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Surface Street Management	Manage drawbridges at rivers and canals and other multimodal crossings. This includes control devices (e.g., gates, warning lights, dynamic message signs) at the drawbridge as well as the information systems that are used to keep travelers appraised of current and forecasted drawbridge status.																		
	Provides for the management of reversible lane facilities, which includes sensory functions that detect wrong-way vehicles and other special surveillance capabilities that mitigate safety hazards associated with reversible lanes.			X			X												
	Monitors traffic conditions using fixed equipment such as loop detectors and CCTV cameras.																		
	Provide the interface between roadway sensors and other roadway devices (considered to be contained in the Other Roadway terminator) for the exchange of data, status, and control.																		
	Provide the interface between roadway devices and other roadway devices (considered to be contained in the Other Roadway terminator) for the exchange of data, status, and control.																		
	Provides monitoring and remote diagnostics of field equipment to detect field equipment failures, issues problem reports, and tracks the repair or replacement of the failed equipment.																		
	Manages highway traffic 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).																		

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Surface Street Management	Coordinates field equipment that is distributed along the roadway by supporting direct communications between field equipment. This includes coordination between remote sensors and field devices (e.g., Dynamic Message Signs) and coordination between the field devices themselves (e.g., coordination between traffic controllers that are controlling adjacent intersections.).																		
	Manages highway traffic at highway-rail intersections (HRIs) where operational requirements demand advanced features (e.g., where rail operational speeds are greater than 80 miles per hour).																		
	Closes roadways to vehicular traffic when driving conditions are unsafe, maintenance must be performed, and other scenarios where access to the roadway must be prohibited.			X		X	X										X		
	Monitors the speeds of vehicles traveling through a roadway system. If the speed is determine to be excessive, roadside equipment can suggest a safe driving speed.Also support notifications to an enforcement agency to enforce the speed limit on																		
	network. Two general implementation paths are supported by this method: 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 Center.																		

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Surface Street Management	Provide Surveillance and Control, and maintenance of signal system.																		
	Monitors individual vehicle emissions and provides general air quality monitoring using distributed sensors to collect the data.Both area wide air quality monitoring and point emissions monitoring are supported by this function.			X		X	X										X		
	Provides advanced algorithms, processing, and mass storage capabilities that support historical evaluation, real-time assessment, and forecast of the roadway network performance. This includes the prediction of travel demand patterns to support better link travel time forecasts.																		
	Provides for the sharing of traffic information and control among traffic management centers to support a regional control strategy.																		
	Monitors highway-rail intersection (HRI) equipment at the roadside which manages highway traffic.																		
	Report and Coordinate road closures with other transportation agencies.																		
	Maintain and operate the backup TMC, as necessary.	X		X		X	X				X						X		
	Provide communications with other systems, such as CHART, CapWIN, RITIS, etc.			X		X	X												
	Coordinate traffic signal response at highway-rail intersections.	X		X	X	X	X										X		
	Maintain centralized signal system.					X	X										X		
	Install appropriate detection and dissemination devices along major corridors.			X		X	X										X		

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Surface Street Management	Implement traffic control response to emergencies/incidents.			X		X	X										X		
	Manage regional signal timing coordination program.			X		X	X										X		
	Maintain field equipment.	X		X		X	X										X		
	Monitor and manage traffic on designated arterials and freeways.			X		X	X										X		
	Receive signal priority requests from transit operators (where applicable).	X		X		X	X										X		
	Provide transit signal priority response (where applicable).			X		X	X										X		
	Receive preemption requests from emergency vehicle operators (where applicable).			X		X	X										X		
	Provide preemption response (where appropriate).			X		X	X										X		
	Assist in coordinating traffic signals across boundaries.			X		X	X										X		
	Share traffic information with other transportation agencies.			X		X	X										X		
	Monitor weather conditions along roadways.	X		X		X	X										X		
	Coordinate traffic control response to incidents with other transportation agencies.					X	X										X		
	Utilize surveillance information for detection of incidents.	X		X		X	X				X						X		

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Freeway Management	Manages HOV lanes by coordinating freeway ramp meters and connector signals with HOV lane usage signals.																		
	Provides the communications and roadside equipment to support ramp control, lane controls, and interchange control for freeways.																		
	Monitor weather conditions along freeways																		
	Manage and monitor traffic on freeway on-ramps and highways.	X				X	X										X		
	Manage and monitor traffic on freeways including HOV lane management.			X			X										X		
	Provides the capability to detect the HOV lane usage using sensor equipment.					X	X										X		
	Share traffic information with other transportation agencies.																		
	Provides the roadside elements of traffic information dissemination including DMS, HAR, and talking pedestrian signs.	X		X	X	X	X										X		
	Collect and process automated traffic data from traffic speed monitoring sites.			X		X	X										X		
	Monitor pavement conditions during inclement weather.					X	X										X		
	Utilize current technology and strategies to optimize flow of traffic on access controlled highways.						X										X		
	Employ strategies to improve the efficiency of operations at inter-modal transfer points.						X												
	Propose and facilitate the appropriate dissemination of incident related information to travelers and potential travelers.						X												

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Incident Management	Implement algorithms for automated detection of incidents using data from roadways sensors and provide verification.	X	X	X			X										X		
	Track incidents and responses.			X			X										X		
	Provide resources when requested by emergency/incident management responders.		X	X			X										X		
	Propose and facilitate the appropriate control of traffic signals and other traffic control to reduce the traffic flow impact of an incident.			X		X	X										X		
	Provide the status of all resources needed for incident resolution to those agencies responding to the incident.		X	X		X	X										X		
	Provide the capability to disseminate information relating to response status to other agencies.																		
	Allow coordinated selection/determination of the procedures, including alternate routes, needed for resolution of each incident and provide the procedures to those agencies responding to the incident.																		
	Interface with other transportation agencies to support coordinated emergency/incident response involving multiple agencies.																		
	Propose and facilitate the appropriate dispatch of service vehicles to an incident.	X	X	X		X	X										X		
	Share appropriate detection and dissemination devices along major arterials with other transportation agencies.			X		X	X										X		
	Predict Hazardous Conditions, including the time and location of hazardous conditions that may cause an incident.		X				X										X		
	Provide the incident manager at the emergency/incident scene.																		
	Determine the expected traffic flow impact of each predicted incident.			X		X	X				X						X		

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Incident Management	Provides the capability to identify existing (both planned and unplanned) incidents.																		
	Formulate appropriate response actions to each identified incident and revise those actions when necessary.																		
	Provides the capability to identify those vehicles and/or operators that violate its toll collection process.																		
Electronic Toll Collection	Maintain and operate field and office toll collection facilities/equipment.																		
	Manage toll collection process.														X				
	Provide the capability to automatically access and process each commercial vehicle's required documentation.														X				
	Assign appropriate toll credit to appropriate agencies.																		
	Supports communication and coordination between equipped parking facilities and also supports regional coordination between parking facilities and traffic and transit management systems.														X				
Parking Management	Provide the interface to a local parking lot operator that controls the use of the lot.																		
	Supports communication and coordination between equipped parking facilities and also supports regional coordination between parking facilities and traffic and transit management systems.																		
	Detect and classify vehicles entering and exiting the parking facility and measures parking facility occupancy to support parking operations and traveler information services.								X										
	Supports electronic payment of parking fees								X										

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Parking Management	Manages parking reservations, parking lot use and revenue collection for parking facilities.																X		X
	Determine and distribute the dynamic status of individual parking lots.								X								X		X
	Maintain and distribute static information about individual parking lots. This information includes hours of operation, rates, lot location, lot entrance locations, lot capacity (number of spaces), lot type (Open Lot, Covered Garage, Permit Parking, Contract Parking, Free Parking - include P+R lot, Paid Parking, other) and lot constraints (heights, type of vehicles, etc.).																		
	Supports electronic payment of parking fees.																		
	Be responsible for maintaining a store of parking lot data. This data is used in transactions requiring electronic payment of parking lot services, as well as for a traveler making a parking lot reservation.																		
	Collects the latest available information for a transit service and makes it available to transit customers and to Information Service Providers for further distribution.																		
Transit Services	Provides train movement and wayside device monitoring and control, including third rail power																	X	X
	Provide automatic train control, wayside device monitoring and control.																		X
	Provide on-bus fare boxes, garage and central fare processing equipment for fare collection and passenger counts.																		X
	Provides dispatch function, and tracking for bus operators.																		X
	Provides automatic passenger counts.																		X
	Monitors train movement in yards, and on mainline. Provides information about consist, railcar and train revenue and non-revenue mileage, schedule adherence.							X						X					X

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Transit Services	Provide SmartTrip-SMRT service that provides overall management and coordination for fare collection programs, and ridership statistics.																		X
	Support, implement, and operate in the regional fare management program.																		X
	Collect transit operational data and load it into a data store for use by the routes and schedules generation processes.	X																X	X
	Provides the capability for transit vehicles to request signal priority through short range communication directly with traffic control equipment at the roadside.															X			
	Provides the capability to automate planning and scheduling, allowing paratransit and flexible-route transit services to develop, print and disseminate schedules, and automatically update customer service operator systems with the most current schedule.							X						X				X	X
	Act as the interface for advanced payment of tolls and parking lot charges from the traveler.															X			X
	Provide the interface through which transit routes (including transfer points and clusters), schedules, fares and incident information can be exchanged with other transit centers.															X			
	Provide means of communication with bus operators, rail operators, station managers, interlockers, depot personnel, dispatch personnel, public safety personnel, maintenance personnel.															X			X
	Performs vehicle routing and scheduling, as well as automatic operator assignment and system monitoring for fixed-route and flexible-route transit services																		X

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Transit Services	Provides automatic transit maintenance scheduling and monitoring. On-board condition sensors monitor system status and transmit critical status information to the Transit Management Center.																		
	Provides remote transit vehicle disabling by the Transit Management Center and transit vehicle operator authentication.																		
	Provides for the physical security of transit passengers and transit vehicle operators. On-board equipment is deployed to perform surveillance and sensor monitoring in order to warn of potentially hazardous situations.																		
	Provides the capability to assign vehicle operators to routes in a fair manner while minimizing labor and overtime services, including operator preferences and qualifications, and automatically tracking and validating the number of work hours performed by each individual operator.																		
	Provides the capability to automate planning and scheduling, allowing paratransit and flexible-route transit services to develop, print and disseminate schedules, and automatically update customer service operator systems with the most current schedule.																		
	Forwards paratransit and flexible-route dispatch requests to the operator and forwards acknowledgements to the center. It coordinates with, and assists the operator in managing multi-stop runs associated with demand responsive, flexibly routed transit services.																		
	Provide faregates, farecard vending machines, in-station and central facility fare processing equipment for rail system revenue collection and passenger counts.							X						X				X	X

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Transit Services	Send fleet status and location information to operations center.																		X
	Provide bus and commuter transit rail service.							X						X					X
	Provides capability to determine the need for transit priority on routes and at certain intersections and request transit vehicle priority at these locations. It also supports schedule coordination between transit properties and coordinates with other surface and air transportation modes.							X										X	
	Provide fixed route bus operations.																		
	Coordinate schedules with other transportation agencies.							X						X				X	X
	Track and manage fleets using AVL technology and two-way communications with the fleet.	X						X						X				X	X
	Supports the capability for two-way voice communication between the transit vehicle operator and a facility, two-way data communication between the transit vehicles and a facility, on-board safety sensor data to be transmitted from the transit vehicles to a facility, and data transmission from individual facilities to a central facility for processing/analysis if desired.							X						X				X	X
	Provide in-station electronic signs that display train arrival information, schedule delay, incident information and ADA required access information.																		
Traveler Information	Provides a free e-mail subscription service to provide notice of elevator service disruptions at the Metrorail stations of choice.																		
	provides yellow pages and reservation services to the user.																		X

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Traveler Information	Provides distribution of traffic and travel advisory information to drivers through in-vehicle devices. It includes short range communications between roadside equipment and the vehicle and wireline connections to the Traffic Management Center for coordination and control.																		
	Provides the capability to provide specific directions to travelers by receiving origin and destination requests from travelers, generating route plans, returning the calculated plans to the users, and then potentially logging the route plans with Traffic																		
	Provide traffic, emergency, and incident information to drivers and other transportation agencies.																		
	Provides dynamic rideshare matches, including rider and driver information and reservations.			X		X	X		X				X				X		
	Collects traffic conditions, advisories, general public transportation, toll and parking information, incident information, roadway maintenance and construction 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).																		X
	Provides advanced route planning and guidance which is responsive to current conditions, and supports collection of near-real time information on intended routes for a proportion of the vehicles in the network.																		
	Tracks customer complaints and resolution; lost and found.																		
	Provides trip planning via web interface for entire jurisdiction including all carriers.																		X

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Traveler Information	Provides internet website with bus and rail system maps, rail station information, parking information, bus & rail schedules (also downloadable to PDAs) and fares, trip planning, e-alerts and advisories (also subscription to same), accessibility, elevator/escalator status,																		X
	Provides customer services including: trip planning, fare information, customer complaints, incident information.																		X
	Allow the traveling public to make better informed travel decisions by providing en-rout media information on travel condition.																		X
	Allow the traveling public to make better informed travel decisions by providing information on travel conditions through media accessible from home, work or other major ravel origins.												X						
	Provide real time transit information to travelers via Website, pager (or PDA), kiosk, or station signs.												X						
	Services voice-based traveler requests for information that supports traveler telephone information systems like 511.													X					X
	Install appropriate detection and dissemination devices.																X		
	Provide road weather conditions to other transportation agencies.			X		X	X						X				X		
	Supports evacuation of the general public from a disaster area and manages subsequent reentry to the disaster area.			X			X										X		
Emergency Management	Provide the highest public safety for passengers, airport workers and checked baggage.																		
	Dispatch SSP patrol vehicles								X										
	Provides emergency response plans or event plans.	X										X					X		

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Emergency Management	Conduct offensive operations to mitigate a hazardous materious emergency.	X	X				X					X							X
	Performs receiving Mayday messages and security alarms, determines an appropriate response, and either uses internal resources or contacts a local agency to provide that response.		X						X			X							
	Monitors transportation infrastructure (e.g., bridges, tunnels and management centers) for potential threats using sensors and surveillance equipment and barrier and safeguard systems to preclude an incident, control access during and after an incident or mitigate impact of an incident.																		
	Provides the management of barrier systems for transportation facilities and infrastructure. Barrier systems include automatic or remotely controlled gates, barriers and other systems intended to preclude an attack or control access during and after an incident.																		
	Enhances the ability of the surface transportation system to respond to and recover from disasters.																		
	Identifies the key points of integration between transportation systems and the public safety, emergency management, and other allied organizations that form the overall disaster response.																		
	Dispatch police, fire, and ambulance vehicles. Provides for recording of calls, monitoring and recording of video, incident reporting to federal, state and local agencies.																		
	Supports coordination of evacuation plans among the federal, state, and local transportation, emergency, and law enforcement agencies that may be involved in a large-scale evacuation.		X									X							X

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Emergency Management	Provide disaster-related traveler information to the general public, including evacuation and reentry information and other information concerning the operation of the transportation system during a disaster.																		
	Provides emergency information to assist the public with evacuations when necessary. Information on mandatory and voluntary evacuation zones, evacuation times, and instructions are provided. Available evacuation routes and destinations and current and anticipated travel conditions along those routes are provided so evacuees are prepared and know their destination and preferred evacuation route.																		
	Broadcast wide area alerts and advisories for emergency situations such as severe weather events, civil emergencies, child abduction (AMBER alert system), military activities, and other situations that pose a threat to life and property where information must be immediately provided to the traveling public.																		
	Supports coordination of emergency response plans, including general plans developed before a disaster as well as specific tactical plans with short time horizon that are developed as part of a disaster response.																		
	Perform other "non-transportation related" public safety duties.																		
	Participate in the call box program.								X			X							
	Receive landline public safety calls and forward to appropriate dispatch center.											X							

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Emergency Management	Monitors and detects potential, looming, and actual disasters including natural disasters and man-made disasters.											X							
	Coordinates evacuation plans among allied agencies and manages evacuation and reentry of a population in the vicinity of a disaster or other emergency that poses a risk to public safety											X							
	Provide security for public facilities owned by the local agency.		X									X							X
	Maintain centralized emergency management system.											X							
	Use real-time traffic information received from other transportation agencies to aid the dispatcher in selecting the emergency vehicle(s) and routes that will provide a timely response.		X									X							X
	Track and manage emergency vehicle fleets using AVL technology and two-way communications with the vehicle fleet		X									X							
	Create, store, and utilize emergency/incident response plans to facilitate coordinated response.		X									X							X
	Interface with other transportation agencies to support coordinated emergency response involving multiple Agencies		X				X					X							
	Monitor video images and audio surveillance data collected in secure areas, including those frequented by travelers (transit stops, rest areas, park and ride lots, modal interchange facilities, on-board transit vehicles, etc.), and those typically away from travelers (tunnels, bridges, roadway infrastructure, etc.).	X	X				X					X							X

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Emergency Management	Directs activity in work zones, controlling traffic through portable dynamic message signs (DMS) and informing other groups of activity (e.g., ISP, traffic management, other maintenance and construction centers) for better coordination management.											X							X
Maintenance and Construction	Automatically treats a roadway section based on environmental or atmospheric conditions. Treatments include fog dispersion, anti-icing chemicals, etc.																		
	Provide means of communication with bus operators, rail operators, station managers, interlockers, depot personnel, dispatch personnel, public safety personnel, maintenance personnel.																		
	Manages winter road maintenance, tracking and controlling snow plow operations, roadway treatment (e.g., salt spraying and other material applications) based on weather information.																		X
	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.			X			X										X		X
	Performs vehicle maintenance scheduling and manages both routine and corrective maintenance activities on vehicles and other maintenance and construction equipment.																		
	Tracks the location of maintenance and construction vehicles and other equipment to ascertain the progress of their activities.																		

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Maintenance and Construction	Detects vehicle intrusions in work zones and warns crew workers and drivers of imminent encroachment or other potential safety hazards. Crew movements are also monitored so that the crew can be warned of movement beyond the designated safe zone.																		
	Provides overall management and support for routine maintenance on a roadway system or right-of-way.																		
	Disseminate maintenance and construction activity to centers that can utilize it as part of their operations, or to the Information Service Providers who can provide the information to travelers.			X			X										X		
	Provides 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.).			X													X		
	Control traffic through portable dynamic message signs (DMS) and informing other groups of activity (e.g., ISP, traffic management, other maintenance and construction centers) for better coordination management.			X			X										X		
	Supports coordinated response to incidents						X										X		
	Maintain AVL systems for maintenance vehicles.			X			X										X		

Operational Area	Operation	CapCOM	CapWIN	DDOT	I-95 Corridor Coalition	Local Signal Agencies	Maryland State Highway Administration (MDSHA)	Maryland Transit Administration (MTA)	MWAA	MWCOG	National Park Service	Public Safety and Emergency Management (VA MD DC)	Regional ISP	Regional Local Transit Operators	Regional Toll Operations (Smart-Tag Center/Greenway/MdTA)	Regional Transit Clearance House	VDOT NOVA District /VDOT	VRE Center	WMATA
Maintenance and Construction	Collects and archives traffic, roadway, and environmental information for use in off-line planning, research, and analysis.																X		X
Archive Data system	Provides automatic passenger counts and archive the data for analysis and research.	X	X	X		X	X			X							X		X
	Provide Enterprise Geographic Information System to manage archived data for hazmat, safety, assets, bus stops, routes.						X												X
	Provide the interface that allows the regional members to share data and retrieve information																		X
	Selects and formats data residing in an ITS archive to facilitate local, state, and federal government data reporting requirements.	X	X							X									X
	Provides capabilities to access "in-place" data from geographically dispersed archives and coordinate information exchange with a local data warehouse.																		
	Provides the specialized publishing, directory services, and transaction management functions associated with coordinating remote archives.																		
	Provides 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. On-line analysis and data mining features that are also included in this operation in addition to the basic query and reporting user access features.																		