Traffic Networks Keep Citizens Moving Safely and Quickly

Networks that keep a community moving and safe are usually hidden from sight and far from the minds of residents. The orderly, fast and safe movement of traffic is often taken for granted. For cities, the ability to move people and vehicles efficiently is a key element to their economic health, vitality and growth. Without a reliable infrastructure for traffic safety and control, business and personal travel would be extremely difficult, hindering a city's ability to attract new businesses and tourists. Traffic lights, railway crossings and data from traffic sensors all depend upon a solid and reliable network to keep a community moving.

Networks that do Zero to Sixty in Safety

Motorola wireless broadband access networks allow communities to monitor traffic flow patterns, adjust traffic control systems in real-time, identify and log traffic violations and allow for quick and efficient deployment of emergency services to trouble areas.

Traffic Flow and Emergency Response

If there is a major accident on a city highway, by using Motorola's wireless broadband access network systems, first responders will instantly be able to assess the situation and deploy the proper resources to ensure the appropriate aid arrives quickly and traffic flow patterns return to normal as soon as possible.

In addition to the traffic control aspects of the network, a municipality also needs to be able to respond to emergency situations quickly and efficiently, ensuring the right resources reach the emergency in the shortest amount of time. First responders need to know, in real-time, the location of a situation and have a clear description to assess and dispatch appropriate response units. Not all incidents are critical, nor require immediate action, so responders need to fully understand and evaluate the situation to ensure limited incident response resources are properly prioritized.

Traffic infrastructure for cities and states can be extremely costly. The challenge public officials face is providing a robust traffic control and monitoring network that satisfies all the needs of the community, while ensuring costs remain reasonable.

Mix of Motorola Products Get Green Light

One city was looking for a cost-effective way to bridge all of these services and after researching various solutions, was able to find the best network for their needs in Motorola's portfolio of wireless broadband products. The city wasn't able to satisfy all of their needs under a single ready-made solution; however Motorola was the perfect answer, since the various products from the wireless broadband portfolio can be easily conjoined into a complete municipal traffic management network. To meet their needs, the city used Motorola's integrated system of Point-to-Multipoint (PMP), Point-to-Point (PTP) and MOTOMESH™ solutions.

- The PMP portfolio is the ideal technology for developing, enhancing and extending advanced broadband networks and services. The system also delivers high-demand technologies like Internet access, VoIP, video services and security surveillance quickly and at a far lower cost than wireline alternatives.
- The PTP solution achieves high-quality, reliable non-line-of-sight (NLoS) and long-range line-of-sight (LoS) connectivity where other wireless solutions cannot.
- MOTOMESH™ Solo is a dedicated high-speed mobile broadband solution designed to improve situational awareness and incident response. Initially designed for military use, MOTOMESH MEA (Mobility Enabled Access) networking technology provides instant, reliable communication networks, where fixed infrastructure is either not available or cost prohibitive. The solution works where WiFi won't, due to its extreme tolerance for heavy network interference.

The Motorola portfolio of wireless broadband products is the perfect solution for municipalities needing to blanket vast geographical areas with coverage, while maintaining a non-wireline infrastructure across bodies of water, rail crossings, unique skylines, geographical obstacles and other

Reliable Network Creates Safety

Motorola wireless broadband networks move valuable information rapidly and cost effectively, carrying anything from:

- Video information on red light runners at intersections
- Video monitoring of railway bridges and switching yards
- Collecting data from road or traffic sensors
- Uploading and downloading data relevant to the everyday business of running a network that spans a county or state

With rapid access to reliable video and data, transportation managers and responders can be alerted to a condition, assess the situation and prioritize and dispatch the appropriate response units. In emergency situations, lives can be saved. In non-emergency situations, issues are handled efficiently at dramatically lower costs than wire-based alternative networks.

Cities need to provide essential services for citizens to ensure their safety and convenience, but it is also essential that a city keep an eye on costs without compromising performance. By deploying Motorola's portfolio of wireless broadband solutions, this city was able to resolve transportation challenges by providing a robust and affordable network coverage, that can collect real-time traffic data, video surveillance and is capable of delivering this information to those who allocate resources. This keeps traffic moving within the city, allowing residents and tourists to travel quickly, efficiently and safely.

About Motorola Wireless Broadband

Motorola's industry leading portfolio of reliable and cost effective wireless broadband solutions provide and extend coverage both indoors and outdoors. The Motorola Wireless Broadband portfolio offers high-speed connectivity systems that support voice, video and data solutions enabling a broad range of applications for both fixed and mobile public and private networks. With Motorola's One Point Wireless Suite of innovative software solutions, customers can now design, deploy and manage their broadband networks at lower installation costs that maximize up-time and reliability.

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