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Kapsch TrafficCom

PANYNJ.

Next Generation Agency-wide TMS System.

The Port Authority of New York & New Jersey (PANYNJ) has awarded Kapsch TrafficCom a four-year, \$8.8M contract to install an Agency-Wide Transportation Management Software (ATMS). The contract consists of a four-year base term followed by two additional one-year optional support periods. Powered by Kapsch's DYNAC® software, the new system will enable the Authority to manage ITS assets at its bridges, tunnels, aviation and port facilities, and the PATH rail transit system from any of its individual facility Operations Control Centers and the PA-AOC. The new ATMS will help the authority improve operational efficiency, agency-wide visibility of travel conditions, and enhance regional transportation coordination.

PANYNJ builds, operates, and maintains critical transportation and trade assets. Its network of aviation, rail, surface transportation and seaport facilities moves millions of people annually and transports vital cargo throughout the New York/New Jersey region. PANYNJ also owns and manages the 16-acre World Trade Center site, home to the iconic One World Trade Center.

The new ATMS will enable PANYNJ to better manage its critical transportation-related assets. Kapsch will merge 21 independent traffic and facility management data systems into a single enterprise DYNAC-based ATMS that will manage the Authority's vital "Gateways to the Nation" transportation assets including the George Washington, Bayonne, and Goethals Bridges & Outerbridge Crossing, Lincoln & Holland Tunnels, LaGuardia, JFK International & Newark Liberty International Airports and the Port Newark-Elizabeth Marine Terminal.

Deployed in redundant data centers to improve reliability, maintainability and security, the new ATMS will replace independent legacy systems with an agency-wide, next generation architecture. All Authority assets will be able to be managed from any individual facility as well as the PA-AOC, providing agency-wide situational awareness. The ATMS will enable rapid, consistent, and appropriate responses to traffic incidents and tunnel life safety events by generating and executing real-time response plans to help facility and AOC operators expertly manage time sensitive, critical situations. New software at the Ferry Transportation Unit, Port Authority Bus Terminal, GWB Bus Station, Teterboro & Stewart International Airports and PATH will inform all Authority facilities on the status of the regional transportation network.

The ATMS will facilitate enhanced motorist safety and mobility by improving regional travel throughout the PANYNJ's transportation system infrastructure. The ATMS will communicate with 511 database and the traffic and incident data systems used by the Authority to convey real-time traveler information to regional transportation agencies and the traveling public. This streamlined interface will improve agency operational efficiency and information accuracy, facilitate consistent workflows, and enhance environmental monitoring and reporting capabilities.

References.
Client: Port Authority of New York and New Jersey
Location: Metro New York City, NY

System features.

- > Supervisory Control and Data Acquisition (SCADA)
- > Dynamic Message Signs (DMS)
- > NTCIP
- > Closed Circuit Television (CCTV)
- > Video Management System (VMS)
- > Center-to-Center (C2C)
- > Roadway Weather Information System
- > TRANSCOM Interface
- > Open Reach
- > Lane Use Signals (LUS)
- > Incident Management
- > Vehicle Detection System
- > Roadway Device Management System
- > Traffic Signal Interface
- > GPS Tracking Interface
- > External System Interfaces (511, Twitter, Travel Times, Open Reach)