

## Application Note - Mobile Clients

Having invested in your digital video surveillance network, the ever-decreasing cost of mobile computing power make the logical next step the delivery of live streams direct to your security workforce.

This application note highlights how Quorum Stream and Windows Mobile can be used to empower your mobile personnel and make the most of these innovative, but cost-effective, technologies.

### Mobile Workforce

Office blocks, municipal parks, colleges, museums, factories, schools, car parks and shopping malls; there are countless situations where mobile security personnel are employed.

Many such places are monitored using digital video surveillance networks.

Typically, mobile security personnel communicate with the control centre via two-way mobile radios, and although they can be guided towards any hot-



spots, until they get there, they don't have the the video and audio surveillance advantages available to their colleagues in the control centre.

### Wireless

Wireless technology is fast becoming the de-facto standard for widespread, lightweight networks.

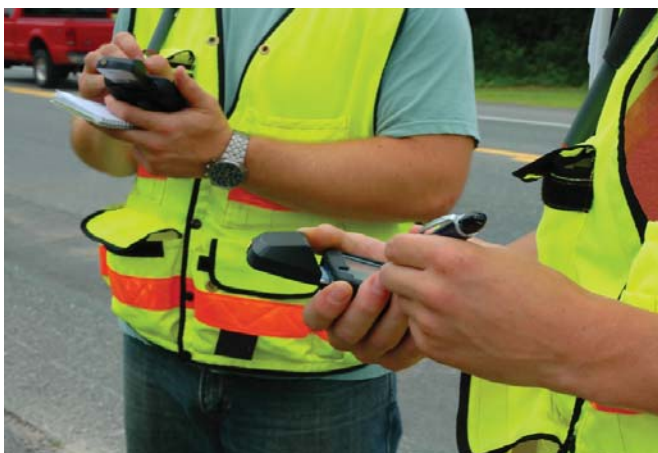
Installation and expansion is straightforward, the associated costs are low and the bandwidth is relatively high.

Deploying wireless devices can provide security services with a more unified communication channel. Voice, data and video can be integrated, giving front line staff superior live information feeds.

Choosing a bespoke mobile device development could be expensive and challenging, due to limited computing power, multiple operating systems and versions, and small screen size. Choosing a standard, off-the-shelf platform using mobile grade application software is likely to be a cost-effective, quick to deploy alternative.

### Video Hardware

IP cameras and video hardware encoders are designed for hardware decoding (direct to an analogue monitor) or PC-based decoding by custom software components. Rarely are the capabilities of mobile devices catered for.



## Wireless Streaming

Streaming video over wireless also has problems, as interference and packet loss can cause video degradation. The bit rate of the stream needs to be carefully matched to the bandwidth available on the network.

## The Solution

Quorum Stream is designed to take high bandwidth, high-resolution video streams, used for central monitoring, and re-package them for other purposes.

The stream resolution can be reduced for small screen devices, the bit rate can be moderated for wireless networks and the reliable RTSP and RTP transmission protocols keep degradation to a minimum.

## Versatility Built-In

The flexibility of Quorum Stream means that whilst providing streams to your mobile personnel it can simultaneously distribute video from offsite cameras, provide controlled access from outside your network, and much more.

