

Making Interagency Traffic Control a Reality:

Case Study for New York State's Joint Transportation Management Center



In the early 1990's, the New York State Department of Transportation (NYSDOT) initiated planning and development for the comprehensive deployment of an Intelligent Transportation System (ITS) for the New York City metropolitan area. While the strategic use of advanced technology is critical, NYSDOT recognized the need for interagency cooperation between city, state and law enforcement agencies for traffic management to be reliable and effective in this expansive area.

To support NYSDOT's initiative, TransCore/JHK Engineering PC¹ was selected as a design consultant and Systems Manager/ Systems Integrator for Region 11 in 1996. As a component of this multi-year, multi-phase ITS deployment program, TransCore/JHK has performed multiple tasks encompassing all aspects of an ITS project, from the development of a deployment plan and regional architecture to the design, installation and integration of ITS field and central elements.

One of the most challenging efforts conducted for this project was the design and integration of the new Joint Transportation Management Center (JTMC). In addition, it was critical to facilitate collaboration with the NYSDOT, the New York City Department of Transportation (NYCDOT), and the New York City Police Department (NYPD) to make this initiative a success.

(To demonstrate the JTMC capabilities, a tour has been organized by Intelligent Transportation Society of America (ITSA) in conjunction with the conference.)

¹ JHK Engineering PC was established by TransCore, to comply with New York State law governing professional services corporations under New York engineering license laws, and has full access to the extensive resources of TransCore.

The JTMC allows the NYSDOT, NYCDOT and NYPD to work together to manage the high volume and complex traffic demands they face on a daily basis. Each agency shares resources and personnel to ensure the free flow of critical information to address planned and unplanned events throughout the five boroughs of New York City.

TransCore/JHK, designed the center and integrated the NYSDOT, and other agency systems, into the operating workstations of the JTMC. TransCore/JHK also developed an integrated family of standards based transportation software products known as TransSuite™. Several TransSuite modules are being utilized at the JTMC by the NYCDOT and NYSDOT (as part of the Sub-regional Management of Arterial Roadway Transportation Systems – SMARTS), as illustrated below:

TransCore TransSuite™ Module	Description	NYSDOT	NYCDOT
Traffic Control System (TCS)	A PC-based Signal Control System with full National Transportation Communications for ITS Protocol (NTCIP) support for controllers		√
Traveler Information System (TIS)	Controls both Highway Advisory Radio (HAR) and Dynamic Message Signs (DMS) with full NTCIP support signs	√	√
Video Control System (VCS)	Provides a wide range of features on proprietary traffic surveillance camera systems, including multi-level switching, user priority, and digital video transmission support		√
Freeway Management System (FMS)	Offers live information on freeway events and activities	√	√
Incident Management System (IMS)	An incident tracking application that collects active and planned event information. Can be used for broadcast to traveler information outlets and media.	√	√
Integrated Graphical Interface	Offers a flexible and integrated user control interface to enhance system navigation and management		√
Center to Center (C2C)	Facilitates real-time traveler information exchange in a Traffic Management Data Dictionary (TMDD) compliant format between different traffic management centers and/or systems	√	√

***Additional information is featured in the TransCore brochure**

Operating 24/7, year round, the JTMC is essential for managing traffic, reacting to incidents, as well as keeping private and commercial drivers informed to improve transportation in the metropolitan New York area. Through the development of the JTMC and its work with the NYSDOT, NYCDOT and NYPD, TransCore/JHK has helped facilitate seamless communication between state, city and law enforcement agencies.

For more information:

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