

ITS Inventory

ITS Element	Description
511NY.ORG	Traveler information system, including web site and interactive voice response (IVR), for traffic, transit, roadway, and weather information providing New York State travelers with up-to-date information on road conditions, traffic, construction, transit itinerary planning and other activity affecting transportation managed by NYSDOT.
Archived Data User Systems	This represents the systems that are used to access archived transportation, maintenance, construction, transit, and crash data for research, planning, and other off-line uses.
CENTRO Customer Information System	Customer and traveler information systems for regional bus rapid transit operations.
CENTRO Kiosks	Point of sale and traveler information kiosks located in regional transit facilities.
CENTRO Transit Data Archive	This archive includes ridership, maintenance data, and operational data (e.g., route coverage) for transit properties in the region. This database can support federal reporting requirements (Section 5311). System designers may use the data to validate their work.
CENTRO Transit Operations Center	Regional transit operations center systems. Transit center performs the dispatch function and coordination point for transit, emergency, public safety, and traffic management.
CENTRO Transit Security Systems	Represents on-board and fixed location security systems such as CCTV and alerting systems.
CENTRO Transit Vehicles	Bus rapid transit vehicles.
CHEMTREC / CANUTEC	Hazardous material information specialist used by public safety agencies in the United States to plan and effect a safe Hazmat response
Clarus	The Clarus initiative is a federal project and system that provides qualified weather observation data from local and regional road and rail weather observations to serve a greater community of transportation system operators.
Commercial Vehicle Fleet Dispatch Systems	Charter bus fleets, major truck fleet operators, taxi services, limo services, etc. Note that the dispatch may actually be outside the state.
Commercial Vehicles	Private commercial and fleet vehicles.
Financial Institutions	Represents the financial institutions the regional transit agencies will use as part of electronic fare payment systems.
Government Reporting Systems	This general element is used in the ITS architecture to represent various government agency systems that require transportation reports.
HOCTS MPO Data Collection and Reporting System	A multimodal transportation data archive operated by the MPO for the region.
I-95 CC Information Exchange Network	I-95 Corridor Coalition (eastern states) incident, traffic, and traveler information exchange network.
Internet Canal Advisory System (ICAS)	Alert system regarding major canal incidents and emergencies.
Local 911 Call Centers	Represents the Public Safety Answering Points (PSAP) for the municipality and/or county. These PSAPs are centers where emergency calls are received and entered into a system database. The center then routes the information to the appropriate public safety agency for dispatch or response. The center is sometimes also the dispatch center.
Local Asset Management Systems	This element represents a place-holder element for an asset management system for the municipalities within the Region (e.g. bridge restrictions, pavement management, etc.).
Local DPW Dispatch	This includes city, county, and agency specific maintenance dispatch systems.
Local DPW Maintenance and Construction Vehicles	Represents the ITS equipment, such as mobile data terminals, in the maintenance vehicles that are dispatched by the maintenance departments for local municipalities and counties.
Local EOC	This element represents county, municipal, and other local emergency operations centers that coordinate emergency response with SEMO and the NYSDOT STICC.
Local Fire/EMS Dispatch	This includes local city, county fire and EMS dispatch systems.

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Local Fire/EMS Vehicles	Represents the ITS equipment, such as mobile data terminals, in municipal and county emergency fire and EMS vehicles.
Local Police/Sheriffs Dispatch	Represents city, town, village police departments, and county sheriffs departments dispatch functions.
Local Police/Sheriffs Vehicles	Represents the ITS equipment, such as mobile data terminals, in municipal and county law enforcement vehicles.
Local Public Information Office	Represents the city and county public information offices that distribute information to the media.
Local Traffic Control Center	Central control and operation of city and county ITS field equipment, including traffic signals, CCTV cameras and dynamic message signs.
Local Traffic Field Equipment	ITS field equipment operated by municipal and county traffic management centers.
Local Transit Operators Systems	Represent regional, municipal, school district, or county-operated transit systems.
Local Transit Operators Transit Data Archives	This archive includes ridership, maintenance data, and operational data (e.g., route coverage) for transit properties in New York. This database can support federal reporting requirements (Section 5311). System designers may use the data to validate their work.
Local Transit Vehicles	Represents the ITS equipment, such as mobile data terminals and AVL equipment, in transit vehicles operated by municipal or county transit systems not specifically called out in the regional ITS architecture.
Local Traveler Information Systems	Represents the systems operated by cities and counties to distribute local traveler information to the general public. Such information may include traffic conditions, roadway construction, and transit information.
National Weather Service	Service for national, regional, and local weather information.
New York State Disaster LAN	Network used for information exchange and coordination between emergency management and public safety during disasters.
New York State Emergency Operations Center (SEMO)	Statewide emergency operations center in Albany, activated for major emergencies within the State of New York.
NY TransAlerts	System provides transportation incident alerts via e-mail and personal information devices (PDAs, phones).
NYAlerts	Subscribers can receive warnings and emergency information via the web, cell phone, email and other technologies. The general public may subscribe via the New York State All-Hazards Alert and Notification web-based portal.
NYS Canal Infrastructure Management System	Collects environmental data from field sensors, include precipitation gages and water level sensors.
NYS Canal Precipitation Gages	Precipitation gages to measure rainfall and snowfall.
NYS Canal Water Level Sensors	Water level sensors at key stream and reservoir locations to measure water level or stream flow.
NYS DMV Accident Reporting System	A database of collision information collected by law enforcement and maintained by the Department of Motor Vehicles in New York
NYS Police Dispatch	Dispatch center for New York State Police and Highway Patrol.
NYS Police Safety and Accident System	Traffic records database including collision data, maintained by the DMV.
NYS Police Vehicles	Represents the ITS equipment, such as mobile data terminals, in Ohio State Highway Patrol vehicles.
NYSDEC Regional Office	This regional office is one of the allied agencies that is involved in incident response, specifically those with potential for environmental impact because hazardous materials are involved, or for other reasons.
NYS DOT Bridge Management System	This database identifies all bridges and identifies all pertinent information about the bridges including dimensional and weight limitations and a record of all bridge inspections.
NYS DOT CCTV	Traffic monitoring CCTV cameras.
NYS DOT HELP Vehicles	Courtesy patrol vehicles operated by NYSDOT and NYSTA on New York State roads.

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NYSDOT Infrastructure Restrictions Database	This database contains a comprehensive highway restrictions (lane closures, shoulder work, etc. caused by scheduled construction and maintenance or incidents) and dimensional limitations (width, height, turning radius) for NYSDOT highways and roads. This database represents a single up-to-date source of the current highway configuration for the roads managed by NYSDOT.
NYSDOT Infrastructure Security Monitoring Equipment	Represents security monitoring equipment for NYSDOT transportation assets.
NYSDOT ITS and Traffic Signal Asset Management System	NYSDOT system manages the attributes of ITS assets.
NYSDOT Main Office Highway Data Services	This system collects traffic data from a statewide system of dedicated traffic count stations and also from the NYSDOT regional offices. This system collects vehicle classification, weight, and other traffic measures. It also includes the roadway characteristics and condition ratings for the highways. Data services also collect "Photolog" information, which is a series of photos of the state highway system.
NYSDOT Maintenance Asset Management Information System (MAMIS)	Roadway asset and maintenance work order management system.
NYSDOT Maintenance Decision Support System (MDSS)	The Maintenance Decision Support System (MDSS) is a decision support tool that integrates relevant road weather forecasts, coded maintenance rules of practice, and maintenance resource data to provide winter maintenance managers with recommended road treatment strategies.
NYSDOT Maintenance Vehicles	Represents the ITS equipment, such as mobile data terminals, in the maintenance vehicles that are dispatched by NYSDOT.
NYSDOT Motorist Information Systems	Includes NYSDOT dynamic message signs and highway advisory radio.
NYSDOT Public Information Office	NYSDOT Main Office Public Information Officer distributes information to media.
NYSDOT Region 2 Maintenance	Represents the dispatch function for maintenance and construction for routine and emergency road maintenance.
NYSDOT Region 2 Public Information Office	NYSDOT regional public information office distributes information to media.
NYSDOT Region 2 TOC	Traffic Operations Center (TOC) to monitor, control and operation of roadways using ITS devices such as CCTV, DMS, and traffic signals. The traffic operations centers perform traffic incident management functions and coordination with emergency responders.
NYSDOT Region 9 TOC	Traffic Operations Center (TOC) for control and operation of roadways using ITS devices such as CCTV, DMS, and traffic signals, and ramp meters in NYSDOT Region 9. Located in Binghamton.
NYSDOT Rest Areas/Truck Stops/Service Plaza Kiosks	Kiosks at rest areas and visitor centers. Tourist information, emergency evacuation information, and general traffic information could be provided in the future.
NYSDOT Road Weather Information System (RWIS)	NYSDOT road weather information system performs data collection from environmental sensor stations in the field and maintenance vehicles.
NYSDOT Speed Sensors	Represents the field equipment that monitors vehicle speeds for enforcement purposes or to advise motorists of their current speeds.
NYSDOT Statewide Information Exchange Network (IEN)	The Statewide Information Exchange Network (IEN) provides for the interchange of traffic and incident information between regional TOCs, NYSTA TSOC, and the STICC. Incident information is collected from public safety via the IEN. Traffic, incident and emergency information is shared with transit operators via the IEN. Information is shared with the 511NY.ORG for traveler information. The system will migrate from a CARS implementation to SMARTNET.
NYSDOT Statewide Operations Center Archive Management System	The archive management system for the NYSDOT. Functionally located within the STICC.
NYSDOT Statewide Transportation Information Coordination Center (STICC)	Central statewide traffic operations center for New York State.
NYSDOT Statewide Video Exchange Network (VEN)	NYSDOT video exchange between TOCs and STICC.
NYSDOT Traffic Count Stations	Traffic count stations owned and operated by NYSDOT.
NYSDOT Traffic Sensors	Real-time traffic count, volume, occupancy, and speed monitoring equipment.

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NYSDOT Traffic Signals	Signal controllers operated and maintained by NYSDOT.
NYSDOT Transit Service Information Portal (TSIP)	New York statewide information exchange system and archive for schedule, ridership, and fare information.
NYSTA Operations and Maintenance	Represents the dispatch function for Thruway maintenance and construction vehicles for routine and emergency road maintenance.
NYSTA Thruway Statewide Operations Center (TSOC)	Thruway statewide management center that coordinates information and local Thruway operations center activities.
NYSTA TransAlert	System provides transportation incident alerts via e-mail and personal information devices (PDAs, phones).
Other Local Traffic Control Centers	Represents adjacent traffic control centers that operate city and county ITS field equipment, including traffic signals, CCTV cameras and dynamic message signs.
Other NYSDOT Regional TOCs	Represents traffic operations centers in under NYSDOT regions that operate ITS field equipment, including traffic signals, CCTV cameras and dynamic message signs, on state roadways. This includes NYSDOT Region 9 TOC.
Private AVL Vendor Servers	Private vendor systems that collect and disseminate automated vehicle location (AVL) and vehicle operational data.
Private Mayday/Concierge Service Center	National services (e.g., GM On-Star) that provide Mayday and traveler information services for their customers.
Private Newspaper, Television, and Radio Stations	Local television, radio, and newspapers.
Private RWIS Vendor Servers	Private vendor systems that collect and disseminate road weather information from mobile and fixed data sources and weather information services.
Private Traveler Information Device	Personal devices used by the traveling public. Includes PCs, pagers, etc.
Private Traveler Information Systems	Represents the private traveler information providers serving the region. This element could, in the future, provide support to the National Traveler Information 511 number since it collects information from a broad array of operating centers. Could also include a website.
Private Traveler Vehicles	Vehicles owned by travelers.
Private Weather Service Systems	Private weather information providers.
Rail Wayside Equipment	The rail operated equipment at highway rail intersections.
Regional Airports	Regional airports that are owned and operated by the local municipalities or counties where they reside.
Regional Event Promoters	Represents statewide and regional event information systems.
Regional Rail and Bus Terminals	Represents Amtrak and inter-city bus terminals.
Regional Transit Operators Traveler Card	Transit fare payment card.
RESOURCE	Based out of St. Lukes hospital, RESOURCE determines which hospital is available or appropriate for medical emergencies in the region.
School Bus Dispatch	Provides dispatch function for the region's school buses.
School Buses	Represents the ITS equipment installed on school buses. General ITS capabilities are included here, omitting fare management capabilities, but with increased emphasis on the positive identification of students on the buses.
TRANSCOM RA Servers	The TRANSCOM regional architecture (TRA) is a program. It coordinates the collection and redistribution of traffic flow, origin-destination, incident, construction, equipment status and special event information data between transportation management centers running the TRANSCOM regional architecture. Both highway and transit facility data is distributed via TRA.
TRANSCOM TRIPS123	Regional transit itinerary planning and traveler information system operating in New York, New Jersey, and Connecticut.