

CITY OF SEATTLE SELECTS MAGNUM 6K SWITCHES FOR HARDENED ITS NETWORK

A Transportation Application

ABOUT THE CITY OF SEATTLE ITS

The City of Seattle recently made a multi-million dollar investment in Intelligent Transportation Systems (ITS) to improve safety, better travel time and reduce fuel consumption by reducing congestion and providing real-time roadway-related information to users. The initial deployment included installing 57 traffic cameras, 14 dynamic message signs, and vehicle detection devices throughout many of the city's major corridors.

THE CHALLENGE

All of the new traffic cameras and signs support TCP/IP communication, tripling the number of nodes on the City's IP network. To ensure reliable transmission of data, the City needed Ethernet switches that were hardened to withstand uncontrolled temperature environments in field installation, were highly redundant with automatic backup paths, and could support sophisticated communications technology including multiple VLANs to properly segregate the high-bandwidth traffic between the traffic control installations and the central office. In addition, the City required switches that supported Internet Group Management Protocol (IGMP) to efficiently manage multicast video traffic; and which was configurable

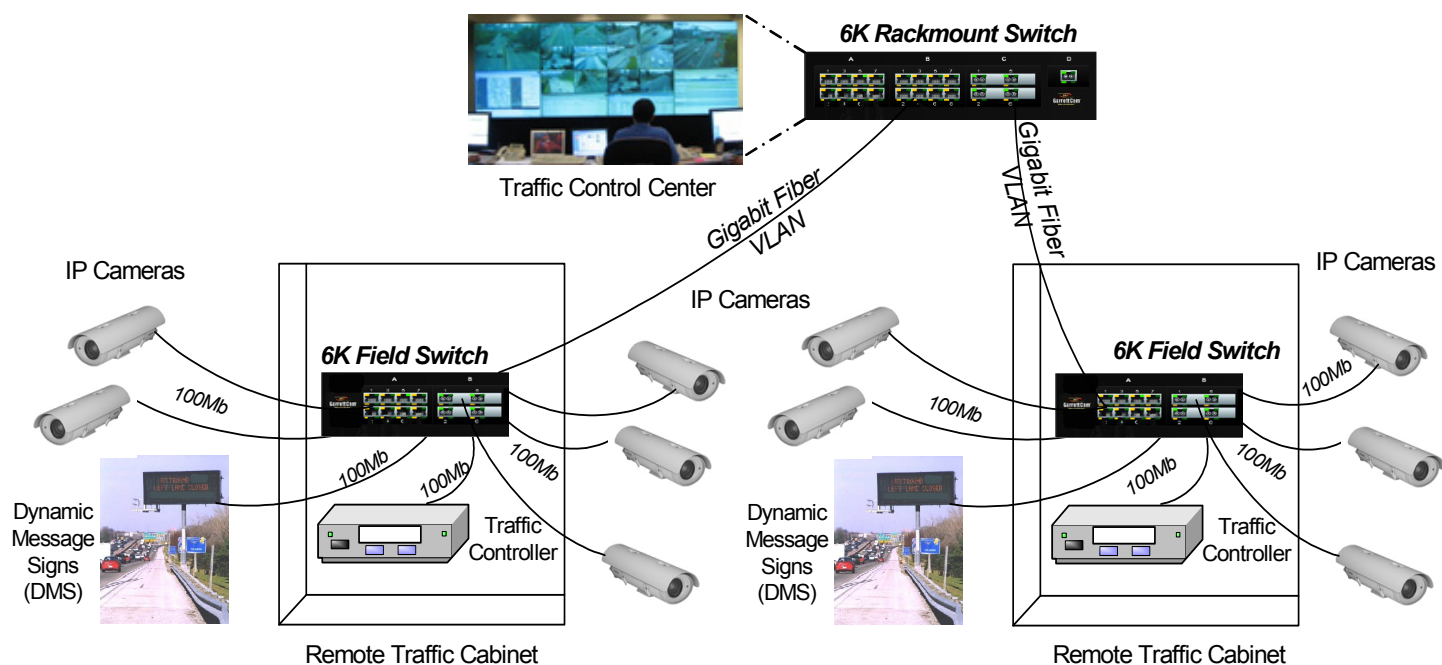
to allow the single-vendor purchase of switches with varying port density and bandwidth (100Mb to 1Gb).

THE SOLUTION

The City of Seattle chose GarrettCom Magnum 6K Switches including the 6KQ for field locations and larger rackmount Magnum 6K32 Managed Switches for the Control Center. The 6KQ Field Switch was chosen for many of the outdoor locations for its small footprint, which fits easily into a traffic control box as well as for its outdoor-hardened design, and flexible configurability. The 6K field switches then network the new IP cameras and dynamic message signs at various Seattle intersections and roadside locations.

All of the 6K Switches also met the City's requirement for both 100Mb and Gb capability. Each switch can also be configured with a full range of fiber and copper port modules. Gigabit fiber ports on both the rackmount and field switches allow for an efficient connection from a field location to the traffic control center. All of the Magnum 6K Switches come with robust GUI-based MNS-6K Software.

Magnum 6K Switches for City of Seattle



CITY OF SEATTLE SELECTS MAGNUM 6K SWITCHES FOR HARDENED ITS NETWORK (CONT.)



copper ports, and are hardened for use in harsh environments such as outdoor traffic control boxes. Power input choices include AC, 125VDC, -48VDC, and 24VDC as well as dual power supply options. Magnum 6K switches have all of the necessary agency approvals and compliance including NEMA TS-2 and TEES for traffic control equipment.

ABOUT GARRETTCOM

GarrettCom, Inc. is the leading manufacturer of industrial networking products. GarrettCom offers a

THE RESULTS

Today the City's ITS system provides real-time travel times, incidents and construction information through its Traveler's Information Map which allows motorists to plan better routes, and informs them en route of traffic situations to reduce congestion. A good example is the Spokane Street Corridor, which has been undergoing major construction, including lane and ramp closures. When a bridge in the corridor opens for ship traffic, the ITS system notifies motorists, transit and heavy freight operators well in advance to allow them to seek alternate routes.

comprehensive line of hardened industrial Ethernet switches, routers, converters, and serial products for use in traffic control, video surveillance, industrial, and automation environments. The company's management software supports redundant rings and secure web-based access to local and remote networks. GarrettCom markets its products through a network of resellers, OEMs, system integrators, and distributors worldwide. For more information on GarrettCom and its products, visit www.GarrettCom.com.

ABOUT MAGNUM 6K SWITCHES

Magnum 6K Managed Ethernet Switches are highly configurable switches, providing modular slots for user selection of 100Mb, 10Mb, or Gigabit Ethernet fiber or



GarrettCom[®]

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GarrettCom, Inc.

47823 Westinghouse Dr. • Fremont, CA 94539 • PH: (510) 438-9071 • FAX: (510) 438-9072

Email: mktg@garrettcom.com • Web: www.GarrettCom.com