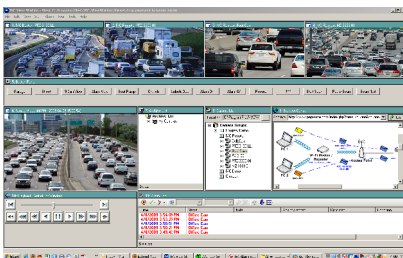# Traffic Monitoring

IVC is providing the video component of Wisconsin's Department of Transportation's next generation Freeway Traffic Management System. A local network systems integrator is prime contractor on this state-of-the-art project which involves upgrading an existing network to a high speed SONET-based network incorporating multiple fiber optic rings within the metropolitan area. To accomplish this, the integrator is using RPR (Resiliant Packet Ring) technology, an emerging standard that permits Ethernet traffic on a SONET backbone.

IVC's video systems are designed for use on an Ethernet network using a TCP/IP standard. The TCP/IP format provides a high level of management, control, distribution, and interoperability. Although this Metropolitan Area Network (MAN) is being developed by the state's Department of Transportation, it is designed for flexible regional use by a variety of agencies including police and fire departments. IVC's equipment and software was selected for this application for several reasons:

1. IVC's IP- and Relay Server-based architecture allows easy manipulation of video, camera control, and content distribution to various agencies in real time. It allows camera access to be limited to any number of authorized users, and enables priority users (such as police or fire departments) to take emergency control. Selected video content can be made available to public viewers with no camera control privileges.

2. Using multiple Relay Servers, the video network is immune to single-point-failures. If a connection is lost, an alternative Relay Server immediately takes over and the video is re-routed within seconds.

3. No additional software is required on the viewer's computers since IVC's system requires only a standard web browser. No specialized real time protocols or reconfiguration of the existing network is required.

4. IVC's Relay Servers are able to integrate and control the existing CCTV system, which is more than a decade old. Existing cameras are handled seamlessly through a single interface.

As other agencies in the area are introduced to the capabilities of the Metropolitan Area Network, new video needs and requirements are being identified. These will be easily accommodated with IVC's open architecture designed to handle future applications - even those not yet identified.

"The ability to control the cameras from any location while limiting who can control them, is just one of the great advantages. The panorama view is very useful."