



Cisco Outdoor Wireless Solutions for Mobile and Wireless Video Communications

Why should I care about mobile and wireless video communications?

Wireless and wired networked capabilities provide a more efficient and cost-effective video communications solution to communities. Advanced mobile video technologies make it possible for public safety personnel to remotely view live or recorded images and observe real-time security video streams from different locations while mobile. This allows police and first responders in transit to be aware of potential hazards, evaluate critical situations, plan the appropriate course of action before they arrive at an emergency scene, and reduce the potential for harm to themselves and the people they are assisting. Video feeds coming from a public safety vehicle can be accessed from any place in the network. With a networked video solution, police and first responders can communicate with each other and share information in the field using their vehicles' laptop PCs and handheld devices such as PDAs and phones. Wireless data entered from the field expedites triage and helps victims get help more quickly. More accurate information can be made available immediately, including road closings, aid resources, and location and case histories of affected individuals.

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Cisco Mobile Video Communications Solution

Police departments often require mobile video communications for police cars in order to document their incidents, whether it is a crime stop or a routine speeding violation. Mobile security video is a valuable tool that helps protect officers while on duty and provides a record of incidents.

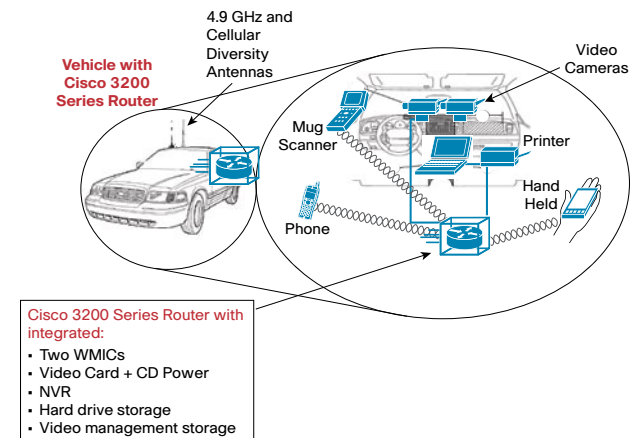
Together with its ecosystem partners, Cisco® offers an in-vehicle video communications solution that can help to protect first responders and the public. The Cisco 3200 Series Wireless and Mobile Router includes an internal intelligent video server and network video recorder, and can be deployed in vehicles to capture and record the video stream coming directly from video cameras mounted to the public safety vehicle. While a public safety officer is roaming across a city or driving to the location of a crime scene, the Cisco wireless in-vehicle solution continuously captures video streams from the cameras and makes them accessible from any place in the network over wireless technologies such as 4.9-GHz, 802.11, or high-speed cellular. This video communication solution can also be connected to a centralized video management and archiving system.

For public safety and law enforcement agencies, Cisco mobile digital video systems provide secure storage, long duration recording capabilities, and archival management with the ability to connect the system to multiple wireless networks while in motion.

Outdoor Wireless, Fixed-infrastructure Video Monitoring

The public safety industry uses fixed-location video monitoring to protect city assets, such as jails, police headquarters, traffic intersections, and public buildings. Cisco Outdoor Wireless Network solutions connect a high-performance wireless network to video cameras across an extended geography while minimizing the number of wired backhauls. The solution offers video monitoring in mobile and outdoor environments, allowing use of the same IP network for data and voice communications across a wide metropolitan area. It provides video analysis of significant user-defined events such as perimeter breach, theft, a left bag, and loitering. Alerts can be sent directly from the router to those most able to respond, such as a police car, medical personnel, or control center. Video can be routed through the network to multiple destinations simultaneously, at the image quality required by the viewer and at bandwidths matching the communications links available. Intelligent usage of network bandwidth can be further achieved by requiring maximum network capacity only when alerts are generated.

Figure 1: Cisco Mobile Video Communications Solution





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What are the benefits of a Cisco mobile video communications solution?

Public safety agencies use wireless security video systems as an essential tool for protecting the public and enforcing the law. By combining intelligent use of the network with leading-edge video analysis and response to the video content, and packaging the video solution into a mobile and wireless router, the range and scope of video security is tremendously expanded.

Benefits of the Cisco Mobile Video Communications Solution include:

- **Reduced danger to enforcement personnel**
The ability to view and review an event from any place in the network as it happens provides invaluable intelligence to the responding personnel, reducing the risks they face in dangerous situations and providing them with the situational awareness they need to assess the situation and respond accordingly.
- **Safer citizens**
Putting this technology in the hands of security and public safety personnel in the field protects and saves lives and property, in addition to helping apprehend suspects.
- **Quicker response to incidents**
Security personnel and first responders, including police, fire departments, and business owners, are alerted instantly when a possible security breach has occurred, providing quicker response and the ability to prepare a plan of action.
- **Advance information in the field**
As the response scenario unfolds, continual relevant updates can give personnel in the field a unique advantage they've never had before, including the ability to monitor and control cameras and recording systems from any point on the network or remote location.

- **Full connectivity on any platform**
The Cisco Mobile Video Communications Solution is a scalable, standards-based solution that communicates with a range of wired and wireless technologies to provide connectivity throughout a large geography. Future upgrades and expansions are easy on this standardized platform.
- **Easier installation while saving space and power**
The Cisco 3200 Series Router includes third-party components to provide a single-box solution, including housing in a single enclosure (not only the wireless router but also a video recorder), hard drive storage, and video management storage. This industry-standards-based solution frees up trunk and pole space and saves electrical power. The single-box, modular platform reduces installation complexities and associated maintenance and operational costs.

For more information on Cisco Outdoor Wireless Solutions, visit:

<http://www.cisco.com/go/outdoorwireless>