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INTELLIGENT TRANSPORTATION SYSTEMS STRATEGIC DEPLOYMENT PLAN



# Appendix I

## APPENDIX I: EQUIPMENT PACKAGES ASSIGNED TO ELEMENTS:

This appendix contains two tables. The first is the mapping of equipment packages (or functions) to elements. The second is the definition of each of the equipment packages identified in the first table.

**Equipment Packages Selections by Element**

<b>Element</b>	<b>Equipment Package</b>
Air Quality Website	Basic Information Broadcast
Airport Dispatch Center	Emergency Dispatch
Airport Dispatch Center	Emergency Response Management
Airport Dispatch Center	Incident Command
California HPMS	Government Reporting Systems Support
California HPMS	ITS Data Repository
California Office of Emergency Services Operations Centers	Emergency Early Warning System
California Office of Emergency Services Operations Centers	Emergency Evacuation Support
California Office of Emergency Services Operations Centers	Emergency Response Management
California Office of Emergency Services Operations Centers	Incident Command
Caltrans D3 Data Server	Basic Information Broadcast
Caltrans D3 Data Server	Interactive Infrastructure Information
Caltrans D3 Data Server	ISP Data Collection
Caltrans D3 Maintenance Dispatch	MCM Automated Treatment System Control
Caltrans D3 Maintenance Dispatch	MCM Environmental Information Collection
Caltrans D3 Maintenance Dispatch	MCM Environmental Information Processing
Caltrans D3 Maintenance Dispatch	MCM Incident Management
Caltrans D3 Maintenance Dispatch	MCM Maintenance Decision Support
Caltrans D3 Maintenance Dispatch	MCM Roadway Maintenance and Construction
Caltrans D3 Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
Caltrans D3 Maintenance Dispatch	MCM Vehicle Tracking
Caltrans D3 Maintenance Dispatch	MCM Winter Maintenance Management
Caltrans D3 Maintenance Dispatch	MCM Work Activity Coordination
Caltrans D3 Maintenance Dispatch	MCM Work Zone Management
Caltrans D3 Maintenance Dispatch	MCM Work Zone Safety Management
Caltrans D3 Maintenance Vehicles	MCV Roadway Maintenance and Construction
Caltrans D3 Maintenance Vehicles	MCV Vehicle Location Tracking
Caltrans D3 Maintenance Vehicles	MCV Vehicle Safety Monitoring
Caltrans D3 Maintenance Vehicles	MCV Vehicle System Monitoring and Diagnostics
Caltrans D3 Maintenance Vehicles	MCV Winter Maintenance
Caltrans D3 Maintenance Vehicles	MCV Work Zone Support
Caltrans D3 Website	Basic Information Broadcast
Caltrans D3 Website	ISP Emergency Traveler Information

<b>Element</b>	<b>Equipment Package</b>
Caltrans Performance Monitoring System (PeMS)	Government Reporting Systems Support
Caltrans Performance Monitoring System (PeMS)	ITS Data Repository
Caltrans Roadside Equipment	Roadway Basic Surveillance
Caltrans Roadside Equipment	Roadway Emissions Monitoring
Caltrans Roadside Equipment	Roadway Equipment Coordination
Caltrans Roadside Equipment	Roadway Freeway Control
Caltrans Roadside Equipment	Roadway HOV Control
Caltrans Roadside Equipment	Roadway Incident Detection
Caltrans Roadside Equipment	Roadway Probe Beacons
Caltrans Roadside Equipment	Roadway Signal Controls
Caltrans Roadside Equipment	Roadway Traffic Information Dissemination
Caltrans Roadside Equipment	Roadway Work Zone Safety
Caltrans Roadside Equipment	Roadway Work Zone Traffic Control
Caltrans Roadside Equipment	Standard Rail Crossing
Capital Corridor Train Operations Center	Transit Center Fixed-Route Operations
Capital Corridor Train Operations Center	Transit Center Multi-Modal Coordination
Capital Corridor Train Operations Center	Transit Center Security
Capital Corridor Train Operations Center	Transit Center Tracking and Dispatch
Capital Corridor Train Operations Center	Transit Data Collection
Capital Corridor Trains	On-board Fixed Route Schedule Management
Capital Corridor Trains	On-board Transit Security
Capital Corridor Trains	On-board Transit Trip Monitoring
Capitol Corridor Train Stations	Transit Data Collection
CHP Vehicles	On-board EV En Route Support
CHP Vehicles	On-board EV Incident Management Communication
CHP Website	Basic Information Broadcast
CHP Website	ISP Emergency Traveler Information
Citrus Heights Maintenance Dispatch	MCM Incident Management
Citrus Heights Maintenance Dispatch	MCM Maintenance Decision Support
Citrus Heights Maintenance Dispatch	MCM Roadway Maintenance and Construction
Citrus Heights Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
Citrus Heights Maintenance Dispatch	MCM Vehicle Tracking
Citrus Heights Maintenance Dispatch	MCM Work Activity Coordination
Citrus Heights Maintenance Dispatch	MCM Work Zone Management
Citrus Heights Roadside Equipment	Roadway Basic Surveillance
Citrus Heights Roadside Equipment	Roadway Equipment Coordination
Citrus Heights Roadside Equipment	Roadway Incident Detection
Citrus Heights Roadside Equipment	Roadway Signal Controls
Citrus Heights Roadside Equipment	Roadway Signal Priority
Citrus Heights Roadside Equipment	Roadway Traffic Information Dissemination
Citrus Heights Roadside Equipment	Roadway Work Zone Traffic Control

<b>Element</b>	<b>Equipment Package</b>
Citrus Heights Traffic Operations Center	Collect Traffic Surveillance
Citrus Heights Traffic Operations Center	Rail Operations Coordination
Citrus Heights Traffic Operations Center	TMC Evacuation Support
Citrus Heights Traffic Operations Center	TMC Incident Detection
Citrus Heights Traffic Operations Center	TMC Incident Dispatch Coordination/Communication
Citrus Heights Traffic Operations Center	TMC Regional Traffic Control
Citrus Heights Traffic Operations Center	TMC Signal Control
Citrus Heights Traffic Operations Center	TMC Traffic Information Dissemination
Citrus Heights Traffic Operations Center	TMC Work Zone Traffic Management
Citrus Heights Traffic Operations Center	Traffic Data Collection
Citrus Heights Traffic Operations Center	Traffic Maintenance
City of Citrus Heights Website	Basic Information Broadcast
City of Davis Field Equipment	Roadway Basic Surveillance
City of Davis Field Equipment	Roadway Equipment Coordination
City of Davis Field Equipment	Roadway Incident Detection
City of Davis Field Equipment	Roadway Signal Controls
City of Davis Field Equipment	Roadway Traffic Information Dissemination
City of Davis Field Equipment	Roadway Work Zone Traffic Control
City of Davis Maintenance Dispatch	MCM Incident Management
City of Davis Maintenance Dispatch	MCM Maintenance Decision Support
City of Davis Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Davis Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Davis Maintenance Dispatch	MCM Vehicle Tracking
City of Davis Maintenance Dispatch	MCM Work Activity Coordination
City of Davis Maintenance Dispatch	MCM Work Zone Management
City of Davis TOC	Collect Traffic Surveillance
City of Davis TOC	TMC Evacuation Support
City of Davis TOC	TMC Incident Detection
City of Davis TOC	TMC Incident Dispatch Coordination/Communication
City of Davis TOC	TMC Signal Control
City of Davis TOC	TMC Traffic Information Dissemination
City of Davis TOC	TMC Work Zone Traffic Management
City of Davis TOC	Traffic Data Collection
City of Davis TOC	Traffic Maintenance
City of Elk Grove Field Equipment	Roadway Basic Surveillance
City of Elk Grove Field Equipment	Roadway Equipment Coordination
City of Elk Grove Field Equipment	Roadway Incident Detection
City of Elk Grove Field Equipment	Roadway Signal Controls
City of Elk Grove Field Equipment	Roadway Signal Priority
City of Elk Grove Field Equipment	Roadway Traffic Information Dissemination
City of Elk Grove Field Equipment	Roadway Work Zone Traffic Control

<b>Element</b>	<b>Equipment Package</b>
City of Elk Grove Field Equipment	Standard Rail Crossing
City of Elk Grove Maintenance Dispatch	MCM Incident Management
City of Elk Grove Maintenance Dispatch	MCM Maintenance Decision Support
City of Elk Grove Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Elk Grove Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Elk Grove Maintenance Dispatch	MCM Vehicle Tracking
City of Elk Grove Maintenance Dispatch	MCM Work Activity Coordination
City of Elk Grove Maintenance Dispatch	MCM Work Zone Management
City of Elk Grove TOC	Collect Traffic Surveillance
City of Elk Grove TOC	TMC Evacuation Support
City of Elk Grove TOC	TMC Incident Detection
City of Elk Grove TOC	TMC Incident Dispatch Coordination/Communication
City of Elk Grove TOC	TMC Regional Traffic Control
City of Elk Grove TOC	TMC Signal Control
City of Elk Grove TOC	TMC Traffic Information Dissemination
City of Elk Grove TOC	TMC Work Zone Traffic Management
City of Elk Grove TOC	Traffic Data Collection
City of Elk Grove TOC	Traffic Maintenance
City of Folsom Field Equipment	Roadway Basic Surveillance
City of Folsom Field Equipment	Roadway Equipment Coordination
City of Folsom Field Equipment	Roadway Signal Controls
City of Folsom Field Equipment	Roadway Traffic Information Dissemination
City of Folsom Field Equipment	Roadway Work Zone Traffic Control
City of Folsom Maintenance Dispatch	MCM Incident Management
City of Folsom Maintenance Dispatch	MCM Maintenance Decision Support
City of Folsom Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Folsom Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Folsom Maintenance Dispatch	MCM Vehicle Tracking
City of Folsom Maintenance Dispatch	MCM Work Activity Coordination
City of Folsom Maintenance Dispatch	MCM Work Zone Management
City of Folsom TOC	Collect Traffic Surveillance
City of Folsom TOC	TMC Evacuation Support
City of Folsom TOC	TMC Incident Detection
City of Folsom TOC	TMC Incident Dispatch Coordination/Communication
City of Folsom TOC	TMC Regional Traffic Control
City of Folsom TOC	TMC Signal Control
City of Folsom TOC	TMC Traffic Information Dissemination
City of Folsom TOC	TMC Work Zone Traffic Management
City of Folsom TOC	Traffic Data Collection
City of Folsom TOC	Traffic Maintenance

<b>Element</b>	<b>Equipment Package</b>
City of Rancho Cordova Field Equipment	Roadway Basic Surveillance
City of Rancho Cordova Field Equipment	Roadway Equipment Coordination
City of Rancho Cordova Field Equipment	Roadway Signal Controls
City of Rancho Cordova Field Equipment	Roadway Traffic Information Dissemination
City of Rancho Cordova Field Equipment	Roadway Work Zone Traffic Control
City of Rancho Cordova Maintenance Dispatch	MCM Incident Management
City of Rancho Cordova Maintenance Dispatch	MCM Maintenance Decision Support
City of Rancho Cordova Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Rancho Cordova Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Rancho Cordova Maintenance Dispatch	MCM Vehicle Tracking
City of Rancho Cordova Maintenance Dispatch	MCM Work Activity Coordination
City of Rancho Cordova Maintenance Dispatch	MCM Work Zone Management
City of Rancho Cordova TOC	Collect Traffic Surveillance
City of Rancho Cordova TOC	TMC Evacuation Support
City of Rancho Cordova TOC	TMC Incident Detection
City of Rancho Cordova TOC	TMC Incident Dispatch Coordination/Communication
City of Rancho Cordova TOC	TMC Regional Traffic Control
City of Rancho Cordova TOC	TMC Signal Control
City of Rancho Cordova TOC	TMC Traffic Information Dissemination
City of Rancho Cordova TOC	TMC Work Zone Traffic Management
City of Rancho Cordova TOC	Traffic Data Collection
City of Rancho Cordova TOC	Traffic Maintenance
City of Roseville Maintenance Dispatch	MCM Environmental Information Collection
City of Roseville Maintenance Dispatch	MCM Environmental Information Processing
City of Roseville Maintenance Dispatch	MCM Incident Management
City of Roseville Maintenance Dispatch	MCM Maintenance Decision Support
City of Roseville Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Roseville Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Roseville Maintenance Dispatch	MCM Vehicle Tracking
City of Roseville Maintenance Dispatch	MCM Work Activity Coordination
City of Roseville Maintenance Dispatch	MCM Work Zone Management
City of Roseville Police and Fire Dispatch	Center Secure Area Alarm Support
City of Roseville Police and Fire Dispatch	Center Secure Area Sensor Management
City of Roseville Police and Fire Dispatch	Center Secure Area Surveillance
City of Roseville Police and Fire Dispatch	Emergency Call-Taking
City of Roseville Police and Fire Dispatch	Emergency Data Collection
City of Roseville Police and Fire Dispatch	Emergency Dispatch
City of Roseville Police and Fire Dispatch	Emergency Environmental Monitoring
City of Roseville Police and Fire Dispatch	Emergency Evacuation Support
City of Roseville Police and Fire Dispatch	Emergency Response Management
City of Roseville Police and Fire Dispatch	Emergency Routing

<b>Element</b>	<b>Equipment Package</b>
City of Roseville Police and Fire Dispatch	Incident Command
City of Roseville Roadside Equipment	Roadway Basic Surveillance
City of Roseville Roadside Equipment	Roadway Environmental Monitoring
City of Roseville Roadside Equipment	Roadway Equipment Coordination
City of Roseville Roadside Equipment	Roadway Incident Detection
City of Roseville Roadside Equipment	Roadway Probe Beacons
City of Roseville Roadside Equipment	Roadway Signal Controls
City of Roseville Roadside Equipment	Roadway Signal Priority
City of Roseville Roadside Equipment	Roadway Traffic Information Dissemination
City of Roseville Roadside Equipment	Roadway Work Zone Traffic Control
City of Roseville Roadside Equipment	Standard Rail Crossing
City of Roseville TOC	Collect Traffic Surveillance
City of Roseville TOC	HRI Traffic Management
City of Roseville TOC	MCM Environmental Information Collection
City of Roseville TOC	MCM Environmental Information Processing
City of Roseville TOC	Rail Operations Coordination
City of Roseville TOC	TMC Environmental Monitoring
City of Roseville TOC	TMC Evacuation Support
City of Roseville TOC	TMC Incident Detection
City of Roseville TOC	TMC Incident Dispatch Coordination/Communication
City of Roseville TOC	TMC Multimodal Coordination
City of Roseville TOC	TMC Regional Traffic Control
City of Roseville TOC	TMC Signal Control
City of Roseville TOC	TMC Traffic Information Dissemination
City of Roseville TOC	TMC Work Zone Traffic Management
City of Roseville TOC	Traffic Data Collection
City of Roseville TOC	Traffic Maintenance
City of Roseville Website	Basic Information Broadcast
City of Roseville Website	Interactive Infrastructure Information
City of Roseville Website	ISP Emergency Traveler Information
City of Sacramento Maintenance Dispatch	MCM Incident Management
City of Sacramento Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Sacramento Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Sacramento Maintenance Dispatch	MCM Vehicle Tracking
City of Sacramento Maintenance Dispatch	MCM Work Activity Coordination
City of Sacramento Maintenance Dispatch	MCM Work Zone Management
City of Sacramento Maintenance Vehicles	MCV Roadway Maintenance and Construction
City of Sacramento Maintenance Vehicles	MCV Vehicle Location Tracking
City of Sacramento Maintenance Vehicles	MCV Vehicle System Monitoring and Diagnostics
City of Sacramento Maintenance Vehicles	MCV Work Zone Support
City of Sacramento TOC	Collect Traffic Surveillance

<b>Element</b>	<b>Equipment Package</b>
City of Sacramento TOC	HRI Traffic Management
City of Sacramento TOC	Rail Operations Coordination
City of Sacramento TOC	TMC Environmental Monitoring
City of Sacramento TOC	TMC Evacuation Support
City of Sacramento TOC	TMC Incident Detection
City of Sacramento TOC	TMC Incident Dispatch Coordination/Communication
City of Sacramento TOC	TMC Multimodal Coordination
City of Sacramento TOC	TMC Regional Traffic Control
City of Sacramento TOC	TMC Signal Control
City of Sacramento TOC	TMC Traffic Information Dissemination
City of Sacramento TOC	Traffic Data Collection
City of Sacramento TOC	Traffic Maintenance
City of Sacramento Website	Basic Information Broadcast
City of Sacramento Website	ISP Emergency Traveler Information
City of West Sacramento Maintenance Dispatch	MCM Incident Management
City of West Sacramento Maintenance Dispatch	MCM Maintenance Decision Support
City of West Sacramento Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of West Sacramento Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of West Sacramento Maintenance Dispatch	MCM Vehicle Tracking
City of West Sacramento Maintenance Dispatch	MCM Work Activity Coordination
City of West Sacramento Maintenance Dispatch	MCM Work Zone Management
City of West Sacramento Roadside Equipment	Roadway Basic Surveillance
City of West Sacramento Roadside Equipment	Roadway Equipment Coordination
City of West Sacramento Roadside Equipment	Roadway Incident Detection
City of West Sacramento Roadside Equipment	Roadway Signal Controls
City of West Sacramento Roadside Equipment	Roadway Signal Priority
City of West Sacramento Roadside Equipment	Roadway Work Zone Traffic Control
City of West Sacramento Roadside Equipment	Standard Rail Crossing
City of West Sacramento TOC	Collect Traffic Surveillance
City of West Sacramento TOC	HRI Traffic Management
City of West Sacramento TOC	Rail Operations Coordination
City of West Sacramento TOC	TMC Evacuation Support
City of West Sacramento TOC	TMC Incident Detection
City of West Sacramento TOC	TMC Incident Dispatch Coordination/Communication
City of West Sacramento TOC	TMC Regional Traffic Control
City of West Sacramento TOC	TMC Signal Control
City of West Sacramento TOC	TMC Traffic Information Dissemination
City of West Sacramento TOC	TMC Work Zone Traffic Management
City of West Sacramento TOC	Traffic Data Collection
City of West Sacramento TOC	Traffic Maintenance
City of West Sacramento Website	Basic Information Broadcast

<b>Element</b>	<b>Equipment Package</b>
City of West Sacramento Website	ISP Emergency Traveler Information
City of Woodland Field Equipment	Roadway Basic Surveillance
City of Woodland Field Equipment	Roadway Equipment Coordination
City of Woodland Field Equipment	Roadway Incident Detection
City of Woodland Field Equipment	Roadway Signal Controls
City of Woodland Field Equipment	Roadway Traffic Information Dissemination
City of Woodland Field Equipment	Roadway Work Zone Traffic Control
City of Woodland Maintenance Dispatch	MCM Incident Management
City of Woodland Maintenance Dispatch	MCM Maintenance Decision Support
City of Woodland Maintenance Dispatch	MCM Roadway Maintenance and Construction
City of Woodland Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
City of Woodland Maintenance Dispatch	MCM Vehicle Tracking
City of Woodland Maintenance Dispatch	MCM Work Activity Coordination
City of Woodland Maintenance Dispatch	MCM Work Zone Management
City of Woodland TOC	Collect Traffic Surveillance
City of Woodland TOC	TMC Evacuation Support
City of Woodland TOC	TMC Incident Detection
City of Woodland TOC	TMC Incident Dispatch Coordination/Communication
City of Woodland TOC	TMC Signal Control
City of Woodland TOC	TMC Traffic Information Dissemination
City of Woodland TOC	TMC Work Zone Traffic Management
City of Woodland TOC	Traffic Data Collection
City of Woodland TOC	Traffic Maintenance
Commercial Vehicle Fleet Dispatch Systems	Fleet HAZMAT Management
Commercial Vehicles	On-board Cargo Monitoring
County AQMD	Emissions Data Management
County EOC	Emergency Data Collection
County EOC	Emergency Early Warning System
County EOC	Emergency Evacuation Support
County EOC	Emergency Response Management
County EOC	Incident Command
County Maintenance Dispatch	MCM Incident Management
County Maintenance Dispatch	MCM Roadway Maintenance and Construction
County Maintenance Dispatch	MCM Vehicle Tracking
County Maintenance Dispatch	MCM Work Activity Coordination
County Maintenance Dispatch	MCM Work Zone Management
County Maintenance Vehicles	MCV Roadway Maintenance and Construction
County Maintenance Vehicles	MCV Vehicle Location Tracking
County Maintenance Vehicles	MCV Work Zone Support
County Roadside Equipment	Roadway Work Zone Traffic Control
County Sheriff Communications Centers	Center Secure Area Alarm Support

<b>Element</b>	<b>Equipment Package</b>
County Sheriff Communications Centers	Center Secure Area Sensor Management
County Sheriff Communications Centers	Center Secure Area Surveillance
County Sheriff Communications Centers	Emergency Call-Taking
County Sheriff Communications Centers	Emergency Data Collection
County Sheriff Communications Centers	Emergency Dispatch
County Sheriff Communications Centers	Emergency Early Warning System
County Sheriff Communications Centers	Emergency Environmental Monitoring
County Sheriff Communications Centers	Emergency Response Management
County Sheriff Communications Centers	Emergency Routing
County Sheriff Communications Centers	Incident Command
El Dorado Transit Dispatch	Center Secure Area Surveillance
El Dorado Transit Dispatch	Transit Center Fixed-Route Operations
El Dorado Transit Dispatch	Transit Center Information Services
El Dorado Transit Dispatch	Transit Center Multi-Modal Coordination
El Dorado Transit Dispatch	Transit Center Paratransit Operations
El Dorado Transit Dispatch	Transit Center Security
El Dorado Transit Dispatch	Transit Center Tracking and Dispatch
El Dorado Transit Dispatch	Transit Data Collection
El Dorado Transit Dispatch	Transit Evacuation Support
El Dorado Transit Dispatch	Transit Garage Maintenance
El Dorado Transit Dispatch	Transit Garage Operations
El Dorado Transit Vehicles	On-board Fixed Route Schedule Management
El Dorado Transit Vehicles	On-board Maintenance
El Dorado Transit Vehicles	On-board Paratransit Operations
El Dorado Transit Vehicles	On-board Transit Information Services
El Dorado Transit Vehicles	On-board Transit Security
El Dorado Transit Vehicles	On-board Transit Trip Monitoring
e-tran Transit Center	Center Secure Area Alarm Support
e-tran Transit Center	Center Secure Area Surveillance
e-tran Transit Center	Transit Center Fixed-Route Operations
e-tran Transit Center	Transit Center Information Services
e-tran Transit Center	Transit Center Multi-Modal Coordination
e-tran Transit Center	Transit Center Paratransit Operations
e-tran Transit Center	Transit Center Security
e-tran Transit Center	Transit Center Tracking and Dispatch
e-tran Transit Center	Transit Data Collection
e-tran Transit Center	Transit Evacuation Support
e-tran Transit Center	Transit Garage Maintenance
e-tran Transit Center	Transit Garage Operations
e-tran Transit Vehicles	On-board Fixed Route Schedule Management
e-tran Transit Vehicles	On-board Maintenance
e-tran Transit Vehicles	On-board Paratransit Operations
e-tran Transit Vehicles	On-board Transit Information Services

<b>Element</b>	<b>Equipment Package</b>
e-tran Transit Vehicles	On-board Transit Security
e-tran Transit Vehicles	On-board Transit Trip Monitoring
Folsom Stage Line Vehicles	On-board Fixed Route Schedule Management
Folsom Stage Line Vehicles	On-board Maintenance
Folsom Stage Line Vehicles	On-board Paratransit Operations
Folsom Stage Line Vehicles	On-board Transit Information Services
Folsom Stage Line Vehicles	On-board Transit Security
Folsom Stage Line Vehicles	On-board Transit Trip Monitoring
Folsom Stage Lines Transit Dispatch	Center Secure Area Alarm Support
Folsom Stage Lines Transit Dispatch	Center Secure Area Surveillance
Folsom Stage Lines Transit Dispatch	Transit Center Fixed-Route Operations
Folsom Stage Lines Transit Dispatch	Transit Center Information Services
Folsom Stage Lines Transit Dispatch	Transit Center Multi-Modal Coordination
Folsom Stage Lines Transit Dispatch	Transit Center Paratransit Operations
Folsom Stage Lines Transit Dispatch	Transit Center Security
Folsom Stage Lines Transit Dispatch	Transit Center Tracking and Dispatch
Folsom Stage Lines Transit Dispatch	Transit Data Collection
Folsom Stage Lines Transit Dispatch	Transit Evacuation Support
Folsom Stage Lines Transit Dispatch	Transit Garage Maintenance
Folsom Stage Lines Transit Dispatch	Transit Garage Operations
Freeway Service Patrol Vehicles	On-board EV En Route Support
Freeway Service Patrol Vehicles	On-board EV Incident Management Communication
Light Rail Station Parking Mgmt.	Parking Electronic Payment
Light Rail Station Parking Mgmt.	Parking Management
Light Rail Station Parking Mgmt.	Parking Surveillance
Light Rail Transit Management Center	Emergency Response Management
Light Rail Transit Management Center	Transit Center Fixed-Route Operations
Light Rail Transit Management Center	Transit Center Information Services
Light Rail Transit Management Center	Transit Center Multi-Modal Coordination
Light Rail Transit Management Center	Transit Center Security
Light Rail Transit Management Center	Transit Center Tracking and Dispatch
Light Rail Transit Management Center	Transit Data Collection
Light Rail Transit Management Center	Transit Garage Maintenance
Light Rail Transit Management Center	Transit Garage Operations
Local Fire/EMS Dispatch Centers	Emergency Call-Taking
Local Fire/EMS Dispatch Centers	Emergency Dispatch
Local Fire/EMS Dispatch Centers	Emergency Early Warning System
Local Fire/EMS Dispatch Centers	Emergency Evacuation Support
Local Fire/EMS Dispatch Centers	Emergency Response Management
Local Fire/EMS Dispatch Centers	Emergency Routing
Local Fire/EMS Dispatch Centers	Incident Command
Local Fire/EMS Vehicles	On-board EV En Route Support
Local Fire/EMS Vehicles	On-board EV Incident Management

Element	Equipment Package
	Communication
Local Law Enforcement Vehicles	On-board EV En Route Support
Local Law Enforcement Vehicles	On-board EV Incident Management Communication
Local Police Dispatch	Center Secure Area Alarm Support
Local Police Dispatch	Emergency Call-Taking
Local Police Dispatch	Emergency Data Collection
Local Police Dispatch	Emergency Dispatch
Local Police Dispatch	Emergency Early Warning System
Local Police Dispatch	Emergency Evacuation Support
Local Police Dispatch	Emergency Response Management
Local Police Dispatch	Emergency Routing
Local Police Dispatch	Incident Command
Local Transit Dispatch Centers	Emergency Response Management
Local Transit Dispatch Centers	Transit Center Fixed-Route Operations
Local Transit Dispatch Centers	Transit Center Multi-Modal Coordination
Local Transit Dispatch Centers	Transit Center Security
Local Transit Dispatch Centers	Transit Center Tracking and Dispatch
Local Transit Dispatch Centers	Transit Data Collection
Local Transit Dispatch Centers	Transit Evacuation Support
Local Transit Dispatch Centers	Transit Garage Operations
Local Transit Vehicles	On-board Fixed Route Schedule Management
Local Transit Vehicles	On-board Transit Trip Monitoring
Municipal EOC	Emergency Data Collection
Municipal EOC	Emergency Early Warning System
Municipal EOC	Emergency Evacuation Support
Municipal EOC	Emergency Response Management
Municipal EOC	Incident Command
Municipal Field Equipment	Roadway Basic Surveillance
Municipal Field Equipment	Roadway Equipment Coordination
Municipal Field Equipment	Roadway Incident Detection
Municipal Field Equipment	Roadway Signal Controls
Municipal Field Equipment	Roadway Traffic Information Dissemination
Municipal Field Equipment	Roadway Work Zone Traffic Control
Municipal Maintenance Dispatch	MCM Data Collection
Municipal Maintenance Dispatch	MCM Incident Management
Municipal Maintenance Dispatch	MCM Roadway Maintenance and Construction
Municipal Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
Municipal Maintenance Dispatch	MCM Vehicle Tracking
Municipal Maintenance Dispatch	MCM Work Activity Coordination
Municipal Maintenance Dispatch	MCM Work Zone Management
Municipal Maintenance Vehicles	MCV Roadway Maintenance and Construction

<b>Element</b>	<b>Equipment Package</b>
Municipal Maintenance Vehicles	MCV Vehicle Location Tracking
Municipal Maintenance Vehicles	MCV Vehicle System Monitoring and Diagnostics
Municipal Maintenance Vehicles	MCV Work Zone Support
Municipal TOCs	Collect Traffic Surveillance
Municipal TOCs	HRI Traffic Management
Municipal TOCs	Rail Operations Coordination
Municipal TOCs	TMC Evacuation Support
Municipal TOCs	TMC Incident Detection
Municipal TOCs	TMC Incident Dispatch Coordination/Communication
Municipal TOCs	TMC Regional Traffic Control
Municipal TOCs	TMC Signal Control
Municipal TOCs	TMC Traffic Information Dissemination
Municipal TOCs	Traffic Data Collection
Municipal TOCs	Traffic Maintenance
Municipal Websites	Basic Information Broadcast
Municipal Websites	Interactive Infrastructure Information
Paratransit Vehicle	On-board Paratransit Operations
Paratransit Vehicle	On-board Transit Fare and Load Management
Paratransit Vehicle	On-board Transit Information Services
Paratransit Vehicle	On-board Transit Trip Monitoring
Paratransit, Inc.	Transit Center Fare and Load Management
Paratransit, Inc.	Transit Center Information Services
Paratransit, Inc.	Transit Center Multi-Modal Coordination
Paratransit, Inc.	Transit Center Paratransit Operations
Paratransit, Inc.	Transit Center Security
Paratransit, Inc.	Transit Center Tracking and Dispatch
Paratransit, Inc.	Transit Data Collection
Paratransit, Inc.	Transit Evacuation Support
Paratransit, Inc.	Transit Garage Operations
Private/Public Ambulance Dispatch	Emergency Dispatch
Private/Public Ambulance Dispatch	Emergency Evacuation Support
Private/Public Ambulance Dispatch	Emergency Response Management
Private/Public Ambulance Dispatch	Emergency Routing
Private/Public Ambulance Vehicles	On-board EV En Route Support
Private/Public Ambulance Vehicles	On-board EV Incident Management Communication
Regional Emergency Operations Center	Emergency Data Collection
Regional Emergency Operations Center	Emergency Early Warning System
Regional Emergency Operations Center	Emergency Evacuation Support
Regional Emergency Operations Center	Emergency Response Management
Regional Emergency Operations Center	Incident Command
Regional Traffic Count Archive	Government Reporting Systems Support

<b>Element</b>	<b>Equipment Package</b>
Regional Traffic Count Archive	ITS Data Repository
Regional Traffic Count Archive	Traffic and Roadside Data Archival
Regional Transit Bus Vehicle	On-board Fixed Route Schedule Management
Regional Transit Bus Vehicle	On-board Maintenance
Regional Transit Bus Vehicle	On-board Paratransit Operations
Regional Transit Bus Vehicle	On-board Transit Fare and Load Management
Regional Transit Bus Vehicle	On-board Transit Information Services
Regional Transit Bus Vehicle	On-board Transit Security
Regional Transit Bus Vehicle	On-board Transit Signal Priority
Regional Transit Bus Vehicle	On-board Transit Trip Monitoring
Regional Transit LRT Vehicle	On-board Fixed Route Schedule Management
Regional Transit LRT Vehicle	On-board Maintenance
Regional Transit LRT Vehicle	On-board Transit Fare and Load Management
Regional Transit LRT Vehicle	On-board Transit Information Services
Regional Transit LRT Vehicle	On-board Transit Security
Regional Transit LRT Vehicle	On-board Transit Signal Priority
Regional Transit LRT Vehicle	On-board Transit Trip Monitoring
Roseville Transit Management Center (Dispatch)	Center Secure Area Surveillance
Roseville Transit Management Center (Dispatch)	Transit Center Fixed-Route Operations
Roseville Transit Management Center (Dispatch)	Transit Center Information Services
Roseville Transit Management Center (Dispatch)	Transit Center Multi-Modal Coordination
Roseville Transit Management Center (Dispatch)	Transit Center Paratransit Operations
Roseville Transit Management Center (Dispatch)	Transit Center Security
Roseville Transit Management Center (Dispatch)	Transit Center Tracking and Dispatch
Roseville Transit Management Center (Dispatch)	Transit Data Collection
Roseville Transit Management Center (Dispatch)	Transit Evacuation Support
Roseville Transit Management Center (Dispatch)	Transit Garage Maintenance
Roseville Transit Management Center (Dispatch)	Transit Garage Operations
Roseville Transit Vehicles	On-board Fixed Route Schedule Management
Roseville Transit Vehicles	On-board Maintenance
Roseville Transit Vehicles	On-board Paratransit Operations
Roseville Transit Vehicles	On-board Transit Information Services
Roseville Transit Vehicles	On-board Transit Security
Roseville Transit Vehicles	On-board Transit Signal Priority
Roseville Transit Vehicles	On-board Transit Trip Monitoring
RT Passenger Information Signs	Remote Transit Information Services
RT Police Services	Emergency Data Collection
RT Police Services	Emergency Dispatch
RT Police Services	Emergency Response Management
RT Police Services	Incident Command
RT Security Monitoring Equipment	Field Secure Area Surveillance

<b>Element</b>	<b>Equipment Package</b>
RT Transit Kiosks	Remote Interactive Information Reception
RT Transit Kiosks	Remote Transit Fare Management
RT Transit Kiosks	Remote Transit Information Services
RT Transit Kiosks	Remote Traveler Security
RT Transit Kiosks	Traveler Secure Area Surveillance
RT Transit Management Center	Center Secure Area Alarm Support
RT Transit Management Center	Center Secure Area Surveillance
RT Transit Management Center	Transit Center Fare and Load Management
RT Transit Management Center	Transit Center Fixed-Route Operations
RT Transit Management Center	Transit Center Information Services
RT Transit Management Center	Transit Center Multi-Modal Coordination
RT Transit Management Center	Transit Center Paratransit Operations
RT Transit Management Center	Transit Center Security
RT Transit Management Center	Transit Center Tracking and Dispatch
RT Transit Management Center	Transit Data Collection
RT Transit Management Center	Transit Evacuation Support
RT Transit Management Center	Transit Garage Maintenance
RT Transit Management Center	Transit Garage Operations
RT Transit Monitors	Remote Transit Information Services
RT Website	Basic Information Broadcast
RT Website	Interactive Infrastructure Information
RT Website	ISP Emergency Traveler Information
RTMC-CHP	Emergency Call-Taking
RTMC-CHP	Emergency Data Collection
RTMC-CHP	Emergency Dispatch
RTMC-CHP	Emergency Early Warning System
RTMC-CHP	Emergency Environmental Monitoring
RTMC-CHP	Emergency Evacuation Support
RTMC-CHP	Emergency Response Management
RTMC-CHP	Incident Command
RTMC-CHP	Mayday Support
RTMC-CHP	Service Patrol Management
RTMC-CHP	TMC Regional Traffic Control
RTMC-D3 - Traffic Operations	Basic Information Broadcast
RTMC-D3 - Traffic Operations	Collect Traffic Surveillance
RTMC-D3 - Traffic Operations	Government Reporting Systems Support
RTMC-D3 - Traffic Operations	Interactive Infrastructure Information
RTMC-D3 - Traffic Operations	ISP Emergency Traveler Information
RTMC-D3 - Traffic Operations	ITS Data Repository
RTMC-D3 - Traffic Operations	MCM Environmental Information Collection
RTMC-D3 - Traffic Operations	MCM Environmental Information Processing
RTMC-D3 - Traffic Operations	TMC Environmental Monitoring
RTMC-D3 - Traffic Operations	TMC Evacuation Support
RTMC-D3 - Traffic Operations	TMC Freeway Management

Element	Equipment Package
RTMC-D3 - Traffic Operations	TMC Incident Detection
RTMC-D3 - Traffic Operations	TMC Incident Dispatch Coordination/Communication
RTMC-D3 - Traffic Operations	TMC Regional Traffic Control
RTMC-D3 - Traffic Operations	TMC Traffic Information Dissemination
RTMC-D3 - Traffic Operations	TMC Work Zone Traffic Management
RTMC-D3 - Traffic Operations	Traffic and Roadside Data Archival
RTMC-D3 - Traffic Operations	Traffic Data Collection
RTMC-D3 - Traffic Operations	Traffic Maintenance
SACOG Data Repository	Government Reporting Systems Support
SACOG Data Repository	ITS Data Repository
SACOG Data Repository	On-Line Analysis and Mining
SACOG Data Repository	Traffic and Roadside Data Archival
Sacramento City Fire Vehicles	On-board EV En Route Support
Sacramento City Fire Vehicles	On-board EV Incident Management Communication
Sacramento City Police Department Communications	Emergency Call-Taking
Sacramento City Police Department Communications	Emergency Data Collection
Sacramento City Police Department Communications	Emergency Dispatch
Sacramento City Police Department Communications	Emergency Early Warning System
Sacramento City Police Department Communications	Emergency Evacuation Support
Sacramento City Police Department Communications	Emergency Response Management
Sacramento City Police Department Communications	Incident Command
Sacramento City Police Vehicles	On-board EV En Route Support
Sacramento City Police Vehicles	On-board EV Incident Management Communication
Sacramento City Roadside Equipment	Advanced Rail Crossing
Sacramento City Roadside Equipment	Roadway Basic Surveillance
Sacramento City Roadside Equipment	Roadway Data Collection
Sacramento City Roadside Equipment	Roadway Equipment Coordination
Sacramento City Roadside Equipment	Roadway Incident Detection
Sacramento City Roadside Equipment	Roadway Signal Controls
Sacramento City Roadside Equipment	Roadway Signal Priority
Sacramento City Roadside Equipment	Roadway Traffic Information Dissemination
Sacramento City Roadside Equipment	Roadway Work Zone Traffic Control
Sacramento City Roadside Equipment	Standard Rail Crossing
Sacramento County Maintenance Service Center	MCM Data Collection
Sacramento County Maintenance Service Center	MCM Environmental Information Processing
Sacramento County Maintenance Service Center	MCM Incident Management
Sacramento County Maintenance Service Center	MCM Maintenance Decision Support

<b>Element</b>	<b>Equipment Package</b>
Sacramento County Maintenance Service Center	MCM Roadway Maintenance and Construction
Sacramento County Maintenance Service Center	MCM Vehicle and Equipment Maintenance Management
Sacramento County Maintenance Service Center	MCM Vehicle Tracking
Sacramento County Maintenance Service Center	MCM Winter Maintenance Management
Sacramento County Maintenance Service Center	MCM Work Activity Coordination
Sacramento County Maintenance Service Center	MCM Work Zone Management
Sacramento County Maintenance Vehicles	MCV Roadway Maintenance and Construction
Sacramento County Maintenance Vehicles	MCV Vehicle Location Tracking
Sacramento County Maintenance Vehicles	MCV Vehicle System Monitoring and Diagnostics
Sacramento County Maintenance Vehicles	MCV Work Zone Support
Sacramento County Roadside Equipment	Advanced Rail Crossing
Sacramento County Roadside Equipment	Roadway Basic Surveillance
Sacramento County Roadside Equipment	Roadway Data Collection
Sacramento County Roadside Equipment	Roadway Environmental Monitoring
Sacramento County Roadside Equipment	Roadway Equipment Coordination
Sacramento County Roadside Equipment	Roadway Incident Detection
Sacramento County Roadside Equipment	Roadway Probe Beacons
Sacramento County Roadside Equipment	Roadway Signal Controls
Sacramento County Roadside Equipment	Roadway Signal Priority
Sacramento County Roadside Equipment	Roadway Traffic Information Dissemination
Sacramento County Roadside Equipment	Roadway Work Zone Traffic Control
Sacramento County Roadside Equipment	Standard Rail Crossing
Sacramento County Sheriff Dept. Communications	Emergency Call-Taking
Sacramento County Sheriff Dept. Communications	Emergency Data Collection
Sacramento County Sheriff Dept. Communications	Emergency Dispatch
Sacramento County Sheriff Dept. Communications	Emergency Early Warning System
Sacramento County Sheriff Dept. Communications	Emergency Evacuation Support
Sacramento County Sheriff Dept. Communications	Emergency Response Management
Sacramento County Sheriff Dept. Communications	Emergency Routing
Sacramento County Sheriff Dept. Communications	Incident Command
Sacramento County Sheriff Dept. Communications	Mayday Support
Sacramento County Sheriff Vehicle	On-board EV En Route Support
Sacramento County Sheriff Vehicle	On-board EV Incident Management Communication
Sacramento County Telecommunications Center	Emergency Call-Taking

<b>Element</b>	<b>Equipment Package</b>
(DISPATCH)	
Sacramento County Telecommunications Center (DISPATCH)	Emergency Dispatch
Sacramento County Telecommunications Center (DISPATCH)	Emergency Early Warning System
Sacramento County Telecommunications Center (DISPATCH)	Emergency Evacuation Support
Sacramento County Telecommunications Center (DISPATCH)	Emergency Response Management
Sacramento County Telecommunications Center (DISPATCH)	Incident Command
Sacramento County Telecommunications Center (DISPATCH)	Mayday Support
Sacramento County Telecommunications Center (DISPATCH)	MCM Environmental Information Processing
Sacramento County Traffic Operations Center	Basic Information Broadcast
Sacramento County Traffic Operations Center	Collect Traffic Surveillance
Sacramento County Traffic Operations Center	Government Reporting Systems Support
Sacramento County Traffic Operations Center	HRI Traffic Management
Sacramento County Traffic Operations Center	Interactive Infrastructure Information
Sacramento County Traffic Operations Center	ISP Emergency Traveler Information
Sacramento County Traffic Operations Center	ITS Data Repository
Sacramento County Traffic Operations Center	MCM Environmental Information Collection
Sacramento County Traffic Operations Center	MCM Environmental Information Processing
Sacramento County Traffic Operations Center	On-Line Analysis and Mining
Sacramento County Traffic Operations Center	Rail Operations Coordination
Sacramento County Traffic Operations Center	TMC Evacuation Support
Sacramento County Traffic Operations Center	TMC Incident Detection
Sacramento County Traffic Operations Center	TMC Incident Dispatch Coordination/Communication
Sacramento County Traffic Operations Center	TMC Multimodal Coordination
Sacramento County Traffic Operations Center	TMC Probe Information Collection
Sacramento County Traffic Operations Center	TMC Regional Traffic Control
Sacramento County Traffic Operations Center	TMC Signal Control
Sacramento County Traffic Operations Center	TMC Traffic Information Dissemination
Sacramento County Traffic Operations Center	Traffic and Roadside Data Archival
Sacramento County Traffic Operations Center	Traffic Data Collection
Sacramento County Traffic Operations Center	Traffic Maintenance
Sacramento County Website	Basic Information Broadcast
Sacramento County Website	Interactive Infrastructure Information
Sacramento International Airport Maintenance Dispatch	MCM Incident Management
Sacramento International Airport Maintenance Dispatch	MCM Roadway Maintenance and Construction
Sacramento International Airport Maintenance Dispatch	MCM Work Zone Management
Sacramento International Airport Roadside	Roadway Basic Surveillance

<b>Element</b>	<b>Equipment Package</b>
Equipment	
Sacramento International Airport Roadside Equipment	Roadway Incident Detection
Sacramento International Airport Roadside Equipment	Roadway Probe Beacons
Sacramento International Airport TMC	Basic Information Broadcast
Sacramento International Airport TMC	Collect Traffic Surveillance
Sacramento International Airport TMC	Interactive Infrastructure Information
Sacramento International Airport TMC	TMC Incident Detection
Sacramento International Airport TMC	TMC Incident Dispatch Coordination/Communication
Sacramento International Airport TMC	TMC Multimodal Coordination
Sacramento International Airport TMC	TMC Probe Information Collection
Sacramento International Airport TMC	TMC Regional Traffic Control
Sacramento International Airport TMC	TMC Toll/Parking Coordination
Sacramento International Airport TMC	Traffic Data Collection
Sacramento International Airport Website	Basic Information Broadcast
Sacramento International Airport Website	Interactive Infrastructure Information
Sacramento Metro AQMD	Emissions Data Collection
Sacramento Metro AQMD	Emissions Data Management
Sacramento Region 511 Website	Interactive Infrastructure Information
Sacramento Region 511 Website	ISP Emergency Traveler Information
Sacramento Region 511 Website	Traveler Telephone Information
Sacramento Regional Fire/ EMS Comm. Center	Emergency Call-Taking
Sacramento Regional Fire/ EMS Comm. Center	Emergency Data Collection
Sacramento Regional Fire/ EMS Comm. Center	Emergency Dispatch
Sacramento Regional Fire/ EMS Comm. Center	Emergency Evacuation Support
Sacramento Regional Fire/ EMS Comm. Center	Emergency Response Management
Sacramento Regional Fire/ EMS Comm. Center	Emergency Routing
Sacramento Regional Fire/ EMS Comm. Center	Incident Command
Sacramento Regional Fire/ EMS Comm. Center	Mayday Support
School Bus Dispatch	Transit Center Fixed-Route Operations
School Bus Dispatch	Transit Center Security
School Bus Dispatch	Transit Center Tracking and Dispatch
School Bus Dispatch	Transit Evacuation Support
School Bus Dispatch	Transit Garage Maintenance
School Bus Dispatch	Transit Garage Operations
School Buses	On-board Fixed Route Schedule Management
School Buses	On-board Maintenance
School Buses	On-board Transit Security
School Buses	On-board Transit Trip Monitoring
STARNET ISP	Basic Information Broadcast
STARNET ISP	Infrastructure Provided Dynamic Ridesharing
STARNET ISP	Infrastructure Provided Route Selection

<b>Element</b>	<b>Equipment Package</b>
STARNET ISP	Interactive Infrastructure Information
STARNET ISP	ISP Emergency Traveler Information
STARNET ISP	Traveler Telephone Information
STARNET Server	ITS Data Repository
STARNET Server	TMC Environmental Monitoring
STARNET Server	TMC Regional Traffic Control
STARNET Server	Traffic and Roadside Data Archival
STARNET Server	Traffic Data Collection
Statewide Integrated Reporting System (SWITRS)	Government Reporting Systems Support
Statewide Integrated Reporting System (SWITRS)	ITS Data Repository
Statewide Integrated Reporting System (SWITRS)	Traffic and Roadside Data Archival
Taxi Dispatch	Transit Center Multi-Modal Coordination
Traffic Accident and Surveillance Analysis System (TASAS)	Government Reporting Systems Support
Traffic Accident and Surveillance Analysis System (TASAS)	ITS Data Repository
Traffic Accident and Surveillance Analysis System (TASAS)	Traffic and Roadside Data Archival
Unitrans Transit Dispatch	Center Secure Area Surveillance
Unitrans Transit Dispatch	Transit Center Fixed-Route Operations
Unitrans Transit Dispatch	Transit Center Multi-Modal Coordination
Unitrans Transit Dispatch	Transit Center Security
Unitrans Transit Dispatch	Transit Center Tracking and Dispatch
Unitrans Transit Dispatch	Transit Data Collection
Unitrans Transit Dispatch	Transit Evacuation Support
Unitrans Transit Dispatch	Transit Garage Maintenance
Unitrans Transit Dispatch	Transit Garage Operations
Unitrans Transit Vehicles	On-board Fixed Route Schedule Management
Unitrans Transit Vehicles	On-board Maintenance
Unitrans Transit Vehicles	On-board Transit Security
Unitrans Transit Vehicles	On-board Transit Trip Monitoring
User Personal Computing Devices	Personal Basic Information Reception
User Personal Computing Devices	Personal Interactive Information Reception
Vehicles	Vehicle Location Determination
Vehicles	Vehicle Mayday I/F
Vehicles	Vehicle Probe Support
Vehicles	Vehicle Toll/Parking Interface
Yolo Bus Dispatch Center	Center Secure Area Surveillance
Yolo Bus Dispatch Center	Transit Center Fare and Load Management
Yolo Bus Dispatch Center	Transit Center Fixed-Route Operations
Yolo Bus Dispatch Center	Transit Center Information Services
Yolo Bus Dispatch Center	Transit Center Multi-Modal Coordination
Yolo Bus Dispatch Center	Transit Center Security
Yolo Bus Dispatch Center	Transit Center Tracking and Dispatch

<b>Element</b>	<b>Equipment Package</b>
Yolo Bus Dispatch Center	Transit Data Collection
Yolo Bus Dispatch Center	Transit Evacuation Support
Yolo Bus Dispatch Center	Transit Garage Maintenance
Yolo Bus Dispatch Center	Transit Garage Operations
Yolo County Bus Website	Basic Information Broadcast
Yolo County Buses	On-board Fixed Route Schedule Management
Yolo County Buses	On-board Maintenance
Yolo County Buses	On-board Transit Fare and Load Management
Yolo County Buses	On-board Transit Information Services
Yolo County Buses	On-board Transit Security
Yolo County Buses	On-board Transit Trip Monitoring
Yuba City Field Equipment	Roadway Basic Surveillance
Yuba City Field Equipment	Roadway Data Collection
Yuba City Field Equipment	Roadway Equipment Coordination
Yuba City Field Equipment	Roadway Incident Detection
Yuba City Field Equipment	Roadway Signal Controls
Yuba City Field Equipment	Roadway Traffic Information Dissemination
Yuba City Field Equipment	Roadway Work Zone Traffic Control
Yuba City Maintenance Dispatch	MCM Incident Management
Yuba City Maintenance Dispatch	MCM Roadway Maintenance and Construction
Yuba City Maintenance Dispatch	MCM Vehicle and Equipment Maintenance Management
Yuba City Maintenance Dispatch	MCM Vehicle Tracking
Yuba City Maintenance Dispatch	MCM Work Activity Coordination
Yuba City Maintenance Dispatch	MCM Work Zone Management
Yuba City TOC	Collect Traffic Surveillance
Yuba City TOC	Rail Operations Coordination
Yuba City TOC	TMC Evacuation Support
Yuba City TOC	TMC Incident Detection
Yuba City TOC	TMC Incident Dispatch Coordination/Communication
Yuba City TOC	TMC Signal Control
Yuba City TOC	TMC Traffic Information Dissemination
Yuba City TOC	TMC Work Zone Traffic Management
Yuba City TOC	Traffic Data Collection
Yuba City TOC	Traffic Maintenance
Yuba-Sutter Transit Center	Center Secure Area Surveillance
Yuba-Sutter Transit Center	Transit Center Fixed-Route Operations
Yuba-Sutter Transit Center	Transit Center Information Services
Yuba-Sutter Transit Center	Transit Center Multi-Modal Coordination
Yuba-Sutter Transit Center	Transit Center Security
Yuba-Sutter Transit Center	Transit Center Tracking and Dispatch
Yuba-Sutter Transit Center	Transit Data Collection

<b>Element</b>	<b>Equipment Package</b>
Yuba-Sutter Transit Center	Transit Evacuation Support
Yuba-Sutter Transit Center	Transit Garage Maintenance
Yuba-Sutter Transit Center	Transit Garage Operations
Yuba-Sutter Transit Vehicles	On-board Fixed Route Schedule Management
Yuba-Sutter Transit Vehicles	On-board Maintenance
Yuba-Sutter Transit Vehicles	On-board Transit Information Services
Yuba-Sutter Transit Vehicles	On-board Transit Security
Yuba-Sutter Transit Vehicles	On-board Transit Trip Monitoring

## Equipment Package Definitions

Equipment Package	Equipment Package Description
Advanced Rail Crossing	Field elements at highway-rail intersections (HRIs) where operational requirements demand advanced features (e.g., where rail operational speeds are greater than 80 miles per hour). Capabilities from the Standard Rail Crossing plus systems which preclude entrance into the intersection when the barriers are activated, additional arriving train information, and detection of blocked intersections.
Basic Information Broadcast	Collection, processing, storage, and broadcast dissemination of traffic, transit, maintenance and construction, event, and weather information to traveler interface systems and vehicles.
Center Secure Area Alarm Support	Collection and response to silent and audible alarms received from travelers in secure areas (such as transit stops, rest areas, park-and-ride lots) and from on-board transit vehicles.
Center Secure Area Sensor Management	Management of security sensors, analysis of sensor data, correlation with surveillance data and alerts from other agencies to detect potential threats, and dissemination of threat information to other agencies. Sensors may be placed in areas such as transit stops, transit stations, rest areas, park and ride lots, modal interchange facilities, on-board a transit vehicle, etc.
Center Secure Area Surveillance	Management of security surveillance devices and analysis of that data to detect potential threats. Areas under surveillance may include transit stops, transit stations, rest areas, park and ride lots, modal interchange facilities, on-board a transit vehicle, etc.
Collect Traffic Surveillance	Management of traffic sensors and surveillance (CCTV) equipment, and distribution of the collected information to other centers and operators.
Emergency Call-Taking	Provides interface to the emergency call-taking systems such as the Emergency Telecommunications System (e.g., 911) that correlate call information with emergencies reported by transit agencies, commercial vehicle operators, or other public safety agencies. Allows the operator to verify the incident and forward the information to the responding agencies.
Emergency Data Collection	Collection and storage of information related to Emergency Management. For use by operations personnel or data archives in the region.
Emergency Dispatch	Dispatch emergency vehicles to incidents, tracking their location and status. Pertinent incident information is gathered and relayed to the responding units; includes requests for signal preemption.
Emergency Early Warning System	Monitors alerting and advisory systems, information collected by ITS surveillance and sensors, and reports from other agencies in order to identify potential, imminent, or in-progress major incidents or disasters. Notification is provided to other ITS centers to notify the traveling public. Includes support for Child Abduction notices.
Emergency Environmental Monitoring	Current and forecast road and weather information assimilated from weather service providers and emergency vehicles equipped with environmental sensors; used by the operator to more effectively manage incidents.

Equipment Package	Equipment Package Description
Emergency Evacuation Support	Evacuation planning and coordination to manage evacuation and reentry of a population in the vicinity of a disaster or other emergency that poses a risk to public safety.
Emergency Response Management	Strategic emergency planning and response capabilities and broad inter-agency interfaces to support large-scale incidents and disasters, commonly associated with Emergency Operations Centers.
Emergency Routing	Routing of emergency vehicles to facilitate the quickest/safest arrival. Routes may be determined based on real-time traffic information and road conditions or routes may be provided by Traffic Management on request.
Emissions Data Collection	Collection and storage of air quality and emissions management information. For use by operations personnel or data archives in the region.
Emissions Data Management	Assimilation and storage of air quality measures and roadside collected emissions data; distribution for general traveler information or for use in demand management programs.
Field Secure Area Sensor Monitoring	Security sensors monitoring facilities (e.g. transit yards) and transportation infrastructure (e.g. bridges, tunnels, interchanges, and transit railways or guideways) for environmental threats, intrusion and motion, object detection, and infrastructure integrity.
Field Secure Area Surveillance	Security surveillance devices (audio/video) that monitor facilities (e.g. transit yards) and transportation infrastructure (e.g. bridges, tunnels, interchanges, and transit railways or guideways).
Fleet HAZMAT Management	Notification of hazardous materials (HAZMAT) shipments to emergency management centers for commercial vehicles managed by the center - includes information on the nature of the cargo, the vehicle, and its expected route.
Government Reporting Systems Support	Selects and formats data residing in an ITS archive to facilitate local, state, and federal government data reporting requirements.
HRI Traffic Management	Remotely monitor and control highway-rail intersection (HRI) equipment, includes standard speed active warning systems and high speed systems which provide additional information on approaching trains and detect and report on obstructions in the HRI.
Incident Command	Tactical decision support, resource coordination, and communications integration among emergency management agencies for Incident Commands that are established by first responders to support local management of an incident.
Infrastructure Provided Dynamic Ridesharing	Dynamic rideshare matching, including traveler eligibility, preference information, connections to transit or other multimodal services, confirmation, and payment of rideshare matching services.
Infrastructure Provided Route Selection	Generation of pre-trip and enroute trip plans for travelers (and vehicles) based on current traffic conditions, work zones, weather, and travelers constraints and preferences. Includes end-to-end trips using multiple modes, such as bicycle, transit, etc.
Interactive Infrastructure Information	Collection, processing, storage, and personalized dissemination of traffic, transit, maintenance and construction, multimodal, event, and weather information to traveler interface systems and vehicles, upon request.

Equipment Package	Equipment Package Description
ISP Data Collection	Collection and storage of information supporting the operations of traveler information service providers. For use by operations personnel or data archives in the region.
ISP Emergency Traveler Information	Collection and distribution of emergency information to the traveler public, including evacuation information and wide-area alerts.
ISP Probe Information Collection	Collection and aggregation of vehicle probe data, including calculation and dissemination of route travel times and usage. Includes environmental probe data collection, aggregation and dissemination.
ITS Data Repository	Collect and maintain data and data catalogs from one or more data sources. May include quality checks, error notification, and archive coordination.
Mayday Support	Collection and response to Mayday messages received from vehicles and drivers.
MCM Automated Treatment System Control	Remotely controls automated roadway treatment systems (to disperse anti-icing chemicals, etc.) directly, or via control of the environmental sensors that activate the treatment systems automatically in the field.
MCM Data Collection	Collection and storage of maintenance and construction information. For use by operations personnel or data archives in the region.
MCM Environmental Information Collection	Remotely controls environmental sensors and assimilates collected data with other current and forecast road conditions and surface weather information from weather service providers and transportation operations.
MCM Environmental Information Processing	Processes current and forecast weather data, road condition information, local environmental data, and uses internal models to develop specialized detailed forecasts of local weather and surface conditions. Disseminates road weather information to other agencies and centers.
MCM Incident Management	Supports coordinated response to incidents - share incident notifications, manage incident response resources, and coordinate overall incident situation and response among allied response organizations.
MCM Maintenance Decision Support	Maintenance Decision Support Systems recommend courses of action based on current and forecast environmental and road conditions (filtered and fused for specific time horizons) and additional application specific information. Recommendations and dispatch instructions are generated based on this integrated information.
MCM Roadway Maintenance and Construction	Overall management and support for routine maintenance on the roadway or right-of-way. Includes 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.
MCM Vehicle and Equipment Maintenance Management	Monitors vehicle and equipment condition, tracks maintenance history, and schedules routine and corrective maintenance.
MCM Vehicle Tracking	Remotely tracks the location of maintenance and construction vehicles and other equipment; presented to the center personnel.
MCM Winter Maintenance Management	Manages winter road maintenance, tracking and controlling snow plow operations, roadway treatment (e.g., salt spraying and other material applications) based on weather information.

Equipment Package	Equipment Package Description
MCM Work Activity Coordination	Disseminates work activity schedules to other agencies. Work schedules are coordinated, factoring in the needs and activities of other agencies and adjacent jurisdictions.
MCM Work Zone Management	Remotely monitors and supports work zone activities, controlling traffic through portable dynamic message signs (DMS) and informing other groups of activity (e.g., traveler information systems, traffic management centers, other maintenance and construction centers).
MCM Work Zone Safety Management	Remotely monitors work zone safety systems that detect vehicle intrusions in work zones and warns crew workers and drivers of imminent encroachment. Crew movements are also monitored so that the crew can be warned of movement beyond the designated safe zone.
MCV Infrastructure Monitoring	On-board systems to monitor the condition of pavement, bridges, tunnels, associated hardware, and other transportation-related infrastructure (e.g., culverts). Includes vehicle-based sensors and communications with roadway-based infrastructure monitoring sensors.
MCV Roadway Maintenance and Construction	On-board systems that support routine non-winter maintenance on the roadway or right-of-way. Includes landscape maintenance, hazard removal (roadway debris, dead animals), routine maintenance activities (roadway cleaning, grass cutting), and repair and maintenance of equipment on the roadway.
MCV Vehicle Location Tracking	On-board systems to track vehicle location and reports the position and timestamp information to the dispatch center.
MCV Vehicle Safety Monitoring	On-board systems to detect vehicle intrusions and warn crew workers and drivers of imminent encroachment. Crew movements are monitored so that the crew can be warned of movement beyond the designated safe zone. Used for stationary work zones or in mobile applications where a safe zone is maintained around the moving vehicle.
MCV Vehicle System Monitoring and Diagnostics	On-board sensors capable of monitoring the condition of each of the vehicle systems and diagnostics that can be used to support vehicle maintenance.
MCV Winter Maintenance	On-board systems that support snow plow operations and other roadway treatments (e.g., salt spraying and other material applications). Supports platooning of snow plows.
MCV Work Zone Support	On-board systems that provide communications and support for local management of a work zone.
On-board Cargo Monitoring	On-board systems monitoring the location and status of the commercial vehicle and its cargo. Sends the data on to appropriate centers and roadside facilities, including emergency management in the case of HAZMAT incidents.
On-board EV En Route Support	On-board systems for gathering of dispatch and routing information for emergency vehicle personnel, vehicle tracking, communications with care facilities, and signal preemption via short range communication directly with traffic control equipment at the roadside.
On-board EV Incident Management Communication	On-board systems providing the direct interface between the emergency vehicle and incident management personnel at the incident site.

Equipment Package	Equipment Package Description
On-board Fixed Route Schedule Management	Collecting of data for schedule generation and adjustment on-board a transit vehicle. Supports communication between the vehicle, operator, and center.
On-board Maintenance	On-board systems to collect and process transit vehicle maintenance data including mileage and vehicle operating conditions for use in scheduling future vehicle maintenance.
On-board Paratransit Operations	On-board systems to manage paratransit and flexible-route dispatch requests, including multi-stop runs. Inputs based on the transit vehicle's type and passenger capacity.
On-board Transit Fare and Load Management	On-board systems provide variable and flexible fare collection using a travelers fare medium (stored value cards or other payment instrument). Collect data required to determine accurate ridership levels and fare statistics.
On-board Transit Information Services	On-board systems to furnish next-stop annunciation as well as interactive travel-related information, including routes, schedules, transfer options, fares, real-time schedule adherence, current incidents, weather conditions, non-motorized transportation services, and special events.
On-board Transit Security	On-board video/audio surveillance systems, threat sensors, and object detection sensors to enhance security and safety on-board a transit vehicles. Also includes silent alarms activated by transit user or vehicle operator, operator authentication, and remote vehicle disabling.
On-board Transit Signal Priority	On-board systems to provides request signal priority through short range communication directly with traffic control equipment at the roadside (intersections, crossings, ramp meters, etc.).
On-board Transit Trip Monitoring	Support fleet management with automatic vehicle location (AVL) and automated mileage and fuel reporting and auditing.
On-Line Analysis and Mining	Advanced data analysis and mining features to support discovery of information, patterns, and correlations in large ITS archives.
Parking Data Collection	Collection and storage of parking management information. For use by operations personnel or data archives in the region.
Parking Electronic Payment	Parking payment collection using in-vehicle equipment (tags) or contact or proximity traveler cards used for electronic payment. Includes field elements and back-office functionality.
Parking Management	Maintain and distribute parking lot information including static (spaces, hours, charges, etc.) and dynamic (availability, open/closed, etc.) data. Interface to traffic, transit, and traveler information providers.
Parking Surveillance	Field elements that detect and classify vehicles entering and exiting a parking facility.
Personal Basic Information Reception	Personal traveler interface that provides formatted traffic advisories, transit, event, and other traveler information, as well as broadcast alerts. Devices include desktop computers at home, work, or at major trip generation sites, plus personal portable devices such as PDAs and pagers.

Equipment Package	Equipment Package Description
Personal Interactive Information Reception	Personal traveler interface that provides traffic, transit, yellow pages, event, and trip planning information, as well as payment services for tolls, parking, and other personalized traveler information services upon request. Devices include desktop computers at home, work, or at major trip generation sites, plus personal portable devices such as PDAs and pagers.
Rail Operations Coordination	Coordination between rail operations and traffic management centers - exchanging train schedules, maintenance schedules, as well as incidents and priority messages which result in highway-rail intersection (HRI). Supports advanced traffic control strategies and enhanced traveler information.
Remote Interactive Information Reception	Public traveler interface, such as a kiosk, that provides traffic, transit, yellow pages, event, and trip planning information, as well as payment services for tolls, parking, and other personalized traveler information services upon request.
Remote Transit Fare Management	Public traveler interface, such as a kiosk, that provides the capability for the traveler to use a common fare medium for transit fares, tolls, and/or parking lot charges, to calculate the amount due and identify payment problems.
Remote Transit Information Services	Public traveler interface that provides real-time travel-related information at transit stops and multi-modal transfer points, including general annunciation, display of imminent arrival information, the latest available information on transit routes, schedules, transfer options, bicycle accessibility, fares, real-time schedule adherence, current incidents, weather conditions, and special events
Remote Traveler Security	Public traveler interface that provides the capability for travelers to report an emergency or activate a panic button to summon assistance in areas such as transit stops, park-and-ride areas, etc.
Roadway Basic Surveillance	Field elements that monitor traffic conditions using loop detectors and CCTV cameras.
Roadway Data Collection	Field elements to collect traffic, road, and environmental conditions information for use in transportation planning, research, and other off-line applications. Includes the sensors, supporting roadside infrastructure, and communications equipment.
Roadway Emissions Monitoring	Emissions and air quality sensors that collect vehicular emissions and area-wide air quality data.
Roadway Environmental Monitoring	Environmental sensors, surface and sub-surface, that collect weather and road surface information. Weather conditions measured include temperature, wind, humidity, precipitation, and visibility. Sensors measure road surface temperature, moisture, icing, salinity, etc.
Roadway Equipment Coordination	Field elements that control and send data to other field elements (such as environmental sensors that send data to a DMS or coordination between traffic controllers on adjacent intersections), without center control.
Roadway Freeway Control	Freeway control equipment including ramp meters, mainline metering, and lane control equipment which controls traffic on freeways, including indicators to drivers.
Roadway HOV Control	HOV lane usage traffic sensors and display equipment to notify users of HOV lane status for control of traffic in HOV lanes on freeways.

Equipment Package	Equipment Package Description
Roadway Incident Detection	Field elements that provide video images of traffic conditions, including advanced CCTV cameras with built-in incident detection algorithms.
Roadway Probe Beacons	Field elements to collect traffic and road conditions from passing vehicles; both anonymous toll/parking tag readings for link time calculations and smart probe data supported.
Roadway Signal Controls	Field elements including traffic signal controllers for use at major intersections and on main highways for urban areas; also supports pedestrian crossings.
Roadway Signal Priority	Field elements that provide the capability to receive vehicle signal priority requests and control traffic signals accordingly.
Roadway Traffic Information Dissemination	Driver information systems, such as dynamic message signs and Highway Advisory Radio (HAR).
Roadway Work Zone Safety	Work zone intrusion detection devices (to detect vehicle intrusion upon a work zone or crew worker movement across a work zone boundary) and intrusion alerting devices that provide alerts to crew and drivers.
Roadway Work Zone Traffic Control	Field elements in a work zone that manage traffic conditions using CCTV cameras and driver information systems (such as DMS) to provide information directly to drivers affected by the work zone activity.
Service Patrol Management	Dispatch and communication with roadway service patrol vehicles that monitor roads to aid motorists, offering rapid response to minor incidents.
Standard Rail Crossing	Field elements at highway-rail intersections (HRIs) where operational requirements do not dictate advanced features (e.g., where rail operational speeds are less than 80 miles per hour). Includes traditional HRI warning systems augmented with other standard traffic management devices.
TMC Environmental Monitoring	Management of environmental sensors and assimilation of collected data with other current and forecast road conditions and surface weather information from weather service providers and roadway maintenance operations.
TMC Evacuation Support	Development, coordination, and execution of special traffic management strategies during evacuation and subsequent reentry of a population in the vicinity of a disaster or major emergency. Interfaces with emergency management and other traffic management centers.
TMC Freeway Management	Remotely controls ramp meters, mainline metering, and lane controls on freeways based on upstream and downstream traffic flow and ramp queue length algorithms.
TMC HOV Lane Management	Remotely controls high-occupancy vehicle (HOV) lane sensors, driver information systems, and ramp meters to manage use of HOV or High Occupancy Toll (HOT) lanes; also detects HOV violators and notifies enforcement agencies.
TMC Incident Detection	Remotely controls traffic and video sensors to support incident detection and verification; exchange information with other agencies including emergency management, maintenance and construction, alerting and advisory systems, event promoters, intermodal freight depots, and traveler information systems.

Equipment Package	Equipment Package Description
TMC Incident Dispatch Coordination/Communication	Center-based capability to formulate an incident response that takes into account the incident potential, incident impacts, and/or resources required for incident management including proposing and facilitating the dispatch of emergency response and service vehicles as well as coordinating response with all appropriate cooperating agencies.
TMC Multimodal Coordination	Provides traffic signal priority for transit vehicles based on center-to-center communications with the transit management center; also exchange traffic and transit information.
TMC Probe Information Collection	Collects, assimilates, and disseminates vehicle probe data collected from roadside beacons and centers controlling transit vehicles, emergency vehicles, toll collection points, and route-guided vehicles.
TMC Regional Traffic Control	Coordination between traffic management centers in order to share traffic information between centers as well as control of traffic management field equipment. This may be used during incidents and special events and during day-to-day operations.
TMC Signal Control	Remotely controls traffic signal controllers to implement traffic management strategies at major intersections and on main highways for urban areas, based on traffic conditions, incidents, emergency vehicle preemptions, pedestrian crossings, etc.
TMC Toll/Parking Coordination	Provides the capability to gather information on regional toll, parking, and transit usage and request changes to enable dynamic pricing for demand management.
TMC Traffic Information Dissemination	Controls dissemination of traffic-related data to other centers, the media, and travelers via the driver information systems (DMS, HAR) that it operates.
TMC Work Zone Traffic Management	Coordination with maintenance systems using work zone images and traveler information systems (such as DMS), and distribution of work plans so that work zones are established that have minimum traffic impact.
Traffic and Roadside Data Archival	Collects and archives traffic and environmental information directly from the roadside for use in off-line planning, research, and analysis.
Traffic Data Collection	Collection and storage of traffic management data. For use by operations personnel or data archives in the region.
Traffic Maintenance	Monitoring and remote diagnostics of field equipment - detect failures, issue problem reports, and track the repair or replacement of the failed equipment.
Transit Center Fare and Load Management	Management of fare collection at the center - includes setting and distributing fare information, central processing of fares for transit as well as other ITS services, links to financial institutions and enforcement agencies.
Transit Center Fixed-Route Operations	Planning and scheduling associated with fixed and flexible route transit services, automatically updates customer service operator systems, and provides current vehicle schedule adherence and optimum scenarios for schedule adjustment.

Equipment Package	Equipment Package Description
Transit Center Information Services	Provide interactive traveler information to travelers (on-board transit vehicles, at stops/stations, using personal devices), traveler information service providers, media, and other transit organizations. Includes routes, schedules, transfer options, fares, real-time schedule adherence, current incidents, weather conditions, yellow pages, and special events.
Transit Center Multi-Modal Coordination	Generate requests for transit priority on routes and at certain intersections. Coordinate schedules with other agencies and modes, including transit transfer cluster and transfer point information.
Transit Center Paratransit Operations	Planning and scheduling of demand responsive transit (i.e. paratransit) services, includes automatic operator assignment and monitoring.
Transit Center Security	Monitor transit vehicle operator or traveler activated alarms; authenticate transit vehicle operators; remotely disable a transit vehicle; alert operators, travelers, and police to potential incidents identified by these security features.
Transit Center Tracking and Dispatch	Monitoring transit vehicle locations via interactions with on-board systems and determining vehicle schedule adherence. Furnish users with real-time transit related information and maintain interface with digital map providers.
Transit Data Collection	Collection and storage of transit management data. For use by operations personnel or data archives in the region.
Transit Environmental Monitoring	Current and forecast road and weather information assimilated from weather service providers and vehicle probes. The information is monitored and forwarded to other agencies to more effectively manage transit operations.
Transit Evacuation Support	Support evacuation and subsequent reentry of a population in the vicinity of a disaster or other emergency. Coordinate regional evacuation plans and resources including transit and school bus fleets.
Transit Garage Maintenance	Collect operational and maintenance data from transit vehicles, manage vehicle service histories, automatically generate preventative maintenance schedules, and provide information to service personnel.
Transit Garage Operations	Assignment of transit vehicles and operators to routes or service areas in a fair manner while minimizing labor and overtime services, considering operator preferences, qualifications, accumulated work hours, and other information about each operator.
Traveler Secure Area Sensor Monitoring	Security sensors monitoring traveler-frequented areas such as transit stops, park-and-ride lots, and rest stops for environmental threats, intrusion and motion, and object detection.
Traveler Secure Area Surveillance	Security surveillance devices that monitor traveler-frequented areas such as transit stops and rest stops.
Traveler Telephone Information	Collection and distribution of traveler information and wide-area alerts to traveler telephone information systems such as 511, based on voice-based traveler requests.
Vehicle Location Determination	Determines current location of the vehicle using GPS or similar location referencing and provides this information to other in-vehicle functions.
Vehicle Mayday I/F	In-vehicle capability for drivers or collision detection sensors onboard a vehicle to report an emergency and summon assistance.

Equipment Package	Equipment Package Description
Vehicle Probe Support	On-board systems that identify location, measure traffic conditions such as link travel time and speed and transmit data to a center or roadside beacons.
Vehicle Toll/Parking Interface	On-board systems to support paying toll without stopping and pay for parking without the use of cash through the use of an active tag interface and debit/credit card interface.
Virtual Data Warehouse Services	Provides access to data from geographically dispersed archives and coordinates information exchange with a local data warehouse. Also provides the specialized publishing, directory services, and transaction management functions associated with coordinating remote archives.