Videosharing in Washtenaw County

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Integral Blue
Communications work with fiber, wireless, and other mediums
System installation, Integration, and testing
System maintenance and monitoring
Taking ITS to new heights!
NETWORK REDUNDACY
Ring Topology/Automatic Failover
Layer 3 Routing
Network Monitoring System (NMS)

VIDEO MANAGEMENT SYSTEM (VMS)
Genetec VMS

SCALABILITY
Network supports growth
Built to share

A network modernization project for a countywide Traffic/ITS network to reduce traffic congestion, increase stability of the network, improve cybersecurity, and overall provide a solid foundation that allows for future growth and the latest traffic applications.

Based on the size of Washtenaw’s traffic signal network, the ITE recommends a staff of over 7 technicians to regularly maintain the system. However, with a current field staff of only 3 personnel, WCRC needed a way to leverage technology in support of their maintenance and operations tasks.

The project included a new IP and routing scheme, Video Management System, network monitoring software, video sharing capabilities, traffic management software upgrades, video displays, and network redundancy.

Integral Blue leveraged their integration expertise on this project and brought their hands-on approach into the planning, actively conducting field surveys and network mockup demonstrations to ensure that no detail was missed and that the proof of concept was sound. During implementation, equipment installations and integration were performed on the live, active network without significant impacts to daily operations.

This project allows Washtenaw County traffic operations and maintenance to provide greater system uptime with fewer staff by utilizing the latest technology in Traffic/ITS, making them more agile, mobile, and proactive. The motoring public will experience improved traffic flow, including on the road networks that provide access to downtown Ann Arbor which services the UoM campus and hospital.
The Challenge: Best Video Management Solution

Washtenaw County Needs

- View/PTZ Video
- Share access with partner agencies
- Flexible/remote capabilities for video management
- Built to scale and share Video and Security applications

Traditional Traffic/ITS ATMS

- View/PTZ Video
- Control Dynamic Message Signs
- View Vehicle Detection
- Central command. Colocated with 911 dispatch
- Built to Manage Freeway ITS
The Solution: Genetec Security Center
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- Video
- PTZ
- Manage Users
- No Recording

Internet

Firewall

Internet

Firewall

Fiber Optic

Field

Network
The Solution: Genetec Security Center

- Video
- PTZ
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- Video
- PTZ
- Manage Users
- Ability to Record

Internet

Firewall

Field Network

Fiber Optic

Field

Firewall

[Diagram showing network components and connectivity]
The Solution: Genetec Security Center

- Video
- PTZ
- Manage Users

Internet

Firewall

Washtenaw County Road Commission

Field Network

Fiber Optic

EOC

FIRE

- Video
- PTZ
- Manage Users

No Recording

- Video
- PTZ
- Manage Users
- Ability to Record

Video

PTZ

Manage Users
Future Capabilities

License Plate Recognition (LPR)  Body-Worn Cameras  GPS/AVL  Remote Managed Smart Locks
Takeaways

- Different Customers = Different Solutions
- Security/Law Enforcement/Transportation Worlds Are Overlapping
- Opportunities and Ease of Agencies Sharing Assets Continues to Improve
Questions