

# Oklahoma Statewide Intelligent Transportation Systems (ITS) Architecture

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**Oklahoma  
Department of  
Transportation**

*In Coordination With:*



**U.S. Department of  
Transportation**



**March 2003**



# Oklahoma Statewide Intelligent Transportation Systems Architecture

**March 2003**

*Submitted to:*



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## 1. Introduction

The purpose of this report is to define the ITS Architecture for the State of Oklahoma. The Statewide ITS Architecture is based on the National ITS Architecture. The architecture consists of five systems: Regional Traffic Management System (RTMS), Local Traffic Operations System (LTOS), Local Emergency Response System (LERS), Transit Management System (TRMS), and Information Service Providers (ISP). The five systems are interrelated and contain subsystems that can also be interconnected within each system.

The architecture defines "how" information is transferred between transportation systems (Communication Layer), what transportation systems transfer what information (Transportation Layer), and the supporting institutional structure, policy and strategies (Institutional Layer) so that the desired user services are implemented.

Subsystems, composed of equipment packages, are the foundation of the physical architecture. The physical architecture forms a high-level structure around the processes and data flows in the logical architecture. The physical architecture defines the physical entities (Subsystems and Terminators) that make up an intelligent transportation system. The physical architecture defines the Architecture Flows that connect the various Subsystems and Terminators into an integrated system. Equipment packages implement transportation services and architecture flows allowing the exchange of information between the subsystems and terminators within the state. A related element of the architecture is market packages. A market package is a collection of equipment packages and architecture flows grouped together that implement a transportation service.

This document consists of three main sections: introduction, summary of the existing ITS elements in the state, and the Statewide architecture. The architecture chapter defines the physical architecture subdivided into the three layers (transportation, institutional and communications).

## 2. Ideal ITS Components for Oklahoma

The stakeholder involvement process conducted throughout the state of Oklahoma identified numerous elements of the ITS architecture that are ideal. These elements are listed in the table below in reference to their corresponding stakeholder.

**Table 1: Stakeholder Mapped to Element Name**

Stakeholder Name	Element Name
OHP	Oklahoma Highway Patrol
OHP	Oklahoma Highway Patrol_Personnel
OHP	Emergency Vehicles
Oklahoma Transportation Authority	Oklahoma Transportation Authority_Personnel
Oklahoma Transportation Authority	Oklahoma Transportation Authority_Roadside Equipment
Oklahoma Transportation Authority	Oklahoma Transportation Authority

Oklahoma Department of Civil Emergency Management	Information Center
ODOT	Statewide Transportation Information Center_Kiosks
ODOT	Statewide Transportation Information Center_Roadside Equipment
Oklahoma Corporation Commission	Oklahoma CVIEW
ODOT	Statewide Transportation Information Center
ODOT	Maintenance Field Devices
ODOT	Maintenance Vehicles
ODOT	Statewide Transportation Information Center_Personnel
ODOT	ODOT Division Information Centers
ODOT Division 4	Oklahoma City RTMC
ODOT Division 8	Tulsa RTMC
MPOs	INCOG Archive
MPOS	ACOG Archive

### 3. Development of the Statewide ITS Architecture

#### 3.1 Conformity with the ITS National Architecture

The Oklahoma Statewide architecture must conform to federal guidelines, if agencies wish to remain eligible for Federal funds to support ITS projects.

Certain outcomes are required by the Rule at the planning level. The following section is organized to indicate the rule language in italics, with interpretation following. The NIA Rule reference number is also noted.

*Rule: The regional ITS architecture shall include, at a minimum, the following (940.9(d)):*

- 1. A description of the region (940.9(d)(1));*

The rule defines a region as the geographical area that identifies the boundaries of the regional ITS architecture and is defined by and based on the needs of the participating agencies and other stakeholders.

The regional description for this project is the entire state of Oklahoma.

*Rule: 2. Identification of participating agencies and other stakeholders (940.9(d)(2));*

All agencies contacted, and if pertinent, those contacted that did not respond may be listed. The stakeholder interviews are included in the Appendix of the Oklahoma Statewide ITS Strategic Plan.

*Rule: 3. An operational concept that identifies the roles and responsibilities of participating agencies and stakeholders in the operation and implementation of the systems included in the regional ITS architecture (940.9(d)(3)).*

An operational concept identifies the who, what, when and where of integrated operations. This architecture includes an Institutional layer which defines portions of the concept of operations. The overall concept of operations is supplied in the Oklahoma Statewide ITS Strategic Plan.



*Rule: 4. Any agreements (existing or new) required for operations, including at a minimum those affecting ITS project interoperability, utilization of ITS related standards, and the operation of the projects identified in the regional ITS architecture (940.9(d)(4));*

Currently, no agreements have been identified as specifically required by the Statewide ITS Architecture. Often, the architecture itself constitutes the agreement between agencies to integrate and operate together. Funding agreements for capital or operations funding, data privacy agreements, and operations agreements can sometimes be required. With the exception of funding agreements, many regions find that they can integrate and operate together without written agreements. There was a Memorandum of Understanding Signed for the Statewide ITS Strategic Plan.

*Rule: 5. System functional requirements (940.9(d)(5));*

This architecture provides planning level system functional requirements, based on the user service requirements.

*Rule: 6. Interface requirements and information exchanges with planned and existing systems and subsystems (for example, subsystems and architecture flows as defined in the National ITS Architecture) (940.9(d)(6));*

All selected market package data flows and system interface requirements have been identified and referenced to the National ITS Architecture.

*Rule: 7. Identification of ITS standards supporting regional and national interoperability (940.9(d)(7));*

Each data flow identified is connected to a supporting standard, if one exists. The standards will support regional and national systems interoperability. Some of the standards may become USDOT-adopted “critical” standards that specifically support national interoperability. As of this writing, there are no critical standards currently adopted by USDOT. If USDOT does adopt any standards, they will require that they be implemented on Federally-funded ITS projects.

*Rule: 8. The sequence of projects required for implementation (940.9(d)(8)).*

The Oklahoma Statewide ITS Implementation plan will identify any required sequencing. The NIA Rule emphasizes that the region ensure that projects be implemented in a logical sequence. For example, a communications backbone may be required before field devices can be connected.

*Rule: 9. The agencies and other stakeholders participating in the development of the regional ITS architecture shall develop and implement procedures and responsibilities for maintaining it, as needs evolve within the region (940.9(f)).*

The region has yet to identify the roles and responsibilities for maintaining and updating the architecture. ODOT would be the likely agency with primary responsibility for architecture maintenance, to incorporate new proposals developed by existing or new partners, and to reflect changes that may develop as projects are implemented.

This document and other activities already completed by the state of Oklahoma are intended to conform to the requirements of the Rule on ITS Architecture Consistency.

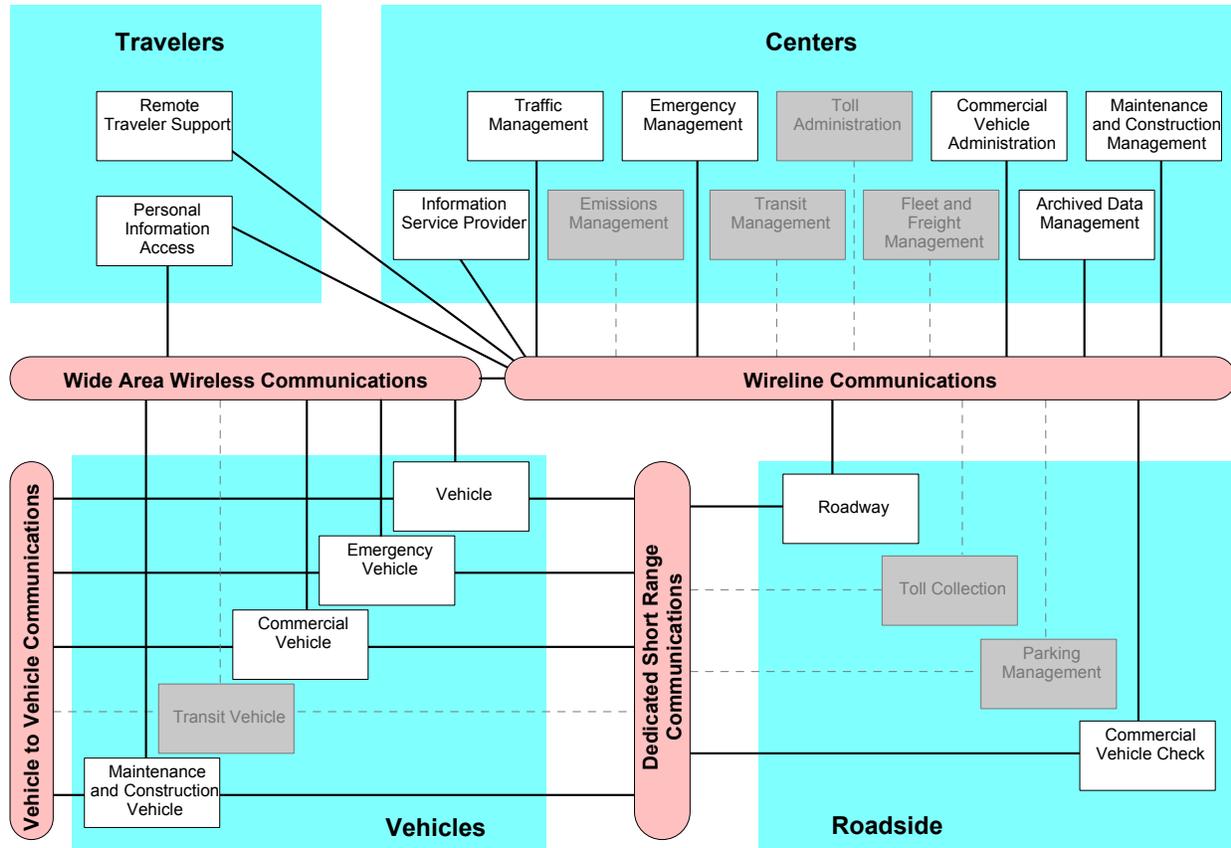
### **3.2 Physical Architecture**

This document describes the physical architecture for implementation of a Traffic Management System for the state of Oklahoma. It is based on the National ITS Architecture providing a common framework for planning, defining, and integrating intelligent transportation systems. The architecture defines:

- The functions (e.g., gather traffic information or request a route) that are required for ITS; and
- The physical entities or subsystems where these functions reside (e.g., the roadside or the vehicle).

The Physical Architecture provides agencies with a physical representation, independent of technology and design, of important ITS interfaces and major system components. Its principal elements are the 21 subsystems, the related communications flows that connect these subsystems, and the terminators that demarcate the subsystems. A physical architecture takes the processes and assigns them to subsystems. In addition, the data flows are grouped together into architecture flows. These architecture flows and their communication requirements define the interfaces required between subsystems, which form the basis for much of the ongoing standards work in the National ITS program. The architecture flows which were selected for the Statewide Architecture are provided in Appendix A of this report. The figure below depicts a high level physical architecture identifying the subsystems involved in the statewide architecture. The subsystems that are in gray were not selected for this architecture.

Figure 1: Oklahoma Statewide ITS Architecture Sausage Diagram



### 3.2.1 Subsystems and Terminators

The following describes in detail the subsystems and terminators that are relevant to the statewide ITS architecture depicted in Figure 1.

#### Archived Data Management Subsystem (ADMS) Represented by INCOG, ACOG, ODOT

The Archived Data Management Subsystem collects, archives, manages, and distributes data generated from ITS sources for use in transportation administration, policy evaluation, safety, planning, performance monitoring, program assessment, operations, and research applications. The data received is formatted, tagged with attributes that define the data source, conditions under which it was collected, data transformations, and other information (i.e. meta data) necessary to interpret the data. The subsystem can fuse ITS generated data with data from non-ITS sources and other archives to generate information products utilizing data from multiple functional areas, modes, and jurisdictions. The subsystem prepares data products that can serve as inputs to Federal, State, and local data reporting systems. This subsystem may be implemented in many different ways. It may reside within an operational center and provide focused access to a particular agency's data archives. Alternatively, it may operate as a distinct center that collects data from multiple agencies and sources and provides a general virtual data warehouse service for a region.

Commercial Vehicle Administration Represented by OCC, OTA, DPS, and ODOT

The Commercial Vehicle Administration Subsystem will operate at one or more fixed locations within a region. This subsystem performs administrative functions supporting credentials, tax, and safety regulations. It issues credentials, collects fees and taxes, and supports enforcement of credential requirements. This subsystem communicates with the Fleet Management Subsystems associated with the motor carriers to process credentials applications and collect fuel taxes, weight/distance taxes, and other taxes and fees associated with commercial vehicle operations. The subsystem also receives applications for, and issues special Oversize/Overweight and HAZMAT permits in coordination with other cognizant authorities. The subsystem coordinates with other Commercial Vehicle Administration Subsystems (in other states/regions) to support nationwide access to credentials and safety information for administration and enforcement functions. This subsystem supports communications with Commercial Vehicle Check Subsystems operating at the roadside to enable credential checking and safety information collection. The collected safety information is processed, stored, and made available to qualified stakeholders to identify carriers and drivers that operate unsafely.

Commercial Vehicle Check

The Commercial Vehicle Check Subsystem supports automated vehicle identification at mainline speeds for credential checking, roadside safety inspections, and weigh-in-motion using two-way data exchange. These capabilities include providing warnings to the commercial vehicle drivers, their fleet managers, and proper authorities of any safety problems that have been identified, accessing and examining historical safety data, and automatically deciding whether to allow the vehicle to pass or require it to stop with operator manual override. The Commercial Vehicle Check Subsystem also provides supplemental inspection services to current capabilities by supporting expedited brake inspections, the use of operator hand-held devices, on-board safety database access, and the enrollment of vehicles and carriers in the electronic clearance program.

Commercial Vehicle Subsystem

This subsystem resides in a commercial vehicle and provides the sensory, processing, storage, and communications functions necessary to support safe and efficient commercial vehicle operations. The Commercial Vehicle Subsystem provides two-way communications between the commercial vehicle drivers, their fleet managers, and roadside officials, and provides HAZMAT response teams with timely and accurate cargo contents information after a vehicle incident. This subsystem provides the capability to collect and process vehicle, cargo, and driver safety data and status and alert the driver whenever there is a potential safety problem. Basic identification and safety status data are supplied to inspection facilities at mainline speeds. In addition, the subsystem will automatically collect and record mileage, fuel usage, and border crossings.

Emergency Management Subsystem (EM) Represented by Oklahoma Highway Patrol and ODCEM

The Emergency Management Subsystem operates in various emergency centers supporting public safety including police and fire stations, search and rescue special detachments, and HAZMAT response teams. This subsystem interfaces with other Emergency Management Subsystems to support coordinated emergency response involving multiple agencies. The subsystem creates, stores, and utilizes emergency response plans to facilitate coordinated response. The subsystem tracks and manages emergency vehicle fleets using automated vehicle location technology and two way communications with the vehicle fleet. Real-time traffic information received from the other center subsystems is used to further aide the emergency dispatcher in selecting the emergency vehicle(s) and routes that will provide the most timely response. Interface with the Traffic Management Subsystem allows strategic coordination in

tailoring traffic control to support en-route emergency vehicles. Interface with the Transit Management Subsystem allows coordinated use of transit vehicles to facilitate response to major emergencies.

#### Emergency Vehicle Subsystem

This subsystem resides in an emergency vehicle and provides the sensory, processing, storage, and communications functions necessary to support safe and efficient incident response. The subsystem represents a range of vehicles including those operated by police, fire, and emergency medical services. In addition, this subsystem represents other incident response vehicles including towing and recovery vehicles and freeway service patrols. The Emergency Vehicle Subsystem includes two-way communications to support coordinated response to emergencies in accordance with an associated Emergency Management Subsystem. Emergency vehicles are equipped with automated vehicle location capability for monitoring by vehicle tracking and fleet management functions in the Emergency Management Subsystem. Using these capabilities, the appropriate emergency vehicle to respond to each emergency is determined. Route guidance capabilities within the vehicle enable safe and efficient routing to the emergency. In addition, the emergency vehicle may be equipped to support signal preemption through communications with the Roadway Subsystem.

#### Information Service Provider Subsystem (ISP) Represented by ODOT

The ISP is also its own system containing twelve subsystems. The ISP communicates with each LTOS, LERS, TRMS and the RTMS individually to disseminate transportation information pertaining to system operators and the public. The ISP plays many roles in the transfer of information. Dynamic ridesharing is included as one of the twelve subsystems. ODOT, local traffic management agencies and transit agencies may act as ISPs. However, private entities will also be ISPs in the future.

#### Traffic Management Subsystem (TMS) Represented by ODOT and Local Traffic Operations

The Traffic Management Subsystem operates within a traffic management center or other fixed location. This subsystem communicates with the Roadway Subsystem to monitor and manage traffic flow. Incidents are detected and verified and incident information is provided to the Emergency Management Subsystem, travelers (through Roadway Subsystem Highway Advisory Radio and Dynamic Message Signs), and to third party providers. The subsystem supports HOV lane management and coordination, road pricing, and other demand management policies that can alleviate congestion and influence mode selection. The subsystem monitors and manages maintenance work and disseminates maintenance work schedules and road closures. The subsystem also manages reversible lane facilities, and processes probe vehicle information. The subsystem communicates with other Traffic Management Subsystems to coordinate traffic information and control strategies in neighboring jurisdictions. It also coordinates with rail operations to support safer and more efficient highway traffic management at highway-rail intersections. Finally, the Traffic Management Subsystem provides the capabilities to exercise control over those devices utilized for automated highway system (AHS) traffic and vehicle control.

#### Roadway Subsystem (RS) Represented by Local Traffic Operations and ODOT

The Roadway subsystem includes the equipment distributed on and along the roadway, which monitors and controls traffic. Equipment includes highway advisory radios, dynamic message signs, cellular call boxes, CCTV cameras and video image processing systems for incident detection and verification, vehicle detectors, traffic signals, grade crossing warning systems and freeway ramp metering systems. The subsystem also provides the capability for emissions and environmental condition monitoring including weather sensors, pavement icing sensors, fog, etc.

HOV lane management and reversible lane management functions are also available. In advanced implementations, this subsystem supports automated vehicle safety systems by safely controlling access to and egress from an Automated Highway System (AHS) through monitoring of and communications with AHS vehicles. Intersection collision avoidance functions are provided by determining the probability of a collision in the intersection and sending appropriate warnings and/or control actions to the approaching vehicles.

#### Personal Information Access Subsystem (PIAS) Represented by Travelers

This subsystem provides the capability for travelers to receive formatted traffic advisories from their homes, place of work, major trip generation sites, personal portable devices, and over multiple types of electronic media. These capabilities shall also provide basic routing information and allow users to select those transportation modes that allow them to avoid congestion, or more advanced capabilities to allow users to specify those transportation parameters that are unique to their individual needs and receive travel information. This subsystem shall provide capabilities to receive route planning from the infrastructure at fixed locations such as in their homes, their place of work, and at mobile locations such as from personal portable devices and in the vehicle or perform the route planning process at a mobile information access location. This subsystem shall also provide the capability to initiate a distress signal and cancel a prior issued manual request for help.

#### Maintenance and Construction Management Represented by ODOT

This subsystem resides in a maintenance, construction, or other specialized service vehicles or equipment and provides the sensory, processing, storage, and communications functions necessary to support highway maintenance and construction. All types of maintenance and construction vehicles are covered, including heavy equipment and supervisory vehicles. The subsystem provides two-way communications between drivers/operators and dispatchers and maintains and communicates current location and status information. A wide range of operational status is monitored, measured, and made available, depending on the specific type of vehicle or equipment. For example, for a snow plow, the information would include whether the plow is up or down and material usage information. The subsystem may also contain capabilities to monitor vehicle systems to support maintenance of the vehicle itself and other sensors that monitor environmental conditions including the road condition and surface weather information. This subsystem can represent a diverse set of mobile environmental sensing platforms, including wheeled vehicles and any other vehicle that collects and reports environmental information.

#### Maintenance and Construction Vehicle

This subsystem resides in maintenance, construction, or other specialized service vehicles or equipment and provides the sensory, processing, storage, and communications functions necessary to support highway maintenance and construction. All types of maintenance and construction vehicles are covered, including heavy equipment and supervisory vehicles. The subsystem provides two-way communications between drivers/operators and dispatchers and maintains and communicates current location and status information. A wide range of operational status is monitored, measured, and made available, depending on the specific type of vehicle or equipment. For example, for a snow plow, the information would include whether the plow is up or down and material usage information. The subsystem may also contain capabilities to monitor vehicle systems to support maintenance of the vehicle itself and other sensors that monitor environmental conditions including the road condition and surface weather information. This subsystem can represent a diverse set of mobile environmental sensing platforms, including wheeled vehicles and any other vehicle that collects and reports environmental information.

### Remote Traveler Support

This subsystem provides access to traveler information at transit stations, transit stops, other fixed sites along travel routes (e.g., rest stops, merchant locations), and at major trip generation locations such as special event centers, hotels, office complexes, amusement parks, and theaters. Traveler information access points include kiosks and informational displays supporting varied levels of interaction and information access. At transit stops, simple displays providing schedule information and imminent arrival signals can be provided. This basic information may be extended to include multi-modal information including traffic conditions and transit schedules along with yellow pages information to support mode and route selection at major trip generation sites. Personalized route planning and route guidance information can also be provided based on criteria supplied by the traveler. In addition to traveler information provision, this subsystem also supports public safety monitoring using CCTV cameras or other surveillance equipment and emergency notification within these public areas. Fare card maintenance, and other features which enhance traveler convenience may also be provided at the discretion of the deploying agency.

### Vehicle

This subsystem provides the sensory, processing, storage, and communications functions necessary to support efficient, safe, and convenient travel. These functions reside in general vehicles including personal automobiles, commercial vehicles, emergency vehicles, transit vehicles, or other vehicle types. Information services provide the driver with current travel conditions and the availability of services along the route and at the destination. Both one-way and two-way communications options support a spectrum of information services from low-cost broadcast services to advanced, pay for use personalized information services. Route guidance capabilities assist in formulation of an optimal route and step by step guidance along the travel route. Advanced sensors, processors, enhanced driver interfaces, and actuators complement the driver information services so that, in addition to making informed mode and route selections, the driver travels these routes in a safer and more consistent manner. Initial collision avoidance functions provide “vigilant co-pilot” driver warning capabilities. More advanced functions assume limited control of the vehicle to maintain safe headway. Ultimately, this subsystem supports completely automated vehicle operation through advanced communications with other vehicles in the vicinity and in coordination with supporting infrastructure subsystems. Pre-crash safety systems are deployed and emergency notification messages are issued when unavoidable collisions do occur.

The table below maps the subsystems shown above to their respective architecture elements

**Table 2: Subsystem Mapped to Element**

Entity Kind	Subsystem Name	Element Name
Subsystem	Archived Data Management Subsystem	Oklahoma Division Information Centers
		Oklahoma City RTMC
		Oklahoma Transportation Authority
		Statewide Transportation Information Center
		MPOs (INCOG, ACOG)
		Tulsa RTMC
	Commercial Vehicle Administration Commercial Vehicle Check	Oklahoma CVIEW
		Statewide Transportation Information Center
		Oklahoma Inspection Facility
	Commercial Vehicle Subsystem	Commercial Vehicles
	Emergency Management	Oklahoma Department of Civil Emergency Management Center
		Oklahoma Highway Patrol
	Emergency Vehicle Subsystem	Emergency Vehicles
	Information Service Provider	Oklahoma Division Information Centers
		Oklahoma City RTMC
		Statewide Transportation Information Center
		Tulsa RTMC
	Maintenance and Construction Management	Statewide Transportation Information Center
	Maintenance and Construction Vehicle	Maintenance Vehicles
	Personal Information Access	User Personal Computing Devices
	Remote Traveler Support	Statewide Transportation Information Center_Kiosks
	Roadway Subsystem	Maintenance Field Devices
		Oklahoma Division Information Centers Roadside Equipment
		Oklahoma City RTMC_Roadside Equipment
		Statewide Transportation Information Center_Roadside Equipment
		Tulsa RTMC_Roadside Equipment
	Toll Facilities Traffic Management	Oklahoma Transportation Authority_Roadside Equipment
	Traffic Management	Oklahoma Division Information Centers
Oklahoma City RTMC		
Statewide Transportation Information Center		
Tulsa RTMC		
Vehicle	Vehicles	



*Terminators*

CVO Inspector

This terminator represents the human entities who perform regulatory inspection of Commercial Vehicles in the field. CVO Inspectors support the roadside inspection, weighing, and checking of credentials either through automated pre-clearance or manual methods. The CVO Inspector is an inspection and enforcement arm of the regulatory agencies with frequent direct interface with the Commercial Vehicles and their Drivers.

Emergency System Operator

This terminator represents the human entity that monitors all ITS emergency requests, (including those from the E911 Operator) and sets up pre-defined responses to be executed by an emergency management system. The operator may also override predefined responses where it is observed that they are not achieving the desired result. This terminator includes dispatchers who manage an emergency fleet (police, fire, ambulance, HAZMAT, etc.) or higher order emergency managers who provide response coordination during emergencies.

ISP Operator

This terminator is the human entity that may be physically present at the ISP to monitor the operational status of the facility and provide human interface capabilities to travelers and other ISP subsystems.

Other Archives

This terminator represents distributed archived data systems or centers whose data can be accessed and shared with a local archive. The interface between the Other Archives Terminator and the Archived Data Management Subsystem allows data from multiple archives to be accessed on demand or imported and consolidated into a single repository.

Other CVAS

This terminator is intended to provide a source and destination for ITS data flows between peer (e.g. inter-regional) commercial vehicle administration functions. It enables commercial vehicle administration activities to be coordinated across different jurisdictional areas. In the Physical Architecture, this terminator is a reciprocal Commercial Vehicle Administration Subsystem (CVAS). This terminator encompasses all functions associated with commercial vehicle safety, registration, and operating authority for non-U.S. based commercial motor vehicle carriers. The agencies represented herein may include Federal, state, provincial, and local regulatory entities outside the U.S.

Other EM

Representing other Emergency Management centers, systems or subsystems, this terminator provides a source and destination for ITS data flows between various communications centers operated by public safety agencies as well as centers operated by other allied agencies and private companies that participate in coordinated management of highway-related incidents. The interface represented by this terminator enables emergency management activities to be coordinated across jurisdictional boundaries and between functional areas. In the Physical Architecture this terminator is a reciprocal Emergency Management Subsystem (EM) implying the requirements for general networks connecting many allied agencies. The interface between this terminator and the EM supports coordination of incident management information between many different centers providing Public Safety Answering Point (both public or private sector implementations), Public Safety Dispatch, Emergency Operations, and other functions that participate in the detection, verification, response, and clearance of highway incidents. This

terminator also supports interface to other allied agencies like utility companies that also participate in the coordinated response to selected highway-related incidents.

Other ISP

Representing other distinct Information Service Providers, this terminator is intended to provide a source and destination for ITS data flows between peer information and service provider functions. It enables cooperative information sharing between providers as conditions warrant. In the Physical Architecture this terminator is a reciprocal Information Service Provider (ISP) Subsystem.

Other Roadway

Representing another roadway system or subsystem, this terminator provides a source and destination for information that may be exchanged between peer roadway subsystems. The interface to this terminator enables direct coordination between field equipment. Examples include the direct interface between sensors and other roadway devices (e.g., Dynamic Message Signs) and the direct interface between roadway devices (e.g., adjacent traffic control equipment).

Other TM

Representing another Traffic Management center, system or subsystem, this terminator is intended to provide a source and destination for ITS data flows between peer (e.g. inter-regional) traffic management functions. It enables traffic management activities to be coordinated across different jurisdictional areas. In the Physical Architecture this terminator is a reciprocal Traffic Management Subsystem (TMS).

Traffic Operations Personnel

This terminator represents the human entity that directly interfaces with vehicle traffic operations. These personnel interact with traffic control systems, traffic surveillance systems, incident management systems, work zone management systems, and travel demand management systems to accomplish ITS services. They provide operator data and command inputs to direct systems' operations to varying degrees depending on the type of system and the deployment scenario. All functionality associated with these services that might be automated in the course of ITS deployment is modeled as internal to the architecture.

Weather Service

This terminator provides weather, hydrologic, and climate information and warnings of hazardous weather including thunderstorms, flooding, hurricanes, tornadoes, winter weather, tsunamis, and climate events. It provides atmospheric weather observations and forecasts that are collected and derived by the National Weather Service, private sector providers, and various research organizations. The interface provides formatted weather data products suitable for on-line processing and integration with other ITS data products as well as Doppler radar images, satellite images, severe storm warnings, and other products that are formatted for presentation to various ITS users.

The table below maps the terminators shown above to their respective architecture elements.

**Table 3: Terminator Mapped to Element**

Entity Kind	Terminator Name	Element Name
Terminator	CVO Inspector	CVO Inspector
	Emergency System Operator	Oklahoma Highway Patrol_Personnel
	ISP Operator	Local TOCs_Personnel
		Oklahoma City RTMC_Personnel
		Statewide Transportation Information Center_Personnel
		Tulsa RTMC_Personnel
	Other Archives	Local TOCs
		Oklahoma City RTMC
		Oklahoma Transportation Authority
		Statewide Transportation Information Center
		Tulsa RTMC
	Other CVAS	Oklahoma CVIEW
	Other ISP	Local TOCs
	Other Roadway	Local TOCs_Roadside Equipment
	Other TM	Local TOCs
	Toll Administrator	Oklahoma Transportation Authority_Personnel
	Traffic Operations Personnel	Local TOCs_Personnel
		Oklahoma City RTMC_Personnel
		Oklahoma Division Information Centers_Personnel
		Statewide Transportation Information Center_Personnel
Tulsa RTMC_Personnel		
Weather Service	Weather Services	

**3.2.2 Market Packages**

Market Packages provide an accessible, deployment oriented perspective to the national architecture. They provide the framework that links the subsystems and terminators to ensure a seamless transportation network. Market Packages identify the pieces of the Physical Architecture that are required to implement a particular transportation service. The following table lists the Market Packages that were selected for the State of Oklahoma.

**Table 4: Selected Market Packages**

<b>Market Package Name</b>	<b>Description</b>
AD1: ITS Data Mart	This market package provides a focused archive that houses data collected and owned by a single agency, district, private sector provider, research institution, or other organization. This focused archive typically includes data covering a single transportation mode and one jurisdiction that is collected from an operational data store and archived for future use. It provides the basic data quality, data privacy, and meta data management common to all ITS archives and provides general query and report access to archive data users.
AD2: ITS Data Warehouse	This market package includes all the data collection and management capabilities provided by the ITS Data Mart, and adds the functionality and interface definitions that allow collection of data from multiple agencies and data sources spanning across modal and jurisdictional boundaries. It performs the additional transformations and provides the additional meta data management features that are necessary so that all this data can be managed in a single repository with consistent formats. The potential for large volumes of varied data suggests additional on-line analysis and data mining features that are also included in this market package in addition to the basic query and reporting user access features offered by the ITS Data Mart.
AD3: ITS Virtual Data Warehouse	This market package provides the same broad access to multimodal, multidimensional data from varied data sources as in the ITS Data Warehouse Market Package, but provides this access using enhanced interoperability between physically distributed ITS archives that are each locally managed. Requests for data that are satisfied by access to a single repository in the ITS Data Warehouse Market Package are parsed by the local archive and dynamically translated to requests to remote archives which relay the data necessary to satisfy the request.
ATIS1: Broadcast Traveler Information	This market package collects traffic conditions, advisories, general public transportation, toll and parking information, incident information, air quality and weather information, and broadly disseminates this information through existing infrastructures and low cost user equipment (e.g., FM subcarrier, cellular data broadcast). The information may be provided directly to travelers or provided to merchants and other traveler service providers so that they can better inform their customers of travel conditions. Different from the market package ATMS6 - Traffic Information Dissemination, which provides localized HAR and DMS information capabilities, ATIS1 provides a wide area digital broadcast service. Successful deployment of this market package relies on availability of real-time traveler information from roadway instrumentation, probe vehicles or other sources.

Market Package Name	Description
ATMS01: Network Surveillance	This market package includes traffic detectors, other surveillance equipment, the supporting field equipment, and wireline communications to transmit the collected data back to the Traffic Management Subsystem. The derived data can be used locally such as when traffic detectors are connected directly to a signal control system or remotely (e.g., when a CCTV system sends data back to the Traffic Management Subsystem). The data generated by this market package enables traffic managers to monitor traffic and road conditions, identify and verify incidents, detect faults in indicator operations, and collect census data for traffic strategy development and long range planning. The collected data can also be analyzed and made available to users and the Information Service Provider Subsystem.
ATMS02: Probe Surveillance	This market package provides an alternative approach for surveillance of the roadway network. Two general implementation paths are supported by this market package: 1) wide-area wireless communications between the vehicle and Information Service Provider is used to communicate current vehicle location and status, and 2) dedicated short range communications between the vehicle and roadside is used to provide equivalent information directly to the Traffic Management Subsystem. The market package enables traffic managers to monitor road conditions, identify incidents, analyze and reduce the collected data, and make it available to users and private information providers. It requires one of the communications options identified above, roadside beacons and wireline communications for the short range communications option, data reduction software, and utilizes wireline links between the Traffic Management Subsystem and Information Service Provider Subsystem to share the collected information.
AMTS03: Surface Street Control	This market package provides the central control and monitoring equipment, communication links, and the signal control equipment that support local surface street control and/or arterial traffic management. A range of traffic signal control systems are represented by this market package ranging from static pre-timed control systems to fully traffic responsive systems that dynamically adjust control plans and strategies based on current traffic conditions and priority requests. Additionally, general advisory and traffic control information can be provided to the driver while en route. This market package is generally an intra-jurisdictional package that does not rely on real-time communications between separate control systems to achieve area-wide traffic signal coordination. Systems that achieve coordination across jurisdictions by using a common time base or other strategies that do not require real time coordination would be represented by this package. This market package is consistent with typical urban traffic signal control systems.
ATMS04: Freeway Control	This market package provides the communications and roadside equipment to support ramp control, lane controls, and interchange control for freeways. Coordination and integration of ramp meters are included as part of this market package. This package is consistent with typical urban traffic freeway control systems. This package incorporates the instrumentation included in the Network Surveillance Market Package to support freeway monitoring and adaptive strategies as an option. This market package also includes the capability to utilize surveillance information for detection of incidents. Typically, the processing would be performed at a traffic management center; however, developments might allow for point detection with roadway equipment. For example, a CCTV might include the capability to detect an incident based upon image changes. Additionally, this market package allows general advisory and traffic control information to be provided to the driver while en route.

Market Package Name	Description
ATMS05: HOV Lane Management	This market package manages HOV lanes by coordinating freeway ramp meters and connector signals with HOV lane usage signals. Preferential treatment is given to HOV lanes using special bypasses, reserved lanes, and exclusive rights-of-way that may vary by time of day. Vehicle occupancy detectors may be installed to verify HOV compliance and to notify enforcement agencies of violations.
ATMS06: Traffic Information Dissemination	This market package allows traffic information to be disseminated to drivers and vehicles using roadway equipment such as dynamic message signs or highway advisory radio. This package provides a tool that can be used to notify drivers of incidents; careful placement of the roadway equipment provides the information at points in the network where the drivers have recourse and can tailor their routes to account for the new information. This package also covers the equipment and interfaces that provide traffic information from a traffic management center to the media (for instance via a direct tie-in between a traffic management center and radio or television station computer systems), Transit Management, Emergency Management, and Information Service Providers. A link to the Maintenance and Construction Management subsystem allows real time information on road/bridge closures due to maintenance and construction activities to be disseminated.
ATMS07: Regional Traffic Control	This market package provides for the sharing of traffic information and control among traffic management centers to support a regional control strategy. This market package advances the Surface Street Control and Freeway Control Market Packages by adding the communications links and integrated control strategies that enable integrated Interjurisdictional traffic control. The nature of optimization and extent of information and control sharing is determined through working arrangements between jurisdictions. This package relies principally on roadside instrumentation supported by the Surface Street Control and Freeway Control Market Packages and adds hardware, software, and wireline communications capabilities to implement traffic management strategies that are coordinated between allied traffic management centers. Several levels of coordination are supported from sharing of information through sharing of control between traffic management centers.
ATMS08: Incident Management System	This market package manages both unexpected incidents and planned events so that the impact to the transportation network and traveler safety is minimized. The market package includes incident detection capabilities through roadside surveillance devices (e.g. CCTV) and through regional coordination with other traffic management, maintenance and construction management and emergency management centers as well as weather service entities and event promoters. Information from these diverse sources are collected and correlated by this market package to detect and verify incidents and implement an appropriate response. This market package supports traffic operations personnel in developing an appropriate response in coordination with emergency management, maintenance and construction management, and other incident response personnel to confirmed incidents. The response may include traffic control strategy modifications or resource coordination between center subsystems. Incident response also includes presentation of information to affected travelers using the Traffic Information Dissemination market package and dissemination of incident information to travelers through the Broadcast Traveler Information or Interactive Traveler Information market packages. The roadside equipment used to detect and verify incidents also allows the operator to monitor incident status as the response unfolds. The coordination with emergency management might be through a CAD system or through other communication with emergency field personnel. The coordination can also extend to tow trucks and other allied response agencies and field service personnel.

Market Package Name	Description
CVO03: Electronic Clearance	This market package provides for automated clearance at roadside check facilities. The roadside check facility communicates with the Commercial Vehicle Administration subsystem to retrieve infrastructure snapshots of critical carrier, vehicle, and driver data to be used to sort passing vehicles. This allows a good driver/vehicle/carrier to pass roadside facilities at highway speeds using transponders and dedicated short range communications to the roadside. Results of roadside clearance activities will be passed on to the Commercial Vehicle Administration. The roadside check facility may be equipped with Automated Vehicle Identification (AVI), weighing sensors, transponder read/write devices and computer workstations.
CVO04: CV Administrative Processes	This market package provides for electronic application, processing, fee collection, issuance, and distribution of CVO credential and tax filing. Through this process, carriers, drivers, and vehicles may be enrolled in the electronic clearance program provided by a separate market package which allows commercial vehicles to be screened at mainline speeds at roadside check facilities. Through this enrollment process, current profile databases are maintained in the Commercial Vehicle Administration subsystem and snapshots of this database are made available to the roadside check facilities at the roadside to support the electronic clearance process.
CVO06: Weigh-in-Motion	This market package provides for high speed weigh-in-motion with or without Automated Vehicle Identification (AVI) capabilities. This market package provides the roadside equipment that could be used as a stand-alone system or to augment the Electronic Clearance (CVO03) market package.
CVO07 Roadside CVO Safety	This market package provides for automated roadside safety monitoring and reporting. It automates commercial vehicle safety inspections at the roadside check facilities. The capabilities for performing the safety inspection are shared between this market package and the On-Board CVO Safety (CVO08) Market Package which enables a variety of implementation options. The basic option, directly supported by this market package, facilitates safety inspection of vehicles that have been pulled in, perhaps as a result of the automated screening process provided by the Electronic Clearance (CVO03) Market Package. In this scenario, only basic identification data and status information is read from the electronic tag on the commercial vehicle. The identification data from the tag enables access to additional safety data maintained in the infrastructure which is used to support the safety inspection, and may also inform the pull-in decision if system timing requirements can be met. More advanced implementations, supported by the On-Board CVO Safety (CVO08) market package, utilize additional on-board vehicle safety monitoring and reporting capabilities in the commercial vehicle to augment the roadside safety check.
CVO10: HAZMAT Management	This market package integrates incident management capabilities with commercial vehicle tracking to assure effective treatment of HAZMAT material and incidents. HAZMAT tracking is performed by the Fleet and Freight Management Subsystem. The Emergency Management subsystem is notified by the Commercial Vehicle if an incident occurs and coordinates the response. The response is tailored based on information that is provided as part of the original incident notification or derived from supplemental information provided by the Fleet and Freight Management Subsystem. The latter information can be provided prior to the beginning of the trip or gathered following the incident depending on the selected policy and implementation.

Market Package Name	Description
EM1: Emergency Response	This market package includes emergency vehicle equipment, equipment used to receive and route emergency calls, and wireless communications that enable safe and rapid deployment of appropriate resources to an emergency. Coordination between Emergency Management Subsystems supports emergency notification and coordinated response between agencies. Existing wide area wireless communications would be utilized between the Emergency Management Subsystem and an Emergency Vehicle to enable an incident command system to be established and supported at the emergency location. Public safety, traffic management, and many other allied agencies may each participate in the coordinated response managed by this package.
EM2: Emergency Routing	This market package supports automated vehicle location and dynamic routing of emergency vehicles. The service also supports coordination with the Traffic Management Subsystem, collecting detailed road network conditions and requesting special priority or other specific emergency traffic control strategies on the selected route(s). The Emergency Management Subsystem provides the routing for the emergency fleet based on real-time traffic conditions. The Emergency Vehicle may also be equipped with dedicated short range communications for local signal preemption. The service provides for information exchange between care facilities and both the Emergency Management Subsystem and emergency vehicles.
MC01: Maintenance and Construction Vehicle Tracking	This market package will track the location of maintenance and construction vehicles and other equipment to ascertain the progress of their activities. These activities can include ensuring the correct roads are being plowed and work activity is being performed at the correct locations.
MC03: Road Weather Data Collection	This market package collects current road and weather conditions using data collected from environmental sensors deployed on and about the roadway (or guideway in the case of transit related rail systems). In addition to fixed sensor stations at the roadside, sensing of the roadway environment can also occur from sensor systems located on Maintenance and Construction Vehicles and on-board sensors provided by auto manufacturers. The collected environmental data is used by the Weather Information Processing and Distribution Market Package to process the information and make decisions on operations.
MC04: Weather Information Processing and Distribution	This market package processes and distributes the environmental information collected from the Road Weather Data Collection market package. This market package uses the environmental data to detect environmental hazards such as icy road conditions, high winds, dense fog, etc. so system operators and decision support systems can make decision on corrective actions to take. The continuing updates of road condition information and current temperatures can be used by system operators to more effectively deploy road maintenance resources, issue general traveler advisories, issue location specific warnings to drivers using the Traffic Information Dissemination market package, and aid operators in scheduling work activity.
MC06: Winter Maintenance	This market package supports winter road maintenance including snow plow operations, roadway treatments (e.g., salt spraying and other anti-icing material applications), and other snow and ice control activities. This package monitors environmental conditions and weather forecasts and uses the information to schedule winter maintenance activities, determine the appropriate snow and ice control response, and track and manage response operations.



Market Package Name	Description
MC07: Roadway Maintenance and Construction	This market package supports numerous services for scheduled and unscheduled maintenance and construction on a roadway system or right-of-way. Maintenance services would include landscape maintenance, hazard removal (roadway debris, dead animals), routine maintenance activities (roadway cleaning, grass cutting), and repair and maintenance of both ITS and non-ITS equipment on the roadway (e.g., signs, traffic controllers, traffic detectors, dynamic message signs, traffic signals, CCTV, etc.). Environmental conditions information is also received from various weather sources to aid in scheduling maintenance and construction activities.
MC08: Work Zone Management	This market package directs activity in work zones, controlling traffic through portable dynamic message signs (DMS) and informing other groups of activity (e.g., ISP, TM, other maintenance and construction centers) for better coordination management. Work zone speeds and delays are provided to the motorist prior to the work zones.
MC10: Maintenance and Construction Activity Coordinator	This market package supports the dissemination of maintenance and construction activity to centers which can utilize it as part of their operations, or to the Information Service Providers who can provide the information to travelers.

**3.2.3 Physical Architecture Layers**

The Physical Architecture is composed of three layers: the Institutional Layer, the Transportation Layer, and the Communications Layer. The Institutional Layer represents the existing and emerging institutional constraints and arrangements that are the context for all ITS deployments. The Transportation Layer shows the relationships among the transportation-related elements. It is composed of subsystems for travelers, vehicles, transportation management centers, and field devices, as well as external system interfaces (terminators) at the boundaries. The Communications Layer shows the different methods of relaying information between subsystems and with terminators.

The Transportation Layer and Communications Layer together provide the technical framework within which interoperable systems may be implemented. The Institutional Layer introduces the policies, funding incentives, working arrangements, and jurisdictional structure that support the technical layers of the architecture. This Institutional Layer provides the basis for understanding who the implementers will be and the roles these implementers could take in implementing architecture-based ITS systems.

The Communications Layer includes all of the communications equipment (e.g., wireline and wireless transmitters and receivers) and the information management and transport capabilities necessary to transfer information among entities in the Transportation Layer. The application data content and the transportation application requirements are generally transparent to the Communications Layer. The Communication Layer's view of ITS is that of many distributed users, some of them mobile, which require communication services.

**3.2.3.1 Transportation Layer**

The transportation layer is comprised of the information flows within various interconnected subsystems and terminators. These information flows make up the interfaces between the agencies that manage the transportation system.

There are five major components that constitute an Oklahoma's advanced transportation management system (ATMS). These components were created based on the foundation provided

in the National ITS Architecture. The five components: Statewide Traffic Management System (STMS), Local Traffic Operations System (LTOS), Local Emergency Response System (LERS), Commercial Vehicle Operations (CVO) and Information Service Provider (ISP) are described in terms of the several subsystems. A diagram is also given for each component displaying the relationships between the participating agencies. The information that is exchanged between these agencies are described as architecture flows. Every architecture flow is defined in the National ITS Architecture CD-ROM Version 4 documentation in Table 2.3-6 Architecture Flow Descriptions.

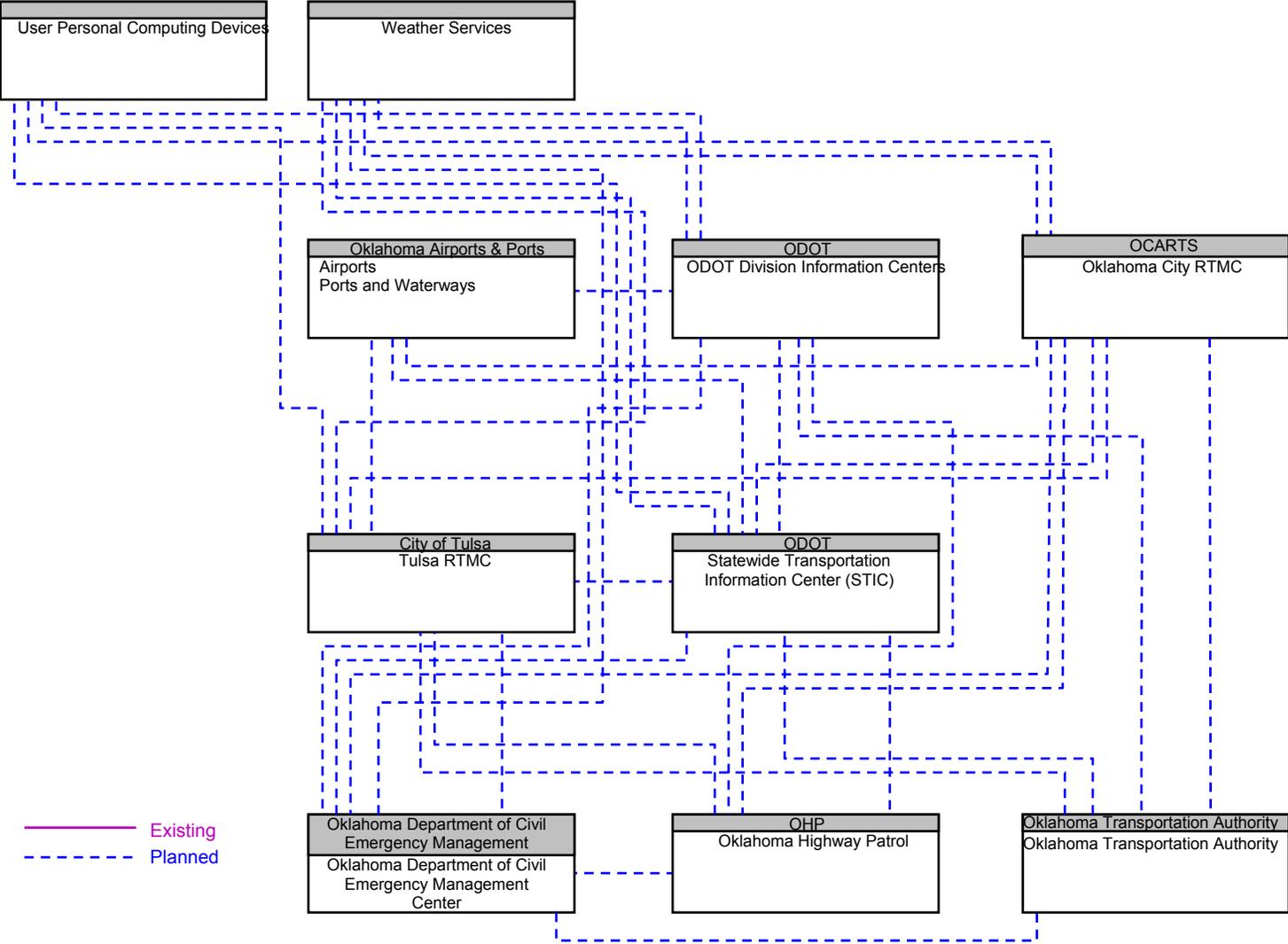
**Statewide Traffic Management System (STMS)**

The Statewide Traffic Management System, which is operated by ODOT, operates within a Statewide Transportation Information Center (STIC). The STIC communicates with the Regional Transportation Management Centers (RTMCs) to coordinate traffic information and control strategies. The information from incidents that are detected and verified is provided to the Oklahoma Highway Patrol, travelers and to ISP's. The STIC also monitors and manages maintenance work and disseminates maintenance work schedules and road closures. The STIC as well as the RTMCs will be the primary sources of traffic information that will be distributed to the public and the following agencies:

- Weather Service
- Oklahoma Highway Patrol
- Oklahoma Transportation Authority
- Tulsa RTMC
- Oklahoma City RTMC
- Other ODOT Divisions (1-8)
- Oklahoma Department of Civil  
Emergency Management
- Airports

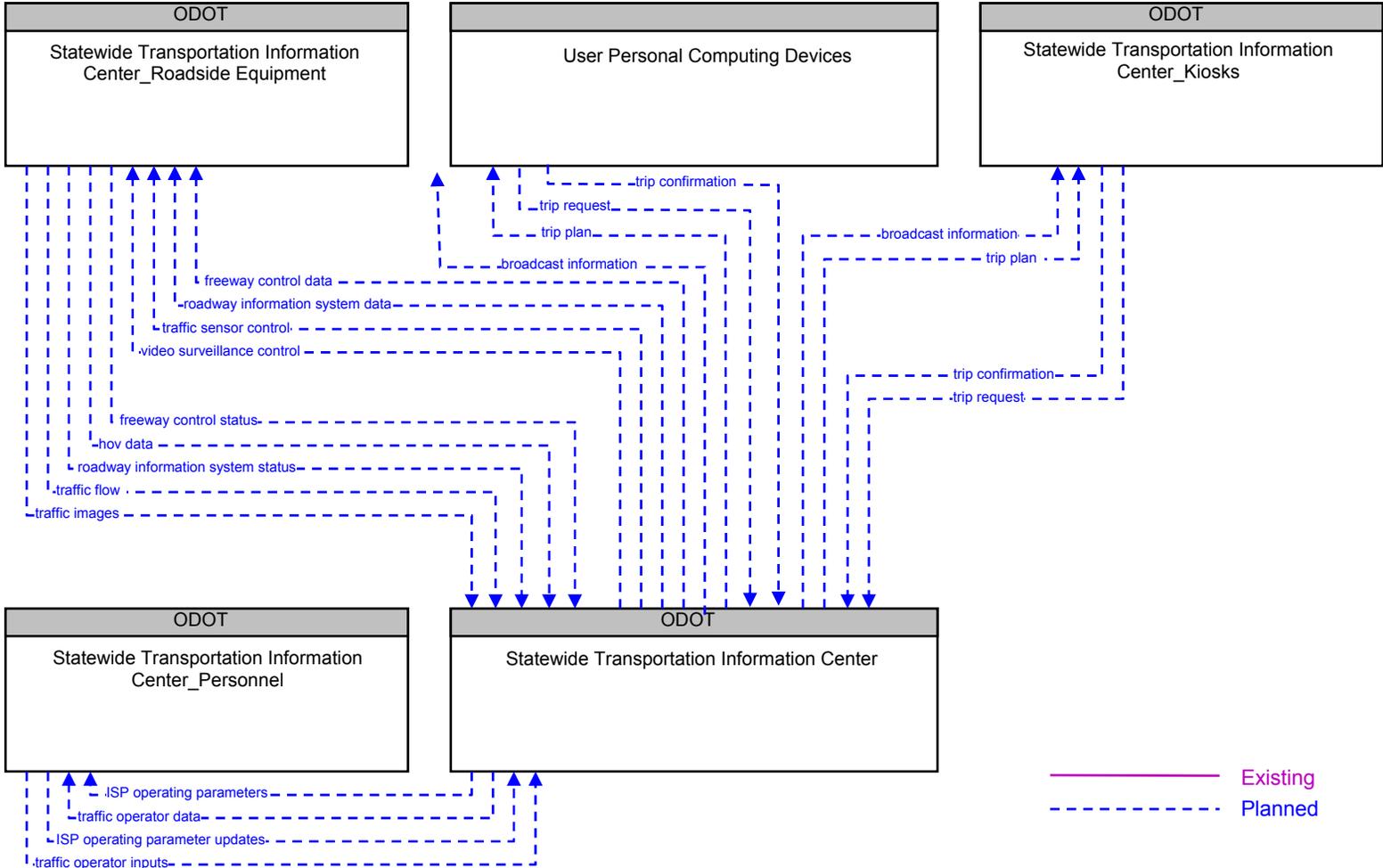
Figure 2 shows the interconnects between the participating agencies.

Figure 2: Oklahoma Statewide Interconnect Diagram



Data is also exchanged among the elements that compose the STIC. The figure below identifies the data flows that are internally exchanged at ODOT. A complete listing of the data flows for the Statewide architecture is located in Appendix 2.

Figure 3: Oklahoma DOT Internal Data Flows



**Local Traffic Operations System (LTOS)**

The Local Traffic Operations Systems, which are operated by the local public works departments, provides the capabilities to collect, process, and store traffic information on local streets. It also coordinates with the RTMC as well as disseminates traveler information to travelers and the public at large. The local traffic operations centers (TOC) will focus on local surface traffic control, traffic data collection on surface streets, parking management and coordination with the RTMC and other centers. Information provided may include basic advisories, real time traffic condition and transit schedule information.

The Local TOC will exchange information with the following agencies:

- RTMC
- MPO
- Local 911
- Weather Service

Figure 4 displays the interconnects between the participating agencies.

The local TOCs exchanges data flows internally and among its agencies within the community. Figure 5 below displays the information that is exchanged among participating agencies.

Figure 4: Local TOC Interconnect Diagram

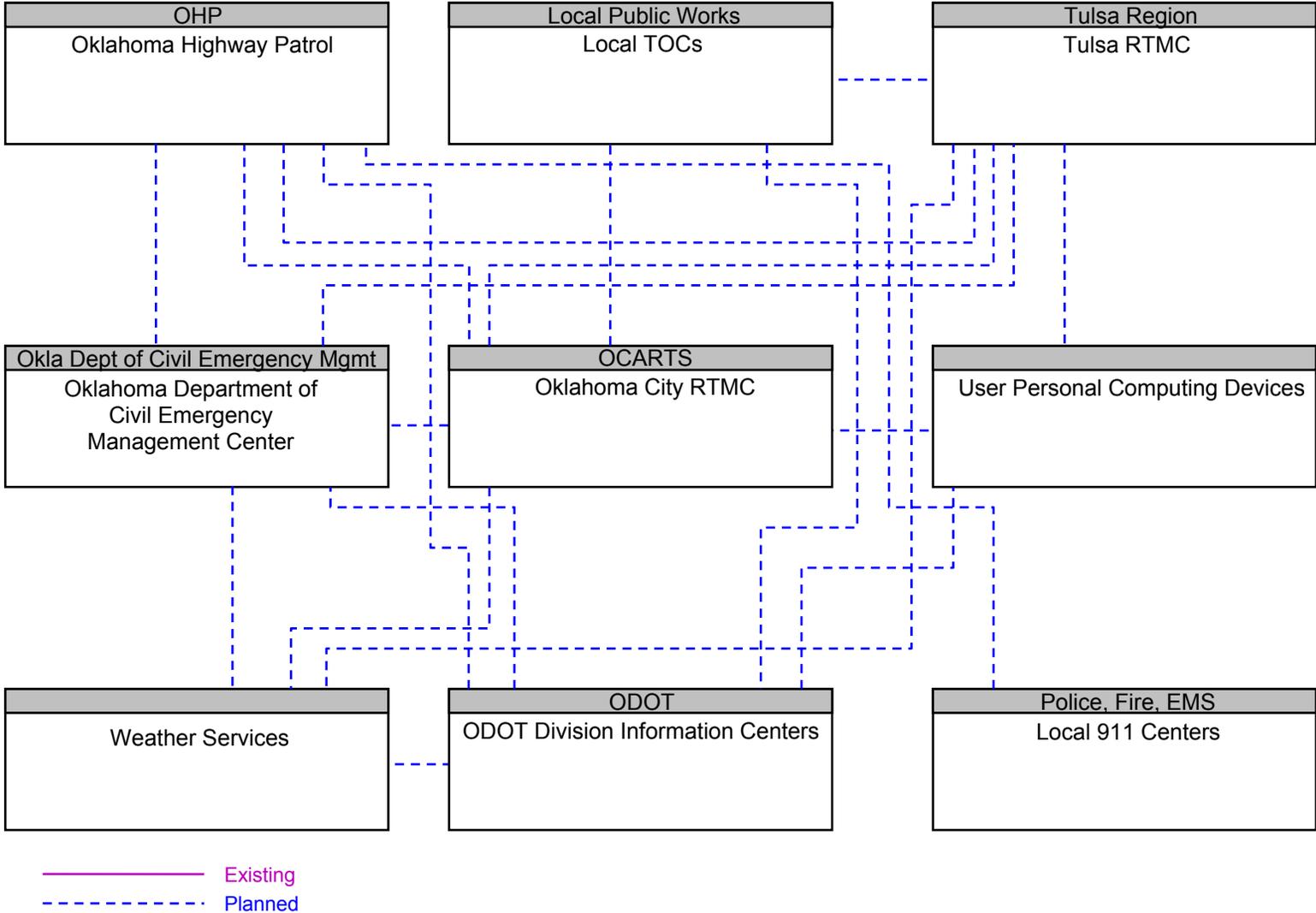
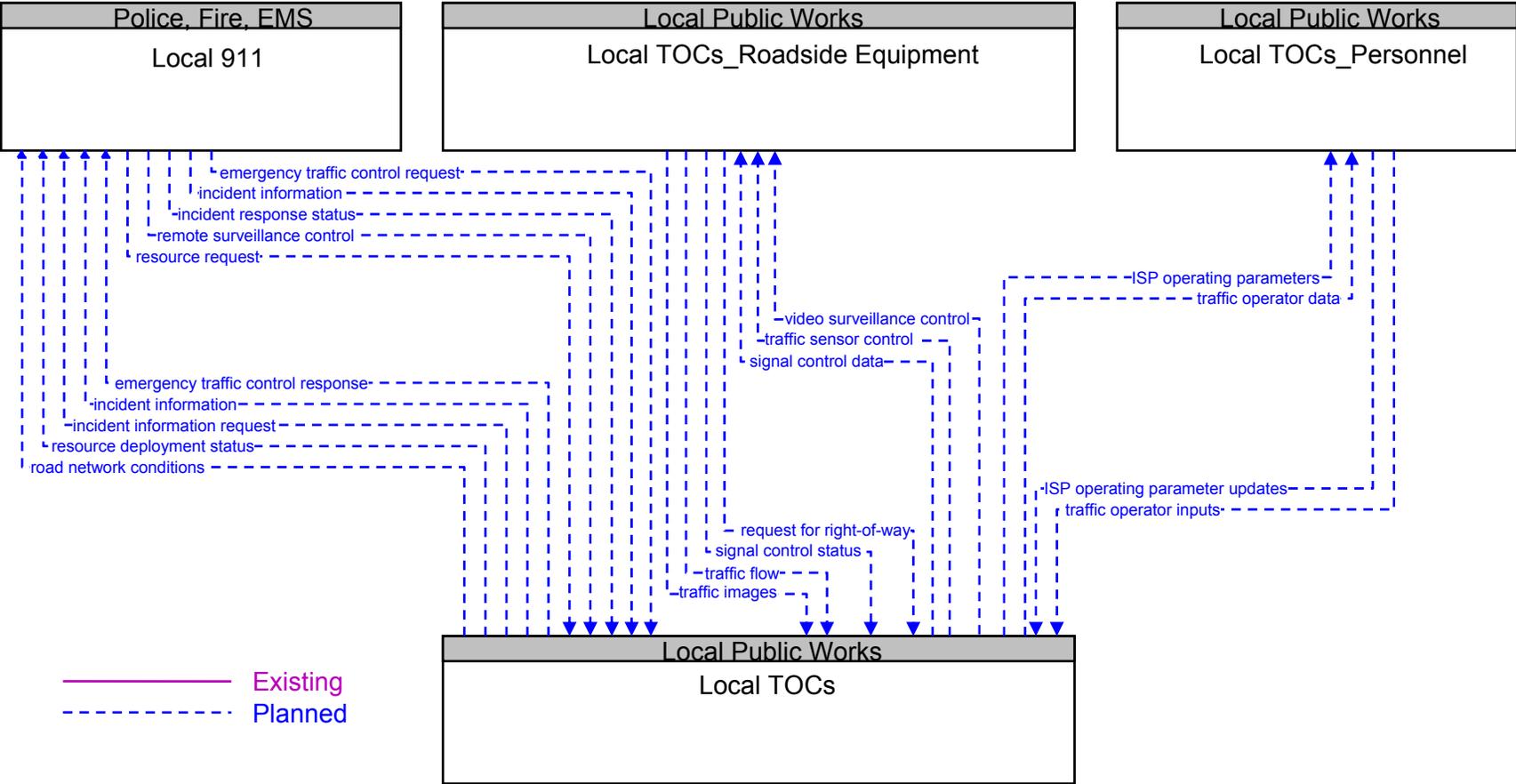


Figure 5: Local TOC Data Flow Diagram



The local TOCs also exchanges data with the RTMC. The figure below displays the information that is exchanged between the local TOC and the RTMCs.

Figure 6: Oklahoma City RTMC Data Flow Diagram

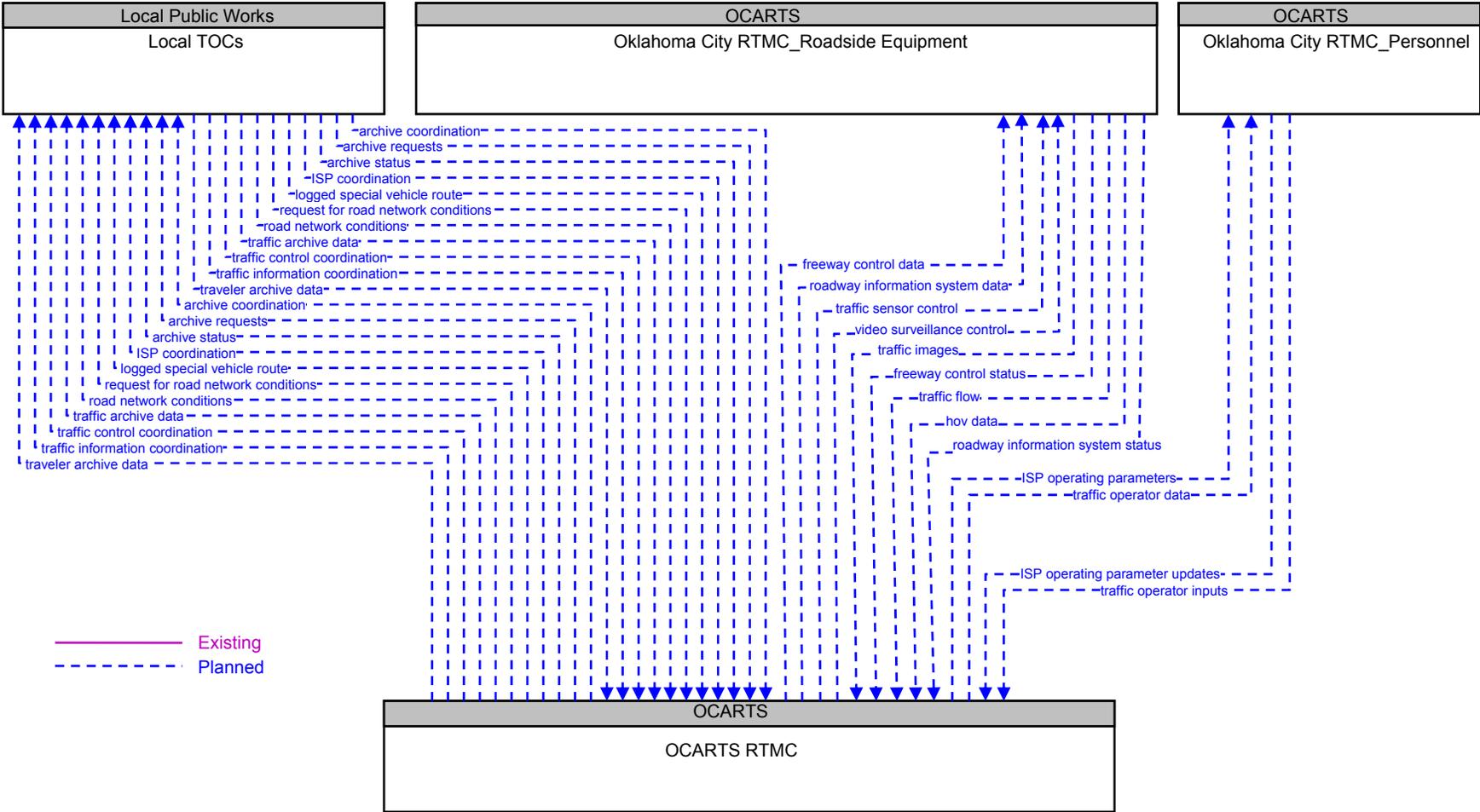
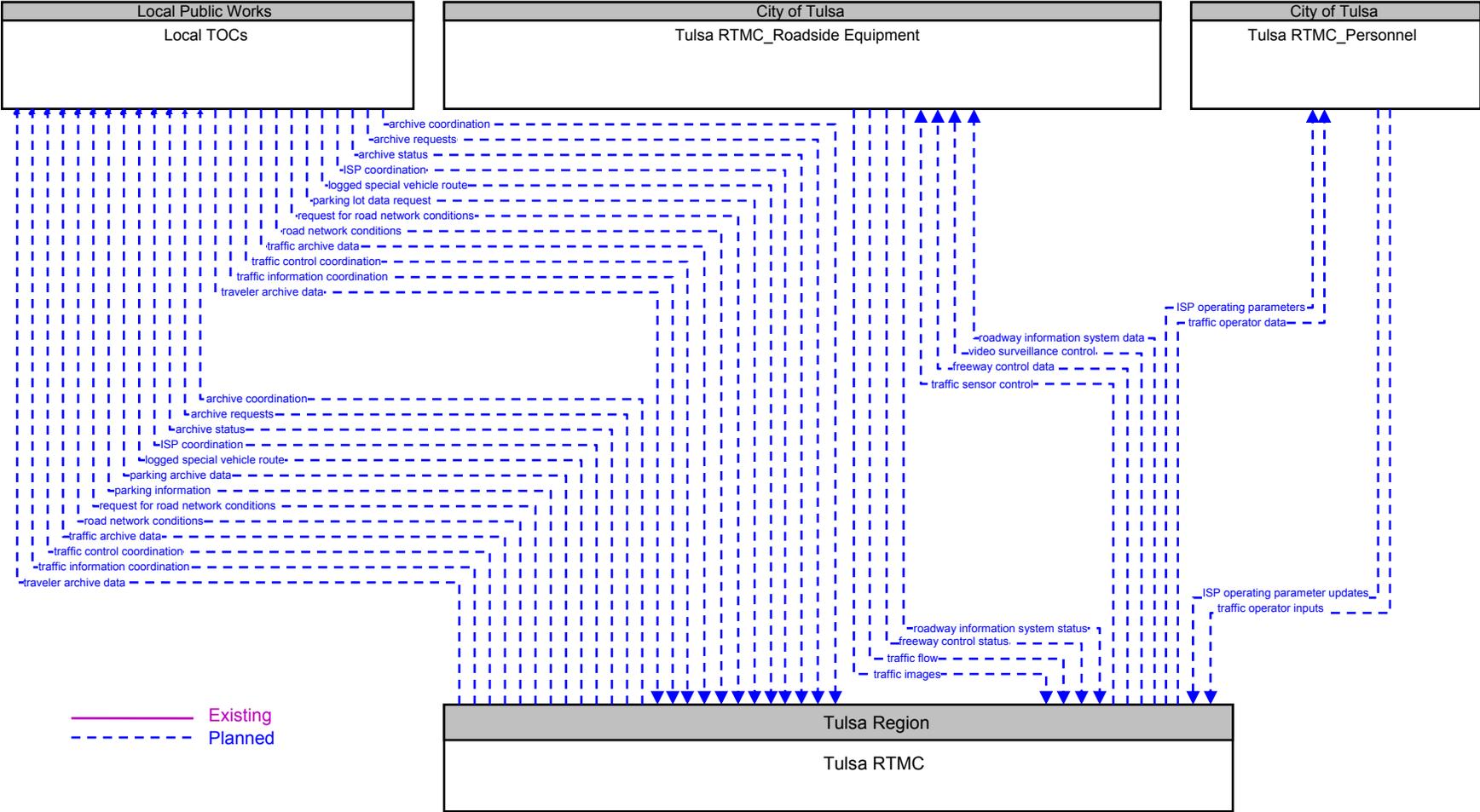




Figure 7: Tulsa RTMC Data Flow Diagram



**Local Emergency Response System (LERS)**

The Local Emergency Response System operates in various local emergency response centers (LERC) supporting public safety including police and fire stations, search and rescue special detachments, and HAZMAT response teams. This system interfaces with other emergency management subsystems to support coordinated emergency response involving multiple agencies. The subsystem creates, stores and utilizes emergency response plans to facilitate coordinated response. It tracks and manages emergency vehicle fleets. Real-time traffic information received from the other center subsystems is used to further aid the emergency dispatcher in selecting the emergency vehicle(s) and routes that will provide the most timely response. Interface with the Traffic Management subsystem (RTMC & LTOC) allows strategic coordination in tailoring traffic control to support en-route emergency vehicles. Figure 8 shows the interconnect diagram for participating agencies which includes:

- Local 911
- Local TOC
- Oklahoma Highway Patrol
- Oklahoma Transportation Authority
- STIC
- RTMC



Oklahoma Highway Patrol and the local 911 centers will also need to exchange data among its own elements. Figures 9 and 10 depict the data that will be exchanged internally.

**Figure 9: OHP Data Flows Diagram**

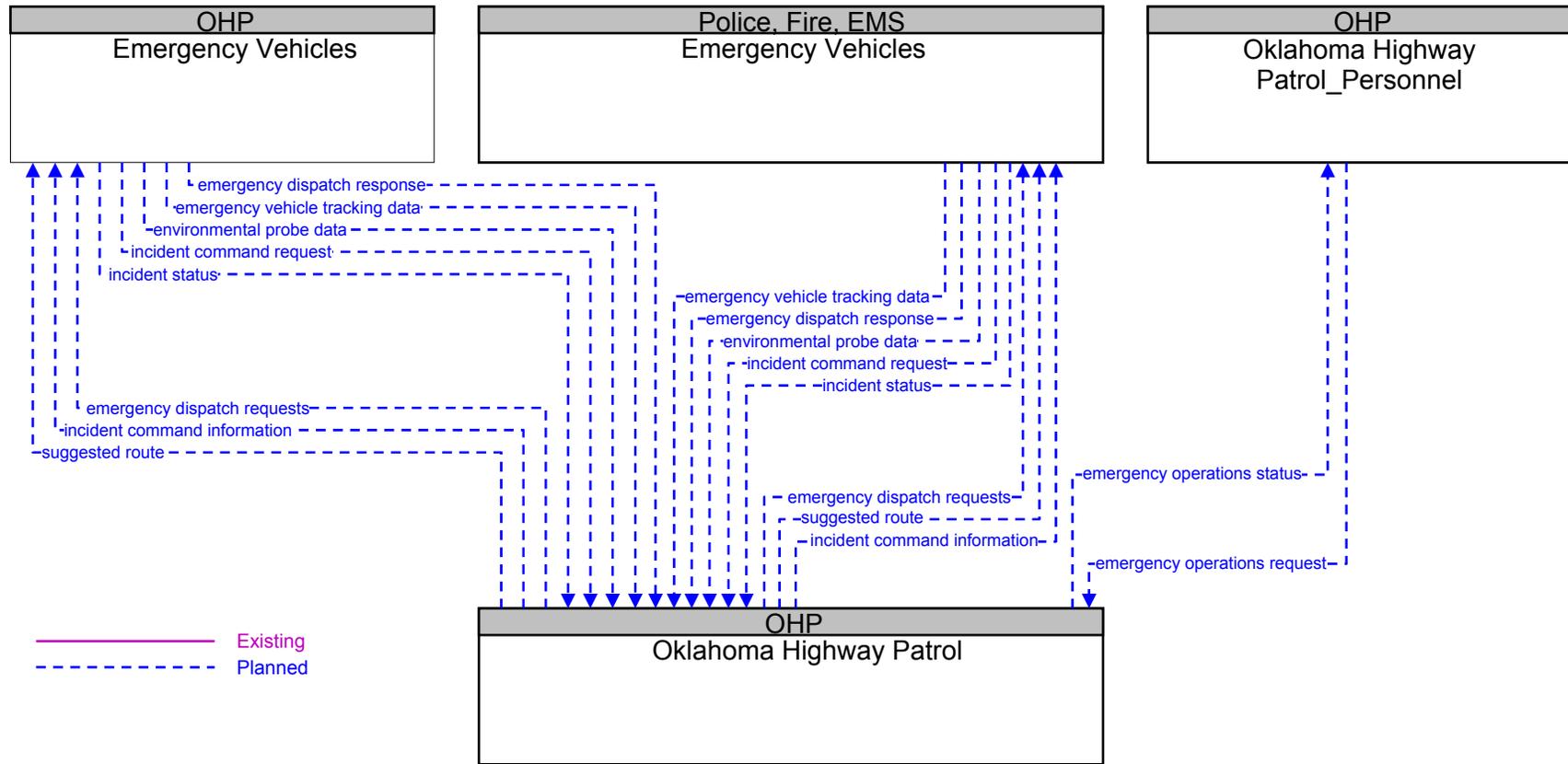
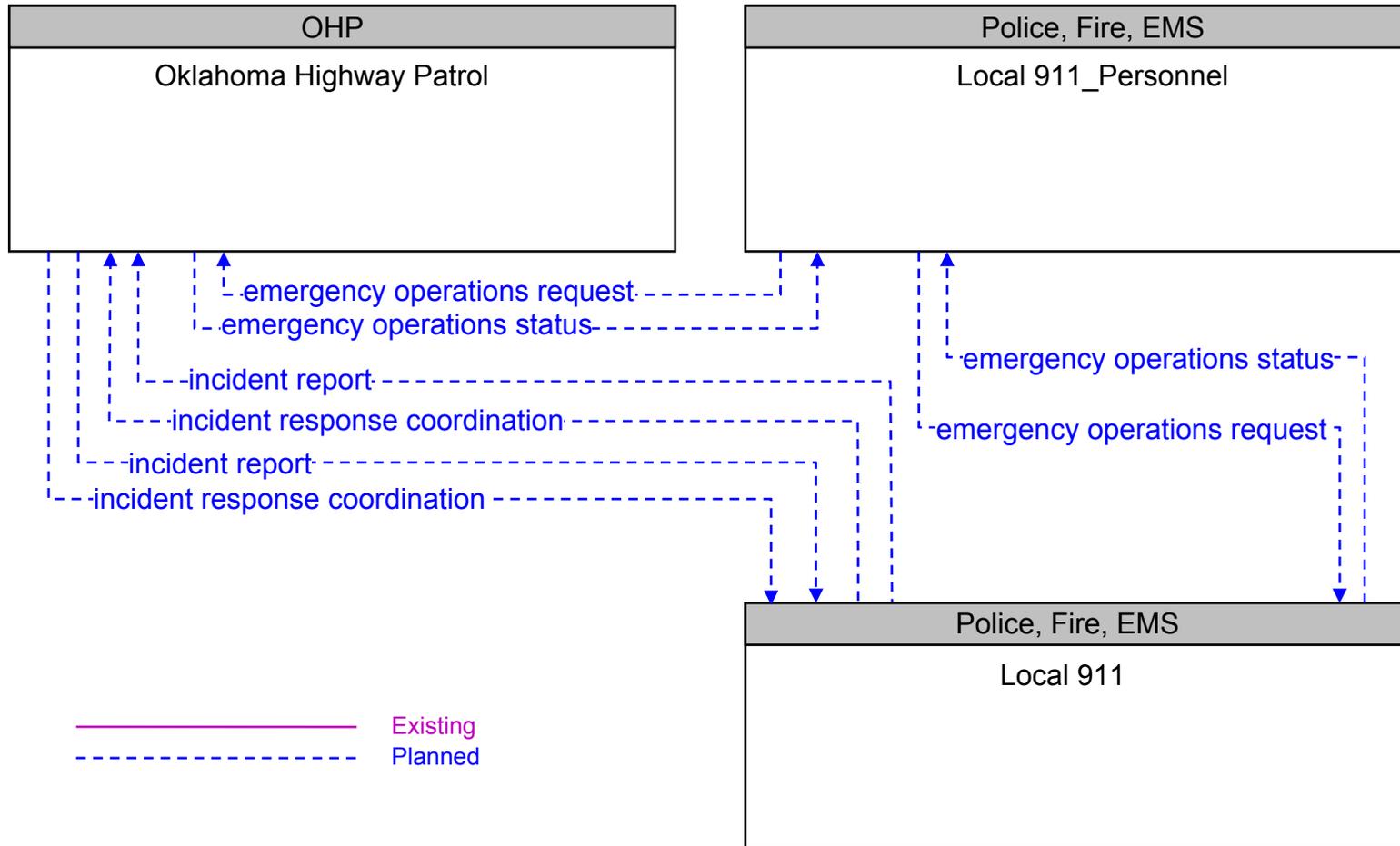


Figure 10: Local 911 Centers Data Flows Diagram



**Commercial Vehicle Operations (CVO)**

Commercial Vehicle Operations plays a large role in the state of Oklahoma. A separate business plan has been developed to define the functions of Oklahoma's CVO program. The Oklahoma CVISN Top Level Design Document defines the state's CVO architecture in detail. Oklahoma's CVO program is composed of three subsystems: Commercial Vehicle Administration, Commercial Vehicle Check, and the Commercial Vehicle subsystem. These subsystems will be able to meet Oklahoma's CVO's goal by providing the following capabilities:

- Provide for electronic filing of credentials applications and fuel tax payments; electronic verification of applications and supporting information; electronic payment; and electronic processing / issuance capabilities;
- Electronically exchange information among agencies and other states;
- Electronically access credential and safety status information (snapshots) from the roadside;
- Electronically screen carriers and vehicles for safety and credential compliance at mainline speeds.

The figures which follow provide an overview of the Oklahoma CVISN Design. The key elements included in here are the:

- Oklahoma CVISN System Design Template, showing all of the functional systems involved in CVO data exchange (systems highlighted in yellow are new systems).
- Design For Host Computers And Networks, showing the host computers and networks involved in Oklahoma's CVISN Level 1 deployment; and identifying the "owner" of the systems and the communication links used to connect systems.
- Oklahoma High Level Connectivity Overview, showing the same interfaces as the Host Computers and Networks Diagram, but from a network management perspective.

For more information, refer to the [Oklahoma CVISN Top Level Design Description](#), available from ODOT's Planning and research Division, which contains more detailed information on system interfaces, operational data flows and hardware/software configurations.

Figure 11. Oklahoma CVISN Level 1 Architecture

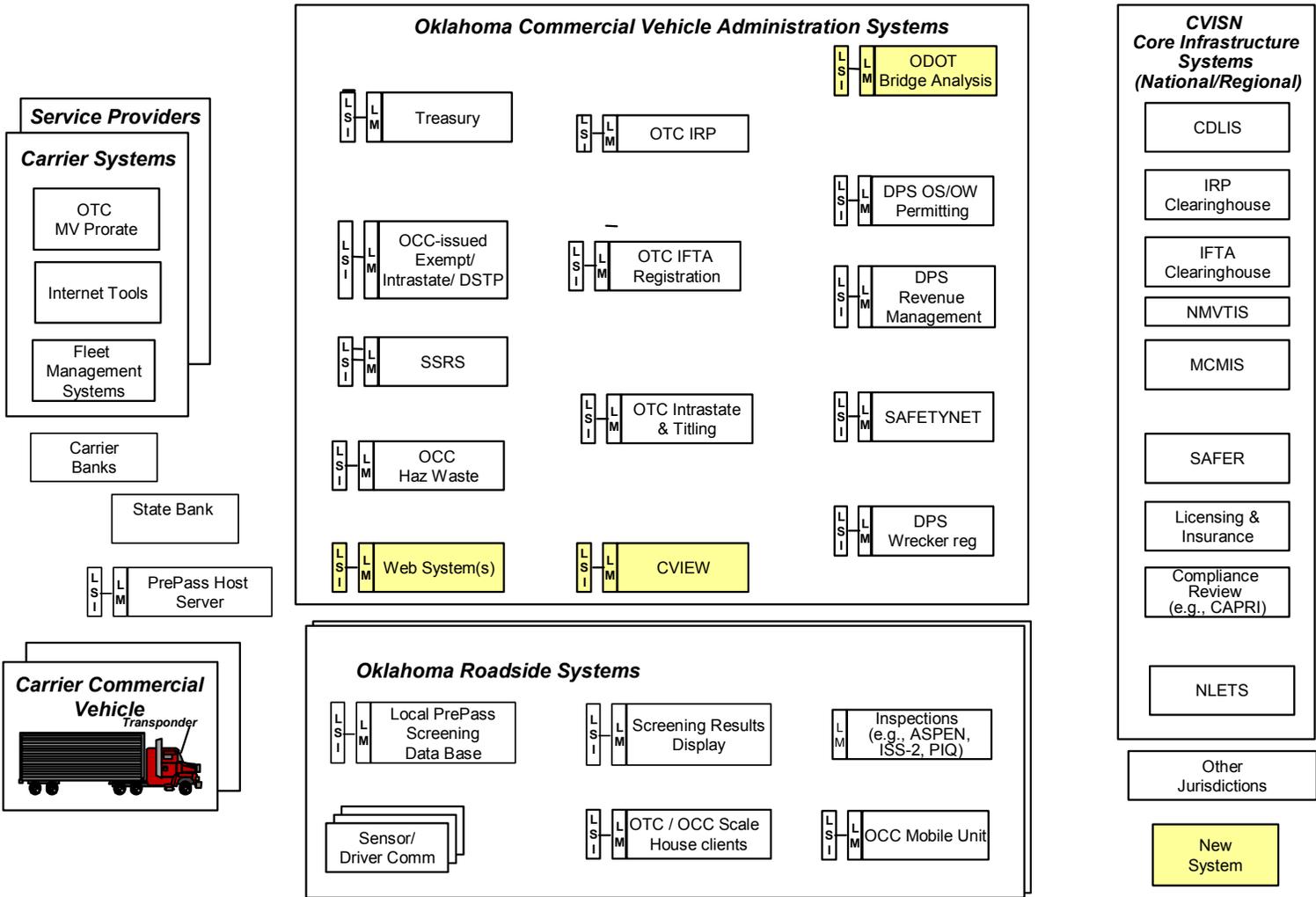


Figure 12. Oklahoma Host Computers and Network Template

( — Changes Required for CVISN projects)

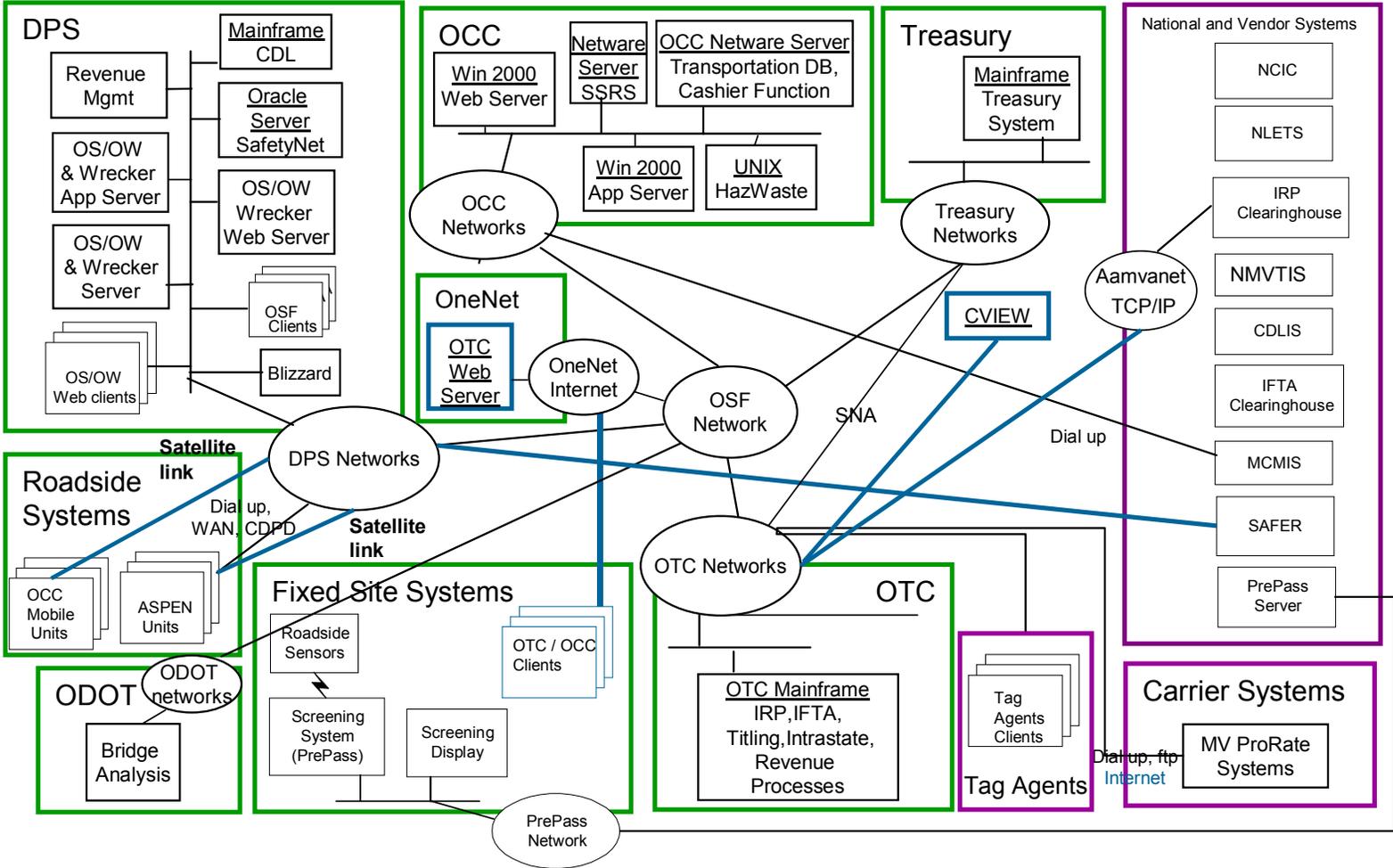
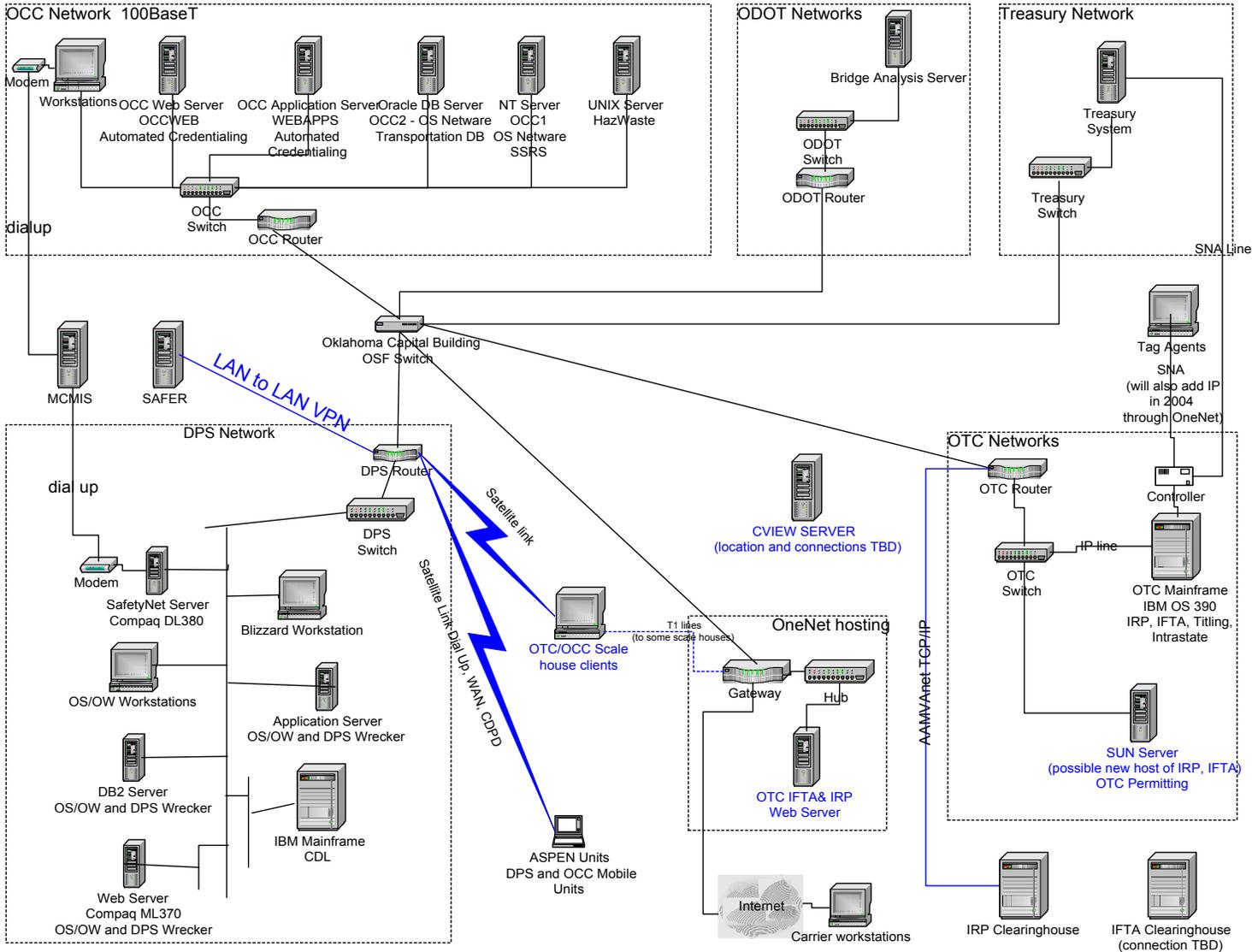




Figure 13. Oklahoma Physical Design



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### **3.3 Institutional Layer**

The institution layer of the physical architecture defines the relationships among agencies participating in ITS and the operational responsibilities of those agencies. A description of the basic role of agencies participating is in the following paragraphs.

#### **3.3.1 Oklahoma DOT**

The Oklahoma Department of Transportation is the lead organization responsible for operating and maintaining highway facilities and managing traffic and incidents on the Interstate Highway System. By managing, operating and maintaining a Statewide Transportation Information Center, ODOT will be able to do this more efficiently.

ODOT, through the STIC, will provide transportation information to travelers on the condition of the region's roadways. The type of information that may be provided includes incidents, traffic speeds, and roadway construction. Information could be provided to travelers through private information service providers or via roadside subsystems such as Dynamic Message Signs (DMS) and Highway Advisory Radio (HAR), and traveler information subsystems such as kiosks and an Internet web site.

Via ITS, ODOT can share transportation information electronically with other jurisdictions and agencies. The automatic exchange of information helps coordinate activities and services better, and thus improves rescue operations, increases safety, and provides travelers an improved, seamless transportation system.

#### **3.3.2 City/County Public Works Departments**

ODOT will not be responsible for managing the local streets; it will be up to the respective cities or counties to operate and manage the LTOC's and the LERC's. The local Public Works Departments, which may include a Traffic Engineering Department, are responsible for managing traffic and incidents on the surface street network including the principal arterials that are part of the State Highway System. The cities and counties will collect traffic data from their roadway network, process it, and use the information to manage their transportation system. ITS functions such as Traffic Signal Control and Network Surveillance will help local governments control and manage the flow of traffic on the surface street system. The LTOCs will coordinate and communicate with the RTMC in order to assist regional traffic management.

Local governments will provide transportation information to travelers on the condition of surface streets. The type of information that may be provided includes incidents, traffic speeds, and roadway construction. Information could be provided to travelers via roadside subsystems such as DMS and HAR, and traveler subsystems such as kiosks and an Internet web site.

It is recommended that each city and county Public Works Department share transportation information electronically with other agencies – other local agencies and neighboring jurisdictions. The automatic exchange of information will help agencies coordinate their activities and services better, and thus improve rescue operations and increase safety, and provide travelers an improved, seamless transportation system.

#### **3.3.3 Emergency Service Responders**

In the state of Oklahoma, there are many emergency service providers. With ITS implementation, each emergency service would communicate and coordinate electronically with the thier local RTMC in detecting, verifying and responding to incidents. The STIC would also communicate and coordinate electronically with freight carriers and the Department of Civil Emergency Management about such incidents.

### **3.3.4 Transportation Planning Agencies**

One of the functions performed by the Metropolitan Planning Organization (MPO) is the continued planning of the transportation system. The MPO in the Tulsa Region is the Indian National Council of Governments (INCOG) and in the Oklahoma City Region is the Association of Central Oklahoma Governments (ACOG). The MPOs can be supported by ITS functions that electronically exchange transportation data with the STIC. Access to both real-time and archived electronic data, and the increased amount of data with which to work, will greatly improve the ability of ODOT and MPOs to plan for the current and future demand of transportation services.

Other participating agencies including ODOT, the cities and counties have transportation planning functions that will benefit from the data generated by ITS. The implementation of a virtual data warehouse will provide access to useful data for all participating agencies.

### **3.3.5 Interagency Agreements**

It will be necessary for each operating agency to sign agreements defining the types of information to be shared, system control hierarchy, capital, operating and maintenance costs of facilities shared with ODOT or other agencies. Protocol for information exchange within each jurisdiction is to be defined and formalized in an inter-agency memorandum of understanding (MOU) or joint project agreement (JPA). The following information should be defined in MOUs:

1. Information and operating requirements pertaining to various ITS elements such as freeway or arterial (signal) control, dispatch information for emergency management, and transit management,
2. Uses of broadcast and interactive traveler/tourism information,
3. Sharing of responsibilities and costs,
4. Sharing of hardware, communications media, and data, and
5. Standardization.

## **3.4 Communications Layer**

### **3.4.1 NITSA Communications Guidelines**

As defined in the National ITS Architecture, the communications layer is the information transmission infrastructure that connects elements of the transportation layer and allows coordination and sharing of information among systems and people. The National ITS Architecture has identified four communications types for coordination and sharing information among systems. These include wireline communications, wide-area wireless communications, dedicated short-range communications (DSRC), and vehicle to vehicle communications.

Wireline communications addresses information transfer between two fixed entities. Physically, this communications type includes wireline (e.g. fiber optic or twisted pair copper) as well as point-to-point wireless (e.g. microwave) infrastructure.

Wide area wireless communications addresses information transfer between fixed and mobile entities and includes cellular and radio frequency technologies. It supports wide-area communications between mobile users or between mobile and fixed network-connected users. This communications type also includes one-way broadcast wireless voice and data communications systems used to provide basic traveler information across a wide-area.

Dedicated short-range communications (DSRC) is used to communicate short distances (<100 feet) between a vehicle and a roadside device. Examples of DSRC applications are toll tags for electronic toll collection and transponders for commercial vehicles such as used in the PrePass program by the Georgia Department of Safety.

## Appendix A: Physical Architecture Interface Table

The following table lists each of the data flows included in the physical architecture

The protocol requirements are based on the message type and frequency. Any system command or control will occur in real time and a stable protocol will be required. US DOT is recommending any appropriate standards federally funded for ITS deployment such as the National Transportation Communications for ITS Protocol (NTCIP). Therefore, all five systems in the region will be designed for NTCIP (or an equivalent federally adopted standard) compliance of individual elements, based on the maturity of specifications.

There are numerous additional messages that communicate information among the terminators within a subsystem in real time. NTCIP is recommended, although not required, for these communications. There are other messages that are sent with subsystems that will not occur in real time. NTCIP is optional for these non-real time messages. There are other messages to be sent via basic communications media such as telephone, pager, fax, Internet, radio broadcast or television broadcast. These communications do not need any transportation-related protocols.

In general, when a standard is required, this generally means that real-time control is involved, such as surveillance. Life safety may be at stake therefore the standard is categorized as being required.

A recommended standard indicates that data is passed between agencies and those receiving the data should have a common base for understanding its meaning. This is not a control standard, nor is it an issue of life safety.

Standards listed as optional relinquish the decision to those establishing the architecture flow. Communication may be easier with the local standard but it is not necessarily in real-time. Lastly, if no protocol category is listed, no standard currently available is applicable or needed.

In all cases, the protocol suggested is currently in development and adoption phases of the ITS Standards process. Therefore it is possible that a local standard may need to be adopted in the early stages of ITS development and a migration plan be implemented to use the National or International Standard when it is in place. In a migration plan, standards suggested in this section may change as they become standards adopted by the USDOT. The suggested standards will need to be updated to correspond with those regulations. The Intelligent Transportation Systems (ITS) program has placed emphasis on developing national standards for communications. Several standards organizations have been tasked to develop the communications standards necessary to provide system interoperability and seamless communications between systems and subsystems.

- *National Transportation Communications for ITS Protocol (NTCIP)*  
NTCIP development began with the traffic control industry recognizing the need to extend existing standards to include systems interoperability and communications issues. The NTCIP effort is focused on developing communications protocols necessary to “command and control” various ITS devices (DMS, CCTV, traffic signal controllers, etc.).
- *Advanced Traffic Management Systems Data Dictionary (TMDD)*  
TMDD provides unique definition and description of the data elements used in “sharing” data between systems.

- *Advanced Traveler Information System (ATIS)*  
ATIS protocol development focuses on developing standardized message sets used in disseminating traveler information.
- *Transit Communications Interface Profiles (TCIP)*  
TCIP focuses on developing standards for transit communications to various systems.
- *Commercial Vehicle Information Systems and Networks (CVISN)*  
CVISN refers to a collection of information systems and communications networks to support commercial vehicle operations (CVO). The FHWA CVISN program focuses on creating new ways for existing and newly designed systems to exchange information. A component of the CVO part of the National ITS Architecture, CVISN includes standards for communications technologies. These standards efforts are in the infancy stage.

The following lists all the standard documents that are included in the Statewide Architecture:

- ASTM 5 GHz Phys
- ASTM PS 105-99
- ASTM PS 111-98
- CEA/EIA-794
- CEA/EIA-795
- IEEE P1512.1
- IEEE P1512.a
- IEEE P1512-2000
- IEEE P1556
- IEEE Std 1455-1999
- ITE TM 1.03
- ITE TM 2.01
- ITE TS 3.TM
- NTCIP 1102
- NTCIP 1103
- NTCIP 1104
- NTCIP 1105
- NTCIP 1106
- NTCIP 1201
- NTCIP 1202
- NTCIP 1203
- NTCIP 1204
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- NTCIP 1207
- NTCIP 1208
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- NTCIP 1407
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- NTCIP 2101
- NTCIP 2102
- NTCIP 2103
- NTCIP 2104
- NTCIP 2201
- NTCIP 2202
- NTCIP 2301
- NTCIP 2302
- NTCIP 2303
- NTCIP 2304
- NTCIP 2305
- NTCIP 2501
- NTCIP 2502
- SAE J1746
- SAE J2313
- SAE J2353
- SAE J2354
- SAE J2369
- SAE J2529
- SAE J254

**Table 5: Regional Architecture Data Flows**

Source Element	Flow Name	Destination Element	Flow Status
Airports	traffic control coordination	ODOT Division Information Centers	Planned
Airports	traffic control coordination	Oklahoma City RTMC	Planned
Airports	traffic control coordination	Statewide Transportation Information Center	Planned
Airports	traffic control coordination	Tulsa RTMC	Planned
Airports	traffic information coordination	ODOT Division Information Centers	Planned
Airports	traffic information coordination	Oklahoma City RTMC	Planned
Airports	traffic information coordination	Statewide Transportation Information Center	Planned
Airports	traffic information coordination	Tulsa RTMC	Planned
Commercial Vehicles	safety inspection record	Oklahoma CVIEW	Planned
Commercial Vehicles	screening event record	Oklahoma Inspection Facility	Planned
Commercial Vehicles	tag data	Oklahoma CVIEW	Not Planned
Commercial Vehicles	border clearance data	Oklahoma Inspection Facility	Not Planned
Commercial Vehicles	commercial vehicle data	Vehicles	Not Planned
Commercial Vehicles	driver log	Oklahoma Inspection Facility	Not Planned
Commercial Vehicles	electronic lock data	Oklahoma Inspection Facility	Not Planned
Commercial Vehicles	hazmat spill notification	Oklahoma Department of Civil Emergency Management Center	Not Planned
Commercial Vehicles	hazmat spill notification	Oklahoma Highway Patrol	Not Planned
Commercial Vehicles	on-board safety data	Oklahoma Inspection Facility	Not Planned
CVO Inspector	CVC override mode	Oklahoma Inspection Facility	Not Planned
CVO Inspector	CVO inspector input	Oklahoma Inspection Facility	Planned
Emergency Vehicles	emergency dispatch response	Oklahoma Highway Patrol	Planned
Emergency Vehicles	emergency vehicle tracking data	Oklahoma Highway Patrol	Planned
Emergency Vehicles	environmental probe data	Oklahoma Highway Patrol	Planned
Emergency Vehicles	incident command request	Oklahoma Highway Patrol	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Emergency Vehicles	incident status	Oklahoma Highway Patrol	Planned
Emergency Vehicles	emergency dispatch response	Oklahoma Department of Civil Emergency Management Center	Not Planned
Emergency Vehicles	emergency vehicle tracking data	Oklahoma Department of Civil Emergency Management Center	Not Planned
Emergency Vehicles	environmental probe data	Oklahoma Department of Civil Emergency Management Center	Not Planned
Emergency Vehicles	incident command request	Oklahoma Department of Civil Emergency Management Center	Not Planned
Emergency Vehicles	incident status	Oklahoma Department of Civil Emergency Management Center	Not Planned
Emergency Vehicles	local signal preemption request	MCO Field Devices	Not Planned
Emergency Vehicles	local signal preemption request	Oklahoma City RTMC_Roadside Equipment	Not Planned
Emergency Vehicles	local signal preemption request	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Emergency Vehicles	local signal preemption request	Tulsa RTMC_Roadside Equipment	Not Planned
Local 911 Centers	incident report	Oklahoma Highway Patrol	Planned
Local 911 Centers	incident response coordination	Oklahoma Highway Patrol	Planned
Local 911 Centers	incident report	Oklahoma Department of Civil Emergency Management Center	Not Planned
Local 911 Centers	incident response coordination	Oklahoma Department of Civil Emergency Management Center	Not Planned
Local TOCs	traffic control coordination	ODOT Division Information Centers	Planned
Local TOCs	traffic control coordination	Oklahoma City RTMC	Planned
Local TOCs	traffic control coordination	Statewide Transportation Information Center	Planned
Local TOCs	traffic control coordination	Tulsa RTMC	Planned
Local TOCs	traffic information coordination	ODOT Division Information Centers	Planned
Local TOCs	traffic information coordination	Oklahoma City RTMC	Planned
Local TOCs	traffic information coordination	Statewide Transportation Information Center	Planned
Local TOCs	traffic information coordination	Tulsa RTMC	Planned
MCO Field Devices	environmental conditions data	ODOT Division Information Centers	Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
MCO Field Devices	environmental conditions data	Statewide Transportation Information Center	Planned
MCO Field Devices	environmental probe data	ODOT Division Information Centers	Planned
MCO Field Devices	environmental probe data	Statewide Transportation Information Center	Planned
MCO Field Devices	freeway control status	ODOT Division Information Centers	Planned
MCO Field Devices	request for right-of-way	ODOT Division Information Centers	Planned
MCO Field Devices	request for right-of-way	Statewide Transportation Information Center	Planned
MCO Field Devices	roadway equipment coordination	ODOT Division Information Centers	Planned
MCO Field Devices	roadway information system status	MCO Vehicles	Planned
MCO Field Devices	roadway information system status	ODOT Division Information Centers	Planned
MCO Field Devices	roadway information system status	Statewide Transportation Information Center	Planned
MCO Field Devices	signal control status	ODOT Division Information Centers	Planned
MCO Field Devices	traffic flow	ODOT Division Information Centers	Planned
MCO Field Devices	traffic images	ODOT Division Information Centers	Planned
MCO Field Devices	traffic images	Statewide Transportation Information Center	Planned
MCO Field Devices	emissions data	ODOT Division Information Centers	Not Planned
MCO Field Devices	emissions data	Oklahoma City RTMC	Not Planned
MCO Field Devices	emissions data	Statewide Transportation Information Center	Not Planned
MCO Field Devices	emissions data	Tulsa RTMC	Not Planned
MCO Field Devices	environmental conditions data	MCO Vehicles	Not Planned
MCO Field Devices	environmental conditions data	Oklahoma City RTMC	Not Planned
MCO Field Devices	environmental conditions data	Tulsa RTMC	Not Planned
MCO Field Devices	environmental conditions data	Weather Services	Not Planned
MCO Field Devices	environmental probe data	Oklahoma City RTMC	Not Planned
MCO Field Devices	environmental probe data	Tulsa RTMC	Not Planned
MCO Field Devices	field device status	Statewide Transportation Information Center	Not Planned
MCO Field Devices	freeway control status	Oklahoma City RTMC	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
MCO Field Devices	freeway control status	Statewide Transportation Information Center	Not Planned
MCO Field Devices	freeway control status	Tulsa RTMC	Not Planned
MCO Field Devices	hov data	ODOT Division Information Centers	Not Planned
MCO Field Devices	hov data	Oklahoma City RTMC	Not Planned
MCO Field Devices	hov data	Statewide Transportation Information Center	Not Planned
MCO Field Devices	hov data	Tulsa RTMC	Not Planned
MCO Field Devices	hri status	ODOT Division Information Centers	Not Planned
MCO Field Devices	hri status	Oklahoma City RTMC	Not Planned
MCO Field Devices	hri status	Statewide Transportation Information Center	Not Planned
MCO Field Devices	hri status	Tulsa RTMC	Not Planned
MCO Field Devices	infrastructure monitoring sensor data	MCO Vehicles	Not Planned
MCO Field Devices	infrastructure monitoring sensor data	Statewide Transportation Information Center	Not Planned
MCO Field Devices	intersection blockage notification	ODOT Division Information Centers	Not Planned
MCO Field Devices	intersection blockage notification	Oklahoma City RTMC	Not Planned
MCO Field Devices	intersection blockage notification	Statewide Transportation Information Center	Not Planned
MCO Field Devices	intersection blockage notification	Tulsa RTMC	Not Planned
MCO Field Devices	request for right-of-way	Oklahoma City RTMC	Not Planned
MCO Field Devices	request for right-of-way	Tulsa RTMC	Not Planned
MCO Field Devices	request tag data	Vehicles	Not Planned
MCO Field Devices	reversible lane status	ODOT Division Information Centers	Not Planned
MCO Field Devices	reversible lane status	Oklahoma City RTMC	Not Planned
MCO Field Devices	reversible lane status	Statewide Transportation Information Center	Not Planned
MCO Field Devices	reversible lane status	Tulsa RTMC	Not Planned
MCO Field Devices	roadside archive data	ODOT Division Information Centers	Not Planned
MCO Field Devices	roadside archive data	Oklahoma City RTMC	Not Planned
MCO Field Devices	roadside archive data	Oklahoma Transportation Authority	Not Planned
MCO Field Devices	roadside archive data	Statewide Transportation Information Center	Not Planned
MCO Field Devices	roadside archive data	Tulsa RTMC	Not Planned
MCO Field Devices	roadway equipment coordination	Oklahoma City RTMC_Roadside Equipment	Not Planned
MCO Field Devices	roadway equipment coordination	Oklahoma Transportation Authority_Roadside Equipment	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
MCO Field Devices	roadway equipment coordination	Statewide Transportation Information Center_Roadside Equipment	Not Planned
MCO Field Devices	roadway equipment coordination	Tulsa RTMC_Roadside Equipment	Not Planned
MCO Field Devices	roadway information system status	Oklahoma City RTMC	Not Planned
MCO Field Devices	roadway information system status	Tulsa RTMC	Not Planned
MCO Field Devices	roadway treatment system status	Statewide Transportation Information Center	Not Planned
MCO Field Devices	signal control status	Oklahoma City RTMC	Not Planned
MCO Field Devices	signal control status	Statewide Transportation Information Center	Not Planned
MCO Field Devices	signal control status	Tulsa RTMC	Not Planned
MCO Field Devices	speed monitoring information	ODOT Division Information Centers	Not Planned
MCO Field Devices	speed monitoring information	Oklahoma City RTMC	Not Planned
MCO Field Devices	speed monitoring information	Statewide Transportation Information Center	Not Planned
MCO Field Devices	speed monitoring information	Tulsa RTMC	Not Planned
MCO Field Devices	traffic flow	Oklahoma City RTMC	Not Planned
MCO Field Devices	traffic flow	Statewide Transportation Information Center	Not Planned
MCO Field Devices	traffic flow	Tulsa RTMC	Not Planned
MCO Field Devices	traffic images	Oklahoma City RTMC	Not Planned
MCO Field Devices	traffic images	Tulsa RTMC	Not Planned
MCO Field Devices	vehicle probe data	ODOT Division Information Centers	Not Planned
MCO Field Devices	vehicle probe data	Oklahoma City RTMC	Not Planned
MCO Field Devices	vehicle probe data	Statewide Transportation Information Center	Not Planned
MCO Field Devices	vehicle probe data	Tulsa RTMC	Not Planned
MCO Field Devices	vehicle signage data	Vehicles	Not Planned
MCO Field Devices	work zone warning notification	MCO Vehicles	Not Planned
MCO Field Devices	work zone warning status	Statewide Transportation Information Center	Not Planned
MCO Vehicles	infrastructure conditions data	Statewide Transportation Information Center	Planned
MCO Vehicles	infrastructure monitoring sensor control	ODOT Division Information Centers	Planned
MCO Vehicles	infrastructure monitoring sensor control	Oklahoma Transportation Authority_Roadside Equipment	Planned
MCO Vehicles	maint and constr dispatch status	Statewide Transportation Information Center	Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
MCO Vehicles	maint and constr vehicle location data	Statewide Transportation Information Center	Planned
MCO Vehicles	maint and constr vehicle operational data	Statewide Transportation Information Center	Planned
MCO Vehicles	roadway information system data	MCO Field Devices	Planned
MCO Vehicles	roadway information system data	ODOT Division Information Centers	Planned
MCO Vehicles	roadway information system data	Oklahoma Transportation Authority_Roadside Equipment	Planned
MCO Vehicles	work zone status	Statewide Transportation Information Center	Planned
MCO Vehicles	environmental conditions data	MCO Field Devices	Not Planned
MCO Vehicles	environmental conditions data	ODOT Division Information Centers	Not Planned
MCO Vehicles	environmental conditions data	Oklahoma City RTMC_Roadside Equipment	Not Planned
MCO Vehicles	environmental conditions data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
MCO Vehicles	environmental conditions data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
MCO Vehicles	environmental conditions data	Tulsa RTMC_Roadside Equipment	Not Planned
MCO Vehicles	environmental probe data	Statewide Transportation Information Center	Not Planned
MCO Vehicles	environmental sensors control	MCO Field Devices	Not Planned
MCO Vehicles	environmental sensors control	ODOT Division Information Centers	Not Planned
MCO Vehicles	environmental sensors control	Oklahoma City RTMC_Roadside Equipment	Not Planned
MCO Vehicles	environmental sensors control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
MCO Vehicles	environmental sensors control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
MCO Vehicles	environmental sensors control	Tulsa RTMC_Roadside Equipment	Not Planned
MCO Vehicles	infrastructure monitoring sensor control	MCO Field Devices	Not Planned
MCO Vehicles	infrastructure monitoring sensor control	Oklahoma City RTMC_Roadside Equipment	Not Planned
MCO Vehicles	infrastructure monitoring sensor control	Statewide Transportation Information Center_Roadside Equipment	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
MCO Vehicles	infrastructure monitoring sensor control	Tulsa RTMC_Roadside Equipment	Not Planned
MCO Vehicles	maint and constr vehicle conditions	Statewide Transportation Information Center	Not Planned
MCO Vehicles	roadway information system data	Oklahoma City RTMC_Roadside Equipment	Not Planned
MCO Vehicles	roadway information system data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
MCO Vehicles	roadway information system data	Tulsa RTMC_Roadside Equipment	Not Planned
MCO Vehicles	vehicle signage data	Vehicles	Not Planned
MCO Vehicles	work zone warning status	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	archive coordination	Oklahoma Transportation Authority	Planned
ODOT Division Information Centers	archive coordination	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	archive requests	Oklahoma CVIEW	Not Planned
ODOT Division Information Centers	archive requests	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	archive status	Oklahoma CVIEW	Not Planned
ODOT Division Information Centers	archive status	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	broadcast information	Statewide Transportation Information Center_Kiosks	Planned
ODOT Division Information Centers	broadcast information	User Personal Computing Devices	Planned
ODOT Division Information Centers	broadcast information	Vehicles	Planned
ODOT Division Information Centers	emergency traffic control response	Oklahoma Highway Patrol	Planned
ODOT Division Information Centers	environmental conditions data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	environmental probe data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	environmental sensors control	MCO Field Devices	Planned
ODOT Division Information Centers	field device status	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	field equipment status	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	freeway control data	MCO Field Devices	Planned

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Source Element	Flow Name	Destination Element	Flow Status
ODOT Division Information Centers	freeway control data	Statewide Transportation Information Center_Roadside Equipment	Planned
ODOT Division Information Centers	freeway control status	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	hov data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	incident information	Oklahoma Department of Civil Emergency Management Center	Planned
ODOT Division Information Centers	incident information	Oklahoma Highway Patrol	Planned
ODOT Division Information Centers	incident information	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	incident information request	Oklahoma Department of Civil Emergency Management Center	Planned
ODOT Division Information Centers	incident information request	Oklahoma Highway Patrol	Planned
ODOT Division Information Centers	infrastructure monitoring sensor data	MCO Vehicles	Planned
ODOT Division Information Centers	infrastructure monitoring sensor data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	ISP coordination	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	ISP operating parameters	Statewide Transportation Information Center_Personnel	Planned
ODOT Division Information Centers	logged special vehicle route	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	maint and constr resource request	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	parking lot data request	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	parking reservations request	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	request for right-of-way	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	request for road network conditions	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	resource deployment status	Oklahoma Department of Civil Emergency Management Center	Planned
ODOT Division Information Centers	resource deployment status	Oklahoma Highway Patrol	Planned
ODOT Division Information Centers	road network conditions	Oklahoma Department of Civil Emergency Management Center	Planned
ODOT Division Information Centers	road network conditions	Oklahoma Highway Patrol	Planned

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Source Element	Flow Name	Destination Element	Flow Status
ODOT Division Information Centers	road network conditions	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	road network probe information	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	roadside archive data	Oklahoma Transportation Authority	Planned
ODOT Division Information Centers	roadside archive data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	roadway equipment coordination	MCO Field Devices	Planned
ODOT Division Information Centers	roadway equipment coordination	Statewide Transportation Information Center_Roadside Equipment	Planned
ODOT Division Information Centers	roadway information system data	MCO Field Devices	Planned
ODOT Division Information Centers	roadway information system data	Statewide Transportation Information Center_Roadside Equipment	Planned
ODOT Division Information Centers	roadway information system status	MCO Vehicles	Planned
ODOT Division Information Centers	roadway information system status	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	traffic archive data	Oklahoma Transportation Authority	Planned
ODOT Division Information Centers	traffic archive data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	traffic control coordination	Airports	Planned
ODOT Division Information Centers	traffic control coordination	Local TOCs	Planned
ODOT Division Information Centers	traffic control coordination	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	traffic flow	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	traffic images	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	traffic information coordination	Airports	Planned
ODOT Division Information Centers	traffic information coordination	Local TOCs	Planned
ODOT Division Information Centers	traffic information coordination	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	traffic operator data	Statewide Transportation Information Center_Personnel	Planned
ODOT Division Information Centers	traffic sensor control	MCO Field Devices	Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	traffic sensor control	Statewide Transportation Information Center_Roadside Equipment	Planned
ODOT Division Information Centers	traveler archive data	Oklahoma Transportation Authority	Planned
ODOT Division Information Centers	traveler archive data	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	trip plan	Statewide Transportation Information Center_Kiosks	Planned
ODOT Division Information Centers	trip plan	User Personal Computing Devices	Planned
ODOT Division Information Centers	video surveillance control	MCO Field Devices	Planned
ODOT Division Information Centers	video surveillance control	Statewide Transportation Information Center_Roadside Equipment	Planned
ODOT Division Information Centers	work plan feedback	Statewide Transportation Information Center	Planned
ODOT Division Information Centers	archive coordination	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	archive coordination	Tulsa RTMC	Not Planned
ODOT Division Information Centers	archive requests	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	archive requests	Oklahoma Department of Civil Emergency Management Center	Not Planned
ODOT Division Information Centers	archive requests	Oklahoma Highway Patrol	Not Planned
ODOT Division Information Centers	archive requests	Tulsa RTMC	Not Planned
ODOT Division Information Centers	archive requests	Weather Services	Not Planned
ODOT Division Information Centers	archive status	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	archive status	Oklahoma Department of Civil Emergency Management Center	Not Planned
ODOT Division Information Centers	archive status	Oklahoma Highway Patrol	Not Planned
ODOT Division Information Centers	archive status	Tulsa RTMC	Not Planned
ODOT Division Information Centers	archive status	Weather Services	Not Planned
ODOT Division Information Centers	data collection and monitoring control	MCO Field Devices	Not Planned
ODOT Division Information Centers	data collection and monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned



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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	data collection and monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	data collection and monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
ODOT Division Information Centers	data collection and monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	emergency traffic control response	Oklahoma Department of Civil Emergency Management Center	Not Planned
ODOT Division Information Centers	emissions data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	emissions data	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	emissions data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	environmental conditions data	MCO Vehicles	Not Planned
ODOT Division Information Centers	environmental conditions data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	environmental conditions data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	environmental conditions data	Weather Services	Not Planned
ODOT Division Information Centers	environmental probe data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	environmental probe data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	environmental sensors control	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	environmental sensors control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	environmental sensors control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
ODOT Division Information Centers	environmental sensors control	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	fare and price information	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	fare and price information	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	fare and price information	Tulsa RTMC	Not Planned
ODOT Division Information Centers	freeway control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	freeway control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	freeway control data	Tulsa RTMC_Roadside Equipment	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	freeway control status	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	freeway control status	Tulsa RTMC	Not Planned
ODOT Division Information Centers	hov data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	hov data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	hri control data	MCO Field Devices	Not Planned
ODOT Division Information Centers	hri control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri control data	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri request	MCO Field Devices	Not Planned
ODOT Division Information Centers	hri request	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri request	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri request	Statewide Transportation Information Center_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri request	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	hri status	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	hri status	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	hri status	Tulsa RTMC	Not Planned
ODOT Division Information Centers	intersection blockage notification	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	intersection blockage notification	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	intersection blockage notification	Tulsa RTMC	Not Planned
ODOT Division Information Centers	ISP coordination	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	ISP coordination	Tulsa RTMC	Not Planned
ODOT Division Information Centers	ISP operating parameters	Oklahoma City RTMC_Personnel	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	ISP operating parameters	Tulsa RTMC_Personnel	Not Planned
ODOT Division Information Centers	logged special vehicle route	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	logged special vehicle route	Tulsa RTMC	Not Planned
ODOT Division Information Centers	request fare and price information	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	request fare and price information	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	request fare and price information	Tulsa RTMC	Not Planned
ODOT Division Information Centers	request for right-of-way	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	request for right-of-way	Tulsa RTMC	Not Planned
ODOT Division Information Centers	request for road network conditions	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	request for road network conditions	Tulsa RTMC	Not Planned
ODOT Division Information Centers	request tag data	Vehicles	Not Planned
ODOT Division Information Centers	reversible lane status	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	reversible lane status	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	reversible lane status	Tulsa RTMC	Not Planned
ODOT Division Information Centers	road network conditions	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	road network conditions	Tulsa RTMC	Not Planned
ODOT Division Information Centers	road network probe information	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	road network probe information	Tulsa RTMC	Not Planned
ODOT Division Information Centers	roadside archive data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	roadside archive data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	roadway equipment coordination	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	roadway equipment coordination	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	roadway equipment coordination	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	roadway information system data	Oklahoma City RTMC_Roadside Equipment	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	roadway information system data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	roadway information system data	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	roadway information system status	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	roadway information system status	Tulsa RTMC	Not Planned
ODOT Division Information Centers	roadway treatment system status	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	signal control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	signal control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	signal control data	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	signal control status	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	signal control status	Tulsa RTMC	Not Planned
ODOT Division Information Centers	speed monitoring control	MCO Field Devices	Not Planned
ODOT Division Information Centers	speed monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	speed monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	speed monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
ODOT Division Information Centers	speed monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	speed monitoring information	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	speed monitoring information	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	speed monitoring information	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traffic archive data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	traffic archive data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traffic control coordination	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	traffic control coordination	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traffic flow	Oklahoma City RTMC	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	traffic flow	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traffic images	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	traffic images	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traffic information coordination	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	traffic information coordination	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traffic operator data	Oklahoma City RTMC_Personnel	Not Planned
ODOT Division Information Centers	traffic operator data	Tulsa RTMC_Personnel	Not Planned
ODOT Division Information Centers	traffic sensor control	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	traffic sensor control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	traffic sensor control	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	traveler archive data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	traveler archive data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	traveler information	Statewide Transportation Information Center_Kiosks	Not Planned
ODOT Division Information Centers	traveler information	User Personal Computing Devices	Not Planned
ODOT Division Information Centers	traveler information	Vehicles	Not Planned
ODOT Division Information Centers	trip plan	Vehicles	Not Planned
ODOT Division Information Centers	vehicle probe data	Oklahoma City RTMC	Not Planned
ODOT Division Information Centers	vehicle probe data	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	vehicle probe data	Tulsa RTMC	Not Planned
ODOT Division Information Centers	vehicle signage data	Vehicles	Not Planned
ODOT Division Information Centers	video surveillance control	Oklahoma City RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	video surveillance control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
ODOT Division Information Centers	video surveillance control	Tulsa RTMC_Roadside Equipment	Not Planned
ODOT Division Information Centers	work zone warning notification	MCO Vehicles	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
ODOT Division Information Centers	work zone warning status	Statewide Transportation Information Center	Not Planned
ODOT Division Information Centers	yellow pages information	Statewide Transportation Information Center_Kiosks	Not Planned
ODOT Division Information Centers	yellow pages information	User Personal Computing Devices	Not Planned
ODOT Division Information Centers	yellow pages information	Vehicles	Not Planned
Oklahoma City RTMC	archive coordination	Oklahoma Transportation Authority	Planned
Oklahoma City RTMC	archive coordination	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	archive coordination	Tulsa RTMC	Planned
Oklahoma City RTMC	archive requests	Oklahoma CVIEW	Not Planned
Oklahoma City RTMC	archive requests	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma City RTMC	archive requests	Oklahoma Transportation Authority	Planned
Oklahoma City RTMC	archive requests	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	archive requests	Tulsa RTMC	Planned
Oklahoma City RTMC	archive status	Oklahoma CVIEW	Not Planned
Oklahoma City RTMC	archive status	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma City RTMC	archive status	Oklahoma Transportation Authority	Planned
Oklahoma City RTMC	archive status	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	archive status	Tulsa RTMC	Planned
Oklahoma City RTMC	broadcast information	Statewide Transportation Information Center_Kiosks	Planned
Oklahoma City RTMC	broadcast information	User Personal Computing Devices	Planned
Oklahoma City RTMC	freeway control data	Oklahoma City RTMC_Roadside Equipment	Planned
Oklahoma City RTMC	incident information	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma City RTMC	incident information	Oklahoma Highway Patrol	Planned
Oklahoma City RTMC	incident information	Statewide Transportation Information Center	Planned

## Oklahoma Statewide ITS Architecture

Source Element	Flow Name	Destination Element	Flow Status
Oklahoma City RTMC	incident information request	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma City RTMC	incident information request	Oklahoma Highway Patrol	Planned
Oklahoma City RTMC	ISP coordination	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	ISP coordination	Tulsa RTMC	Planned
Oklahoma City RTMC	ISP operating parameters	Oklahoma City RTMC_Personnel	Planned
Oklahoma City RTMC	ISP operating parameters	Statewide Transportation Information Center_Personnel	Planned
Oklahoma City RTMC	ISP operating parameters	Tulsa RTMC_Personnel	Planned
Oklahoma City RTMC	logged special vehicle route	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	logged special vehicle route	Tulsa RTMC	Planned
Oklahoma City RTMC	maint and constr resource request	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	parking lot data request	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	parking lot data request	Tulsa RTMC	Planned
Oklahoma City RTMC	request for road network conditions	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	request for road network conditions	Tulsa RTMC	Planned
Oklahoma City RTMC	resource deployment status	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma City RTMC	resource deployment status	Oklahoma Highway Patrol	Planned
Oklahoma City RTMC	road network conditions	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma City RTMC	road network conditions	Oklahoma Highway Patrol	Planned
Oklahoma City RTMC	road network conditions	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	road network conditions	Tulsa RTMC	Planned
Oklahoma City RTMC	roadway information system data	Oklahoma City RTMC_Roadside Equipment	Planned
Oklahoma City RTMC	toll data request	Oklahoma Transportation Authority	Planned
Oklahoma City RTMC	toll demand management request	Oklahoma Transportation Authority	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC	traffic archive data	Oklahoma Transportation Authority	Planned
Oklahoma City RTMC	traffic archive data	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	traffic archive data	Tulsa RTMC	Planned
Oklahoma City RTMC	traffic control coordination	Airports	Planned
Oklahoma City RTMC	traffic control coordination	Local TOCs	Planned
Oklahoma City RTMC	traffic control coordination	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	traffic control coordination	Tulsa RTMC	Planned
Oklahoma City RTMC	traffic information coordination	Airports	Planned
Oklahoma City RTMC	traffic information coordination	Local TOCs	Planned
Oklahoma City RTMC	traffic information coordination	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	traffic information coordination	Tulsa RTMC	Planned
Oklahoma City RTMC	traffic operator data	Oklahoma City RTMC_Personnel	Planned
Oklahoma City RTMC	traffic operator data	Statewide Transportation Information Center_Personnel	Planned
Oklahoma City RTMC	traffic operator data	Tulsa RTMC_Personnel	Planned
Oklahoma City RTMC	traffic sensor control	Oklahoma City RTMC_Roadside Equipment	Planned
Oklahoma City RTMC	traveler archive data	Oklahoma Transportation Authority	Planned
Oklahoma City RTMC	traveler archive data	Statewide Transportation Information Center	Planned
Oklahoma City RTMC	traveler archive data	Tulsa RTMC	Planned
Oklahoma City RTMC	video surveillance control	Oklahoma City RTMC_Roadside Equipment	Planned
Oklahoma City RTMC	archive coordination	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	archive requests	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	archive requests	Oklahoma Highway Patrol	Not Planned
Oklahoma City RTMC	archive requests	Weather Services	Not Planned
Oklahoma City RTMC	archive status	ODOT Division Information Centers	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC	archive status	Oklahoma Highway Patrol	Not Planned
Oklahoma City RTMC	archive status	Weather Services	Not Planned
Oklahoma City RTMC	broadcast information	Vehicles	Not Planned
Oklahoma City RTMC	data collection and monitoring control	MCO Field Devices	Not Planned
Oklahoma City RTMC	data collection and monitoring control	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	data collection and monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	data collection and monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	data collection and monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	data collection and monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	emergency traffic control response	Oklahoma Department of Civil Emergency Management Center	Not Planned
Oklahoma City RTMC	emergency traffic control response	Oklahoma Highway Patrol	Not Planned
Oklahoma City RTMC	environmental conditions data	Weather Services	Not Planned
Oklahoma City RTMC	environmental sensors control	MCO Field Devices	Not Planned
Oklahoma City RTMC	environmental sensors control	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	environmental sensors control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	environmental sensors control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	environmental sensors control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	environmental sensors control	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	fare and price information	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	fare and price information	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC	fare and price information	Tulsa RTMC	Not Planned
Oklahoma City RTMC	field equipment status	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC	freeway control data	MCO Field Devices	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC	freeway control data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	freeway control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	freeway control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	freeway control data	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri control data	MCO Field Devices	Not Planned
Oklahoma City RTMC	hri control data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	hri control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri control data	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri request	MCO Field Devices	Not Planned
Oklahoma City RTMC	hri request	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	hri request	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri request	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri request	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	hri request	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	ISP coordination	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	logged special vehicle route	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	request fare and price information	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	request fare and price information	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC	request fare and price information	Tulsa RTMC	Not Planned
Oklahoma City RTMC	request for road network conditions	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC	road network conditions	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	road network probe information	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	road network probe information	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC	road network probe information	Tulsa RTMC	Not Planned
Oklahoma City RTMC	roadway information system data	MCO Field Devices	Not Planned
Oklahoma City RTMC	roadway information system data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	roadway information system data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	roadway information system data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	roadway information system data	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	signal control data	MCO Field Devices	Not Planned
Oklahoma City RTMC	signal control data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	signal control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	signal control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	signal control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	signal control data	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	speed monitoring control	MCO Field Devices	Not Planned
Oklahoma City RTMC	speed monitoring control	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	speed monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	speed monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	speed monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	speed monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	traffic archive data	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC	traffic control coordination	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	traffic information coordination	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	traffic sensor control	MCO Field Devices	Not Planned
Oklahoma City RTMC	traffic sensor control	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	traffic sensor control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	traffic sensor control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	traffic sensor control	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	traveler archive data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	traveler information	Statewide Transportation Information Center_Kiosks	Not Planned
Oklahoma City RTMC	traveler information	User Personal Computing Devices	Not Planned
Oklahoma City RTMC	traveler information	Vehicles	Not Planned
Oklahoma City RTMC	trip plan	Statewide Transportation Information Center_Kiosks	Not Planned
Oklahoma City RTMC	trip plan	User Personal Computing Devices	Not Planned
Oklahoma City RTMC	trip plan	Vehicles	Not Planned
Oklahoma City RTMC	video surveillance control	MCO Field Devices	Not Planned
Oklahoma City RTMC	video surveillance control	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC	video surveillance control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Oklahoma City RTMC	video surveillance control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma City RTMC	video surveillance control	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma City RTMC	work plan feedback	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC	yellow pages information	Statewide Transportation Information Center_Kiosks	Not Planned
Oklahoma City RTMC	yellow pages information	User Personal Computing Devices	Not Planned
Oklahoma City RTMC	yellow pages information	Vehicles	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC_Personnel	ISP operating parameter updates	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Personnel	ISP operating parameter updates	Statewide Transportation Information Center	Planned
Oklahoma City RTMC_Personnel	ISP operating parameter updates	Tulsa RTMC	Planned
Oklahoma City RTMC_Personnel	traffic operator inputs	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Personnel	traffic operator inputs	Statewide Transportation Information Center	Planned
Oklahoma City RTMC_Personnel	traffic operator inputs	Tulsa RTMC	Planned
Oklahoma City RTMC_Personnel	ISP operating parameter updates	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Personnel	traffic operator inputs	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	freeway control status	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Roadside Equipment	hov data	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Roadside Equipment	request for right-of-way	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Roadside Equipment	roadway equipment coordination	Oklahoma Transportation Authority_Roadside Equipment	Planned
Oklahoma City RTMC_Roadside Equipment	roadway equipment coordination	Statewide Transportation Information Center_Roadside Equipment	Planned
Oklahoma City RTMC_Roadside Equipment	roadway equipment coordination	Tulsa RTMC_Roadside Equipment	Planned
Oklahoma City RTMC_Roadside Equipment	roadway information system status	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Roadside Equipment	traffic flow	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Roadside Equipment	traffic images	Oklahoma City RTMC	Planned
Oklahoma City RTMC_Roadside Equipment	emissions data	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC_Roadside Equipment	emissions data	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	emissions data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	emissions data	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental conditions data	MCO Vehicles	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental conditions data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental conditions data	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental conditions data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental conditions data	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental conditions data	Weather Services	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental probe data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental probe data	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental probe data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	environmental probe data	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	field device status	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	freeway control status	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	freeway control status	Statewide Transportation Information Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC_Roadside Equipment	freeway control status	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	hov data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	hov data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	hov data	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	hri status	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	hri status	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	hri status	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	hri status	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	infrastructure monitoring sensor data	MCO Vehicles	Not Planned
Oklahoma City RTMC_Roadside Equipment	infrastructure monitoring sensor data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	intersection blockage notification	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	intersection blockage notification	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	intersection blockage notification	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	intersection blockage notification	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	request for right-of-way	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	request for right-of-way	Statewide Transportation Information Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC_Roadside Equipment	request for right-of-way	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	request tag data	Vehicles	Not Planned
Oklahoma City RTMC_Roadside Equipment	reversible lane status	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	reversible lane status	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	reversible lane status	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	reversible lane status	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadside archive data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadside archive data	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadside archive data	Oklahoma Transportation Authority	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadside archive data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadside archive data	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadway equipment coordination	MCO Field Devices	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadway equipment coordination	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadway information system status	MCO Vehicles	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadway information system status	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadway information system status	Statewide Transportation Information Center	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC_Roadside Equipment	roadway information system status	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	roadway treatment system status	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	signal control status	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	signal control status	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	signal control status	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	signal control status	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	speed monitoring information	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	speed monitoring information	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	speed monitoring information	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	speed monitoring information	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	traffic flow	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	traffic flow	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	traffic flow	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	traffic images	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	traffic images	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	traffic images	Tulsa RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma City RTMC_Roadside Equipment	vehicle probe data	ODOT Division Information Centers	Not Planned
Oklahoma City RTMC_Roadside Equipment	vehicle probe data	Oklahoma City RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	vehicle probe data	Statewide Transportation Information Center	Not Planned
Oklahoma City RTMC_Roadside Equipment	vehicle probe data	Tulsa RTMC	Not Planned
Oklahoma City RTMC_Roadside Equipment	vehicle signage data	Vehicles	Not Planned
Oklahoma City RTMC_Roadside Equipment	work zone warning notification	MCO Vehicles	Not Planned
Oklahoma City RTMC_Roadside Equipment	work zone warning status	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	commercial vehicle archive data	ODOT Division Information Centers	Not Planned
Oklahoma CVIEW	commercial vehicle archive data	Oklahoma City RTMC	Not Planned
Oklahoma CVIEW	commercial vehicle archive data	Oklahoma Transportation Authority	Planned
Oklahoma CVIEW	commercial vehicle archive data	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	commercial vehicle archive data	Tulsa RTMC	Not Planned
Oklahoma CVIEW	credentials information	Oklahoma Inspection Facility	Planned
Oklahoma CVIEW	credentials status information	Oklahoma Inspection Facility	Planned
Oklahoma CVIEW	safety inspection report	Oklahoma Inspection Facility	Planned
Oklahoma CVIEW	safety status information	Oklahoma Inspection Facility	Planned
Oklahoma CVIEW	border agency clearance results	Oklahoma Inspection Facility	Not Planned
Oklahoma CVIEW	border clearance status	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	credential fee coordination	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	credentials information	Statewide Transportation Information Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma CVIEW	credentials status information	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	safety inspection report	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	safety status information	Statewide Transportation Information Center	Not Planned
Oklahoma CVIEW	transportation border clearance assessment	Oklahoma Inspection Facility	Not Planned
Oklahoma CVIEW	trip declaration identifiers	Oklahoma Inspection Facility	Not Planned
	accident report	Oklahoma CVIEW	Planned
CVO Inspector	citation	Oklahoma CVIEW	Not Planned
Oklahoma Inspection Facility	CVO inspector information	CVO Inspector	Planned
Oklahoma Inspection Facility	daily site activity data	Oklahoma CVIEW	Not Planned
Oklahoma Inspection Facility	electronic screening request	Commercial Vehicles	Planned
Oklahoma Inspection Facility	pass/pull-in	Commercial Vehicles	Planned
Oklahoma Inspection Facility	safety inspection request	Commercial Vehicles	Planned
Oklahoma Inspection Facility	screening event record	Commercial Vehicles	Planned
Oklahoma Inspection Facility	violation notification	Oklahoma CVIEW	Planned
CVO Inspector	accident report	Statewide Transportation Information Center	Not Planned
Oklahoma Inspection Facility	border clearance data request	Commercial Vehicles	Not Planned
Oklahoma Inspection Facility	border clearance event	Commercial Vehicles	Not Planned
Oklahoma Inspection Facility	border clearance event	Oklahoma CVIEW	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Inspection Facility	border clearance event	Statewide Transportation Information Center	Not Planned
Oklahoma Inspection Facility	citation	Statewide Transportation Information Center	Not Planned
Oklahoma Inspection Facility	daily site activity data	Statewide Transportation Information Center	Not Planned
Oklahoma Inspection Facility	driver log request	Commercial Vehicles	Not Planned
Oklahoma Inspection Facility	electronic lock data request	Commercial Vehicles	Not Planned
Oklahoma Inspection Facility	on-board safety request	Commercial Vehicles	Not Planned
Oklahoma Inspection Facility	safety inspection report	Statewide Transportation Information Center	Not Planned
Oklahoma Inspection Facility	violation notification	Statewide Transportation Information Center	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency archive data	Oklahoma City RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	emergency archive data	Oklahoma Transportation Authority	Planned
Oklahoma Department of Civil Emergency Management Center	emergency archive data	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	emergency archive data	Tulsa RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	incident information	ODOT Division Information Centers	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Department of Civil Emergency Management Center	incident information	Oklahoma City RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	incident information	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	incident information	Tulsa RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	incident report	Oklahoma Highway Patrol	Planned
Oklahoma Department of Civil Emergency Management Center	incident response coordination	Oklahoma Highway Patrol	Planned
Oklahoma Department of Civil Emergency Management Center	incident response status	ODOT Division Information Centers	Planned
Oklahoma Department of Civil Emergency Management Center	incident response status	Oklahoma City RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	incident response status	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	incident response status	Tulsa RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	maint and constr resource request	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management	remote surveillance control	ODOT Division Information Centers	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Center			
Oklahoma Department of Civil Emergency Management Center	remote surveillance control	Oklahoma City RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	remote surveillance control	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	remote surveillance control	Tulsa RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	resource request	ODOT Division Information Centers	Planned
Oklahoma Department of Civil Emergency Management Center	resource request	Oklahoma City RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	resource request	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	resource request	Tulsa RTMC	Planned
Oklahoma Department of Civil Emergency Management Center	road network probe information	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	work plan feedback	Statewide Transportation Information Center	Planned
Oklahoma Department of Civil Emergency Management Center	emergency acknowledge	Statewide Transportation Information Center_Kiosks	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Department of Civil Emergency Management Center	emergency acknowledge	User Personal Computing Devices	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency acknowledge	Vehicles	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency archive data	ODOT Division Information Centers	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency data request	Vehicles	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency dispatch requests	Emergency Vehicles	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency operations status	Oklahoma Highway Patrol Personnel	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency traffic control request	ODOT Division Information Centers	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency traffic control request	Oklahoma City RTMC	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency traffic control request	Statewide Transportation Information Center	Not Planned
Oklahoma Department of Civil Emergency Management Center	emergency traffic control request	Tulsa RTMC	Not Planned
Oklahoma Department of Civil Emergency Management	incident command information	Emergency Vehicles	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Center			
Oklahoma Department of Civil Emergency Management Center	incident report	Local 911 Centers	Not Planned
Oklahoma Department of Civil Emergency Management Center	incident response coordination	Local 911 Centers	Not Planned
Oklahoma Department of Civil Emergency Management Center	road network probe information	ODOT Division Information Centers	Not Planned
Oklahoma Department of Civil Emergency Management Center	road network probe information	Oklahoma City RTMC	Not Planned
Oklahoma Department of Civil Emergency Management Center	road network probe information	Tulsa RTMC	Not Planned
Oklahoma Department of Civil Emergency Management Center	secure area monitoring support	Statewide Transportation Information Center_Kiosks	Not Planned
Oklahoma Department of Civil Emergency Management Center	suggested route	Emergency Vehicles	Not Planned
Oklahoma Highway Patrol	emergency dispatch requests	Emergency Vehicles	Planned
Oklahoma Highway Patrol	emergency operations status	Oklahoma Highway Patrol_Personnel	Planned
Oklahoma Highway Patrol	emergency traffic control request	ODOT Division Information Centers	Planned
Oklahoma Highway Patrol	incident command information	Emergency Vehicles	Planned
Oklahoma Highway Patrol	incident information	ODOT Division Information Centers	Planned
Oklahoma Highway Patrol	incident information	Oklahoma City RTMC	Planned
Oklahoma Highway Patrol	incident information	Statewide Transportation Information Center	Planned
Oklahoma Highway Patrol	incident information	Tulsa RTMC	Planned



## Oklahoma Statewide ITS Architecture

Source Element	Flow Name	Destination Element	Flow Status
Oklahoma Highway Patrol	incident report	Local 911 Centers	Planned
Oklahoma Highway Patrol	incident report	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma Highway Patrol	incident response coordination	Local 911 Centers	Planned
Oklahoma Highway Patrol	incident response coordination	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma Highway Patrol	incident response status	ODOT Division Information Centers	Planned
Oklahoma Highway Patrol	incident response status	Oklahoma City RTMC	Planned
Oklahoma Highway Patrol	incident response status	Statewide Transportation Information Center	Planned
Oklahoma Highway Patrol	incident response status	Tulsa RTMC	Planned
Oklahoma Highway Patrol	maint and constr resource request	Statewide Transportation Information Center	Planned
Oklahoma Highway Patrol	remote surveillance control	ODOT Division Information Centers	Planned
Oklahoma Highway Patrol	remote surveillance control	Oklahoma City RTMC	Planned
Oklahoma Highway Patrol	remote surveillance control	Statewide Transportation Information Center	Planned
Oklahoma Highway Patrol	remote surveillance control	Tulsa RTMC	Planned
Oklahoma Highway Patrol	resource request	ODOT Division Information Centers	Planned
Oklahoma Highway Patrol	resource request	Oklahoma City RTMC	Planned
Oklahoma Highway Patrol	resource request	Statewide Transportation Information Center	Planned
Oklahoma Highway Patrol	resource request	Tulsa RTMC	Planned
Oklahoma Highway Patrol	suggested route	Emergency Vehicles	Planned
Oklahoma Highway Patrol	emergency acknowledge	Statewide Transportation Information Center_Kiosks	Not Planned
Oklahoma Highway Patrol	emergency acknowledge	User Personal Computing Devices	Not Planned
Oklahoma Highway Patrol	emergency acknowledge	Vehicles	Not Planned
Oklahoma Highway Patrol	emergency archive data	ODOT Division Information Centers	Not Planned
Oklahoma Highway Patrol	emergency archive data	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Highway Patrol	emergency archive data	Oklahoma Transportation Authority	Not Planned
Oklahoma Highway Patrol	emergency archive data	Statewide Transportation Information Center	Not Planned
Oklahoma Highway Patrol	emergency archive data	Tulsa RTMC	Not Planned
Oklahoma Highway Patrol	emergency data request	Vehicles	Not Planned
Oklahoma Highway Patrol	emergency traffic control request	Oklahoma City RTMC	Not Planned
Oklahoma Highway Patrol	emergency traffic control request	Statewide Transportation Information Center	Not Planned
Oklahoma Highway Patrol	emergency traffic control request	Tulsa RTMC	Not Planned
Oklahoma Highway Patrol	road network probe information	ODOT Division Information Centers	Not Planned
Oklahoma Highway Patrol	road network probe information	Oklahoma City RTMC	Not Planned
Oklahoma Highway Patrol	road network probe information	Statewide Transportation Information Center	Not Planned
Oklahoma Highway Patrol	road network probe information	Tulsa RTMC	Not Planned
Oklahoma Highway Patrol	secure area monitoring support	Statewide Transportation Information Center_Kiosks	Not Planned
Oklahoma Highway Patrol	work plan feedback	Statewide Transportation Information Center	Not Planned
Oklahoma Highway Patrol_Personnel	emergency operations request	Oklahoma Highway Patrol	Planned
Oklahoma Highway Patrol_Personnel	emergency operations request	Oklahoma Department of Civil Emergency Management Center	Not Planned
Oklahoma Transportation Authority	archive coordination	ODOT Division Information Centers	Planned
Oklahoma Transportation Authority	archive coordination	Oklahoma City RTMC	Planned
Oklahoma Transportation Authority	archive coordination	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	archive coordination	Tulsa RTMC	Planned
Oklahoma Transportation Authority	archive requests	ODOT Division Information Centers	Planned
Oklahoma Transportation Authority	archive requests	Oklahoma City RTMC	Planned

## Oklahoma Statewide ITS Architecture

Source Element	Flow Name	Destination Element	Flow Status
Oklahoma Transportation Authority	archive requests	Oklahoma CVIEW	Planned
Oklahoma Transportation Authority	archive requests	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma Transportation Authority	archive requests	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	archive requests	Tulsa RTMC	Planned
Oklahoma Transportation Authority	archive status	ODOT Division Information Centers	Planned
Oklahoma Transportation Authority	archive status	Oklahoma City RTMC	Planned
Oklahoma Transportation Authority	archive status	Oklahoma CVIEW	Planned
Oklahoma Transportation Authority	archive status	Oklahoma Department of Civil Emergency Management Center	Planned
Oklahoma Transportation Authority	archive status	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	archive status	Tulsa RTMC	Planned
Oklahoma Transportation Authority	data collection and monitoring control	ODOT Division Information Centers	Planned
Oklahoma Transportation Authority	data collection and monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Planned
Oklahoma Transportation Authority	probe data	Oklahoma City RTMC	Planned
Oklahoma Transportation Authority	probe data	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	probe data	Tulsa RTMC	Planned
Oklahoma Transportation Authority	toll archive data	Oklahoma City RTMC	Planned
Oklahoma Transportation Authority	toll archive data	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	toll archive data	Tulsa RTMC	Planned

## Oklahoma Statewide ITS Architecture

Source Element	Flow Name	Destination Element	Flow Status
Oklahoma Transportation Authority	toll data	Oklahoma City RTMC	Planned
Oklahoma Transportation Authority	toll data	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	toll data	Tulsa RTMC	Planned
Oklahoma Transportation Authority	toll demand management response	Oklahoma City RTMC	Planned
Oklahoma Transportation Authority	toll demand management response	Statewide Transportation Information Center	Planned
Oklahoma Transportation Authority	toll demand management response	Tulsa RTMC	Planned
Oklahoma Transportation Authority	toll instructions	Oklahoma Transportation Authority_Roadside Equipment	Existing
Oklahoma Transportation Authority	toll revenues and summary reports	Oklahoma Transportation Authority_Personnel	Existing
Oklahoma Transportation Authority	archive requests	Oklahoma Highway Patrol	Not Planned
Oklahoma Transportation Authority	archive requests	Weather Services	Not Planned
Oklahoma Transportation Authority	archive status	Oklahoma Highway Patrol	Not Planned
Oklahoma Transportation Authority	archive status	Weather Services	Not Planned
Oklahoma Transportation Authority	data collection and monitoring control	MCO Field Devices	Not Planned
Oklahoma Transportation Authority	data collection and monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Oklahoma Transportation Authority	data collection and monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Oklahoma Transportation Authority	data collection and monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Oklahoma Transportation Authority_Personnel	toll administration requests	Oklahoma Transportation Authority	Existing

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	infrastructure monitoring sensor data	MCO Vehicles	Planned
Oklahoma Transportation Authority_Roadside Equipment	request tag data	Vehicles	Existing
Oklahoma Transportation Authority_Roadside Equipment	roadside archive data	Oklahoma Transportation Authority	Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway equipment coordination	Oklahoma City RTMC_Roadside Equipment	Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway equipment coordination	Statewide Transportation Information Center_Roadside Equipment	Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway equipment coordination	Tulsa RTMC_Roadside Equipment	Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway information system status	MCO Vehicles	Planned
Oklahoma Transportation Authority_Roadside Equipment	tag update	Vehicles	Existing
Oklahoma Transportation Authority_Roadside Equipment	toll transactions	Oklahoma Transportation Authority	Existing
Oklahoma Transportation Authority_Roadside Equipment	emissions data	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	emissions data	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	emissions data	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	emissions data	Tulsa RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	environmental conditions data	MCO Vehicles	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental conditions data	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental conditions data	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental conditions data	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental conditions data	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental conditions data	Weather Services	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental probe data	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental probe data	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental probe data	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	environmental probe data	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	field device status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	freeway control status	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	freeway control status	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	freeway control status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	freeway control status	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hov data	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hov data	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hov data	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hov data	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hri status	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hri status	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hri status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	hri status	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	infrastructure monitoring sensor data	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	intersection blockage notification	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	intersection blockage notification	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	intersection blockage notification	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	intersection blockage notification	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	request for right-of-way	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	request for right-of-way	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	request for right-of-way	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	request for right-of-way	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	reversible lane status	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	reversible lane status	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	reversible lane status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	reversible lane status	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadside archive data	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadside archive data	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadside archive data	Statewide Transportation Information Center	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	roadside archive data	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway equipment coordination	MCO Field Devices	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway equipment coordination	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway information system status	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway information system status	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway information system status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway information system status	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	roadway treatment system status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	signal control status	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	signal control status	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	signal control status	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	signal control status	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	speed monitoring information	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	speed monitoring information	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	speed monitoring information	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	speed monitoring information	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic flow	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic flow	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic flow	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic flow	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic images	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic images	Oklahoma City RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic images	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	traffic images	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	vehicle probe data	ODOT Division Information Centers	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	vehicle probe data	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Oklahoma Transportation Authority_Roadside Equipment	vehicle probe data	Statewide Transportation Information Center	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	vehicle probe data	Tulsa RTMC	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	vehicle signage data	Vehicles	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	work zone warning notification	MCO Vehicles	Not Planned
Oklahoma Transportation Authority_Roadside Equipment	work zone warning status	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center	archive coordination	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	archive coordination	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	archive coordination	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	archive coordination	Tulsa RTMC	Planned
Statewide Transportation Information Center	archive requests	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	archive requests	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	archive requests	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	archive requests	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	archive requests	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	archive requests	Tulsa RTMC	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	archive status	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	archive status	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	archive status	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	archive status	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	archive status	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	archive status	Tulsa RTMC	Planned
Statewide Transportation Information Center	broadcast information	Statewide Transportation Information Center_Kiosks	Planned
Statewide Transportation Information Center	broadcast information	User Personal Computing Devices	Planned
Statewide Transportation Information Center	commercial vehicle archive data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	commercial vehicle archive data	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	commercial vehicle archive data	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	commercial vehicle archive data	Tulsa RTMC	Planned
Statewide Transportation Information Center	current asset restrictions	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	current asset restrictions	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	current asset restrictions	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	current asset restrictions	Oklahoma Department of Civil Emergency Management Center	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	current asset restrictions	Tulsa RTMC	Planned
Statewide Transportation Information Center	data collection and monitoring control	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	environmental sensors control	MCO Field Devices	Planned
Statewide Transportation Information Center	environmental sensors control	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	equipment maintenance status	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	freeway control data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	freeway control data	Statewide Transportation Information Center_Roadside Equipment	Planned
Statewide Transportation Information Center	incident information	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	incident information	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	incident information	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	incident information	Oklahoma Highway Patrol	Planned
Statewide Transportation Information Center	incident information	Tulsa RTMC	Planned
Statewide Transportation Information Center	incident information request	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	incident information request	Oklahoma Highway Patrol	Planned
Statewide Transportation Information Center	infrastructure monitoring sensor control	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	ISP coordination	ODOT Division Information Centers	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	ISP coordination	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	ISP coordination	Tulsa RTMC	Planned
Statewide Transportation Information Center	ISP operating parameters	Oklahoma City RTMC_Personnel	Planned
Statewide Transportation Information Center	ISP operating parameters	Statewide Transportation Information Center_Personnel	Planned
Statewide Transportation Information Center	logged special vehicle route	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	logged special vehicle route	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	logged special vehicle route	Tulsa RTMC	Planned
Statewide Transportation Information Center	maint and constr archive data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	maint and constr archive data	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	maint and constr archive data	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	maint and constr archive data	Tulsa RTMC	Planned
Statewide Transportation Information Center	maint and constr dispatch information	MCO Vehicles	Planned
Statewide Transportation Information Center	maint and constr resource response	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	maint and constr resource response	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	maint and constr resource response	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	maint and constr resource response	Oklahoma Highway Patrol	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	maint and constr resource response	Tulsa RTMC	Planned
Statewide Transportation Information Center	maint and constr vehicle system control	MCO Vehicles	Planned
Statewide Transportation Information Center	maint and constr work plans	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	maint and constr work plans	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	maint and constr work plans	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	maint and constr work plans	Tulsa RTMC	Planned
Statewide Transportation Information Center	parking archive data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	parking archive data	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	parking archive data	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	parking archive data	Tulsa RTMC	Planned
Statewide Transportation Information Center	parking information	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	parking information	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	parking information	Tulsa RTMC	Planned
Statewide Transportation Information Center	parking lot data request	Tulsa RTMC	Planned
Statewide Transportation Information Center	parking lot reservation confirmation	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	parking lot reservation confirmation	Tulsa RTMC	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	parking reservations request	Tulsa RTMC	Planned
Statewide Transportation Information Center	request for road network conditions	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	request for road network conditions	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	request for road network conditions	Tulsa RTMC	Planned
Statewide Transportation Information Center	resource deployment status	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	resource deployment status	Oklahoma Highway Patrol	Planned
Statewide Transportation Information Center	road network conditions	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	road network conditions	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	road network conditions	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	road network conditions	Oklahoma Highway Patrol	Planned
Statewide Transportation Information Center	road network conditions	Tulsa RTMC	Planned
Statewide Transportation Information Center	road network probe information	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	road weather information	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	road weather information	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	road weather information	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	road weather information	Tulsa RTMC	Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	road weather information	Weather Services	Planned
Statewide Transportation Information Center	roadway information system data	MCO Field Devices	Planned
Statewide Transportation Information Center	roadway information system data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	roadway information system data	Statewide Transportation Information Center_Roadside Equipment	Planned
Statewide Transportation Information Center	roadway maintenance status	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	roadway maintenance status	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	roadway maintenance status	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	roadway maintenance status	Tulsa RTMC	Planned
Statewide Transportation Information Center	signal control data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	toll data request	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	toll demand management request	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	traffic archive data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	traffic archive data	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	traffic archive data	Oklahoma Transportation Authority	Planned
Statewide Transportation Information Center	traffic archive data	Tulsa RTMC	Planned
Statewide Transportation Information Center	traffic control coordination	Airports	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	traffic control coordination	Local TOCs	Planned
Statewide Transportation Information Center	traffic control coordination	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	traffic control coordination	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	traffic control coordination	Tulsa RTMC	Planned
Statewide Transportation Information Center	traffic information coordination	Airports	Planned
Statewide Transportation Information Center	traffic information coordination	Local TOCs	Planned
Statewide Transportation Information Center	traffic information coordination	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	traffic information coordination	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	traffic information coordination	Tulsa RTMC	Planned
Statewide Transportation Information Center	traffic operator data	Oklahoma City RTMC_Personnel	Planned
Statewide Transportation Information Center	traffic operator data	Statewide Transportation Information Center_Personnel	Planned
Statewide Transportation Information Center	traffic sensor control	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	traffic sensor control	Statewide Transportation Information Center_Roadside Equipment	Planned
Statewide Transportation Information Center	traveler archive data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	traveler archive data	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	traveler archive data	Oklahoma Transportation Authority	Planned

## Oklahoma Statewide ITS Architecture

Source Element	Flow Name	Destination Element	Flow Status
Statewide Transportation Information Center	traveler archive data	Tulsa RTMC	Planned
Statewide Transportation Information Center	trip plan	Statewide Transportation Information Center_Kiosks	Planned
Statewide Transportation Information Center	trip plan	User Personal Computing Devices	Planned
Statewide Transportation Information Center	video surveillance control	MCO Field Devices	Planned
Statewide Transportation Information Center	video surveillance control	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	video surveillance control	Statewide Transportation Information Center_Roadside Equipment	Planned
Statewide Transportation Information Center	work zone information	ODOT Division Information Centers	Planned
Statewide Transportation Information Center	work zone information	Oklahoma City RTMC	Planned
Statewide Transportation Information Center	work zone information	Oklahoma Department of Civil Emergency Management Center	Planned
Statewide Transportation Information Center	work zone information	Tulsa RTMC	Planned
Statewide Transportation Information Center	archive requests	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	archive requests	Weather Services	Not Planned
Statewide Transportation Information Center	archive status	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	archive status	Weather Services	Not Planned
Statewide Transportation Information Center	border agency clearance results	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	border clearance status	Oklahoma CVIEW	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	broadcast information	Vehicles	Not Planned
Statewide Transportation Information Center	credential fee coordination	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	credentials information	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	credentials information	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	credentials status information	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	credentials status information	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	current asset restrictions	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	data collection and monitoring control	MCO Field Devices	Not Planned
Statewide Transportation Information Center	data collection and monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	data collection and monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	data collection and monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	data collection and monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	emergency traffic control response	Oklahoma Department of Civil Emergency Management Center	Not Planned
Statewide Transportation Information Center	emergency traffic control response	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	environmental conditions data	Weather Services	Not Planned
Statewide Transportation Information Center	environmental sensors control	MCO Vehicles	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	environmental sensors control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	environmental sensors control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	environmental sensors control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	environmental sensors control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	equipment maintenance status	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center	equipment maintenance status	Tulsa RTMC	Not Planned
Statewide Transportation Information Center	fare and price information	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center	fare and price information	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center	fare and price information	Tulsa RTMC	Not Planned
Statewide Transportation Information Center	freeway control data	MCO Field Devices	Not Planned
Statewide Transportation Information Center	freeway control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	freeway control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	freeway control data	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri control data	MCO Field Devices	Not Planned
Statewide Transportation Information Center	hri control data	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center	hri control data	Oklahoma City RTMC_Roadside Equipment	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	hri control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri control data	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri request	MCO Field Devices	Not Planned
Statewide Transportation Information Center	hri request	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center	hri request	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri request	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri request	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	hri request	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	infrastructure monitoring sensor control	MCO Field Devices	Not Planned
Statewide Transportation Information Center	infrastructure monitoring sensor control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	infrastructure monitoring sensor control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	infrastructure monitoring sensor control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	infrastructure monitoring sensor control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	ISP operating parameters	Tulsa RTMC_Personnel	Not Planned
Statewide Transportation Information Center	maint and constr work plans	Oklahoma Highway Patrol	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	request fare and price information	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center	request fare and price information	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center	request fare and price information	Tulsa RTMC	Not Planned
Statewide Transportation Information Center	road network probe information	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center	road network probe information	Tulsa RTMC	Not Planned
Statewide Transportation Information Center	road weather information	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	roadway information system data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	roadway information system data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	roadway information system data	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	roadway maintenance status	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	roadway treatment system control	MCO Field Devices	Not Planned
Statewide Transportation Information Center	roadway treatment system control	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center	roadway treatment system control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	roadway treatment system control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	roadway treatment system control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	roadway treatment system control	Tulsa RTMC_Roadside Equipment	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	safety inspection report	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	safety inspection report	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	safety status information	Oklahoma CVIEW	Not Planned
Statewide Transportation Information Center	safety status information	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	signal control data	MCO Field Devices	Not Planned
Statewide Transportation Information Center	signal control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	signal control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	signal control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	signal control data	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	speed monitoring control	MCO Field Devices	Not Planned
Statewide Transportation Information Center	speed monitoring control	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center	speed monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	speed monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	speed monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	speed monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	traffic operator data	Tulsa RTMC_Personnel	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	traffic sensor control	MCO Field Devices	Not Planned
Statewide Transportation Information Center	traffic sensor control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	traffic sensor control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	traffic sensor control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	transportation border clearance assessment	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	traveler information	Statewide Transportation Information Center_Kiosks	Not Planned
Statewide Transportation Information Center	traveler information	User Personal Computing Devices	Not Planned
Statewide Transportation Information Center	traveler information	Vehicles	Not Planned
Statewide Transportation Information Center	trip declaration identifiers	Oklahoma Inspection Facility	Not Planned
Statewide Transportation Information Center	trip plan	Vehicles	Not Planned
Statewide Transportation Information Center	video surveillance control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	video surveillance control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	video surveillance control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	work zone information	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center	work zone warning device control	MCO Field Devices	Not Planned
Statewide Transportation Information Center	work zone warning device control	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center	work zone warning device control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	work zone warning device control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Statewide Transportation Information Center	work zone warning device control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Statewide Transportation Information Center	work zone warning device control	Tulsa RTMC_Roadside Equipment	Not Planned
Statewide Transportation Information Center	yellow pages information	Statewide Transportation Information Center_Kiosks	Not Planned
Statewide Transportation Information Center	yellow pages information	User Personal Computing Devices	Not Planned
Statewide Transportation Information Center	yellow pages information	Vehicles	Not Planned
Statewide Transportation Information Center_Kiosks	trip confirmation	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Kiosks	trip confirmation	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Kiosks	trip request	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Kiosks	trip request	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Kiosks	emergency notification	Oklahoma Department of Civil Emergency Management Center	Not Planned
Statewide Transportation Information Center_Kiosks	emergency notification	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center_Kiosks	secure area surveillance data	Oklahoma Department of Civil Emergency Management Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Kiosks	secure area surveillance data	Oklahoma Highway Patrol	Not Planned
Statewide Transportation Information Center_Kiosks	traveler request	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Kiosks	traveler request	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	traveler request	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Kiosks	traveler request	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	trip confirmation	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	trip confirmation	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	trip request	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	trip request	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	yellow pages request	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Kiosks	yellow pages request	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Kiosks	yellow pages request	Statewide Transportation Information Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Kiosks	yellow pages request	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Personnel	ISP operating parameter updates	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Personnel	ISP operating parameter updates	Oklahoma City RTMC	Planned
Statewide Transportation Information Center_Personnel	ISP operating parameter updates	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Personnel	ISP operating parameter updates	Tulsa RTMC	Planned
Statewide Transportation Information Center_Personnel	traffic operator inputs	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Personnel	traffic operator inputs	Oklahoma City RTMC	Planned
Statewide Transportation Information Center_Personnel	traffic operator inputs	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Personnel	traffic operator inputs	Tulsa RTMC	Planned
Statewide Transportation Information Center_Roadside Equipment	freeway control status	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	freeway control status	Statewide Transportation Information Center	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	hov data	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	hov data	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Roadside Equipment	request for right-of-way	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	request for right-of-way	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Roadside Equipment	roadway equipment coordination	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	roadway equipment coordination	Oklahoma City RTMC_Roadside Equipment	Planned
Statewide Transportation Information Center_Roadside Equipment	roadway equipment coordination	Oklahoma Transportation Authority_Roadside Equipment	Planned
Statewide Transportation Information Center_Roadside Equipment	roadway equipment coordination	Tulsa RTMC_Roadside Equipment	Planned
Statewide Transportation Information Center_Roadside Equipment	roadway information system status	ODOT Division Information Centers	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	roadway information system status	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Roadside Equipment	signal control status	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	traffic flow	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	traffic flow	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Roadside Equipment	traffic images	ODOT Division Information Centers	Planned
Statewide Transportation Information Center_Roadside Equipment	traffic images	Statewide Transportation Information Center	Planned
Statewide Transportation Information Center_Roadside Equipment	emissions data	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	emissions data	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	emissions data	Statewide Transportation Information Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	emissions data	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental conditions data	MCO Vehicles	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental conditions data	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental conditions data	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental conditions data	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental conditions data	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental conditions data	Weather Services	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental probe data	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental probe data	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	environmental probe data	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	environmental probe data	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	field device status	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	freeway control status	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	freeway control status	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	hov data	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	hov data	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	hri status	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	hri status	Oklahoma City RTMC	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	hri status	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	hri status	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	infrastructure monitoring sensor data	MCO Vehicles	Not Planned
Statewide Transportation Information Center_Roadside Equipment	infrastructure monitoring sensor data	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	intersection blockage notification	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	intersection blockage notification	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	intersection blockage notification	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	intersection blockage notification	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	request for right-of-way	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	request for right-of-way	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	request tag data	Vehicles	Not Planned
Statewide Transportation Information Center_Roadside Equipment	reversible lane status	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	reversible lane status	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	reversible lane status	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	reversible lane status	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadside archive data	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadside archive data	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadside archive data	Oklahoma Transportation Authority	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	roadside archive data	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadside archive data	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadway equipment coordination	MCO Field Devices	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadway information system status	MCO Vehicles	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadway information system status	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadway information system status	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	roadway treatment system status	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	signal control status	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	signal control status	Statewide Transportation Information Center	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	signal control status	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	speed monitoring information	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	speed monitoring information	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	speed monitoring information	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	speed monitoring information	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	traffic flow	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	traffic flow	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	traffic images	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	traffic images	Tulsa RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Statewide Transportation Information Center_Roadside Equipment	vehicle probe data	ODOT Division Information Centers	Not Planned
Statewide Transportation Information Center_Roadside Equipment	vehicle probe data	Oklahoma City RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	vehicle probe data	Statewide Transportation Information Center	Not Planned
Statewide Transportation Information Center_Roadside Equipment	vehicle probe data	Tulsa RTMC	Not Planned
Statewide Transportation Information Center_Roadside Equipment	vehicle signage data	Vehicles	Not Planned
Statewide Transportation Information Center_Roadside Equipment	work zone warning notification	MCO Vehicles	Not Planned
Statewide Transportation Information Center_Roadside Equipment	work zone warning status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC	archive coordination	Oklahoma City RTMC	Planned
Tulsa RTMC	archive coordination	Oklahoma Transportation Authority	Planned
Tulsa RTMC	archive coordination	Statewide Transportation Information Center	Planned
Tulsa RTMC	archive requests	Oklahoma City RTMC	Planned
Tulsa RTMC	archive requests	Oklahoma CVIEW	Not Planned
Tulsa RTMC	archive requests	Oklahoma Department of Civil Emergency Management Center	Planned
Tulsa RTMC	archive requests	Oklahoma Transportation Authority	Planned
Tulsa RTMC	archive requests	Statewide Transportation Information Center	Planned

## Oklahoma Statewide ITS Architecture

Source Element	Flow Name	Destination Element	Flow Status
Tulsa RTMC	archive status	Oklahoma City RTMC	Planned
Tulsa RTMC	archive status	Oklahoma CVIEW	Not Planned
Tulsa RTMC	archive status	Oklahoma Department of Civil Emergency Management Center	Planned
Tulsa RTMC	archive status	Oklahoma Transportation Authority	Planned
Tulsa RTMC	archive status	Statewide Transportation Information Center	Planned
Tulsa RTMC	broadcast information	Statewide Transportation Information Center_Kiosks	Planned
Tulsa RTMC	broadcast information	User Personal Computing Devices	Planned
Tulsa RTMC	freeway control data	Tulsa RTMC_Roadside Equipment	Planned
Tulsa RTMC	incident information	Oklahoma Department of Civil Emergency Management Center	Planned
Tulsa RTMC	incident information	Oklahoma Highway Patrol	Planned
Tulsa RTMC	incident information	Statewide Transportation Information Center	Planned
Tulsa RTMC	incident information request	Oklahoma Department of Civil Emergency Management Center	Planned
Tulsa RTMC	incident information request	Oklahoma Highway Patrol	Planned
Tulsa RTMC	ISP coordination	Oklahoma City RTMC	Planned
Tulsa RTMC	ISP coordination	Statewide Transportation Information Center	Planned
Tulsa RTMC	ISP operating parameters	Oklahoma City RTMC_Personnel	Planned
Tulsa RTMC	ISP operating parameters	Statewide Transportation Information Center_Personnel	Planned
Tulsa RTMC	ISP operating parameters	Tulsa RTMC_Personnel	Planned
Tulsa RTMC	logged special vehicle route	Oklahoma City RTMC	Planned
Tulsa RTMC	logged special vehicle route	Statewide Transportation Information Center	Planned
Tulsa RTMC	maint and constr resource request	Statewide Transportation Information Center	Planned
Tulsa RTMC	parking archive data	Oklahoma City RTMC	Planned
Tulsa RTMC	parking archive data	Oklahoma Transportation Authority	Planned
Tulsa RTMC	parking archive data	Statewide Transportation Information Center	Planned
Tulsa RTMC	parking information	Oklahoma City RTMC	Planned
Tulsa RTMC	parking information	Statewide Transportation Information Center	Planned
Tulsa RTMC	parking lot data request	Statewide Transportation Information Center	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC	parking lot reservation confirmation	Statewide Transportation Information Center	Planned
Tulsa RTMC	parking reservations request	Statewide Transportation Information Center	Planned
Tulsa RTMC	request for road network conditions	Oklahoma City RTMC	Planned
Tulsa RTMC	request for road network conditions	Statewide Transportation Information Center	Planned
Tulsa RTMC	resource deployment status	Oklahoma Department of Civil Emergency Management Center	Planned
Tulsa RTMC	resource deployment status	Oklahoma Highway Patrol	Planned
Tulsa RTMC	road network conditions	Oklahoma City RTMC	Planned
Tulsa RTMC	road network conditions	Oklahoma Department of Civil Emergency Management Center	Planned
Tulsa RTMC	road network conditions	Oklahoma Highway Patrol	Planned
Tulsa RTMC	road network conditions	Statewide Transportation Information Center	Planned
Tulsa RTMC	roadway information system data	Tulsa RTMC_Roadside Equipment	Planned
Tulsa RTMC	toll data request	Oklahoma Transportation Authority	Planned
Tulsa RTMC	toll demand management request	Oklahoma Transportation Authority	Planned
Tulsa RTMC	traffic archive data	Oklahoma City RTMC	Planned
Tulsa RTMC	traffic archive data	Oklahoma Transportation Authority	Planned
Tulsa RTMC	traffic archive data	Statewide Transportation Information Center	Planned
Tulsa RTMC	traffic control coordination	Airports	Planned
Tulsa RTMC	traffic control coordination	Local TOCs	Planned
Tulsa RTMC	traffic control coordination	Oklahoma City RTMC	Planned
Tulsa RTMC	traffic control coordination	Statewide Transportation Information Center	Planned
Tulsa RTMC	traffic information coordination	Airports	Planned
Tulsa RTMC	traffic information coordination	Local TOCs	Planned
Tulsa RTMC	traffic information coordination	Oklahoma City RTMC	Planned
Tulsa RTMC	traffic information coordination	Statewide Transportation Information Center	Planned
Tulsa RTMC	traffic operator data	Oklahoma City RTMC_Personnel	Planned
Tulsa RTMC	traffic operator data	Statewide Transportation Information Center_Personnel	Planned
Tulsa RTMC	traffic operator data	Tulsa RTMC_Personnel	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC	traffic sensor control	Tulsa RTMC_Roadside Equipment	Planned
Tulsa RTMC	traveler archive data	Oklahoma City RTMC	Planned
Tulsa RTMC	traveler archive data	Oklahoma Transportation Authority	Planned
Tulsa RTMC	traveler archive data	Statewide Transportation Information Center	Planned
Tulsa RTMC	video surveillance control	Tulsa RTMC_Roadside Equipment	Planned
Tulsa RTMC	archive coordination	ODOT Division Information Centers	Not Planned
Tulsa RTMC	archive requests	ODOT Division Information Centers	Not Planned
Tulsa RTMC	archive requests	Oklahoma Highway Patrol	Not Planned
Tulsa RTMC	archive requests	Weather Services	Not Planned
Tulsa RTMC	archive status	ODOT Division Information Centers	Not Planned
Tulsa RTMC	archive status	Oklahoma Highway Patrol	Not Planned
Tulsa RTMC	archive status	Weather Services	Not Planned
Tulsa RTMC	broadcast information	Vehicles	Not Planned
Tulsa RTMC	data collection and monitoring control	MCO Field Devices	Not Planned
Tulsa RTMC	data collection and monitoring control	ODOT Division Information Centers	Not Planned
Tulsa RTMC	data collection and monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	data collection and monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	data collection and monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	data collection and monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	emergency traffic control response	Oklahoma Department of Civil Emergency Management Center	Not Planned
Tulsa RTMC	emergency traffic control response	Oklahoma Highway Patrol	Not Planned
Tulsa RTMC	environmental conditions data	Weather Services	Not Planned
Tulsa RTMC	environmental sensors control	MCO Field Devices	Not Planned
Tulsa RTMC	environmental sensors control	ODOT Division Information Centers	Not Planned
Tulsa RTMC	environmental sensors control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	environmental sensors control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC	environmental sensors control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	environmental sensors control	Tulsa RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	fare and price information	ODOT Division Information Centers	Not Planned
Tulsa RTMC	fare and price information	Oklahoma City RTMC	Not Planned
Tulsa RTMC	fare and price information	Statewide Transportation Information Center	Not Planned
Tulsa RTMC	field equipment status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC	freeway control data	MCO Field Devices	Not Planned
Tulsa RTMC	freeway control data	ODOT Division Information Centers	Not Planned
Tulsa RTMC	freeway control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	freeway control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	freeway control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	hri control data	MCO Field Devices	Not Planned
Tulsa RTMC	hri control data	ODOT Division Information Centers	Not Planned
Tulsa RTMC	hri control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	hri control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	hri control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	hri control data	Tulsa RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	hri request	MCO Field Devices	Not Planned
Tulsa RTMC	hri request	ODOT Division Information Centers	Not Planned
Tulsa RTMC	hri request	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	hri request	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	hri request	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	hri request	Tulsa RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	ISP coordination	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC	logged special vehicle route	ODOT Division Information Centers	Not Planned
Tulsa RTMC	request fare and price information	ODOT Division Information Centers	Not Planned
Tulsa RTMC	request fare and price information	Oklahoma City RTMC	Not Planned
Tulsa RTMC	request fare and price information	Statewide Transportation Information Center	Not Planned
Tulsa RTMC	request for road network conditions	ODOT Division Information Centers	Not Planned
Tulsa RTMC	road network conditions	ODOT Division Information Centers	Not Planned
Tulsa RTMC	road network probe information	ODOT Division Information Centers	Not Planned
Tulsa RTMC	road network probe information	Oklahoma City RTMC	Not Planned
Tulsa RTMC	road network probe information	Statewide Transportation Information Center	Not Planned
Tulsa RTMC	roadway information system data	MCO Field Devices	Not Planned
Tulsa RTMC	roadway information system data	ODOT Division Information Centers	Not Planned
Tulsa RTMC	roadway information system data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	roadway information system data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	roadway information system data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	signal control data	MCO Field Devices	Not Planned
Tulsa RTMC	signal control data	ODOT Division Information Centers	Not Planned
Tulsa RTMC	signal control data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	signal control data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	signal control data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	signal control data	Tulsa RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	speed monitoring control	MCO Field Devices	Not Planned
Tulsa RTMC	speed monitoring control	ODOT Division Information Centers	Not Planned
Tulsa RTMC	speed monitoring control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	speed monitoring control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC	speed monitoring control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	speed monitoring control	Tulsa RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	traffic archive data	ODOT Division Information Centers	Not Planned
Tulsa RTMC	traffic control coordination	ODOT Division Information Centers	Not Planned
Tulsa RTMC	traffic information coordination	ODOT Division Information Centers	Not Planned
Tulsa RTMC	traffic sensor control	MCO Field Devices	Not Planned
Tulsa RTMC	traffic sensor control	ODOT Division Information Centers	Not Planned
Tulsa RTMC	traffic sensor control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	traffic sensor control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	traffic sensor control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	traveler archive data	ODOT Division Information Centers	Not Planned
Tulsa RTMC	traveler information	Statewide Transportation Information Center_Kiosks	Not Planned
Tulsa RTMC	traveler information	User Personal Computing Devices	Not Planned
Tulsa RTMC	traveler information	Vehicles	Not Planned
Tulsa RTMC	trip plan	Statewide Transportation Information Center_Kiosks	Not Planned
Tulsa RTMC	trip plan	User Personal Computing Devices	Not Planned
Tulsa RTMC	trip plan	Vehicles	Not Planned
Tulsa RTMC	video surveillance control	MCO Field Devices	Not Planned
Tulsa RTMC	video surveillance control	ODOT Division Information Centers	Not Planned
Tulsa RTMC	video surveillance control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Tulsa RTMC	video surveillance control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Tulsa RTMC	video surveillance control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Tulsa RTMC	work plan feedback	Statewide Transportation Information Center	Not Planned
Tulsa RTMC	yellow pages information	Statewide Transportation Information Center_Kiosks	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC	yellow pages information	User Personal Computing Devices	Not Planned
Tulsa RTMC	yellow pages information	Vehicles	Not Planned
Tulsa RTMC_Personnel	ISP operating parameter updates	Oklahoma City RTMC	Planned
Tulsa RTMC_Personnel	ISP operating parameter updates	Tulsa RTMC	Planned
Tulsa RTMC_Personnel	traffic operator inputs	Oklahoma City RTMC	Planned
Tulsa RTMC_Personnel	traffic operator inputs	Tulsa RTMC	Planned
Tulsa RTMC_Personnel	ISP operating parameter updates	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Personnel	ISP operating parameter updates	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Personnel	traffic operator inputs	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Personnel	traffic operator inputs	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	freeway control status	Tulsa RTMC	Planned
Tulsa RTMC_Roadside Equipment	request for right-of-way	Tulsa RTMC	Planned
Tulsa RTMC_Roadside Equipment	roadway equipment coordination	Oklahoma City RTMC_Roadside Equipment	Planned
Tulsa RTMC_Roadside Equipment	roadway equipment coordination	Oklahoma Transportation Authority_Roadside Equipment	Planned
Tulsa RTMC_Roadside Equipment	roadway equipment coordination	Statewide Transportation Information Center_Roadside Equipment	Planned
Tulsa RTMC_Roadside Equipment	roadway information system status	Tulsa RTMC	Planned
Tulsa RTMC_Roadside Equipment	traffic flow	Tulsa RTMC	Planned
Tulsa RTMC_Roadside Equipment	traffic images	Tulsa RTMC	Planned
Tulsa RTMC_Roadside Equipment	emissions data	ODOT Division Information Centers	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC_Roadside Equipment	emissions data	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	emissions data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	emissions data	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	environmental conditions data	MCO Vehicles	Not Planned
Tulsa RTMC_Roadside Equipment	environmental conditions data	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	environmental conditions data	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	environmental conditions data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	environmental conditions data	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	environmental conditions data	Weather Services	Not Planned
Tulsa RTMC_Roadside Equipment	environmental probe data	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	environmental probe data	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	environmental probe data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	environmental probe data	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	field device status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	freeway control status	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	freeway control status	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC_Roadside Equipment	freeway control status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	hov data	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	hov data	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	hov data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	hov data	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	hri status	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	hri status	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	hri status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	hri status	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	infrastructure monitoring sensor data	MCO Vehicles	Not Planned
Tulsa RTMC_Roadside Equipment	infrastructure monitoring sensor data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	intersection blockage notification	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	intersection blockage notification	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	intersection blockage notification	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	intersection blockage notification	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	request for right-of-way	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC_Roadside Equipment	request for right-of-way	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	request for right-of-way	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	request tag data	Vehicles	Not Planned
Tulsa RTMC_Roadside Equipment	reversible lane status	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	reversible lane status	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	reversible lane status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	reversible lane status	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	roadside archive data	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	roadside archive data	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	roadside archive data	Oklahoma Transportation Authority	Not Planned
Tulsa RTMC_Roadside Equipment	roadside archive data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	roadside archive data	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	roadway equipment coordination	MCO Field Devices	Not Planned
Tulsa RTMC_Roadside Equipment	roadway equipment coordination	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	roadway information system status	MCO Vehicles	Not Planned
Tulsa RTMC_Roadside Equipment	roadway information system status	ODOT Division Information Centers	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC_Roadside Equipment	roadway information system status	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	roadway information system status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	roadway treatment system status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	signal control status	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	signal control status	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	signal control status	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	signal control status	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	speed monitoring information	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	speed monitoring information	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	speed monitoring information	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	speed monitoring information	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	traffic flow	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	traffic flow	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	traffic flow	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	traffic images	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	traffic images	Oklahoma City RTMC	Not Planned



**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Tulsa RTMC_Roadside Equipment	traffic images	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	vehicle probe data	ODOT Division Information Centers	Not Planned
Tulsa RTMC_Roadside Equipment	vehicle probe data	Oklahoma City RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	vehicle probe data	Statewide Transportation Information Center	Not Planned
Tulsa RTMC_Roadside Equipment	vehicle probe data	Tulsa RTMC	Not Planned
Tulsa RTMC_Roadside Equipment	vehicle signage data	Vehicles	Not Planned
Tulsa RTMC_Roadside Equipment	work zone warning notification	MCO Vehicles	Not Planned
Tulsa RTMC_Roadside Equipment	work zone warning status	Statewide Transportation Information Center	Not Planned
User Personal Computing Devices	trip confirmation	ODOT Division Information Centers	Planned
User Personal Computing Devices	trip confirmation	Statewide Transportation Information Center	Planned
User Personal Computing Devices	trip request	ODOT Division Information Centers	Planned
User Personal Computing Devices	trip request	Statewide Transportation Information Center	Planned
User Personal Computing Devices	emergency notification	Oklahoma Department of Civil Emergency Management Center	Not Planned
User Personal Computing Devices	emergency notification	Oklahoma Highway Patrol	Not Planned
User Personal Computing Devices	traveler profile	ODOT Division Information Centers	Not Planned
User Personal Computing Devices	traveler profile	Oklahoma City RTMC	Not Planned
User Personal Computing Devices	traveler profile	Statewide Transportation Information Center	Not Planned
User Personal Computing Devices	traveler profile	Tulsa RTMC	Not Planned
User Personal Computing Devices	traveler request	ODOT Division Information Centers	Not Planned
User Personal Computing Devices	traveler request	Oklahoma City RTMC	Not Planned

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<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
User Personal Computing Devices	traveler request	Statewide Transportation Information Center	Not Planned
User Personal Computing Devices	traveler request	Tulsa RTMC	Not Planned
User Personal Computing Devices	trip confirmation	Oklahoma City RTMC	Not Planned
User Personal Computing Devices	trip confirmation	Tulsa RTMC	Not Planned
User Personal Computing Devices	trip request	Oklahoma City RTMC	Not Planned
User Personal Computing Devices	trip request	Tulsa RTMC	Not Planned
User Personal Computing Devices	yellow pages request	ODOT Division Information Centers	Not Planned
User Personal Computing Devices	yellow pages request	Oklahoma City RTMC	Not Planned
User Personal Computing Devices	yellow pages request	Statewide Transportation Information Center	Not Planned
User Personal Computing Devices	yellow pages request	Tulsa RTMC	Not Planned
Vehicles	tag data	Oklahoma Transportation Authority_Roadside Equipment	Existing
Vehicles	commercial vehicle data request	Commercial Vehicles	Not Planned
Vehicles	emergency notification	Oklahoma Department of Civil Emergency Management Center	Not Planned
Vehicles	emergency notification	Oklahoma Highway Patrol	Not Planned
Vehicles	environmental probe data	MCO Field Devices	Not Planned
Vehicles	environmental probe data	ODOT Division Information Centers	Not Planned
Vehicles	environmental probe data	Oklahoma City RTMC	Not Planned
Vehicles	environmental probe data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Vehicles	environmental probe data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Vehicles	environmental probe data	Statewide Transportation Information Center	Not Planned
Vehicles	environmental probe data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Vehicles	environmental probe data	Tulsa RTMC	Not Planned
Vehicles	environmental probe data	Tulsa RTMC_Roadside Equipment	Not Planned
Vehicles	safety system status	MCO Vehicles	Not Planned
Vehicles	traveler profile	ODOT Division Information Centers	Not Planned
Vehicles	traveler profile	Oklahoma City RTMC	Not Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Vehicles	traveler profile	Statewide Transportation Information Center	Not Planned
Vehicles	traveler profile	Tulsa RTMC	Not Planned
Vehicles	traveler request	ODOT Division Information Centers	Not Planned
Vehicles	traveler request	Oklahoma City RTMC	Not Planned
Vehicles	traveler request	Statewide Transportation Information Center	Not Planned
Vehicles	traveler request	Tulsa RTMC	Not Planned
Vehicles	trip confirmation	ODOT Division Information Centers	Not Planned
Vehicles	trip confirmation	Oklahoma City RTMC	Not Planned
Vehicles	trip confirmation	Statewide Transportation Information Center	Not Planned
Vehicles	trip confirmation	Tulsa RTMC	Not Planned
Vehicles	trip request	ODOT Division Information Centers	Not Planned
Vehicles	trip request	Oklahoma City RTMC	Not Planned
Vehicles	trip request	Statewide Transportation Information Center	Not Planned
Vehicles	trip request	Tulsa RTMC	Not Planned
Vehicles	vehicle location	Commercial Vehicles	Not Planned
Vehicles	vehicle location	Emergency Vehicles	Not Planned
Vehicles	vehicle location	MCO Vehicles	Not Planned
Vehicles	vehicle probe data	MCO Field Devices	Not Planned
Vehicles	vehicle probe data	ODOT Division Information Centers	Not Planned
Vehicles	vehicle probe data	Oklahoma City RTMC	Not Planned
Vehicles	vehicle probe data	Oklahoma City RTMC_Roadside Equipment	Not Planned
Vehicles	vehicle probe data	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Vehicles	vehicle probe data	Statewide Transportation Information Center	Not Planned
Vehicles	vehicle probe data	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Vehicles	vehicle probe data	Tulsa RTMC	Not Planned
Vehicles	vehicle probe data	Tulsa RTMC_Roadside Equipment	Not Planned
Vehicles	yellow pages request	ODOT Division Information Centers	Not Planned
Vehicles	yellow pages request	Oklahoma City RTMC	Not Planned
Vehicles	yellow pages request	Statewide Transportation Information Center	Not Planned
Vehicles	yellow pages request	Tulsa RTMC	Not Planned
Weather Services	weather information	ODOT Division Information Centers	Planned

**Oklahoma Statewide ITS Architecture**

<b>Source Element</b>	<b>Flow Name</b>	<b>Destination Element</b>	<b>Flow Status</b>
Weather Services	weather information	Oklahoma City RTMC	Planned
Weather Services	weather information	Oklahoma Department of Civil Emergency Management Center	Planned
Weather Services	weather information	Statewide Transportation Information Center	Planned
Weather Services	weather information	Tulsa RTMC	Planned
Weather Services	environmental conditions data	ODOT Division Information Centers	Not Planned
Weather Services	environmental conditions data	Oklahoma City RTMC	Not Planned
Weather Services	environmental conditions data	Statewide Transportation Information Center	Not Planned
Weather Services	environmental conditions data	Tulsa RTMC	Not Planned
Weather Services	environmental sensors control	MCO Field Devices	Not Planned
Weather Services	environmental sensors control	ODOT Division Information Centers	Not Planned
Weather Services	environmental sensors control	Oklahoma City RTMC_Roadside Equipment	Not Planned
Weather Services	environmental sensors control	Oklahoma Transportation Authority_Roadside Equipment	Not Planned
Weather Services	environmental sensors control	Statewide Transportation Information Center_Roadside Equipment	Not Planned
Weather Services	environmental sensors control	Tulsa RTMC_Roadside Equipment	Not Planned
Weather Services	weather information	Oklahoma Highway Patrol	Not Planned
Weather Services	weather information	Oklahoma Transportation Authority	Not Planned