

GAME CHANGERS

A CLOSER LOOK AT TECHNOLOGY ON THE HORIZON

The Real-World Deliverable of Mobile Video

Using mobile video for serious operational and security purposes is now possible thanks to the evolution of mobile technology and user adoption. The key functions of video systems including live incident management and mobile investigations are now available to users anywhere, but require special attention to traffic flowing through an organization's networks and Internet link. Extending a video system with a new mobile user base may add large amounts of data flow that must be monitored to ensure the physical connection speed available stays ahead of demand. Many organizations with in-house infrastructures deploy additional lower-cost cable or DSL-type connections to support their mobile traffic.

Real-world deliverable frame rates and latency vary heavily, depending on the type of wireless connection (2G, 3G, WiFi, etc.) and physical location. A properly tuned system should be able to deliver at least 1 to 2 frames per second

(fps) on a 2G connection (typically found in more remote areas); 4 to 6 fps over 3G and 10+ fps on WiFi.

A key element is the latency of those frames — how real-time are they? Video that is 30 seconds old is useless man-

tion will add considerably more.

Latency and bandwidth throughput are directly related over a congested cellular connection. Maxing out the available bandwidth for video quality or frame rate will send latency soaring. A good target is using no more than 50 percent of the available network pipe to prevent latency spikes. Ideally, a mobile video solution will dynamically adjust video compression, frame rate and quality based on changing network conditions.

With the right network setup, mobile video is very secure and access is limited to authorized users. A critical first step is changing default camera, firewall and Internet router passwords so they won't be accessible to someone via the Internet. Layering on top of that the use of mobile VPNs, video over SSL, secure mobile apps, and mobile device management to remotely wipe lost devices yields a rock-solid solution.

Properly architected, mobile video solutions will change the way the world uses existing and future video infrastructure. — **Contributed by Alex Bratton**, founder and chief executive officer, Lextech Labs



IMAGE COURTESY OF LEXTECH LABS

aging a critical incident so the system needs to provide low-latency video. The wireless connection itself adds latency (typically 50 to 150ms for WiFi, 150 to 300ms for 3G, and 300 to 500ms for 2G), but data congestion on the connec-

Integration Produces Bi-Directional Interface

Pelco Inc. by Schneider Electric and Gallagher Security announced the successful integration of Pelco network video recorders with the Cardax FT Command Centre access control platform offering end users a true, fully featured bi-directional interface.

Following more than a year of collaborative research and development between the two companies, the integration of the Cardax FT Command Centre software and Pelco Endura network video recorders allows alarms or other signals generated by Cardax

to activate and control Endura video recorders for an instant view of security incidents. Likewise, Endura video recorders with motion-sensing capabilities can produce an alert through the Cardax platform to a security station.

"Our continuing collaboration with Gallagher Security Management Systems demonstrates the Pelco commitment to be a true open systems provider through our Partner First Program," said Stéphane Lantoiné, Pelco business development manager, EMEA. "We are excited about this integration,

as the Cardax FT Command Centre gives our customers a scalable option for IP recording, with the flexibility to incorporate future technological advancements."

Gallagher Security general manager, Curtis Edgcombe explained, "Gallagher Security is constantly searching for third party partners who can help offer a quality solution for our end users via our Compatible Technologies Program."

For information visit www.pelco.com or www.gallaghersms.com.