IBM Digital Video Surveillance: In-car computing for delivering intelligence

Digital solutions for comprehensive video surveillance
Increasingly, law enforcement agencies are required to implement in-car video surveillance solutions capable of meeting legislative mandates and functional requirements. Traditional patrol car-based systems, which typically use analog tape technologies, are limited in terms of storage capacity, security protocols and overall performance. To answer these challenges, IBM is providing agencies with leading-edge digital video surveillance systems – comprehensive solutions that address the capture, transfer, management and storage of video content.

IBM in-car video installations capture digital video from car-mounted cameras and sound from microphones worn by police officers and record this data onto the system’s hard drive. The IBM solution also captures auxiliary data, such as radar or Global Positioning System (GPS) readings, to augment video information. In-car content can be sent to the agency’s network in real-time via wireless streaming video. At the end of a shift, the hard drive is removed from the car and its DVD-quality video is transferred to a centralized database – making relevant content accessible to stakeholders across departments and agencies.

Supporting legislative mandates:
Superior logs, storage and security
Robust security measures are built into the IBM solution along the entire lifecycle of the captured

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Highlights

- Provides an integrated, end-to-end surveillance solution
- Helps support evolving security and legislative mandates
- Enables expanded and automated access to content
- Leverages a strategic IBM partnership for superior functionality
content, assisting in legislative compliance, as well as improve crime prevention, detection, response, investigation and prosecution. Unique authentication keys and systemic chain-of-custody logs help prevent tampering, track usage and assure reliable data capture. Additional data safeguards include wireless encryption and integration with other access-control solutions, such as biometrics.

Moreover, the IBM approach facilitates data retrieval by name, driver’s license number, date of birth, address and other defining characteristics. In this way, law enforcement organizations at many levels—from small municipalities to large state and federal departments—can turn accumulated data into useful intelligence.

Enhanced access: Driving collaboration among departments and agencies
The video management component of the IBM solution features an automated, PC-based retrieval system, and integrates with other car-based and departmental computing systems. Underlying this functionality is a highly scalable, state-of-the-art data repository built to securely store and archive massive quantities of video content. Benefits accrue from more reliable, efficient and cost-effective communications and improved collaboration among departments and agencies. In this way, IBM supports successful, end-to-end video surveillance—from the incident to the courtroom.

IBM and Coban: Partners in performance
IBM has partnered with Coban Technologies to deliver this complete, integrated digital video solution. Coban’s Video Mobile Data Terminal (VMDT) and Digital Video Management System (DVMS) are designed specifically for the law enforcement community, and utilize proven, leading-edge technologies that streamline operations, increase productivity and satisfy a wide array of stakeholders in public safety. IBM’s hardware, software and storage products—including IBM @server xSeries® servers, Content Manager and Ultrium LTO tape library—anchor the solution and enhance its performance in terms of scalability, security, cost and rapid deployment. Moreover, the IBM and Coban solution establishes a platform for expanding in-car services and solutions, enabling video capture, electronic ticketing and other functionality from a single device.

For more information
To learn more about the IBM in-car digital video surveillance solution, please contact your IBM sales representative, or visit:

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