

PENNDOT NEXT GENERATION ATMS — PENNSYLVANIA, USA



Traffic Management Center, Pennsylvania

The Pennsylvania Department of Transportation (PennDOT) sought a single statewide Next Generation Advanced Traffic Management System (NextGen ATMS) that would not only boost the efficiency of traffic incident management but also improve coordination between PennDOT Engineering Districts, PennDOT's Central Office, adjacent states and other stakeholders while enhancing dissemination of traffic information to the traveling public.

The NextGen ATMS software requirements included:

- Shared control of all existing and future Intelligent Transportation System (ITS) devices and data throughout the Commonwealth of Pennsylvania
- Facilitating consistent and planned responses for planned and unplanned events
- The ability to continue operation even after the failure of any single component
- An interface with PennDOT's existing software systems
- The ability to administer and maintain the system

Working closely with Central Office and District PennDOT stakeholders, Q-Free designed and implemented a centralized, web-based NextGen ATMS platform that is hosted and administered by PennDOT and accessible at all regional and district Traffic Management Centers. The ATMS seamlessly integrates with PennDOT's Road Condition Reporting System (RCRS) and Video Sharing Solution (VSS). It also provides shared control of all ITS devices throughout the Commonwealth.

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The second phase of the statewide deployment focused on transitioning the Central Region Traffic Management Centers which include District 8 in Harrisburg, District 2 in Clearfield, District 9 in Hollidaysburg, and District 3 in Montoursville. Phase 2 brought an additional 395 devices online including over 171 cameras, 170 signs, five detectors, and 49 Highway Advisory Radio beacons. The third and final phase of the statewide deployment focused on transitioning the Western Region Traffic Management Centers. Phase 3 adds over 500 additional devices. Q-Free also developed an Integrated Corridor Management Module to manage congestion around the Betsy Ross Bridge Construction Project in Philadelphia.

A new contract with PennDOT comprised the development of a traffic signal module that will enable MAXVIEW, the centralized intersection control SW from Q-Free's subsidiary, Intelight, to be integrated with Open Traffic Management System. With this new traffic signal module integration, PennDOT can add up to 10,000 intersections to the ATMS system, which will allow traffic operators to manage entire traffic networks in an integrated real-time environment.

The result is an open-architecture, web-based system that standardizes traffic operations across the state, facilitates integration of external systems and data sharing, and is easy to administer and maintain.

