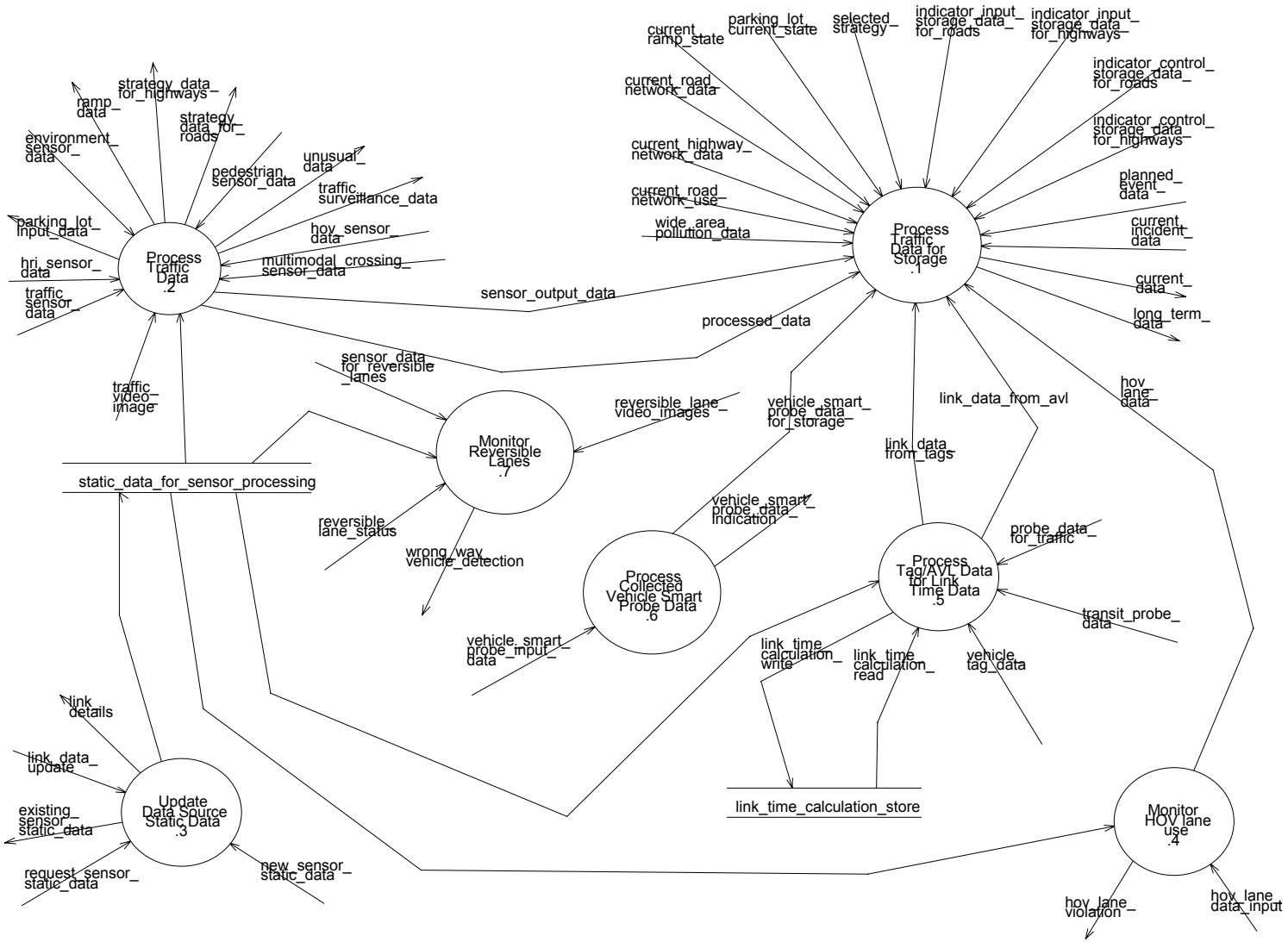

Figure F.6 – Display and Output Traffic Data AFD

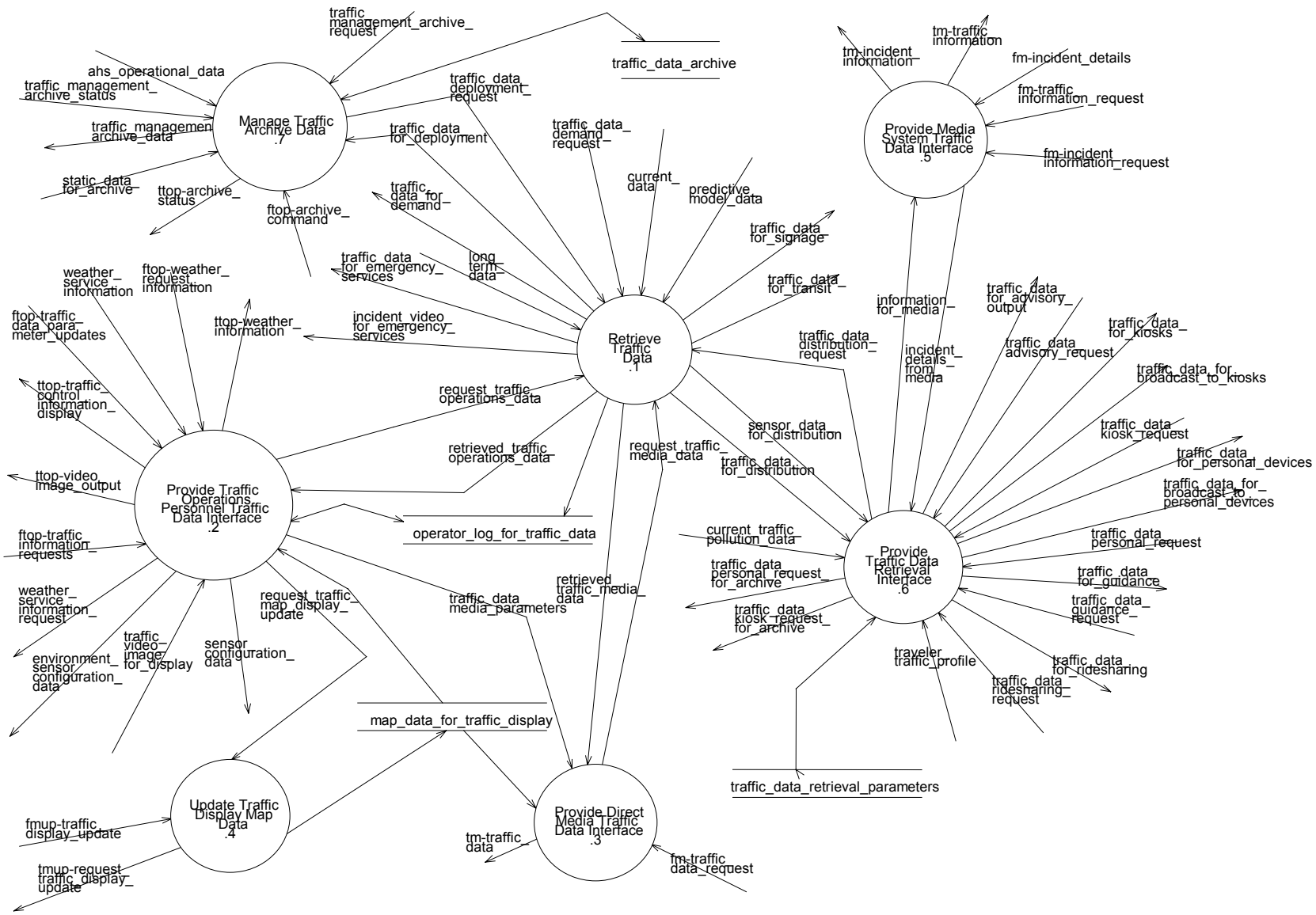

Figure F.7 – Provide Device Control AFD

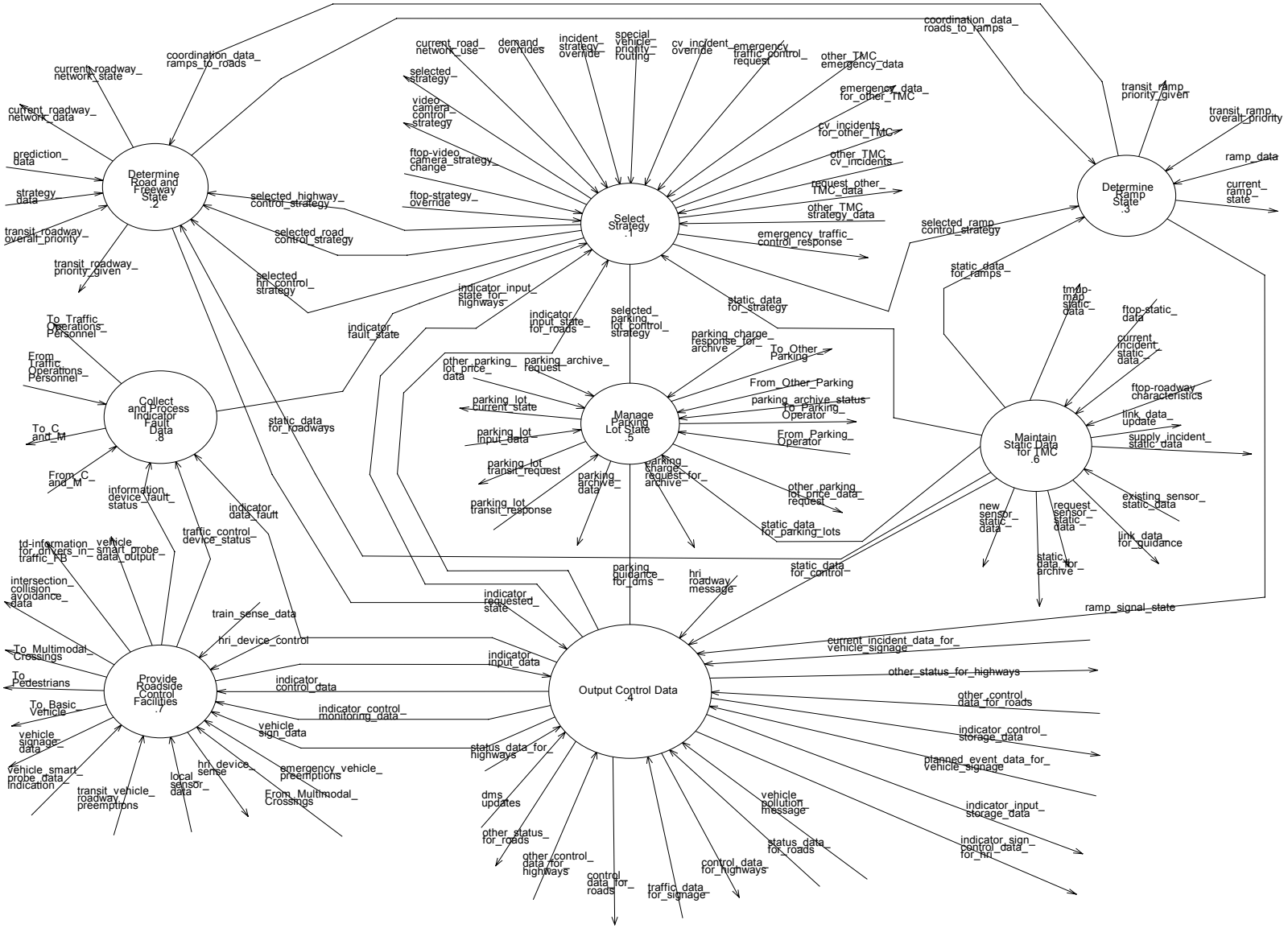

Figure F.8 – Determine Road and Freeway State AFD

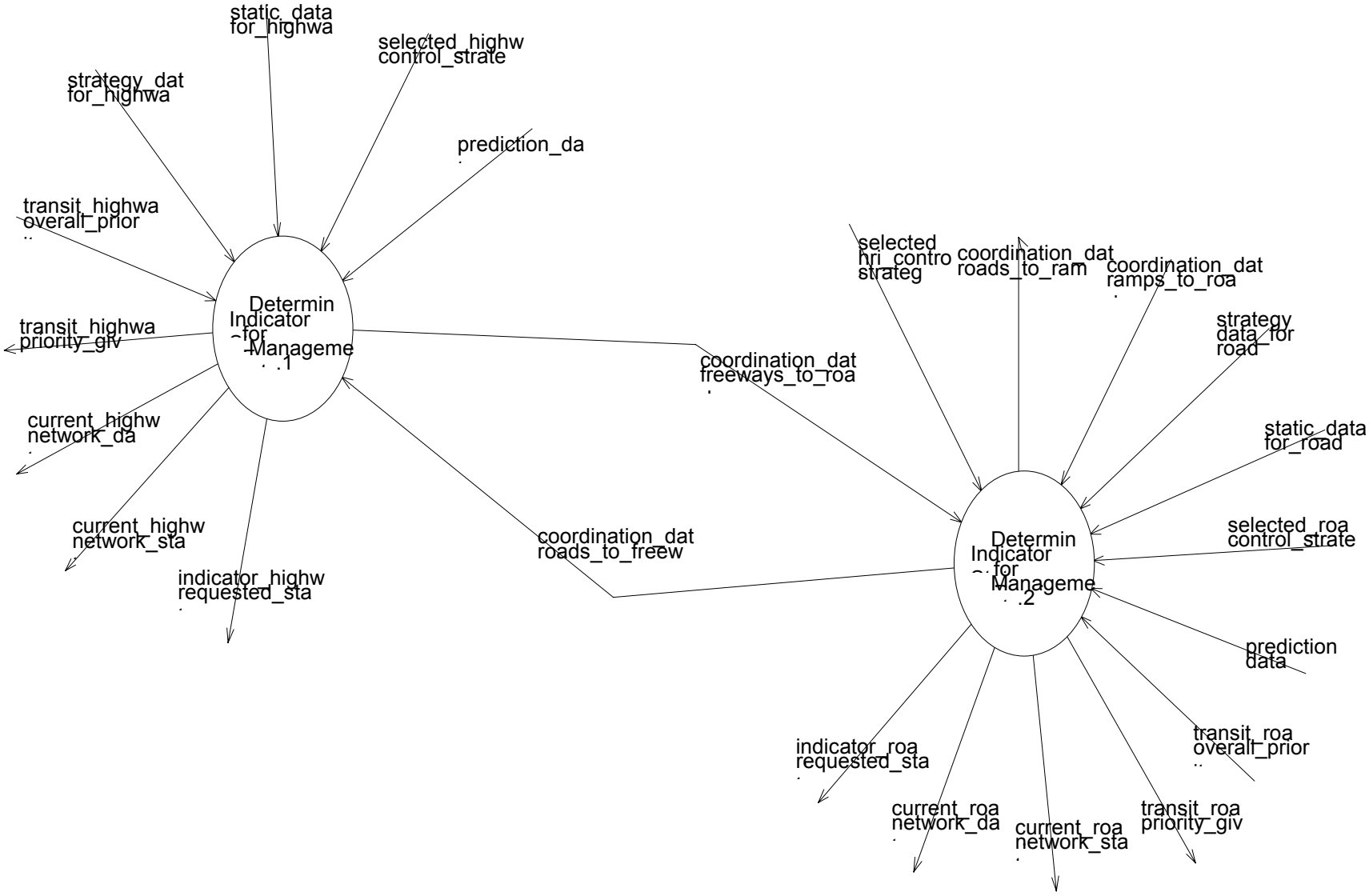

Figure F.9 – Output Control Data AFD

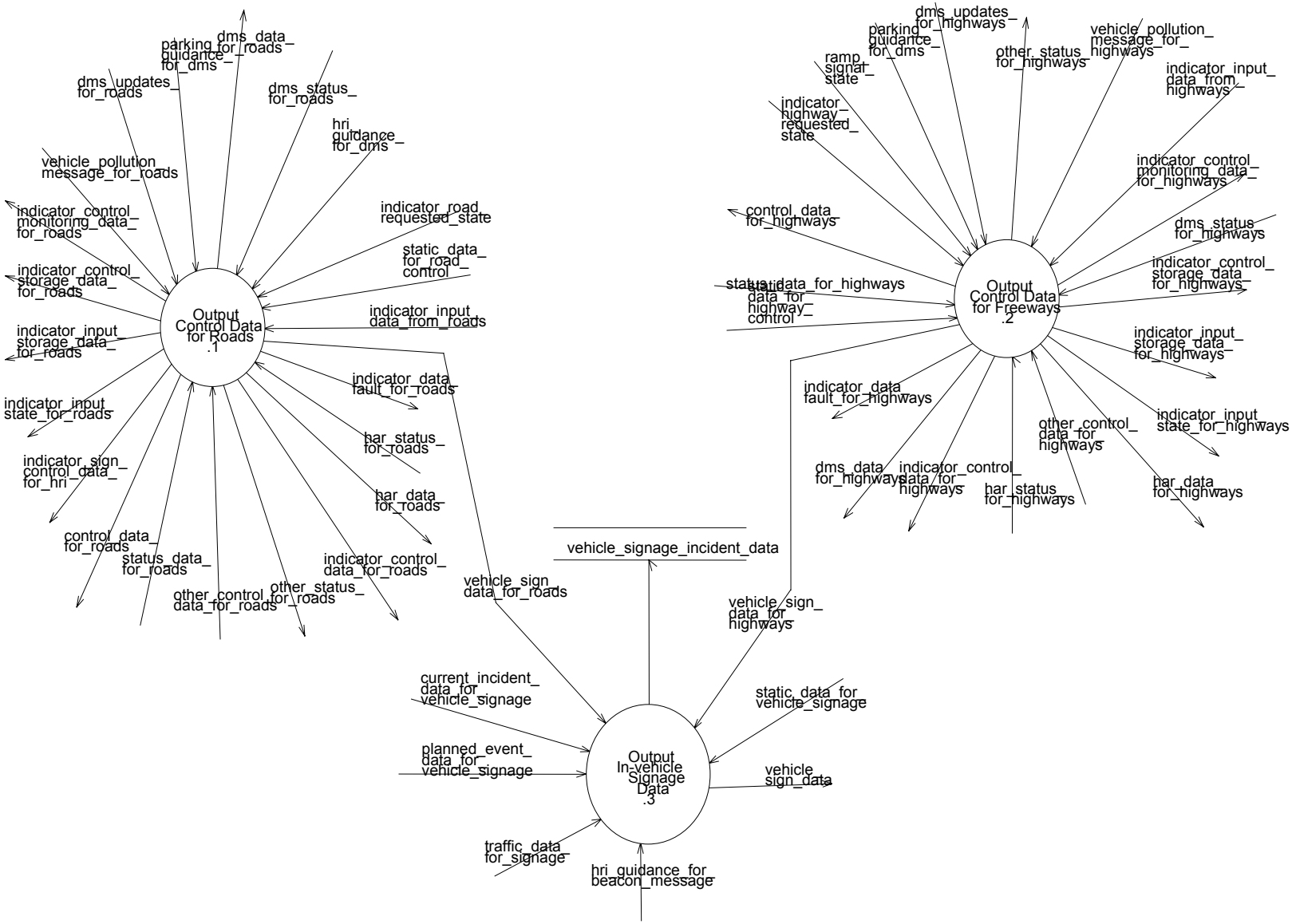

Figure F.10 – Maintain Static Data for TMC AFD

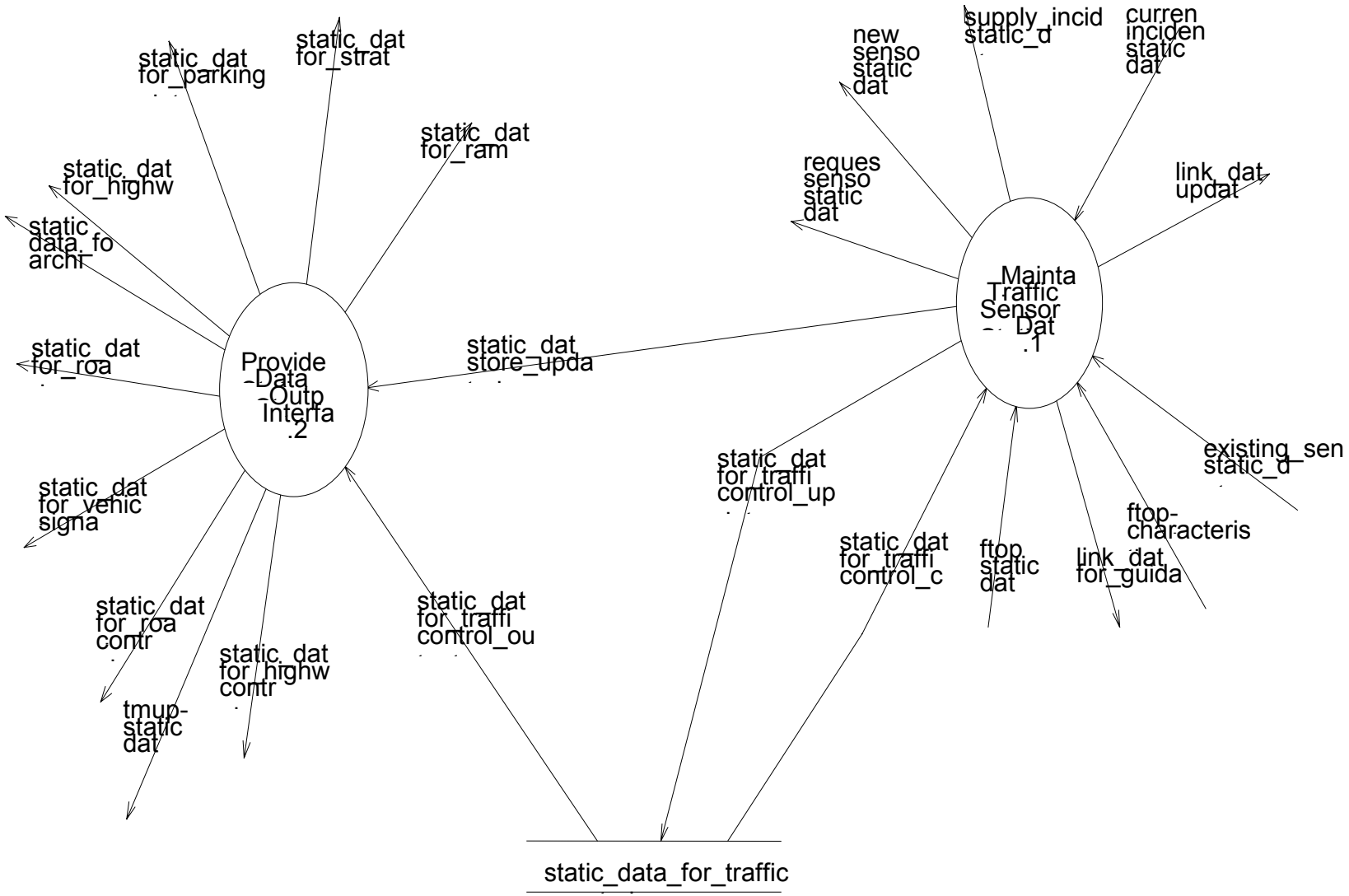

Figure F.11 – Provide Roadside Control Facilities AFD

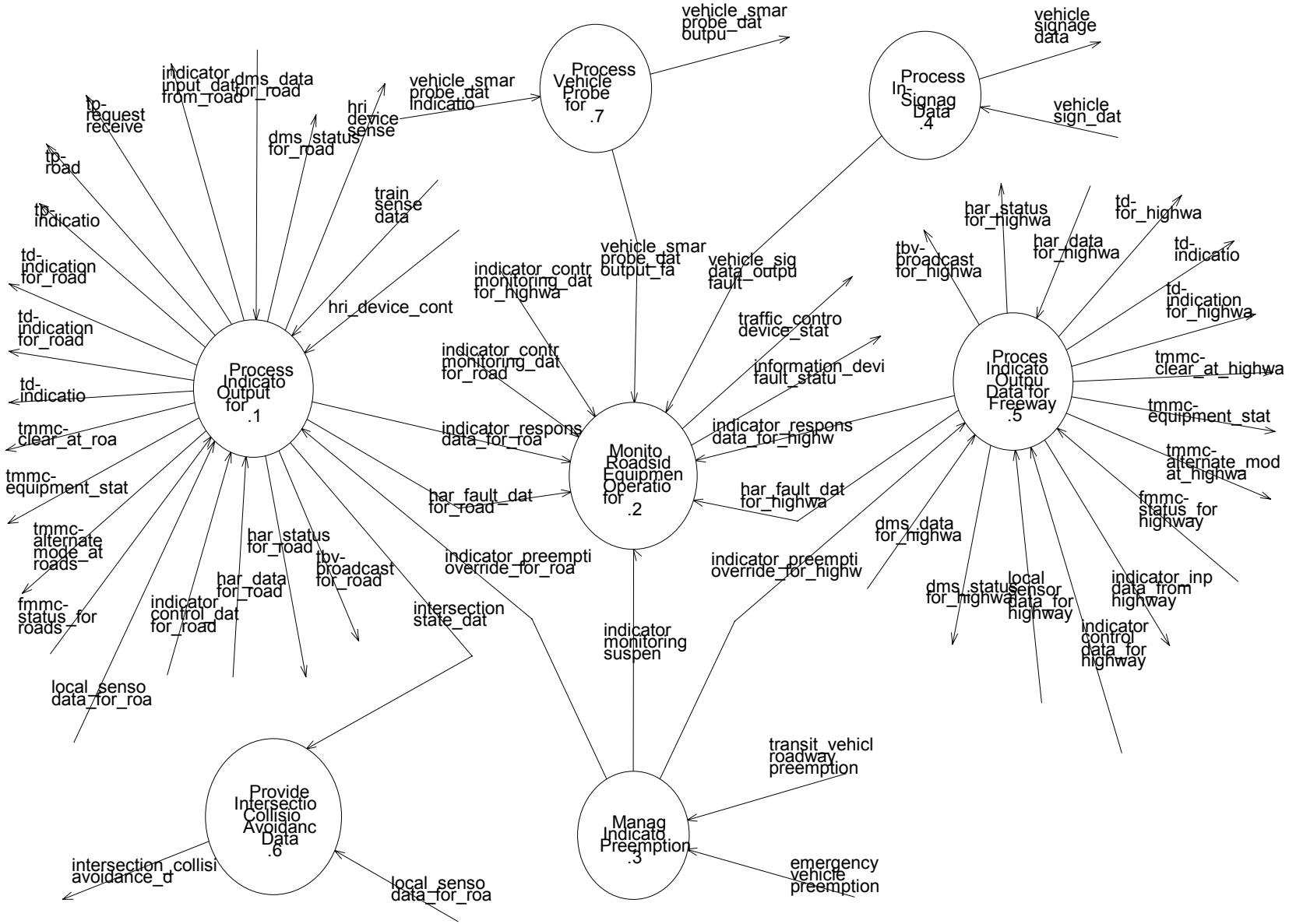

Figure F.12 – Collect and Process Indicator Fault Data AFD

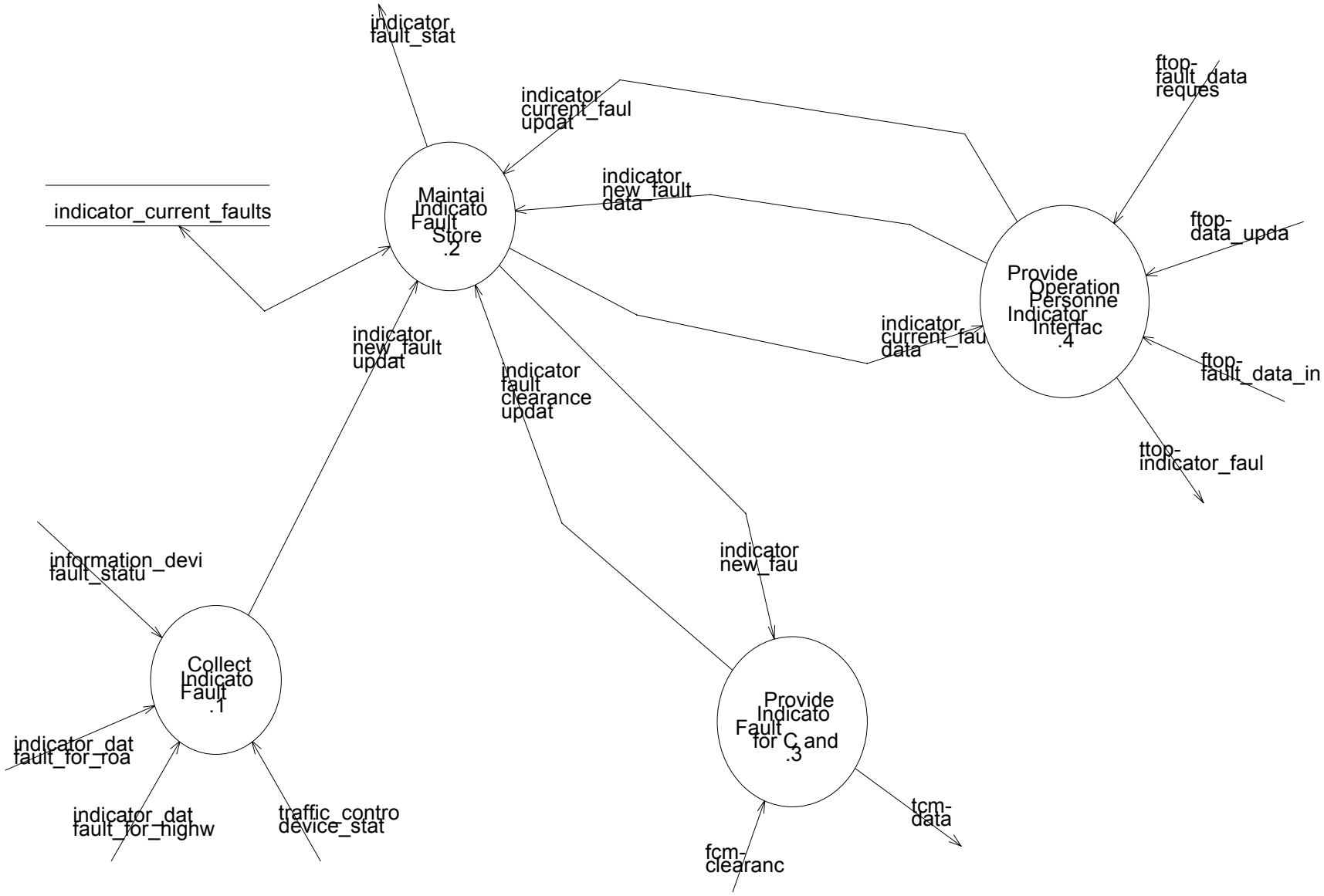

Figure F.13 – Manage Incidents AFD

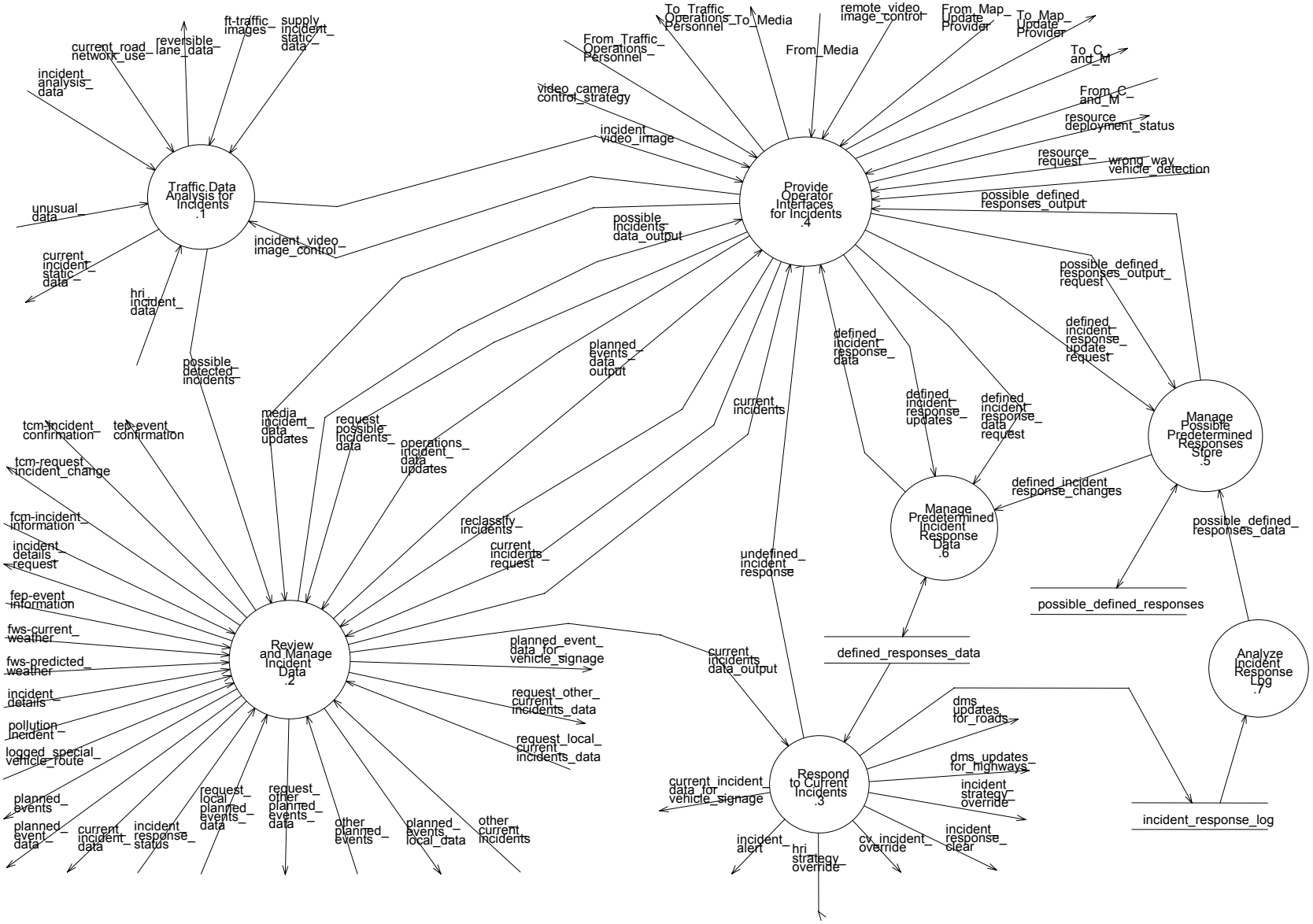

Figure F.14 – Traffic Data Analysis for Incidents AFD

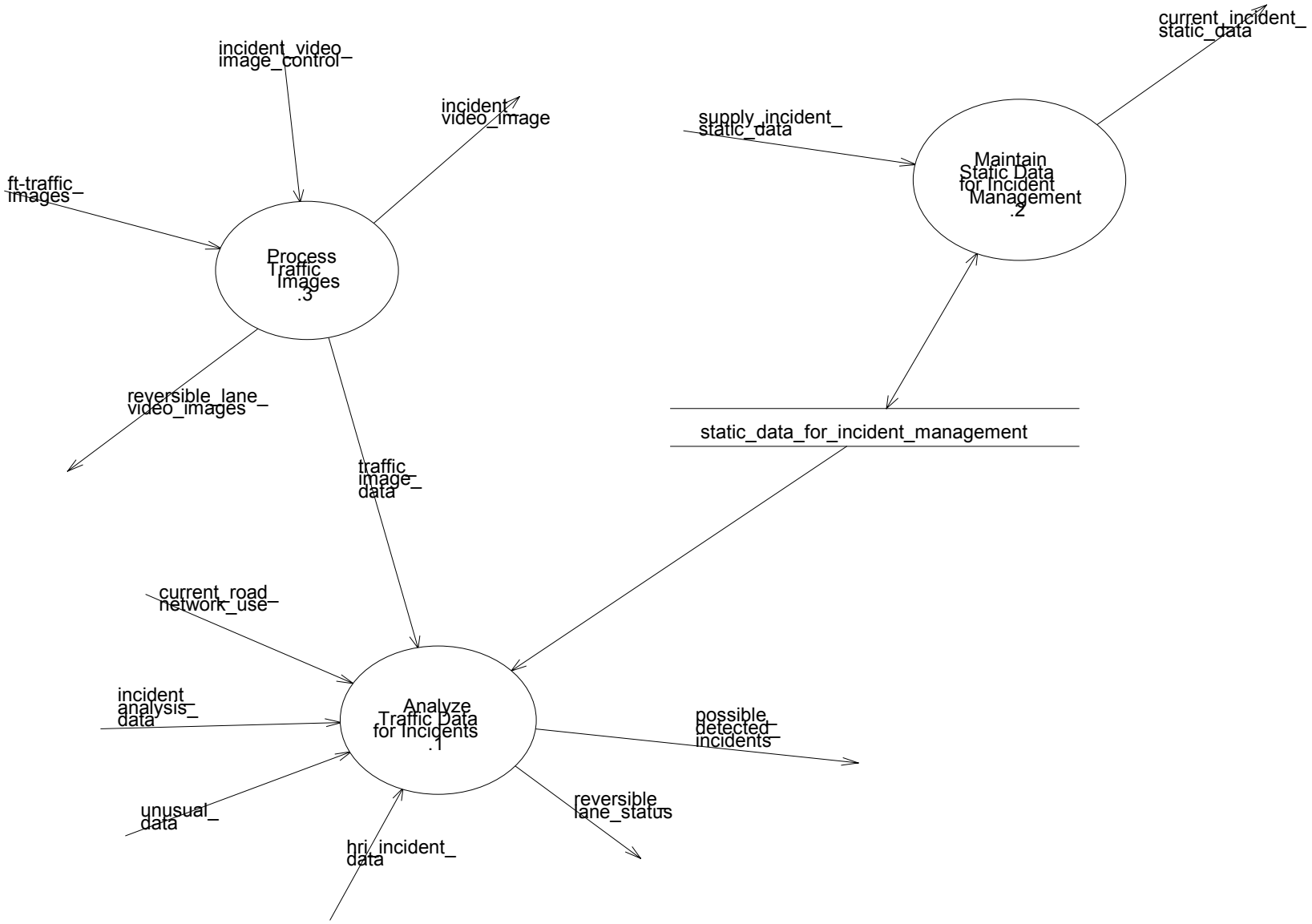

Figure F.15 – Review and Manage Incident Data AFD

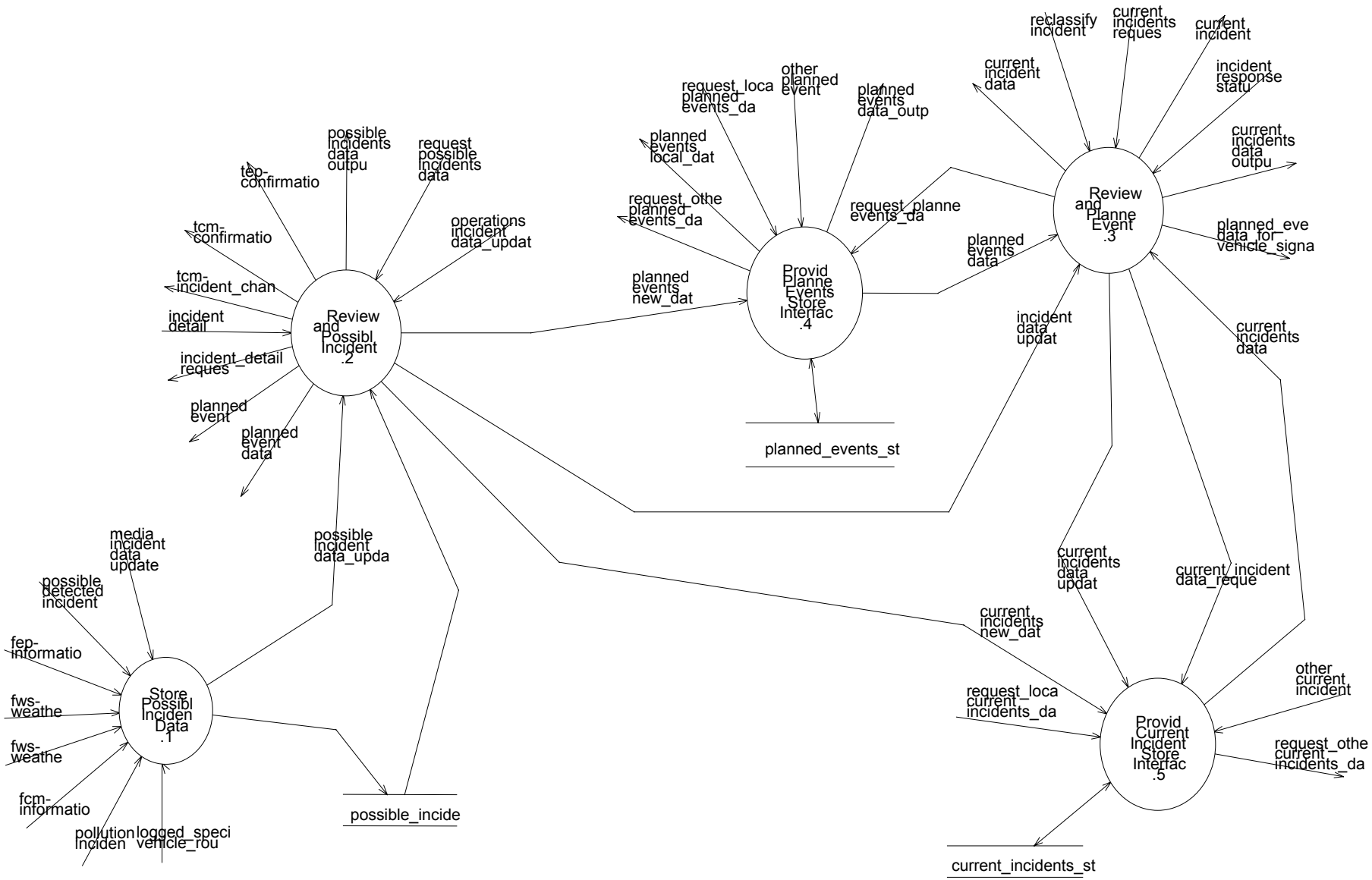

Figure F.16 – Provide Operator Interfaces for Incidents AFD

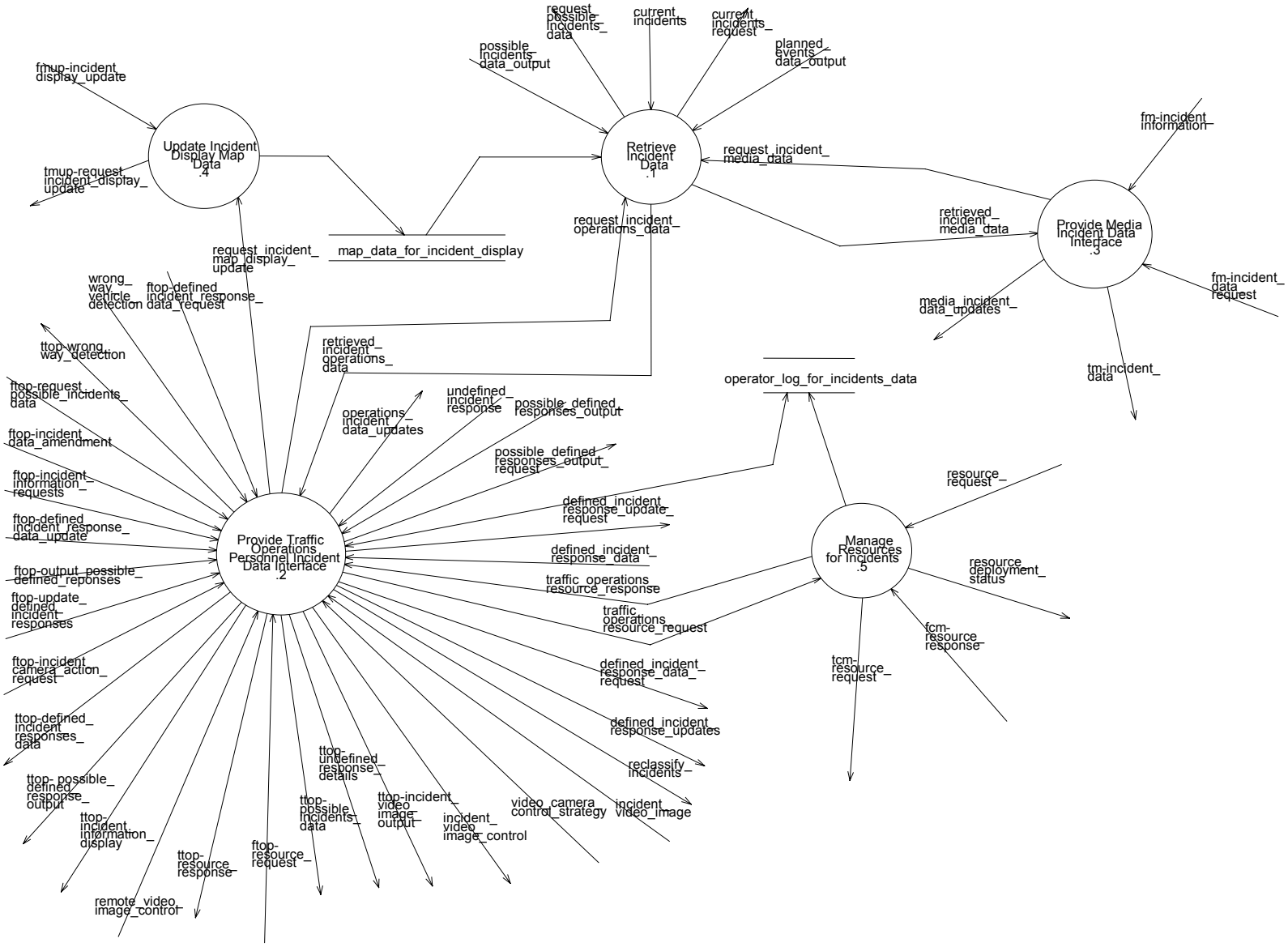

Figure F.17 – Manage Travel Demand AFD

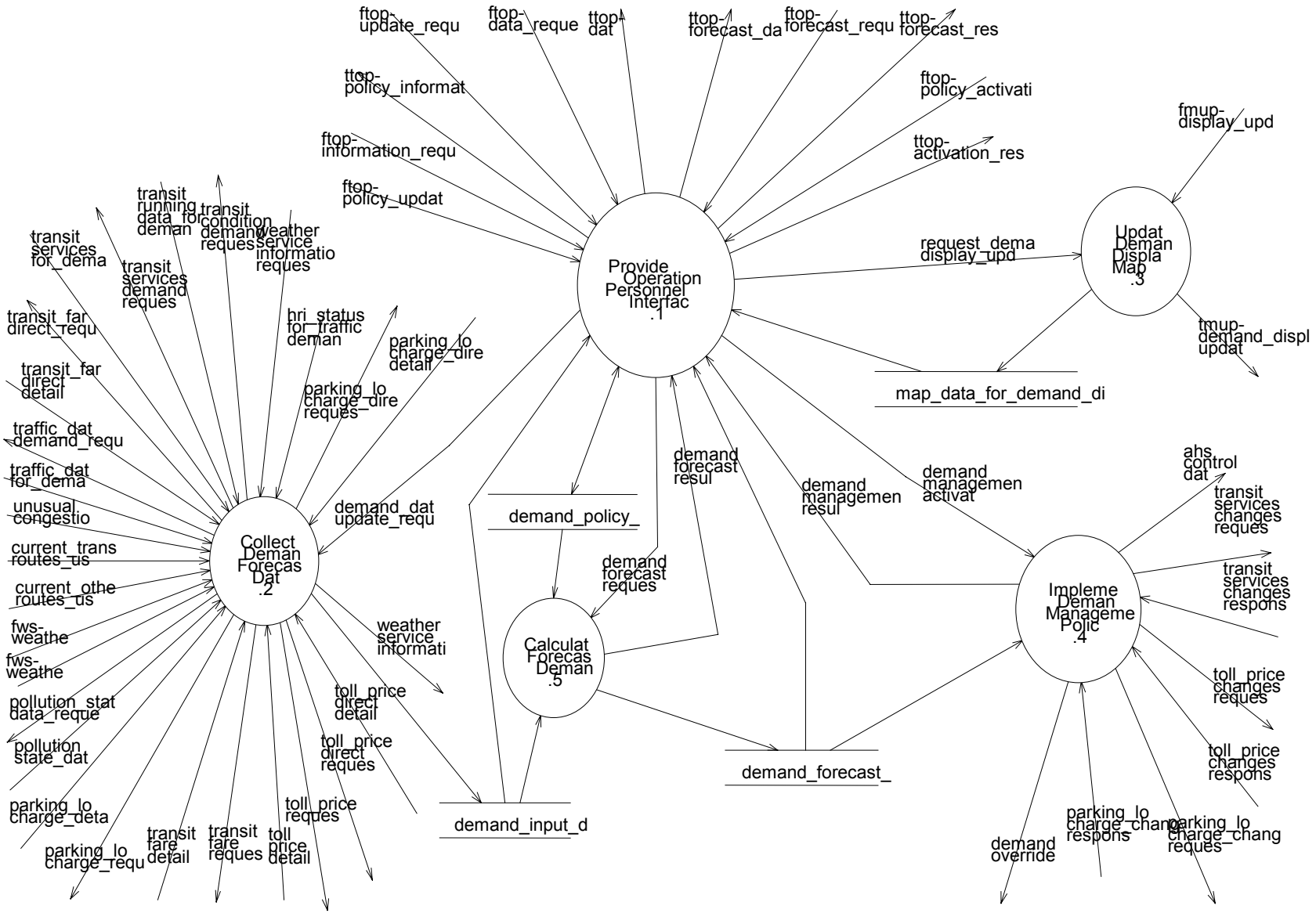

Figure F.18 – Manage Emissions AFD

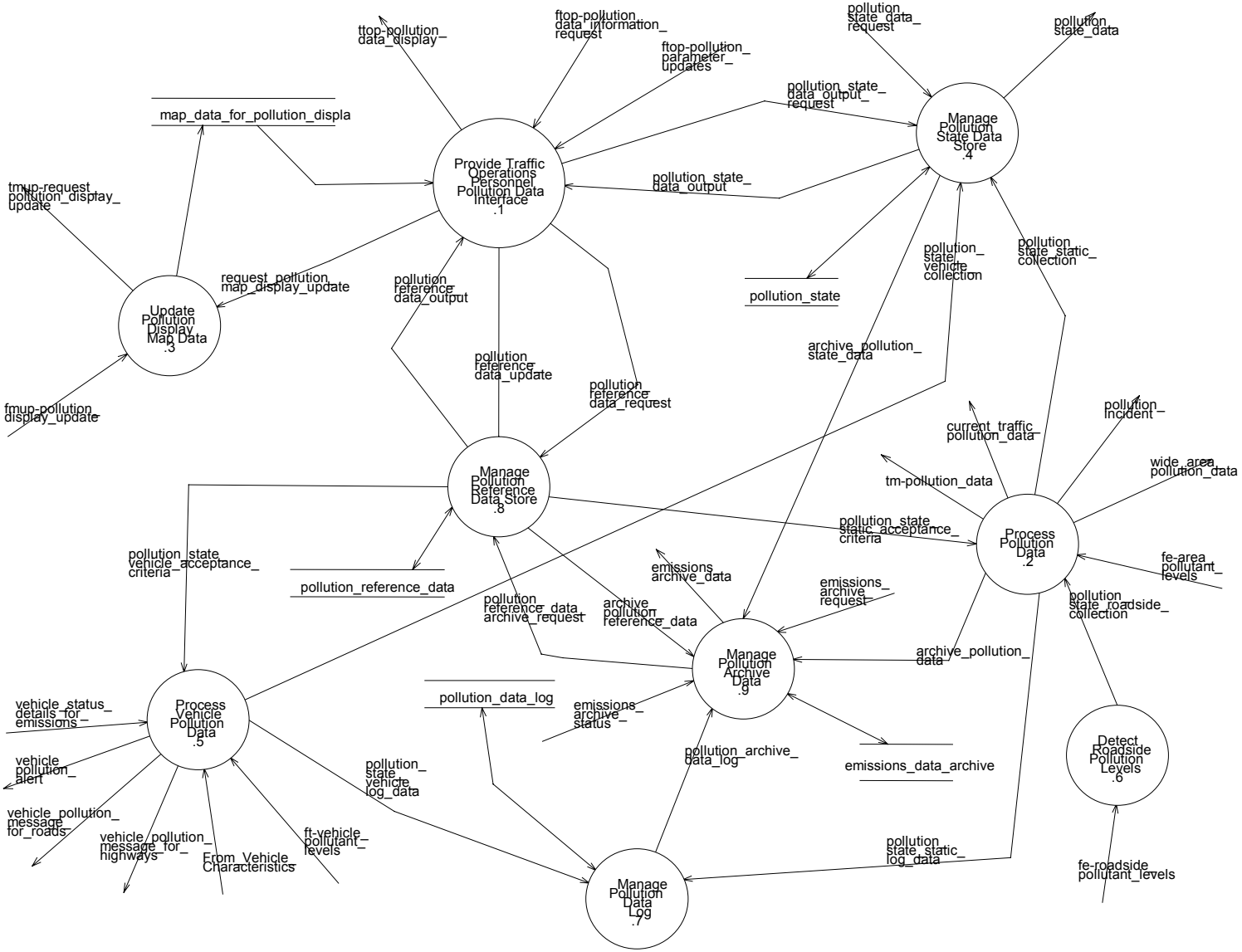

Figure F.19 – Manage HRI Vehicle Traffic AFD

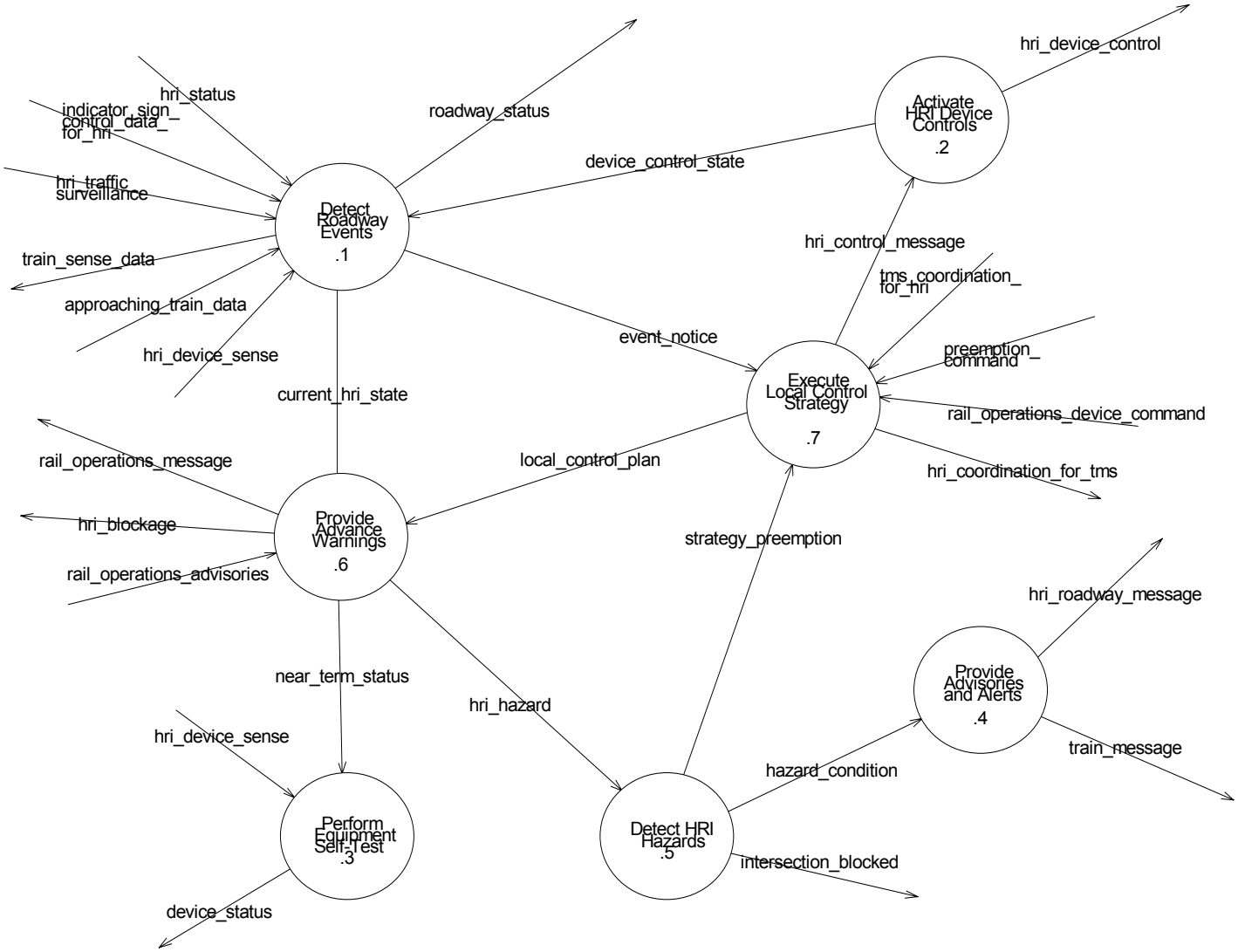

Figure F.20 – Activate HRI Device Controls AFD

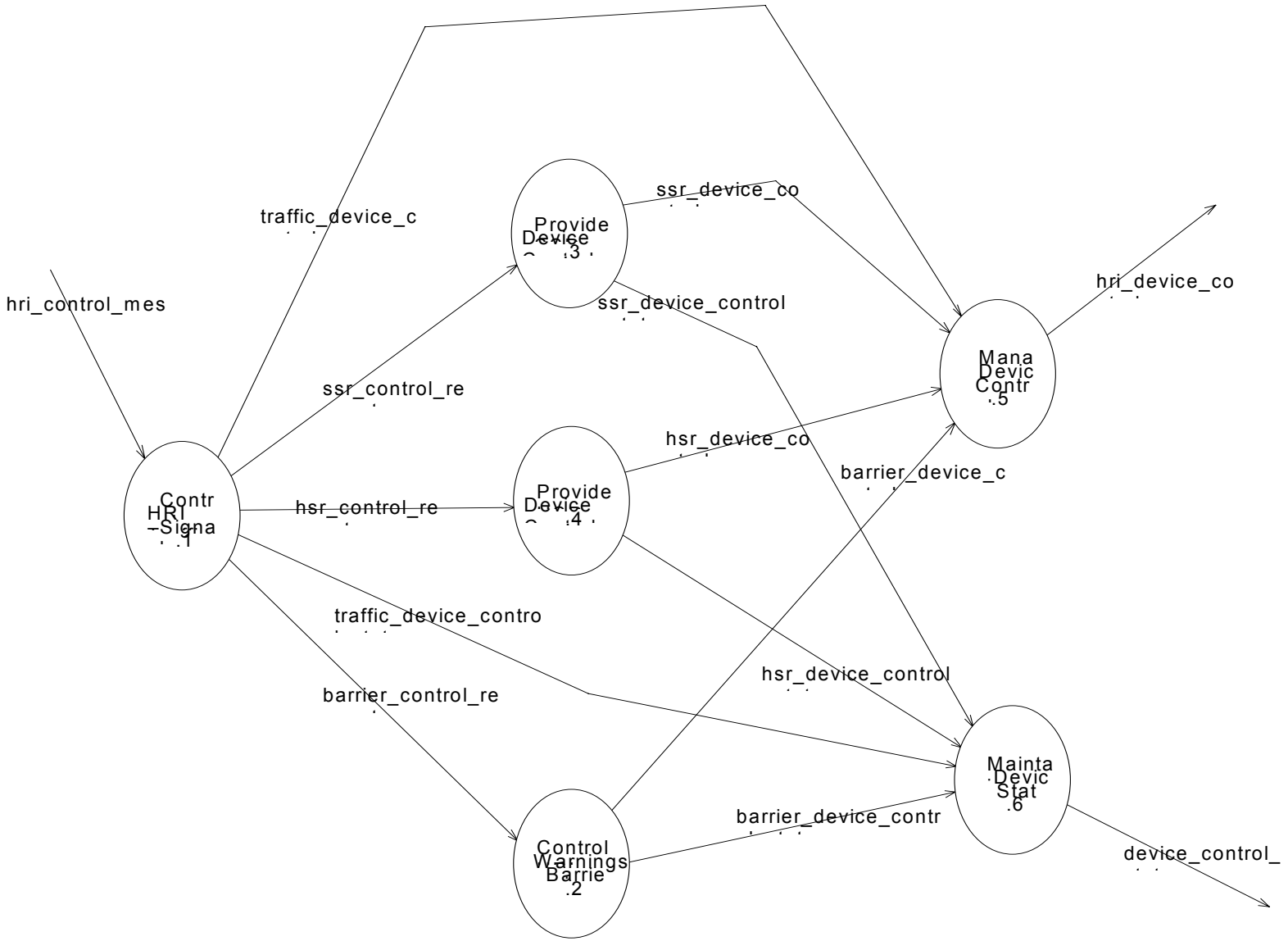

Figure F.21 – Provide Advisories and Alerts AFD

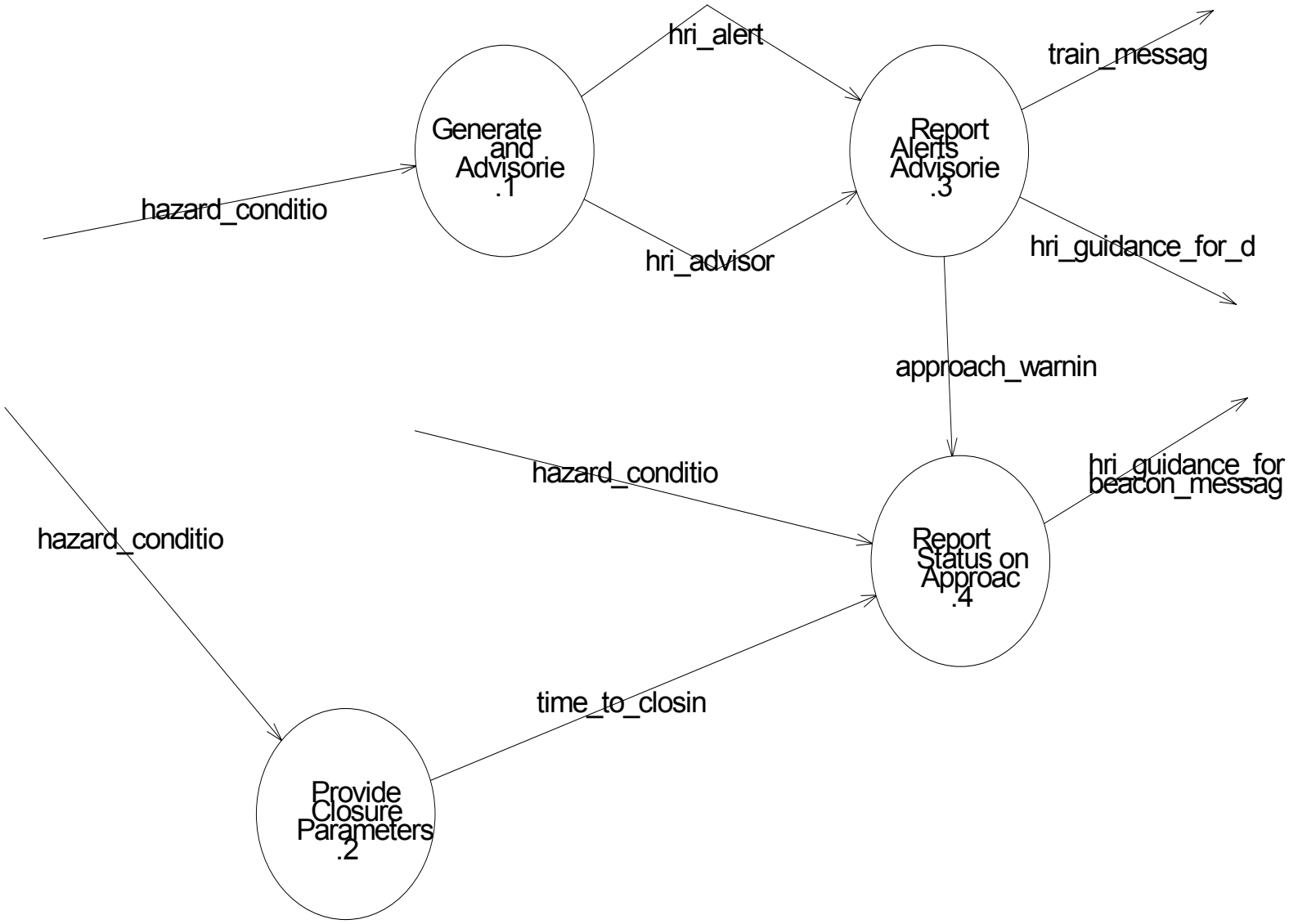

Figure F.22 – Provide Advance Warnings AFD

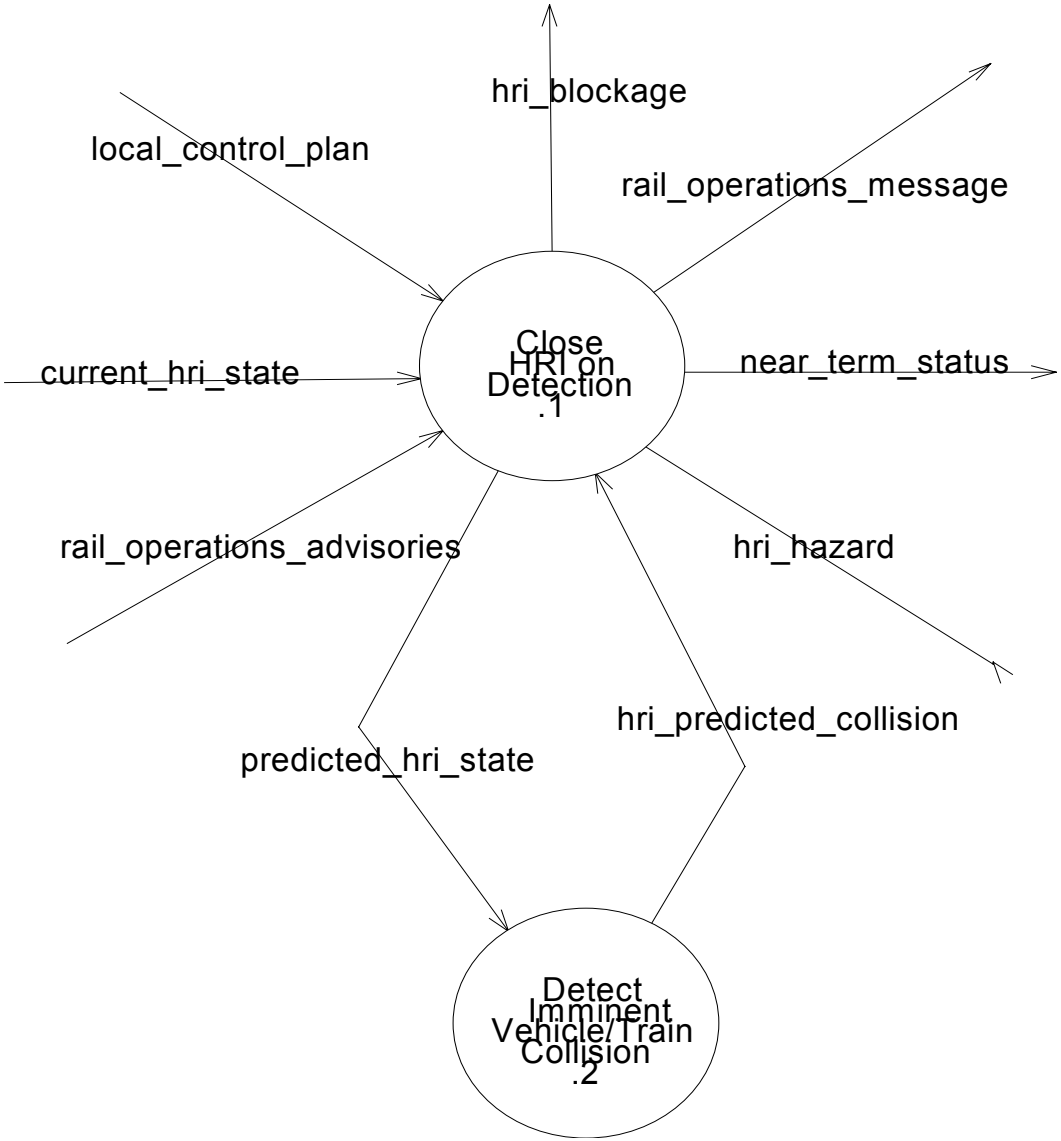

Figure F.23 – Execute Local Control Strategy AFD

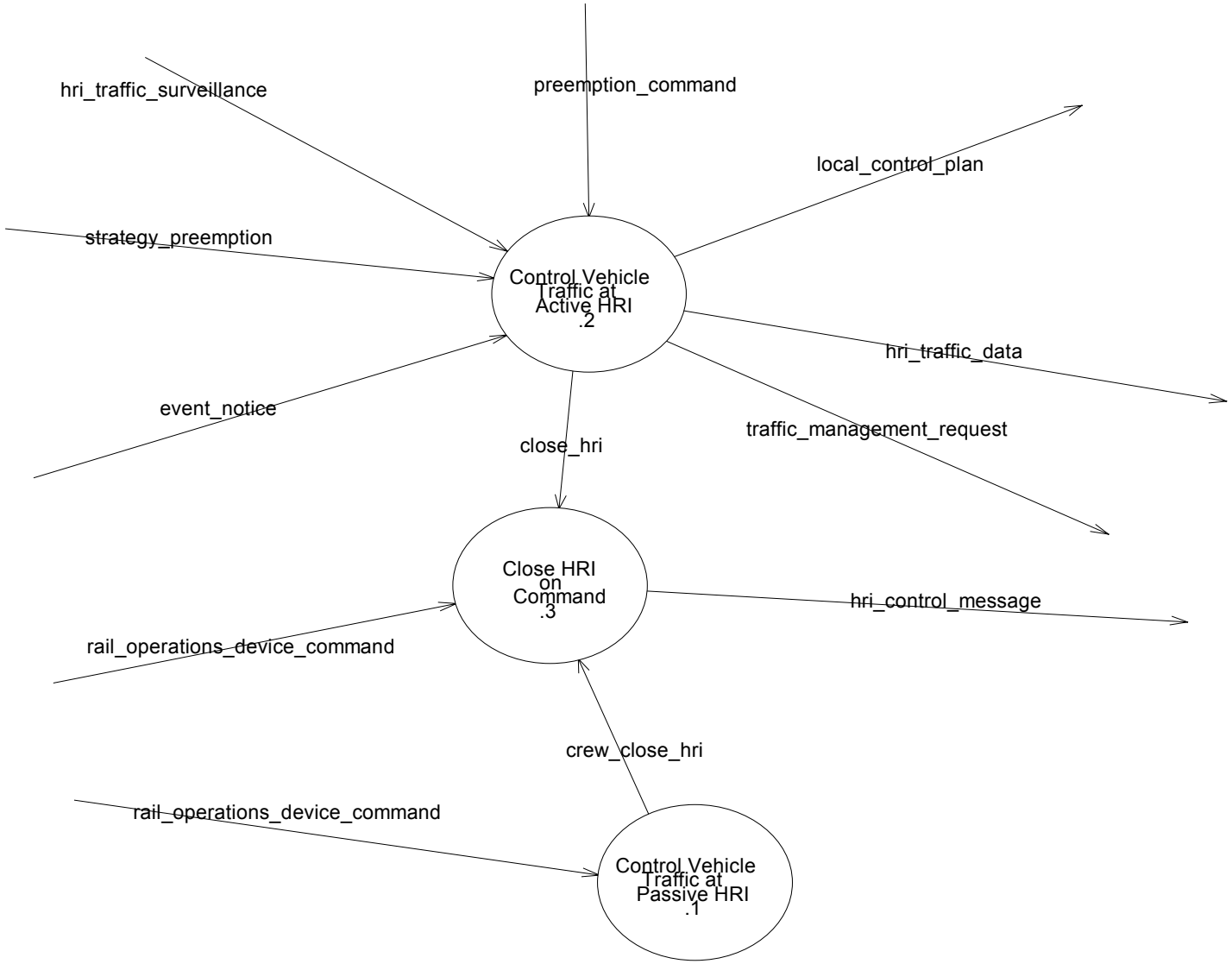

Figure F.24 – Manage HRI Rail Traffic

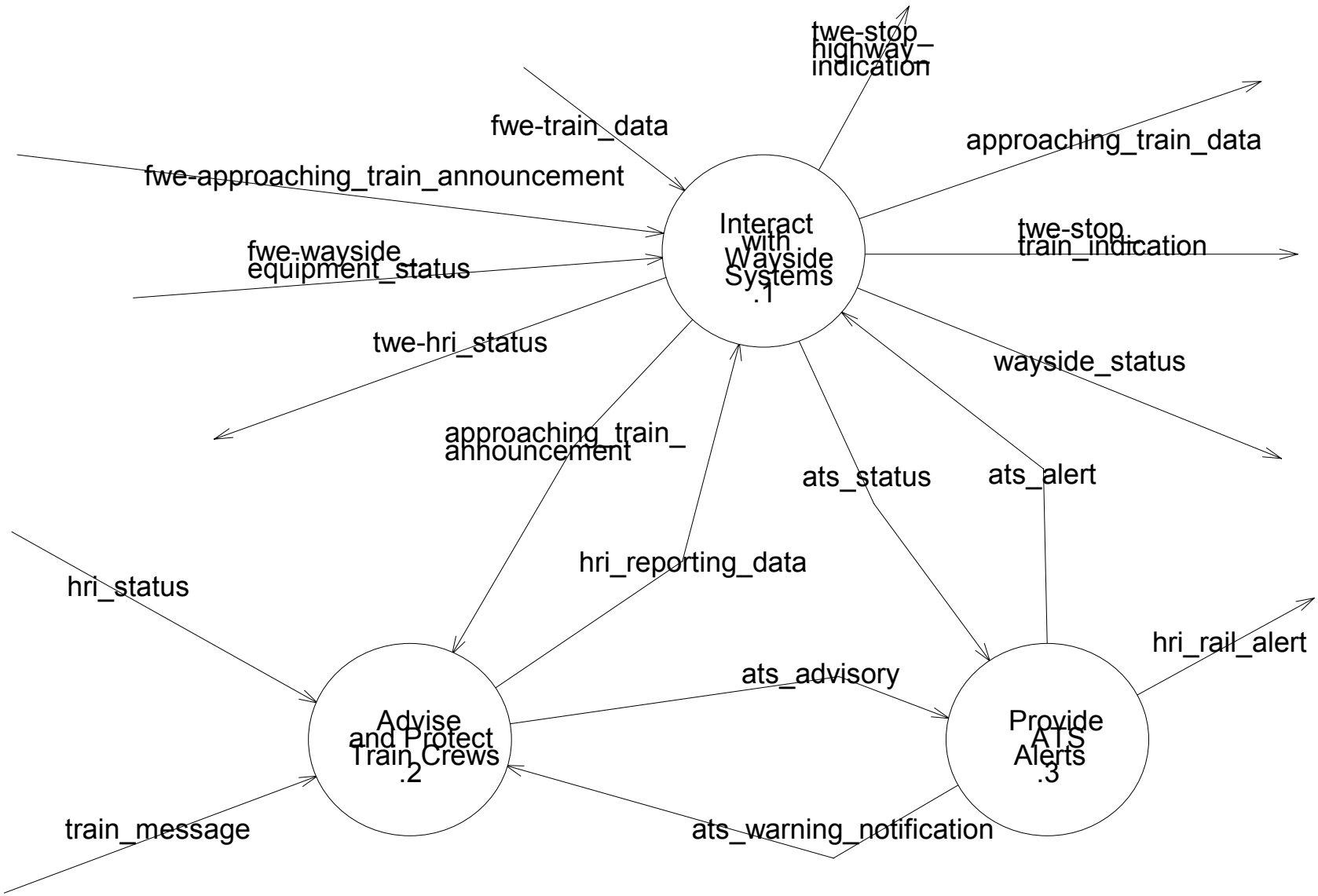

Figure F.25 – Interact with Vehicle Traffic Management AFD

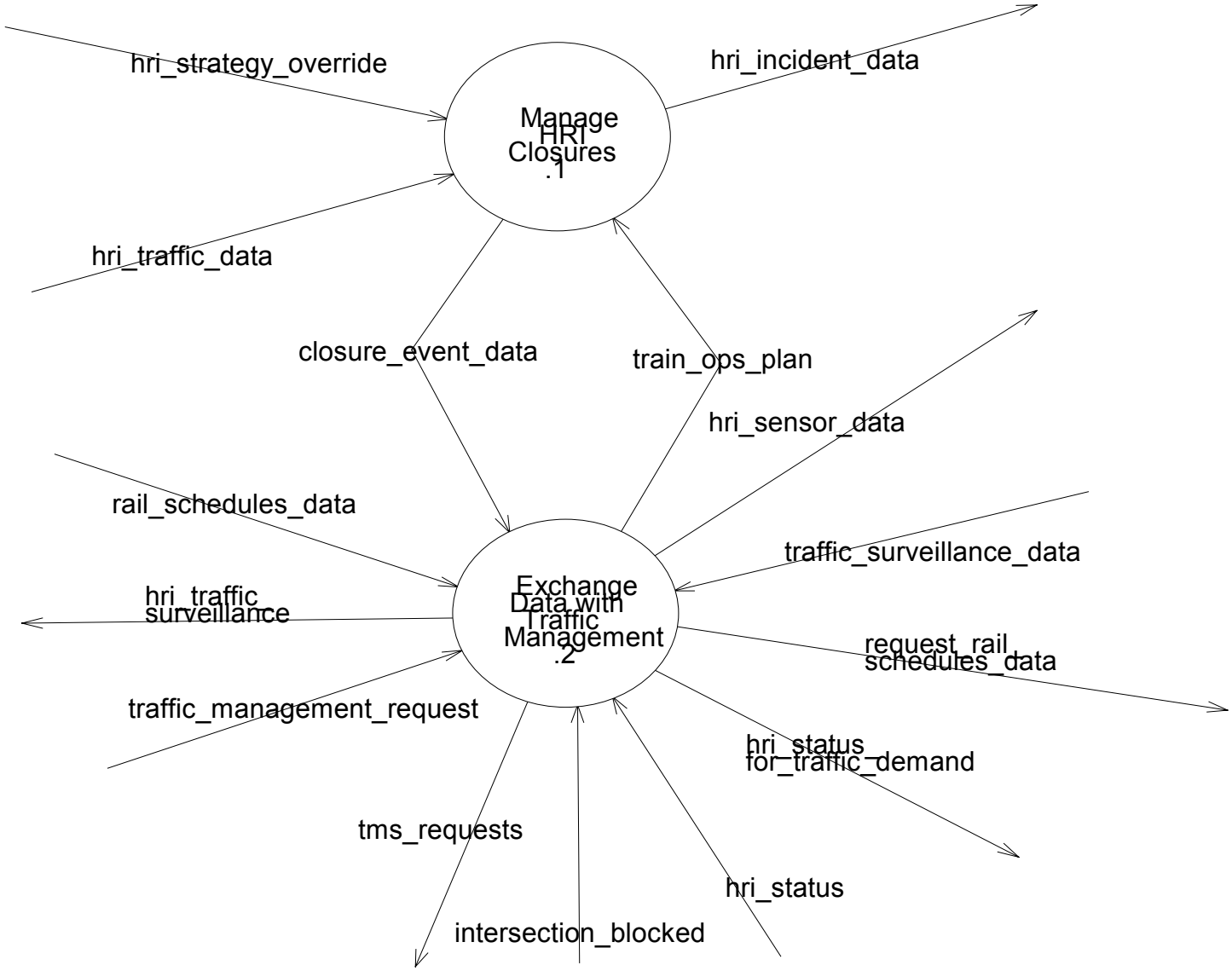

Figure F.26 – Monitor HRI Status AFD

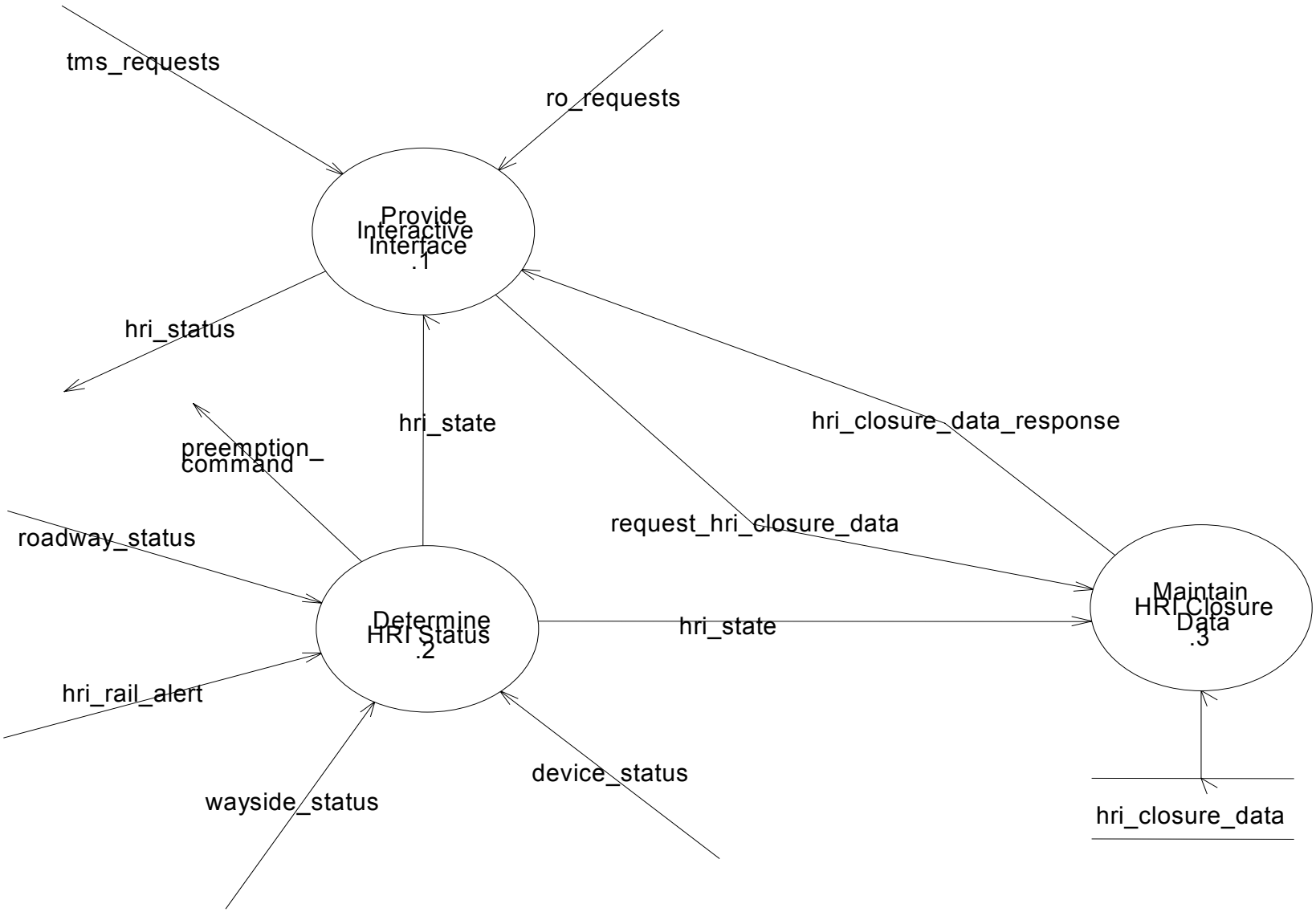

Figure F.27 – Provide Commercial Vehicle Roadside Facilities

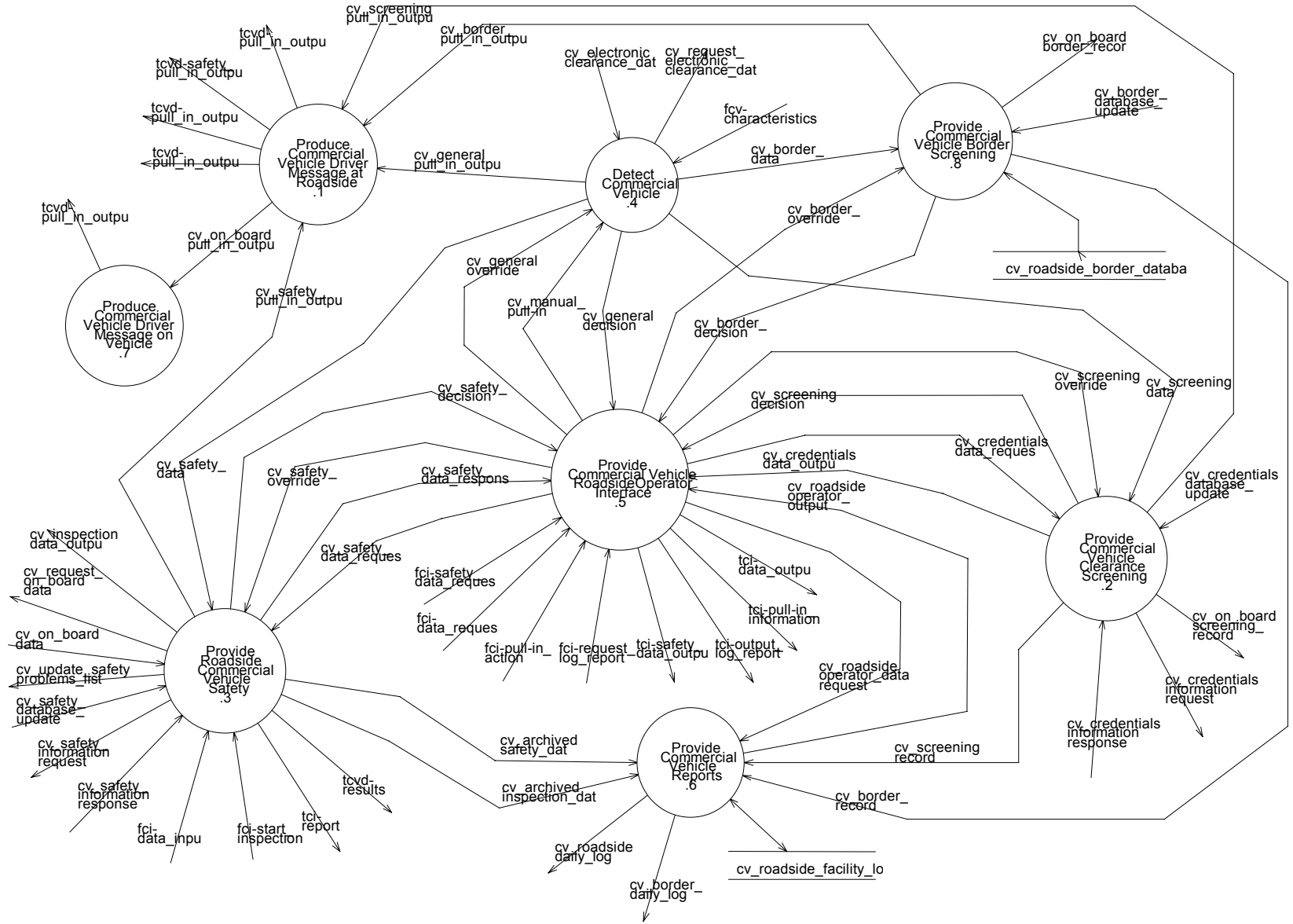

Figure F.28 – Provide Commercial Vehicle Clearance Screening AFD

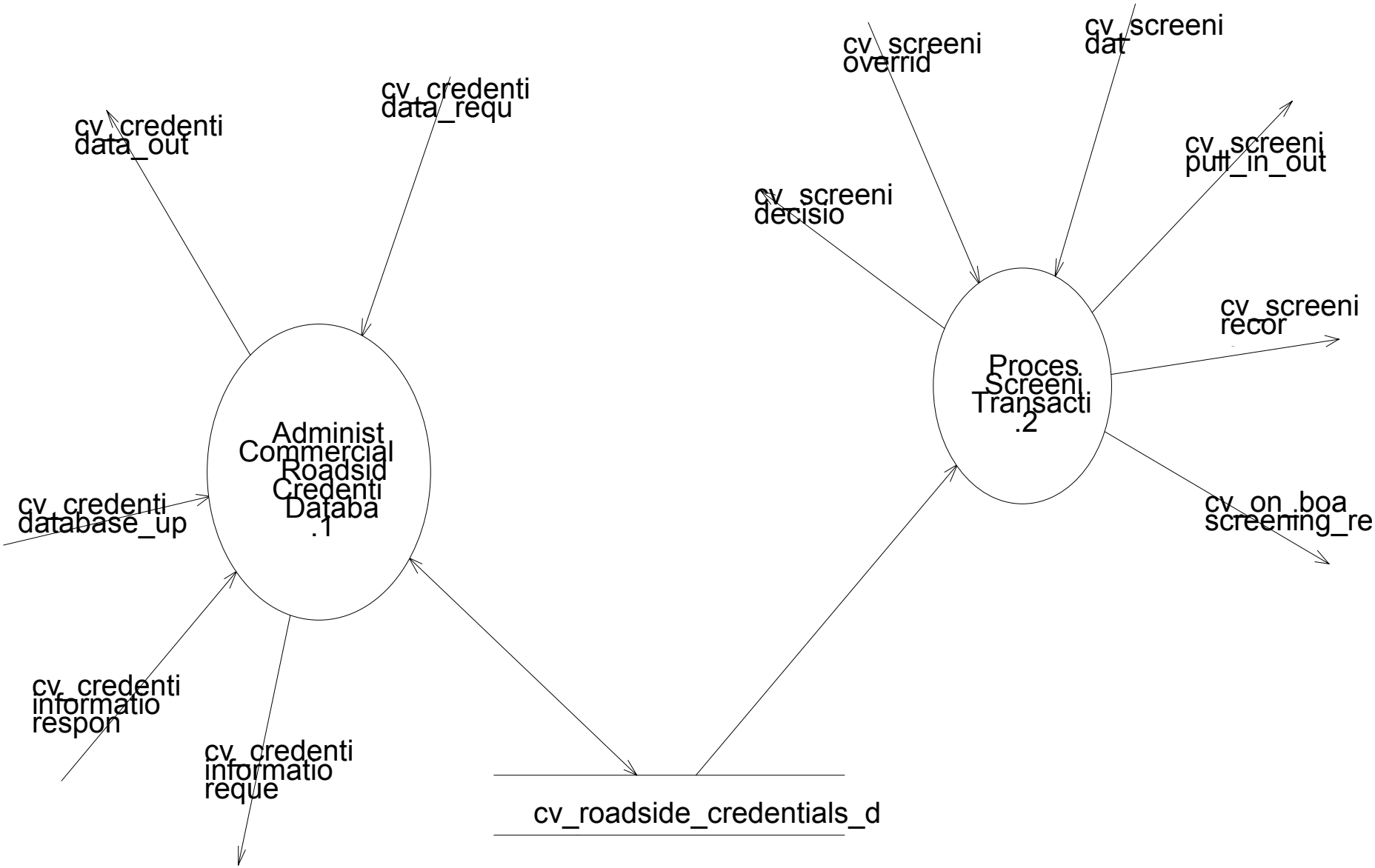

Figure F.29 – Administer Commercial Vehicles AFD

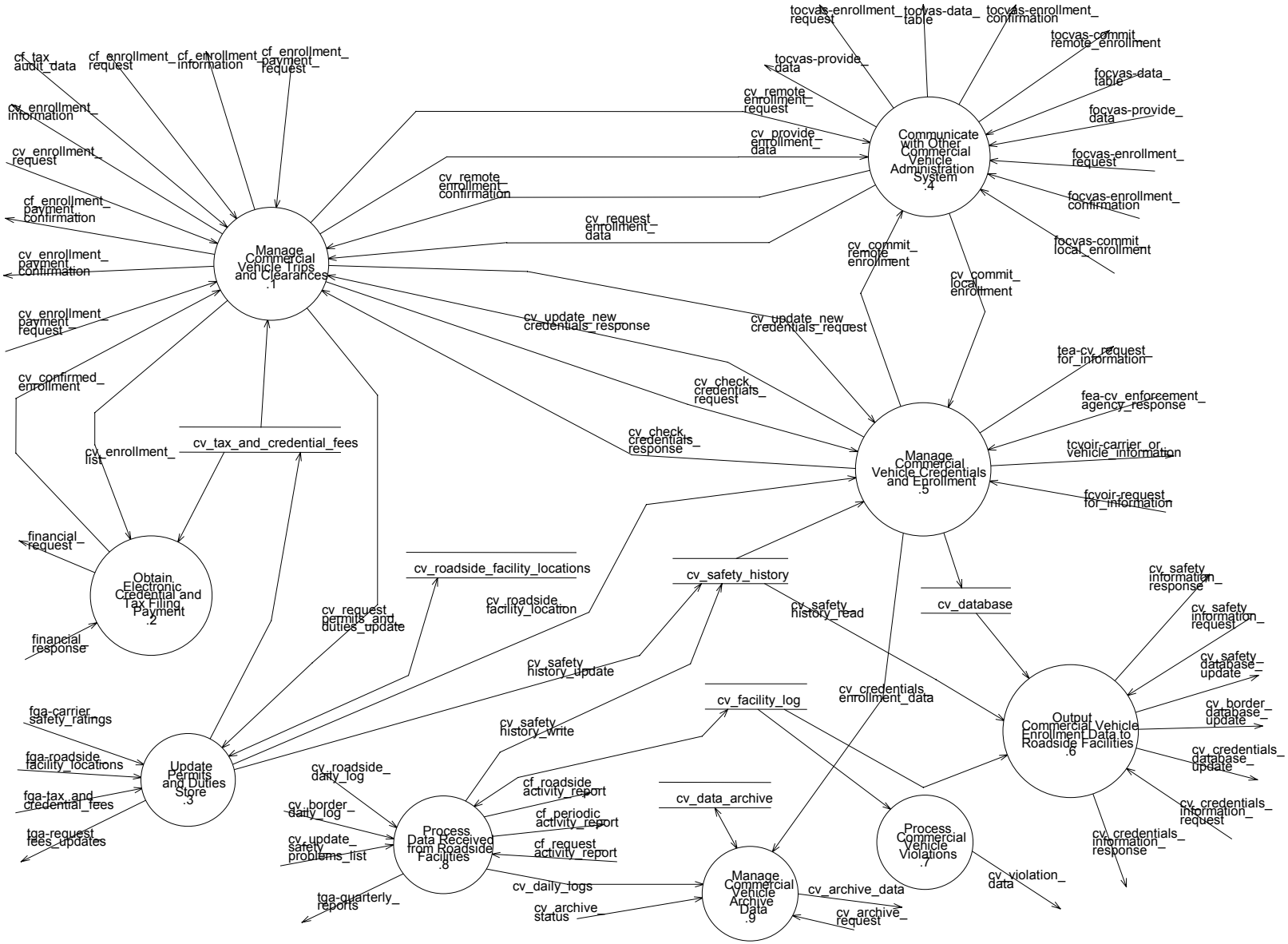

Figure F.30 – Manage Transit AFD

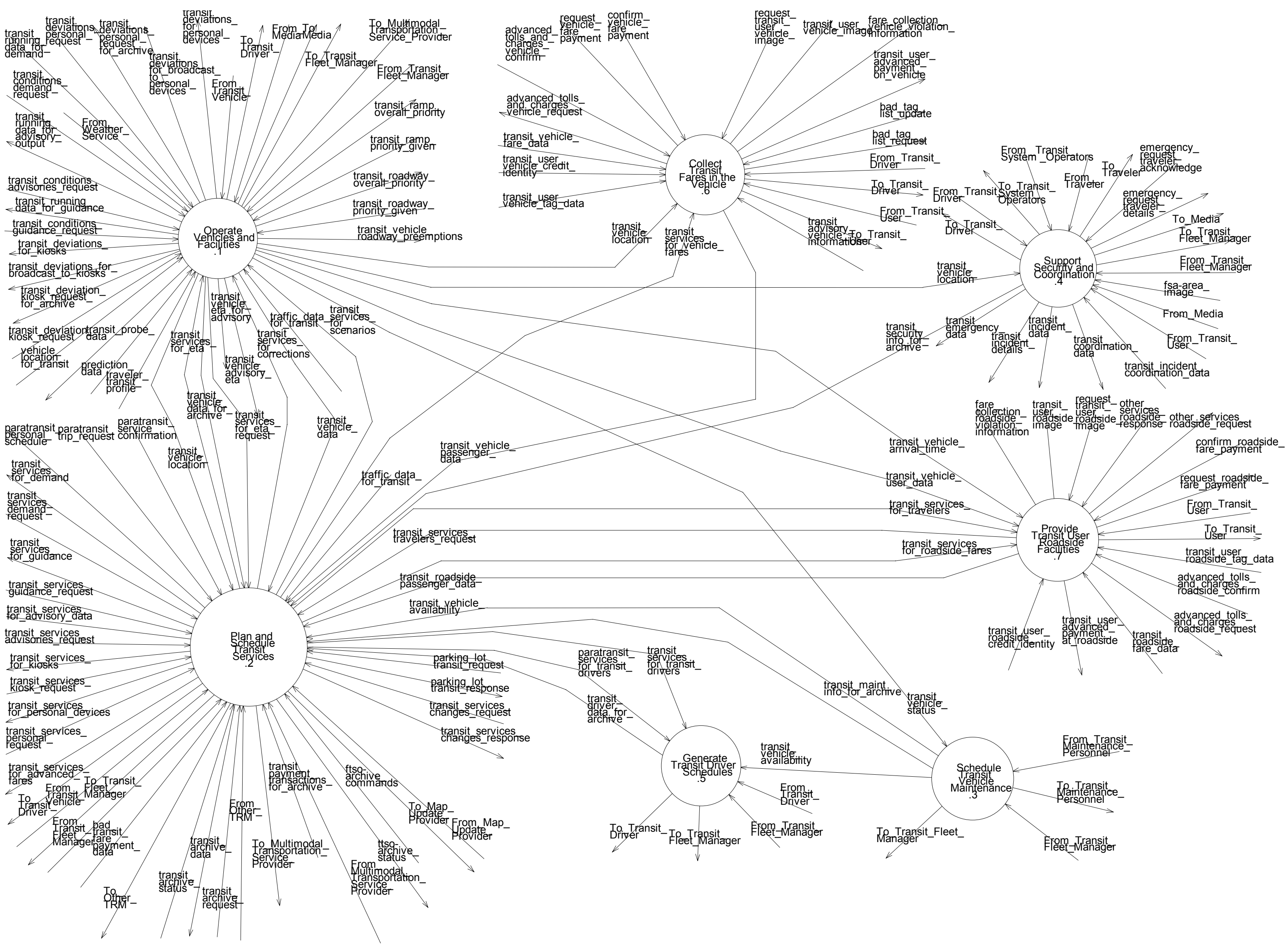

Figure F.31 – Operate Vehicles and Facilities AFD

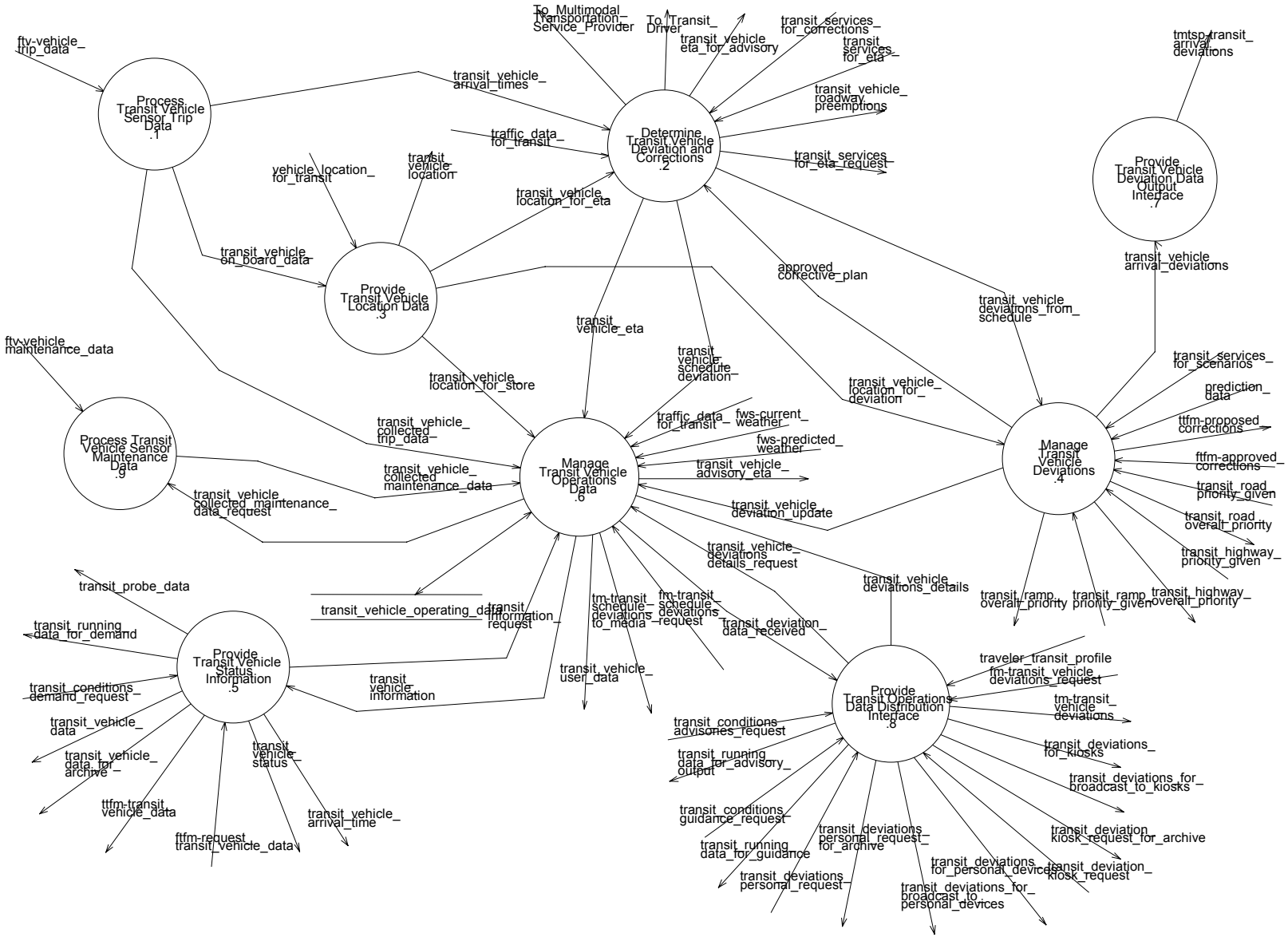

Figure F.32 – Determine Transit Vehicle Deviation and Corrections AFD

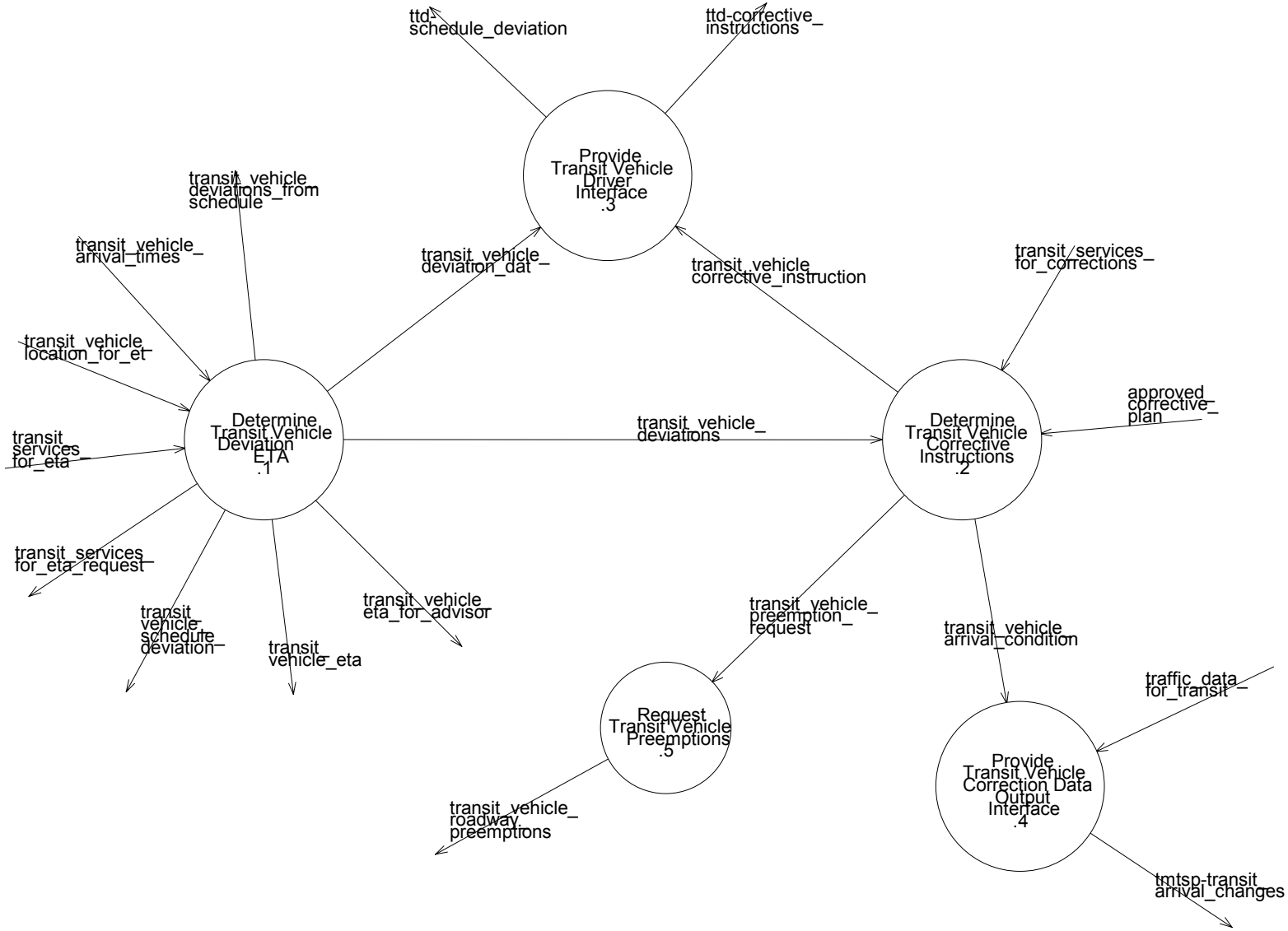

Figure F.33 – Plan and Schedule Transit Services AFD

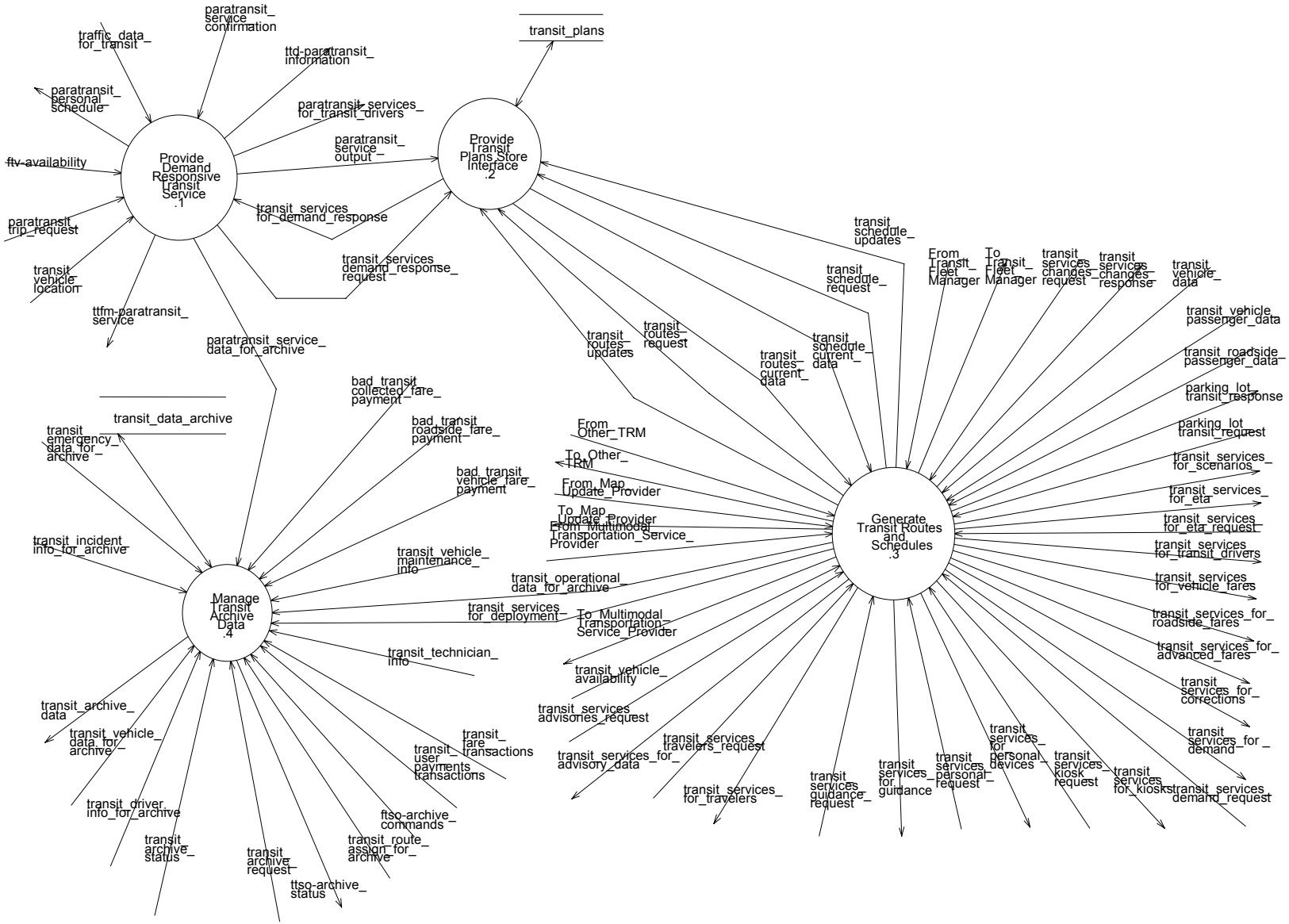

Figure F.34 – Manage Emergency Services

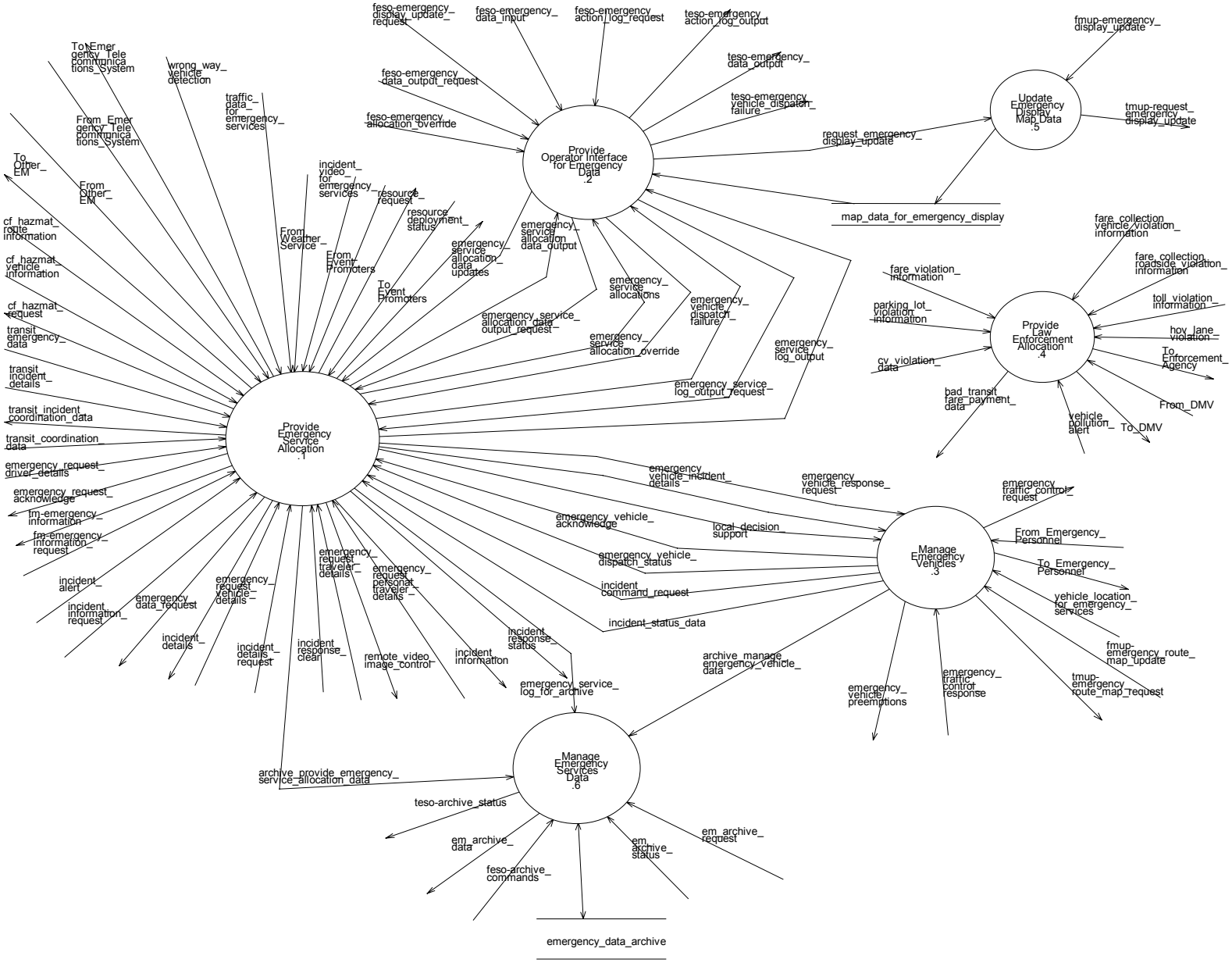

Figure F.35 – Provide Emergency Service Allocation AFD

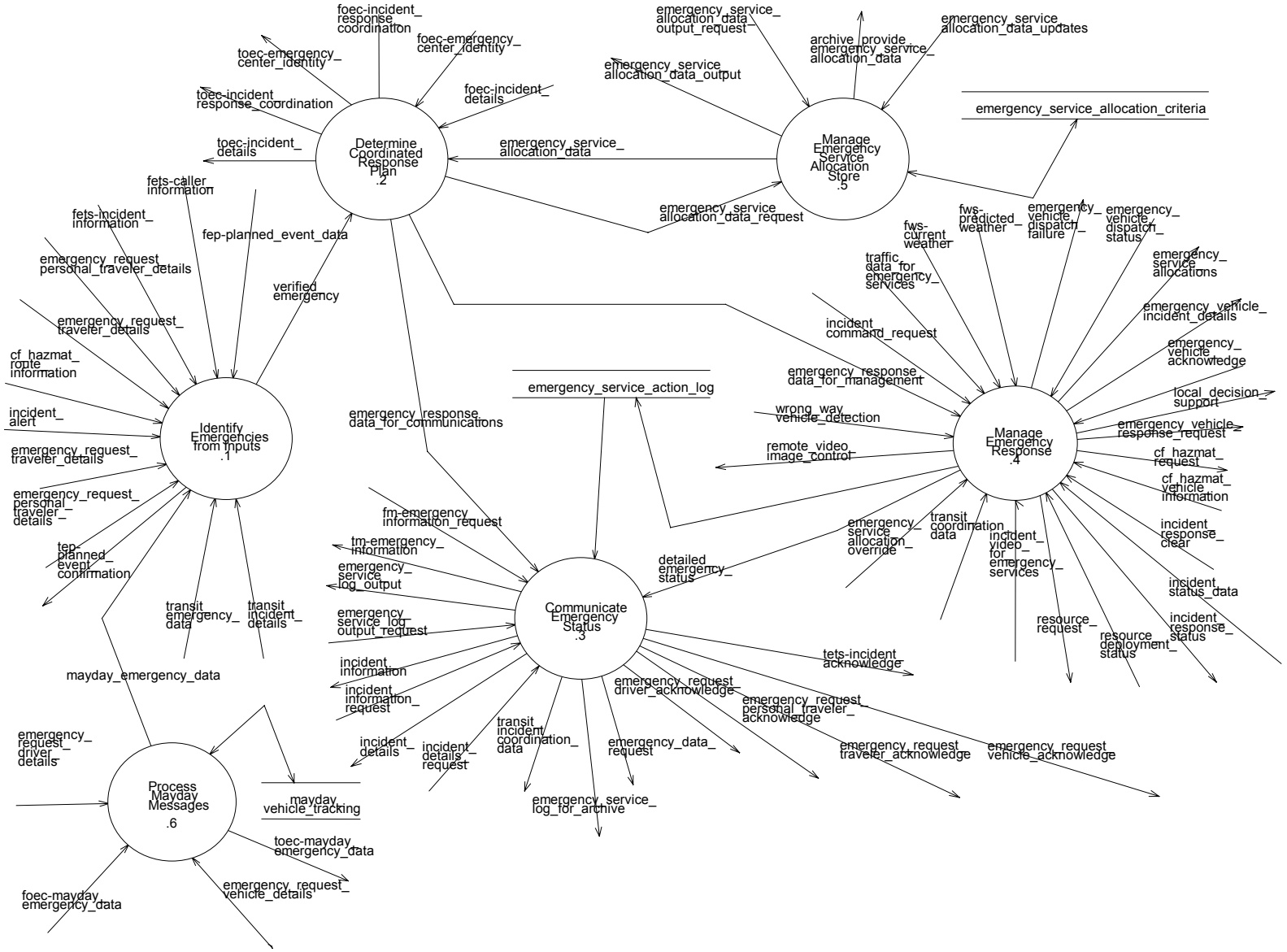

Figure F.36 – Manage Emergency Vehicles AFD

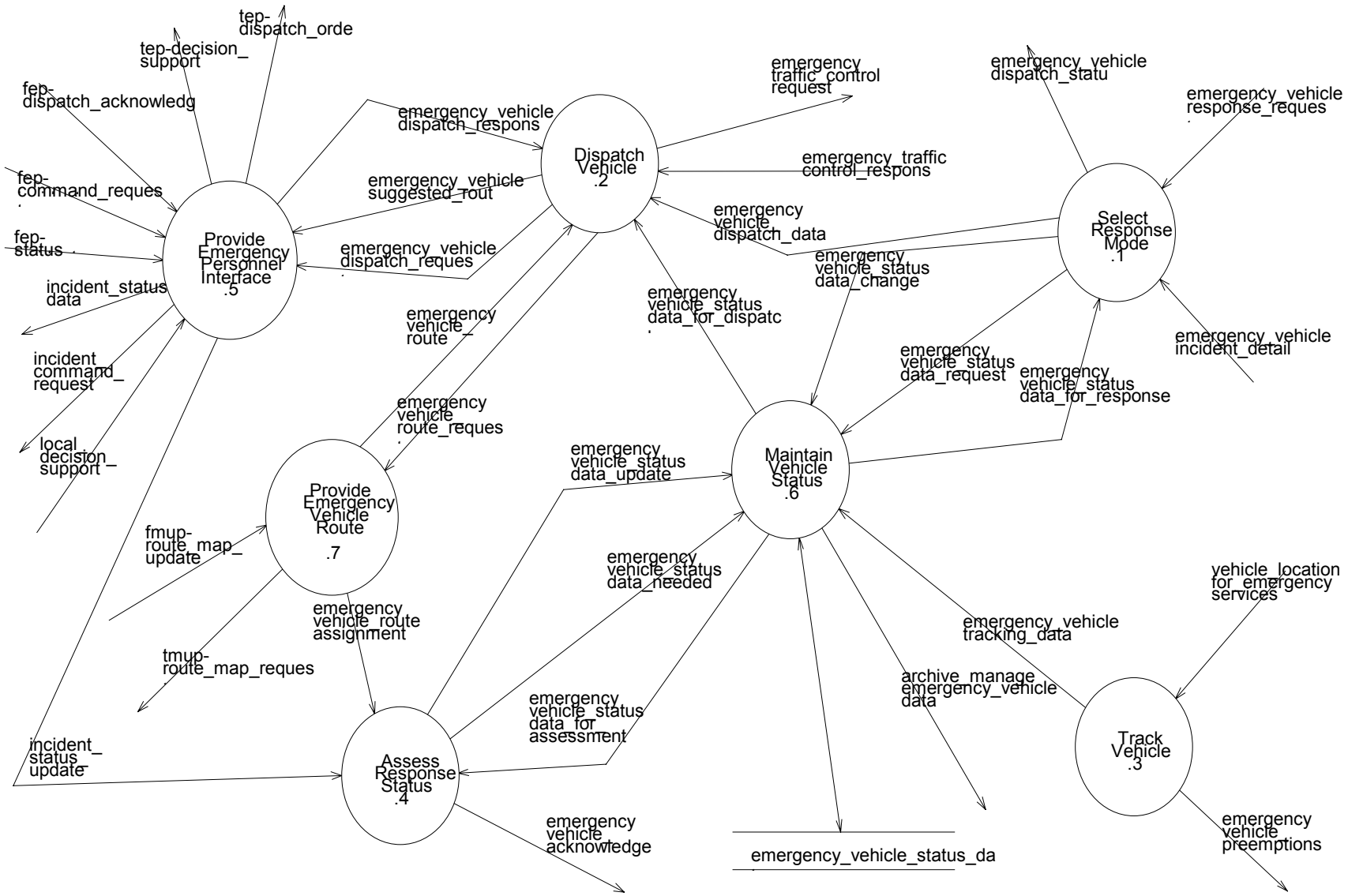

Figure F.37 – Provide Driver and Traveler Services AFD

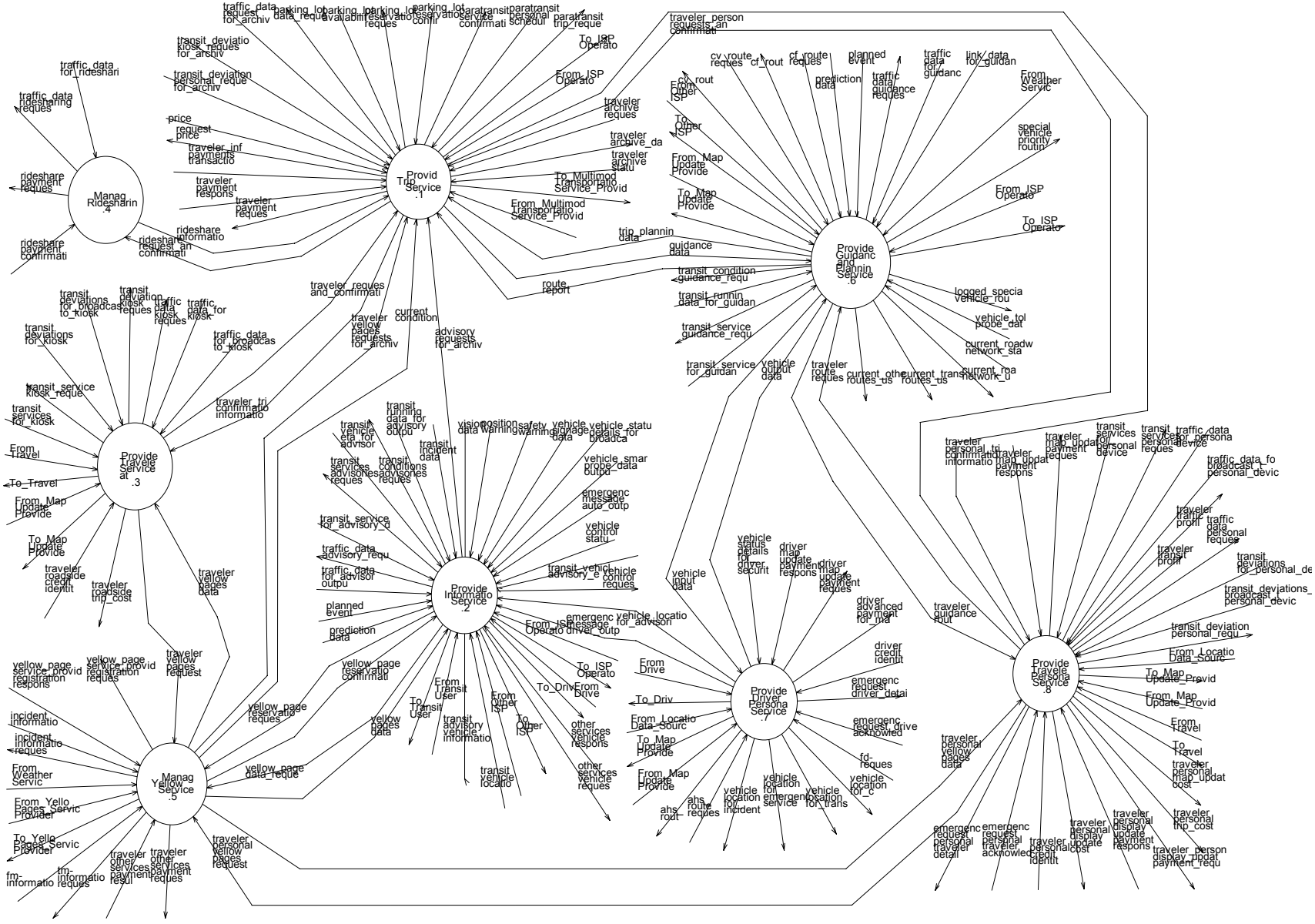

Figure F.38 – Provide Trip Planning Services AFD

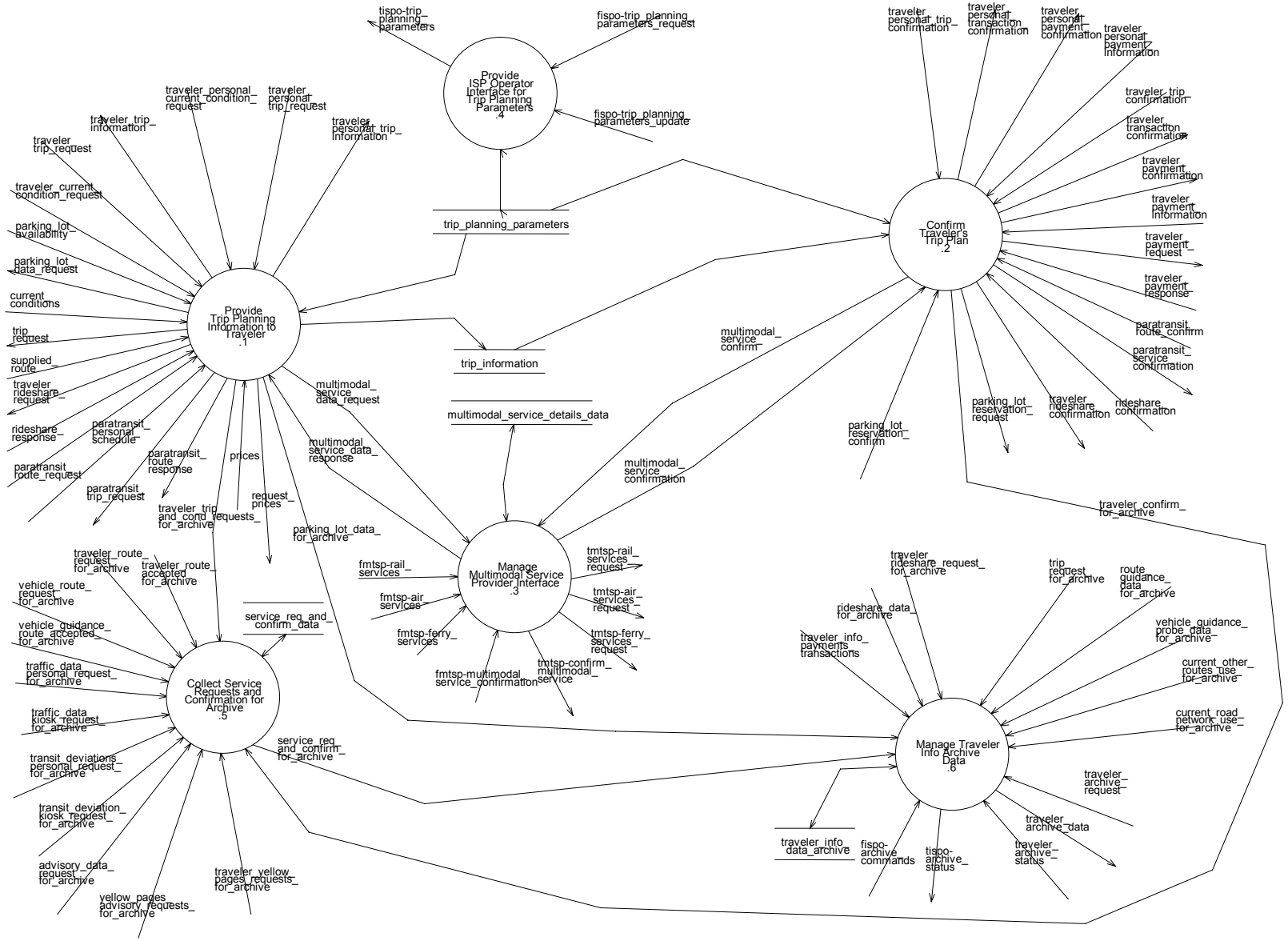

Figure F.39 – Provide Information Services

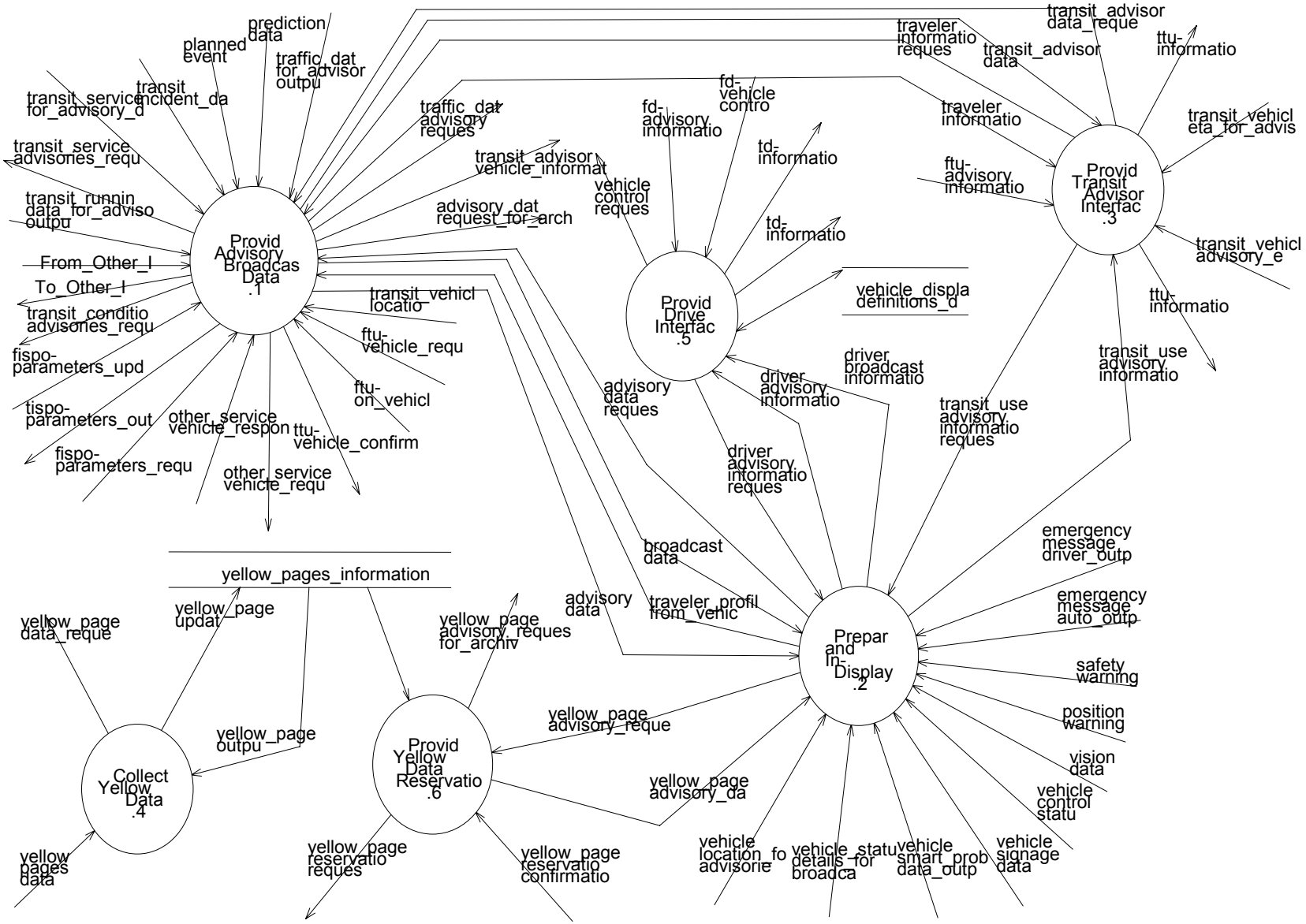

Figure F.40 – Provide Advisory and Broadcast Data AFD

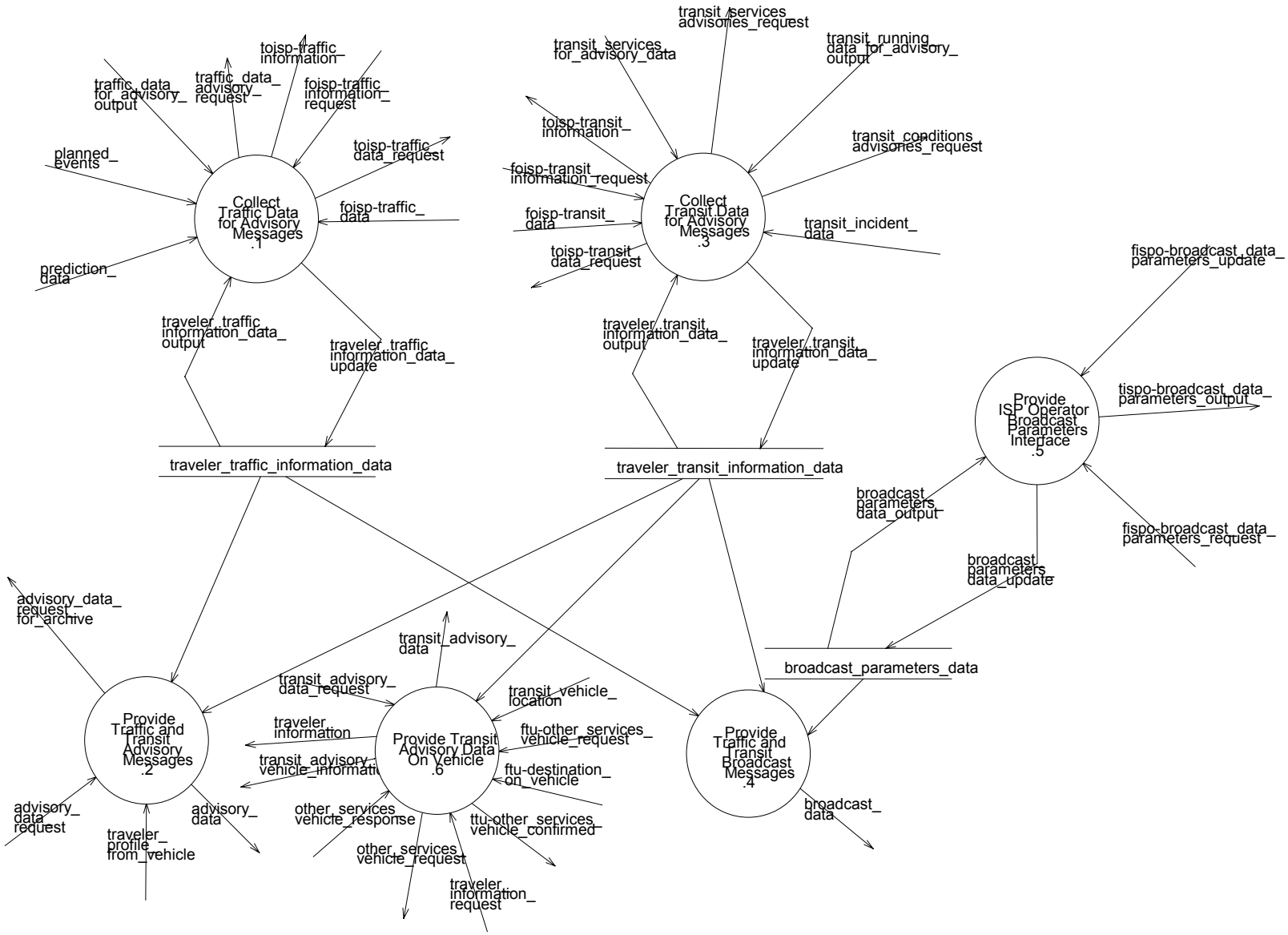

Figure F.41 – Provide Traveler Services at Kiosks AFD

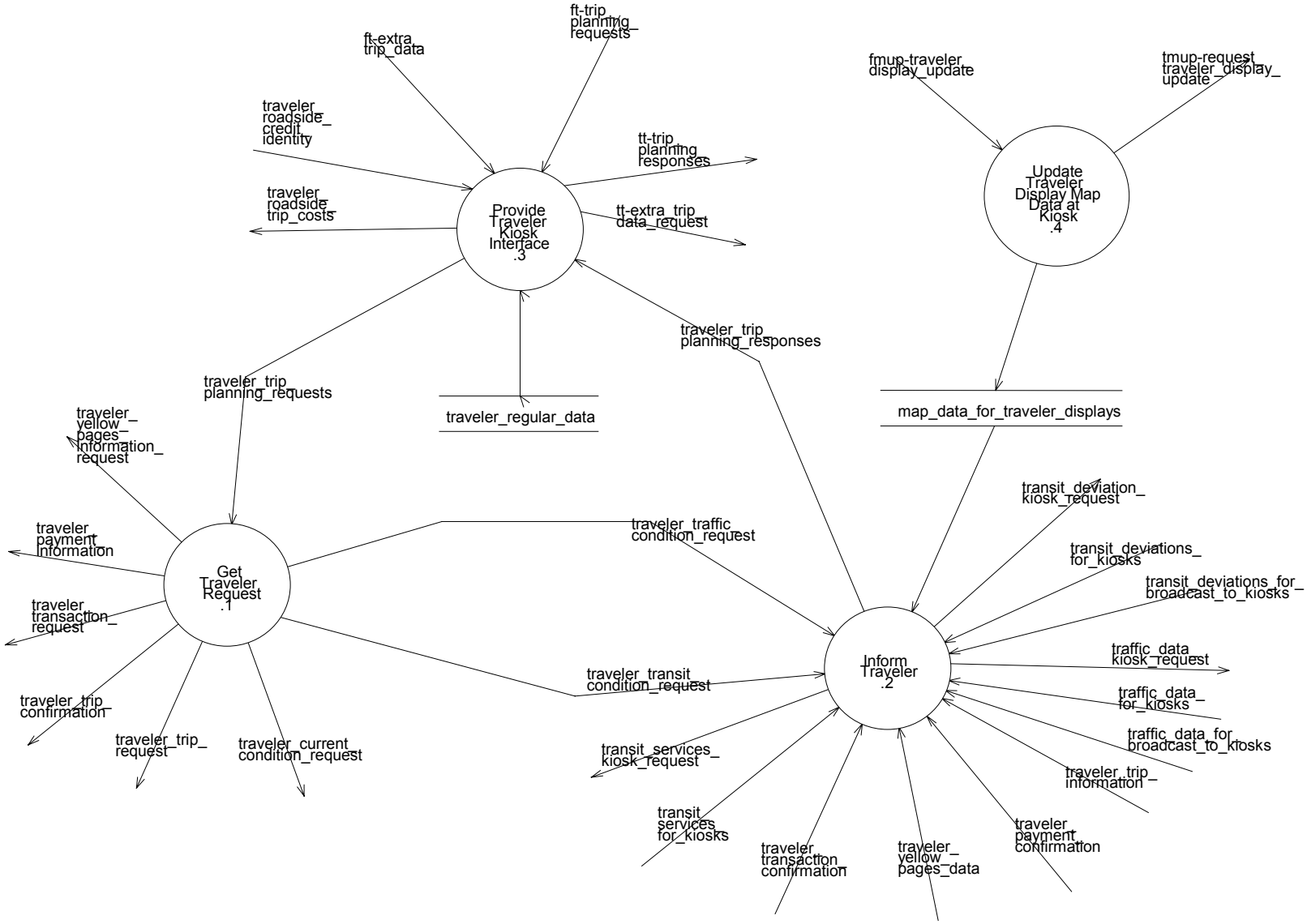

Figure F.42 – Mange Ridesharing AFD

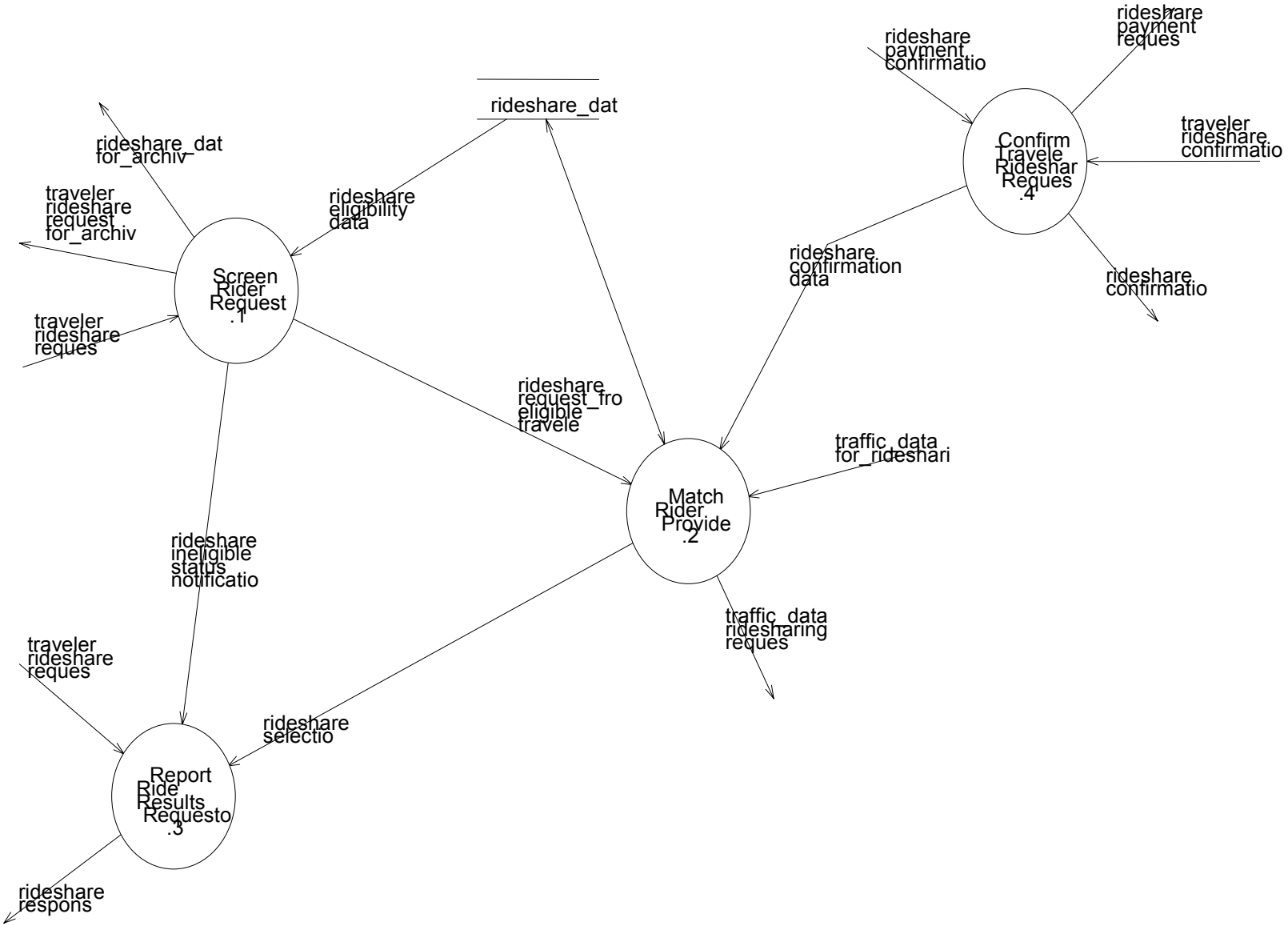

Figure F.43 – Manage Yellow Pages Services AFD

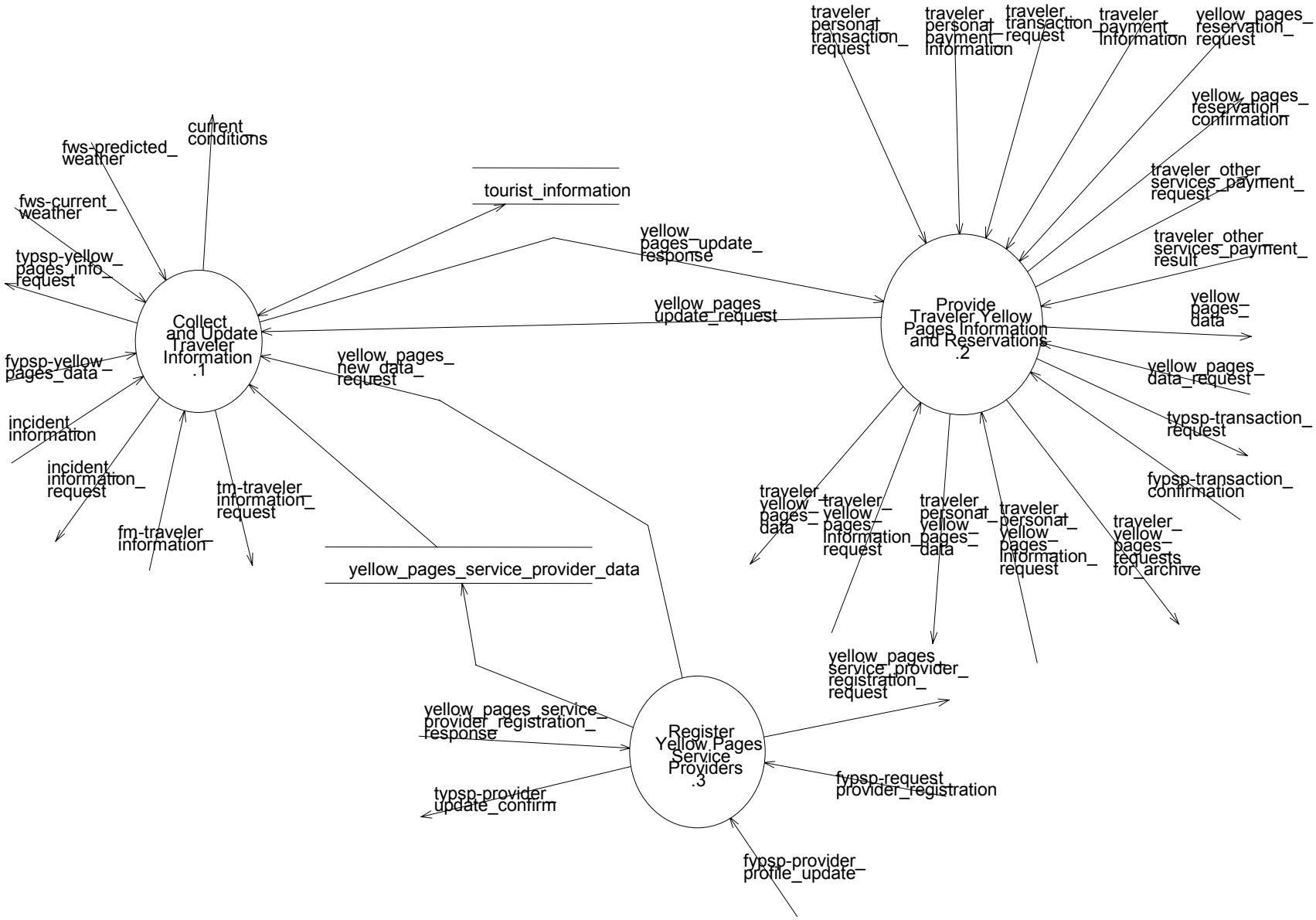

Figure F.44 – Provide Guidance and Trip Planning Services AFD

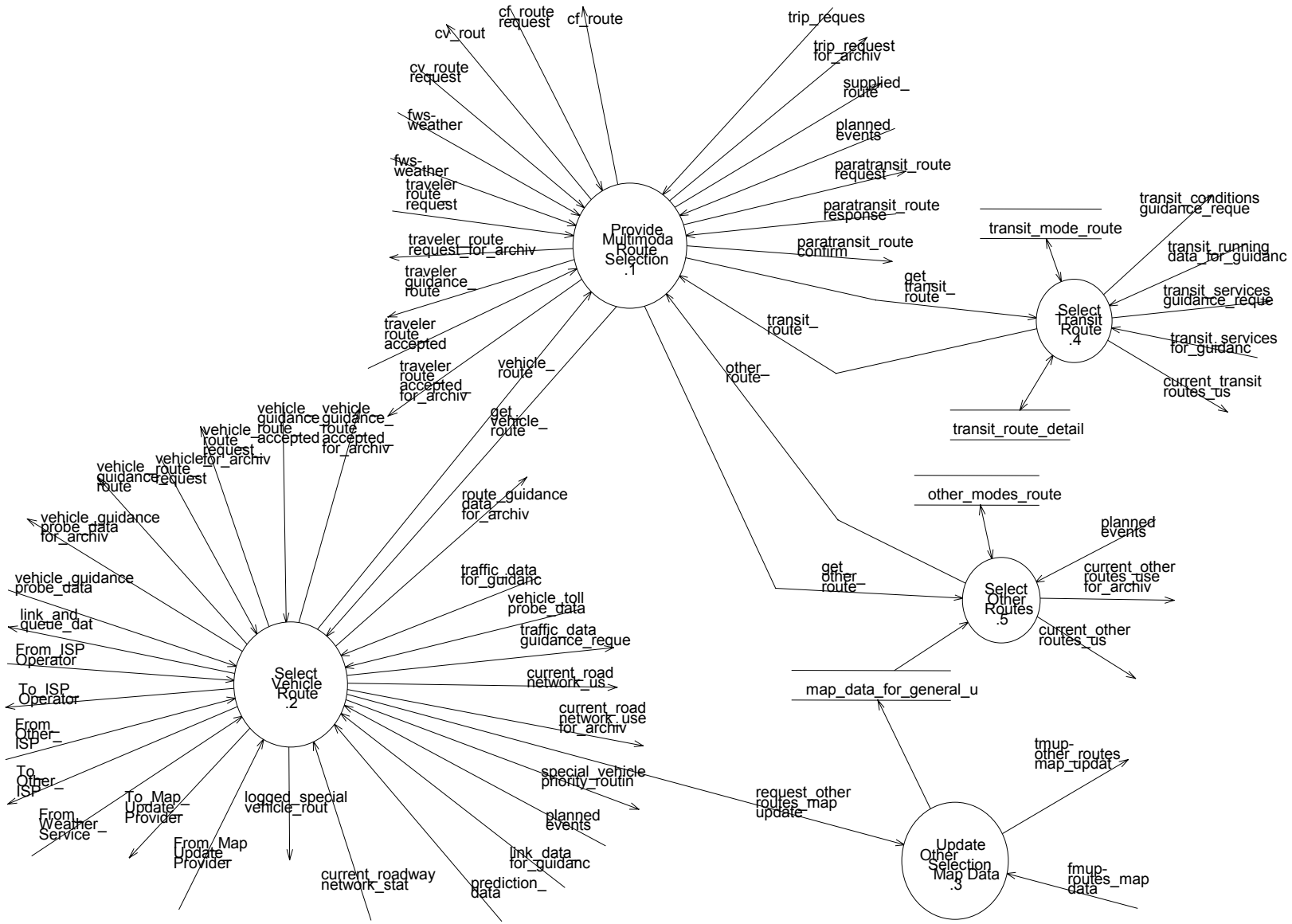

Figure F.45 – Selected Vehicle Route AFD

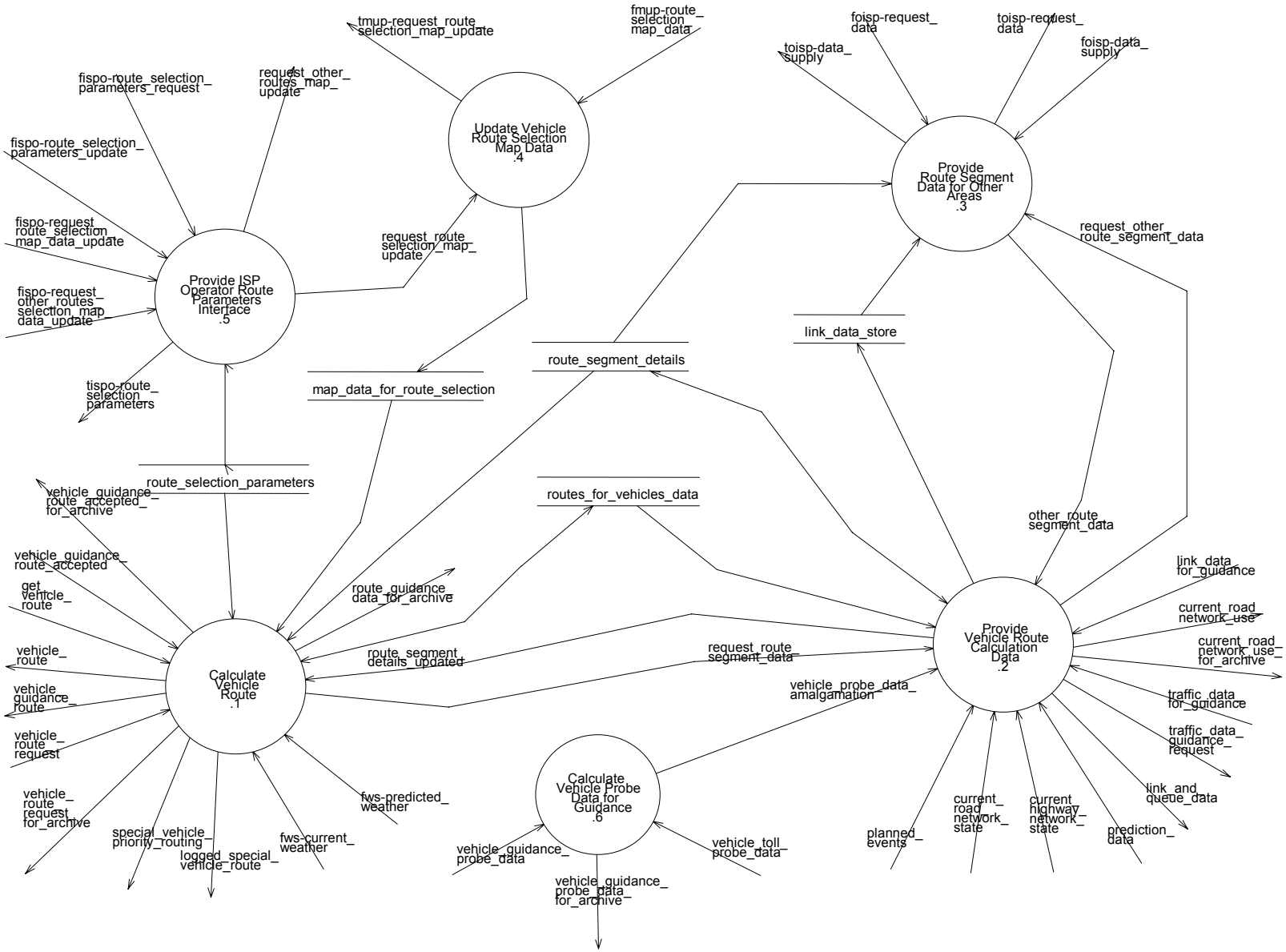

Figure F.46 – Provide Traveler Personal Services AFD

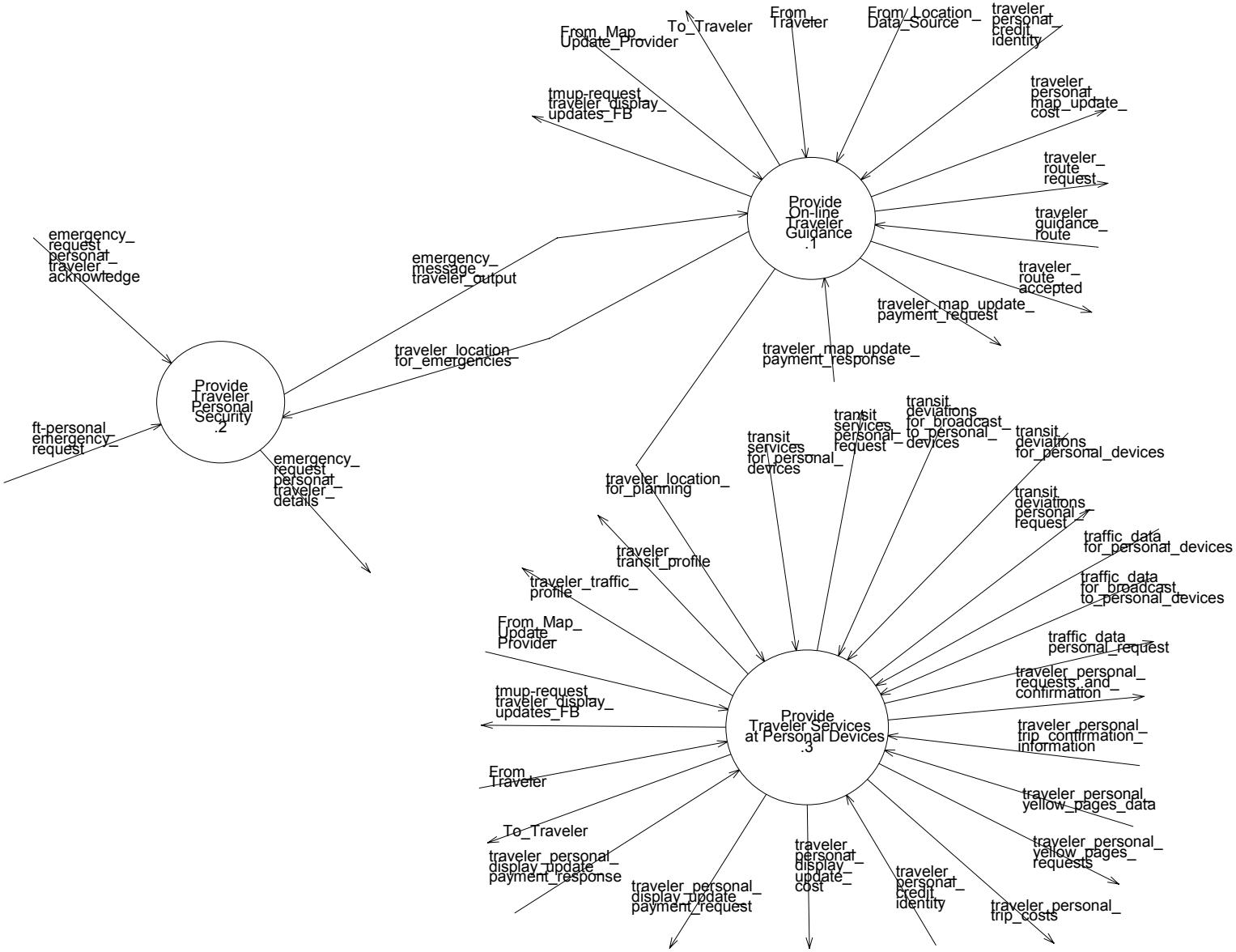

Figure F.47 – Provide On-Line Traveler Guidance AFD

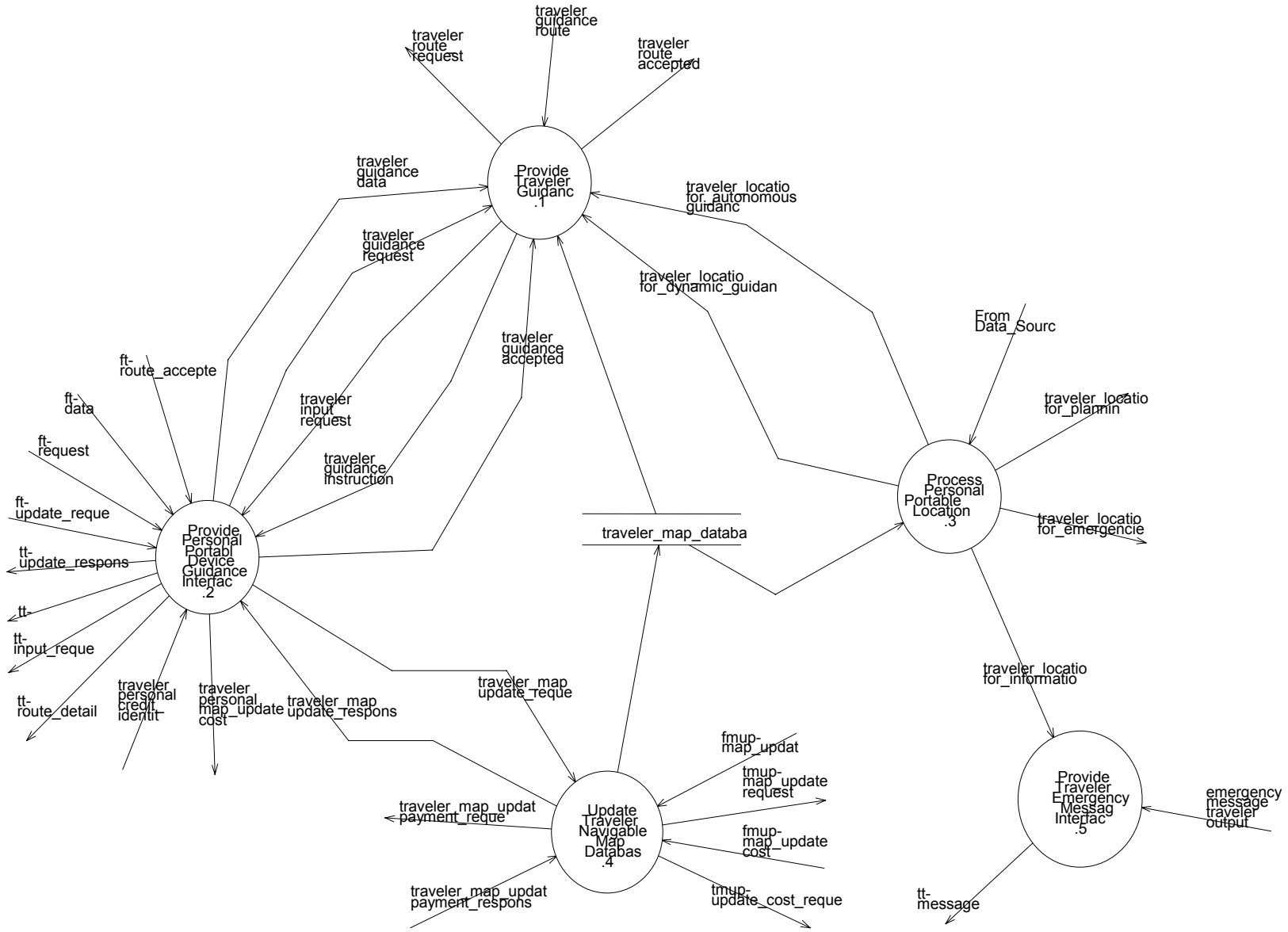

Figure F.48 – Provide Traveler Guidance AFD

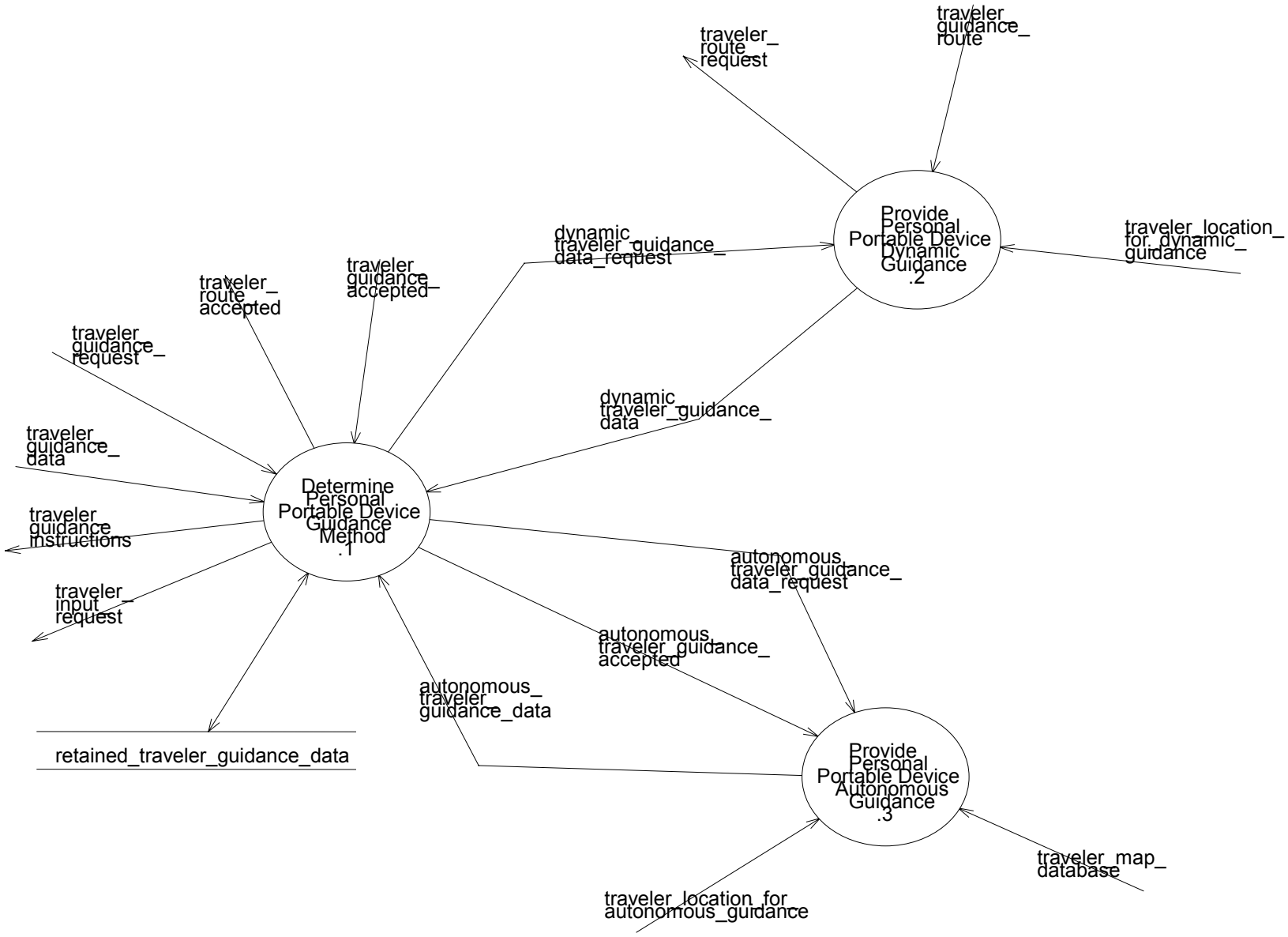

Figure F.49 – Provide Traveler Services at Personal Devices AFD

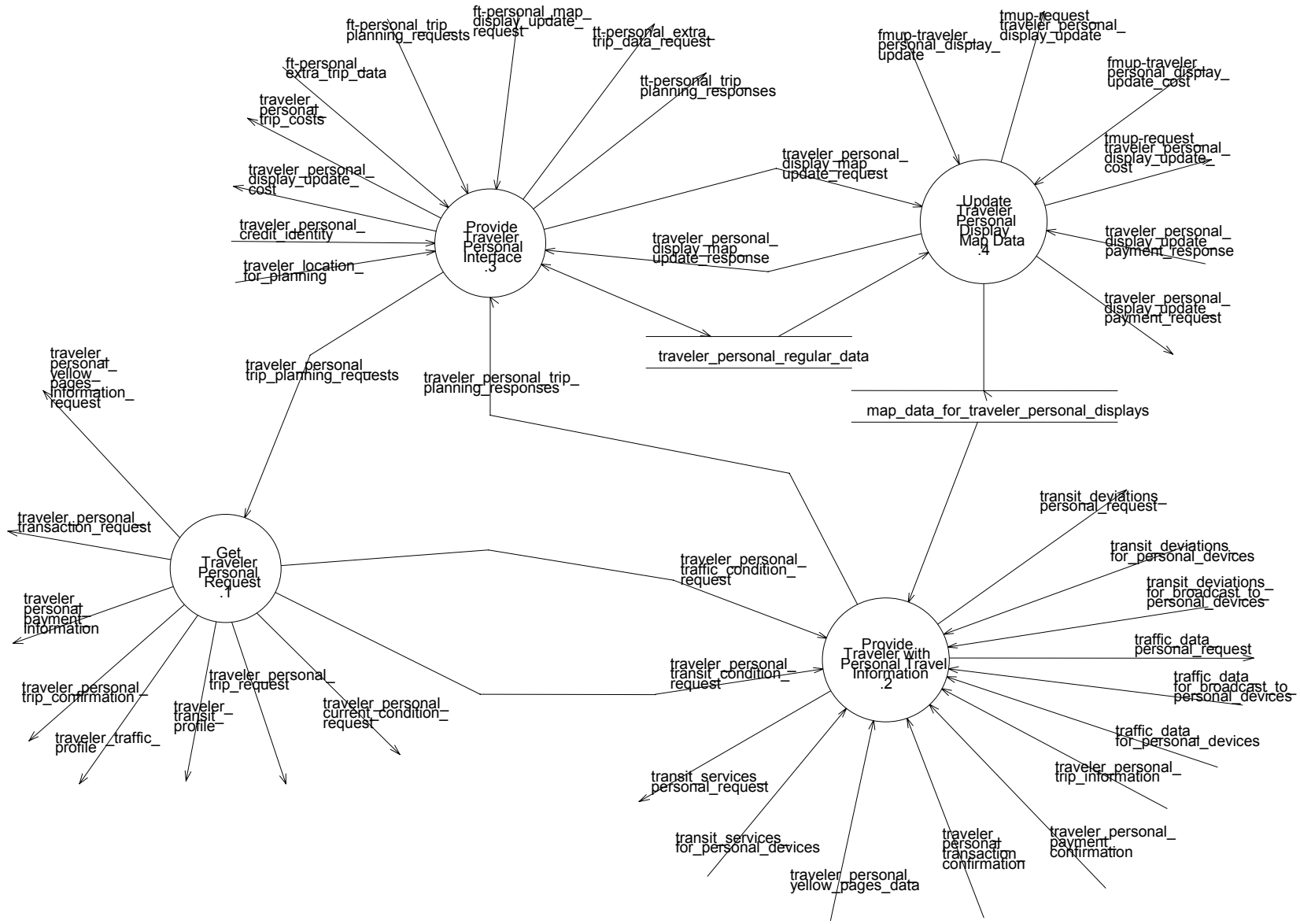

Figure F.50 – Provide Electronic Payment Services AFD

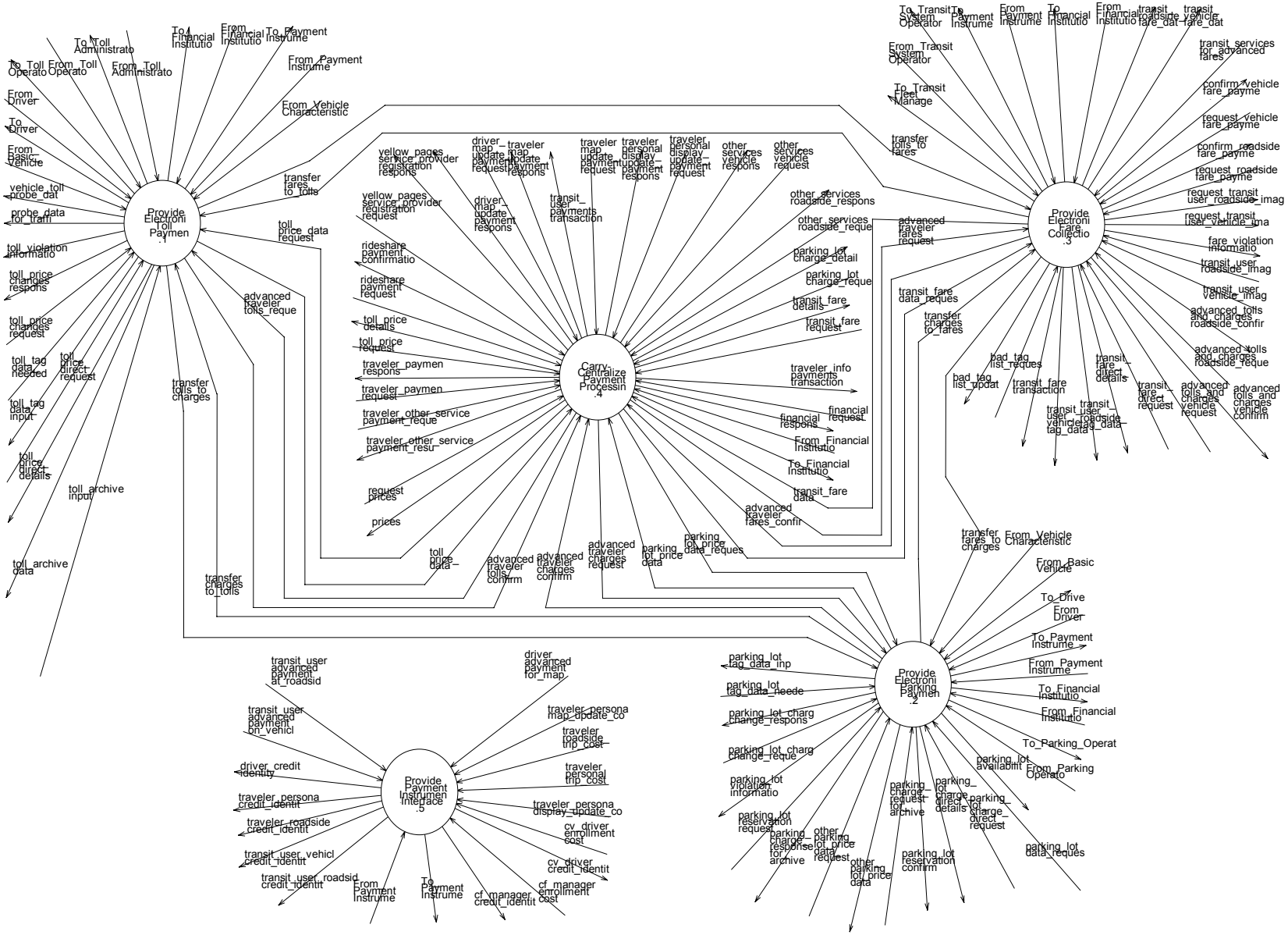

Figure F.51 – Provide Electronic Toll Payment AFD

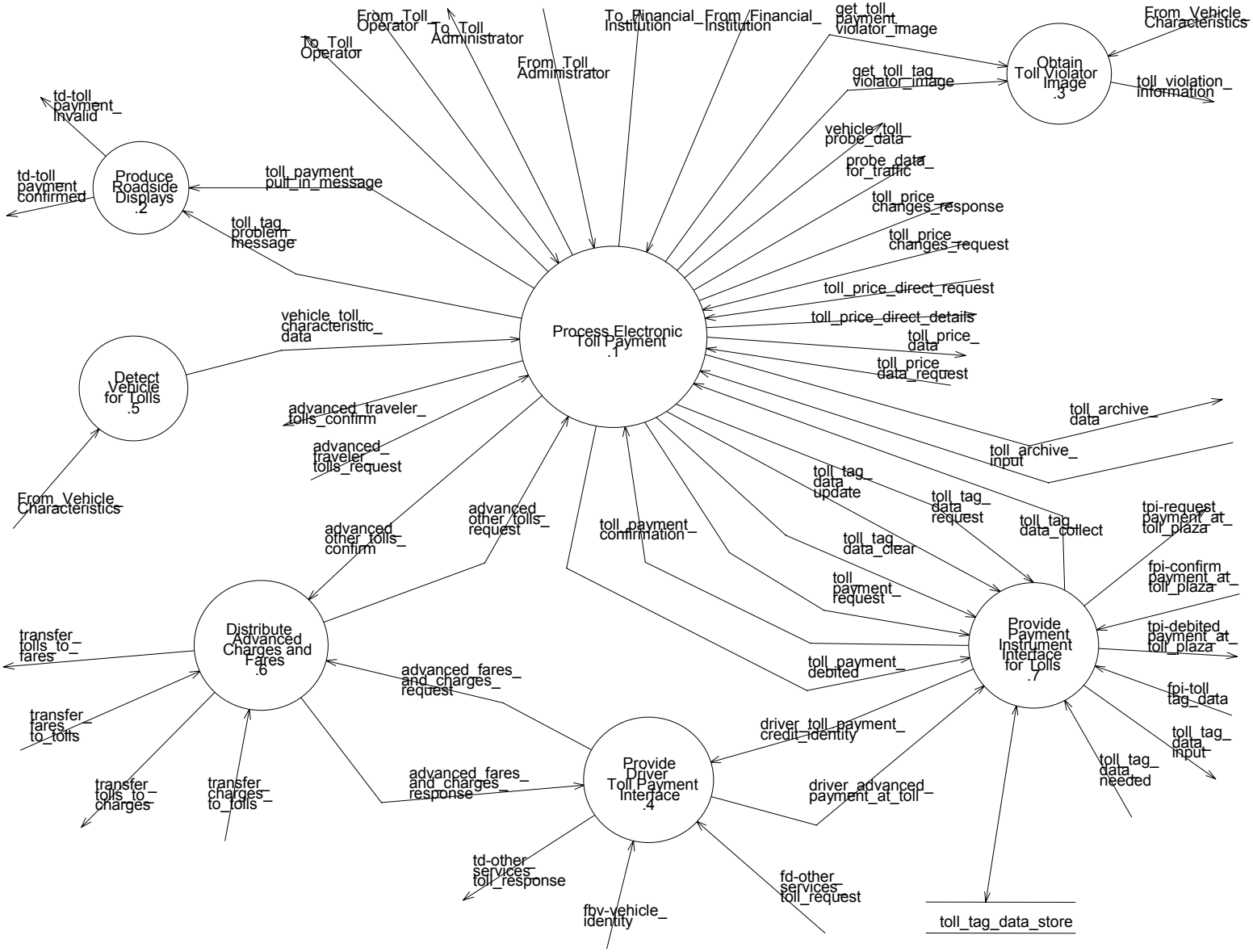

Figure F.52 – Process Electronic Toll Payment AFD

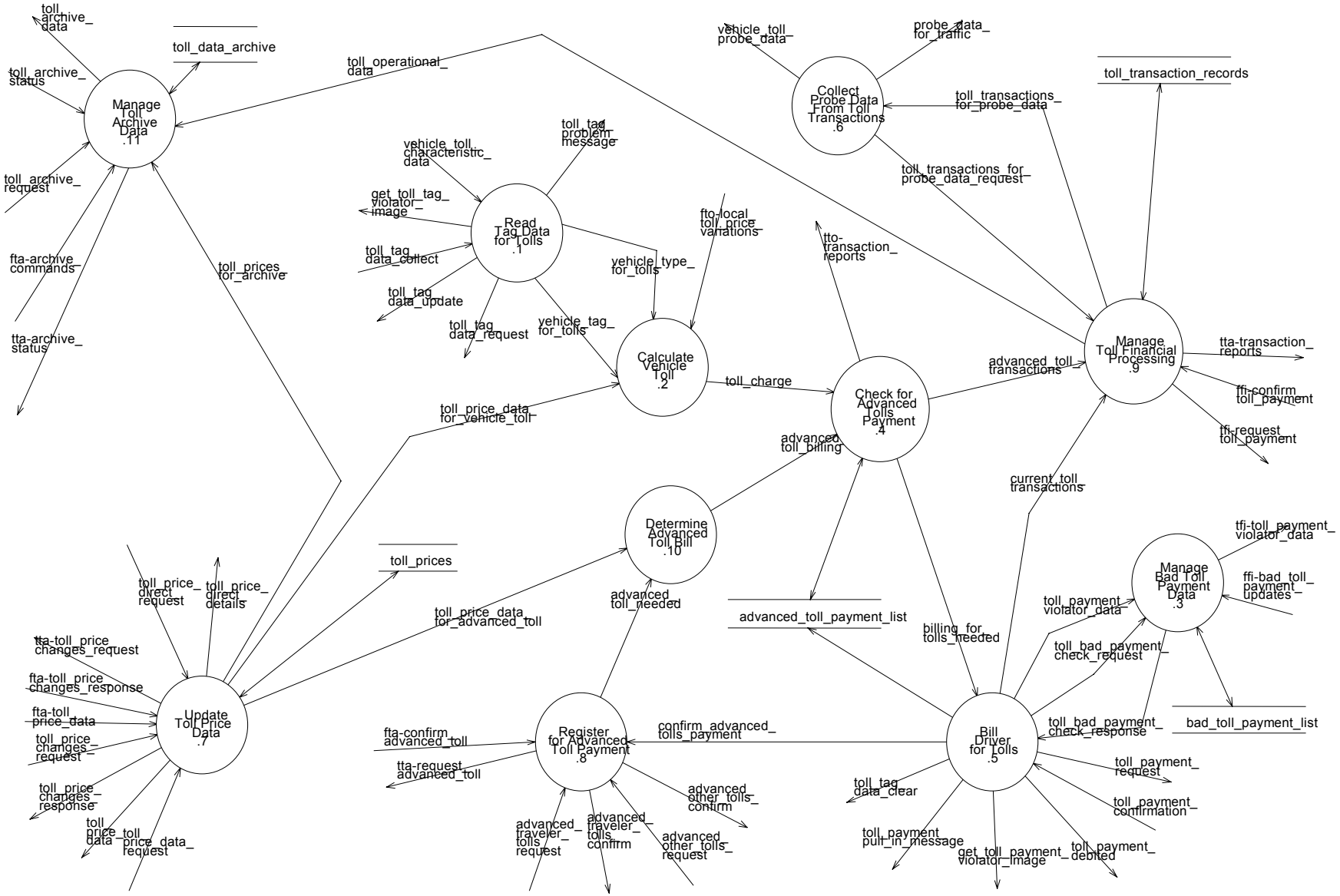

Figure F.53 – Provide Electronic Fare Collection AFD

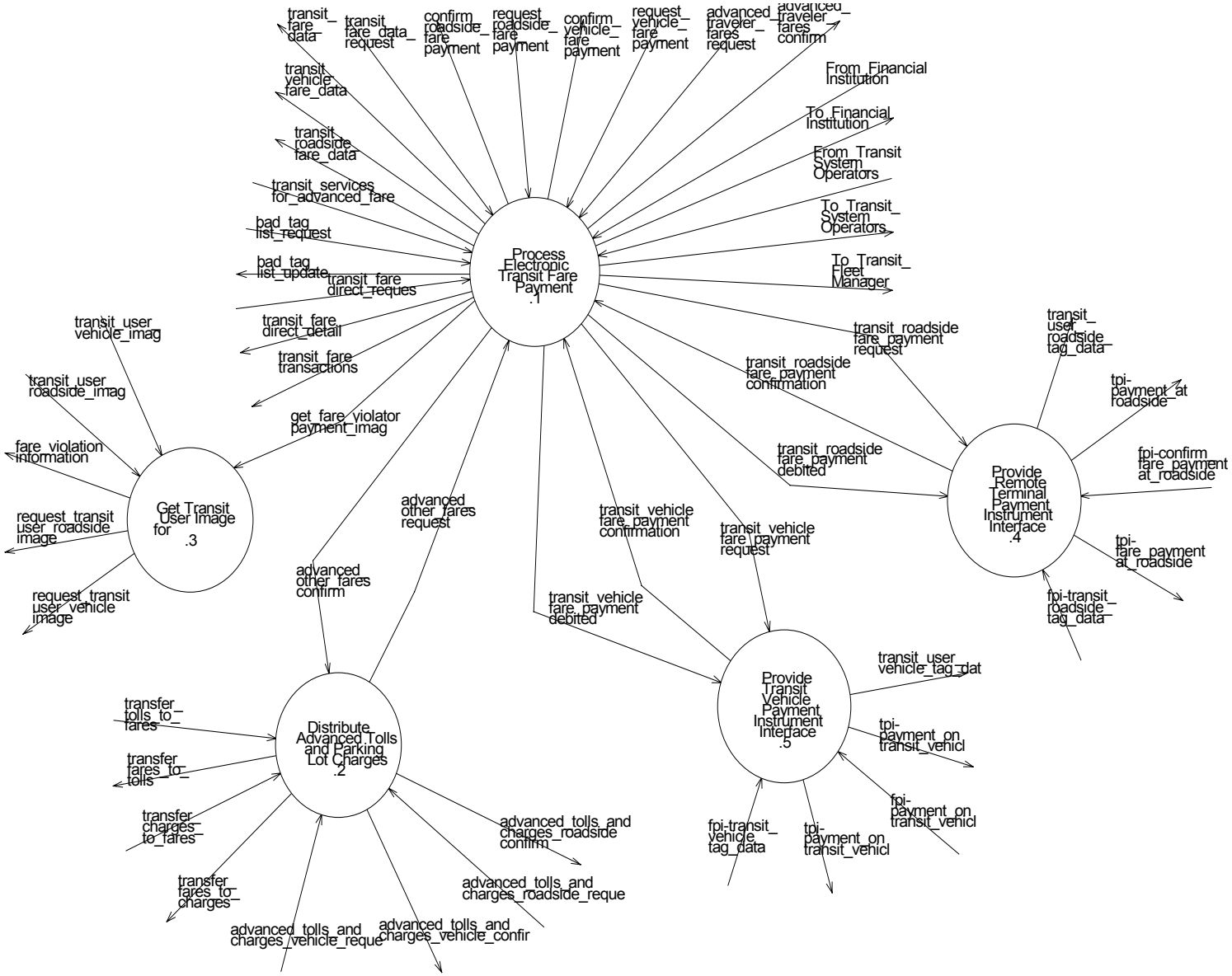

Figure F.54 – Evacuation Coordination AFD

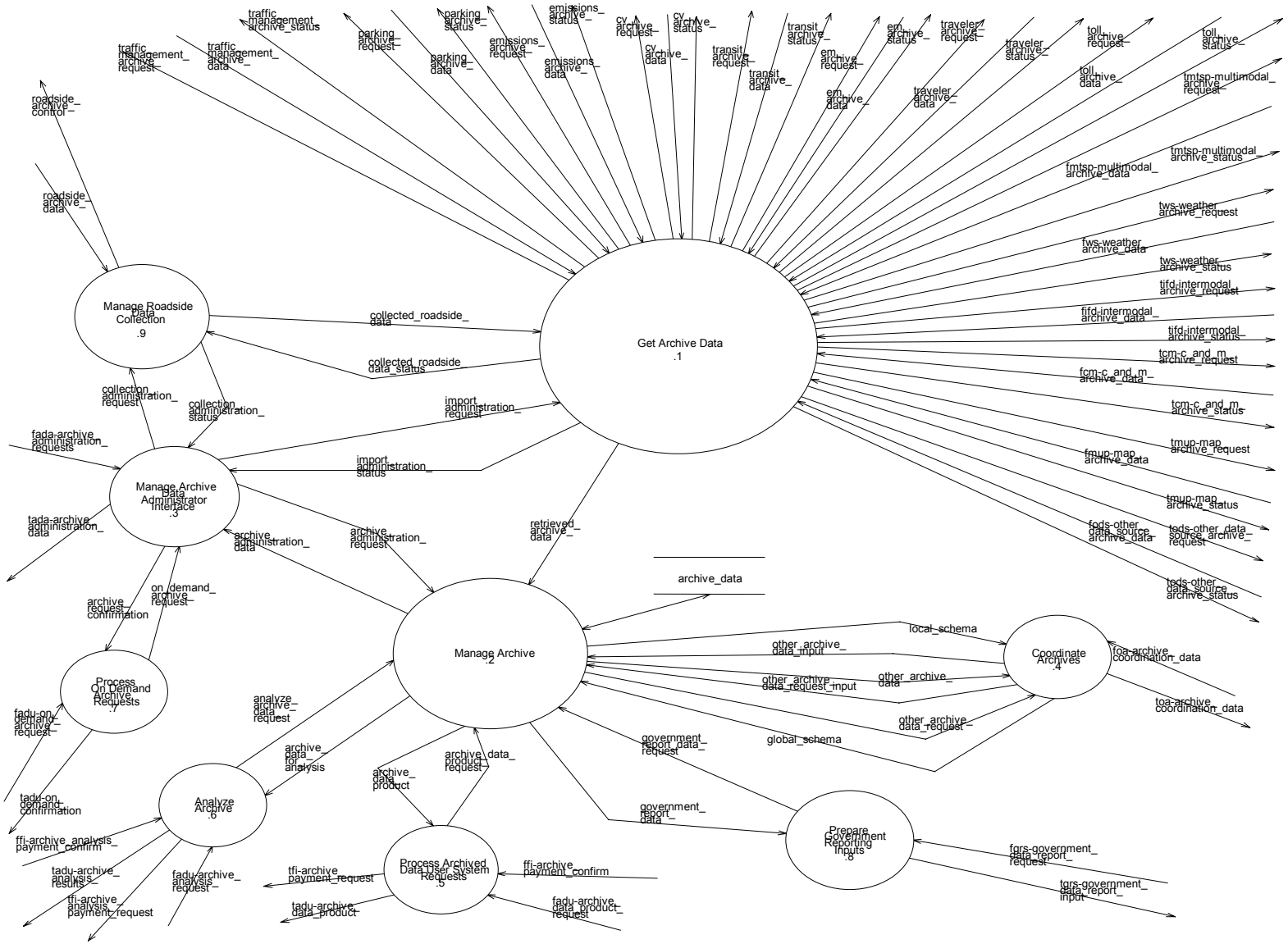

Figure F.55 – Evacuation Coordination AFD