



SOLUTION OVERVIEW

CISCO AND TRANSORE TO DRIVE INTELLIGENT ROADWAY SOLUTIONS

CHALLENGE

Although highways are the backbone of the world's transportation system, thousands of lives and billions of dollars are lost each year because of accidents and traffic congestion. New security initiatives add to each transportation agency's burden as it strives to make travel and trade safe and efficient. Intelligent Transportation Systems (ITS) enable authorities to efficiently collect, analyze, distribute, and act upon highway information. These systems can distribute traffic information to travelers, help authorities manage traffic, and provide the communication tools that agencies need to more efficiently respond to emergencies and accidents. These systems can also deliver the information and support necessary to promote greater collaboration both inside and outside transportation agencies, and facilitate better and more efficient long-range planning.

Cisco® Intelligent Roadway, a unified, standards-based communications solution, takes advantage of existing investments in disconnected traditional systems to help transportation authorities capitalize on emerging operational, customer service, and security opportunities. TransCore brings the solution to life with a strategic end-to-end systems integration plan that encompasses design, build, installation, and maintenance.

SOLUTION

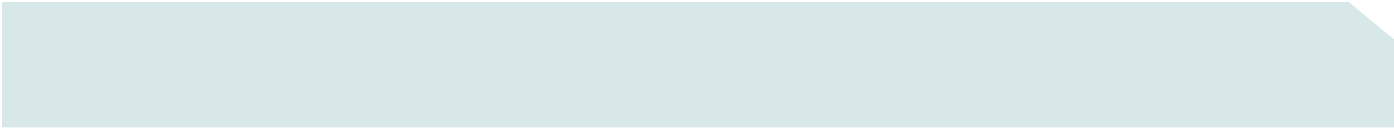
The Cisco Intelligent Roadway solution includes advanced traffic management solutions, traffic management centers, and advanced traveler information systems. This multiservice network enables more efficient and cost-effective operations when consolidated over a converged network. The Cisco solution for ITS solutions allows Department of Transportation (DOT) agencies to be ready for future applications such as transmitting information to and from vehicles and providing video streams of incidents to responders on handheld devices.

Cisco Systems® and TransCore work together to deliver a core infrastructure that takes full advantage of existing infrastructure, enabling administrators to use high-performance applications that improve the overall efficiency of roadways. The Cisco Intelligent Roadway solution consists of an intelligent information network that connects disparate network systems to improve the flow of traffic, reduce and minimize roadside incidents, and provide operators with a central view of the highway system, including road conditions, traffic, vehicle crews, and transit information. Both Cisco and TransCore work closely with transportation agencies to design and implement the ideal solution that will address each specific challenge.

BUSINESS BENEFITS

TransCore and Cisco are committed to providing customers with the highest quality and value available with each company's products. By offering competitive solutions with proven reliability and cost-effective upgrades, TransCore and Cisco can deliver integrated systems that can help lower total ownership costs for customers.

TransCore offers complete ITS system solutions that range from software products to system design, installation and integration, and operations and maintenance. As a comprehensive ITS systems provider, TransCore products and services can be tailored to meet your agency's specific needs.



Working with TransCore and Cisco allows customers to have an operationally efficient, end-to-end ITS solution for their roadways. The solution also provides a mechanism to allow DOTs to communicate in real time with other agencies such as public safety, other DOTs, and Homeland Security. Cities, states, and counties can now deliver a more efficient response to roadway incidents and natural or man-made emergencies.

SUPPORTING SOLUTIONS OR PRODUCTS

From Cisco Systems:

- **Cisco Network Security Solutions:** Using advanced encryption and tunneling, Cisco network security solutions enable secure, end-to-end, private network connections over third-party networks, such as the Internet or extranets and provides wireless protection software and intrusion detection systems.
- **Cisco Core and Edge Network Solutions:** Cisco WAN core solutions tightly integrate IP and ATM technologies through tag switching, which allows IP services and ATM services to be delivered on a single infrastructure with dynamic bandwidth sharing between services.
- **Cisco Wireless Solutions:** The Cisco Aironet® Series of wireless LAN solutions integrates easily into an existing network as a wireless overlay, or creates freestanding all-wireless networks, enabling mobility and increasing productivity quickly and cost effectively.
- **Cisco IP Communications Solutions:** Enterprise-class solutions include IP telephony, unified communications, IP video- and audioconferencing, and contact center that facilitate more engaging and efficient interactions amongst employees, partners, and customers.
- **Cisco CWDM/DWDM Optical Solutions:** Employs multiple light wavelengths to transmit signals over a single optical fiber, maximizing the use of installed fiber cable and allowing new services to be quickly and easily provisioned over existing infrastructure.
- **Cisco Mobile Access Router:** The Cisco 3200 Series Mobile Access Router, designed for “always-on” connectivity, facilitates mobility of entire networks of communication devices in moving vehicles such as trucks, light rail, emergency vehicles, and automobiles.

From TransCore:

The TransSuite family of traffic management software products offer a comprehensive ITS solution in a flexible, modular architecture that allows agencies to tailor the solution to meet their specific needs—and only pay for the components they need. In addition, the generous licensing structure allows for system expansion, even regionally, without incurring additional license costs. TransCore’s TransSuite software capabilities include:

- Dynamic GIS-based system displays
- Graphic displays with support for aerial, perspective, 3-D, CADD, and other base displays
- Freeway Traffic Management
- Traffic Signal Control
- Ramp Meter Control
- Dynamic Message Signs MS and Highway Advisory Radio Control
- Video Management
- Incident Management



WHY CISCO/TRANSCORE ALLIANCE

TransCore and Cisco have a common goal of providing customers with best-in-class products and unequalled support in the deployment of ITS solutions. The advancement of network technologies and field hardware have allowed contemporary ITS systems to expand IP communications all the way to field devices, providing a true end-to-end managed solution. Furthermore, the rapid deployment and potential cost savings offered by wireless networks are also very attractive to agencies that are interested in deploying ITS solutions without incurring large fiber infrastructure costs. As national leaders in ITS and network hardware, respectively, TransCore and Cisco are natural partners.

ABOUT CISCO

Cisco Systems, Inc. is the worldwide leader in networking for the Internet. Today, networks are an essential part of business, education, government and home communications, and Cisco Internet Protocol-based (IP) networking solutions are the foundation of these networks. Cisco hardware, software, and service offerings are used to create Internet solutions that allow individuals, companies, and countries to increase productivity, improve customer satisfaction, and strengthen competitive advantage.

ABOUT TRANSCORE

TransCore is a privately held transportation services company with 1800 employees and more than 80 locations globally. With installations in 39 countries, 80-plus patents and a world-class manufacturing facility, TransCore's expertise in providing system-based applications that improve transportation efficiency is unparalleled.

FOR MORE INFORMATION

For more information about Cisco Intelligent Transportation Solutions: <http://www.cisco.com/go/transportation> or contact your local account representative.

For more information about TransCore Transportation Solutions visit <http://www.transcore.com>

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