



Boundless Security Systems, Inc.

the communications bandwidth experts

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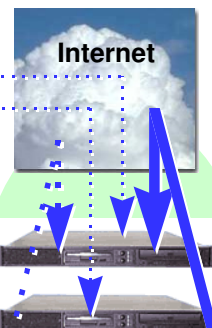
Block Diagram of Secure *Boundless Security System™* with VPN & Broadcast Tunneling

Boundless uses bandwidth-saving, video-on-demand with many different digital video streams per camera and continuous near-camera recording, instead of bandwidth-wasting, video streaming with central recording of a single digital video stream. Boundless internally records better video than can be sent live. Many different recorded digital video streams per camera, and hyper rapid access video file system, provide very rapid searching and remote access to desired recorded video. Wireless ISP's *Fair Usage Bandwidth Policies* can be respected.



Data rates as low as 8 Kbps for live video are suitable even for narrowband, public safety networks with IP-radios (RoIP).

Boundless' roaming *Multi-Stream Video Server* tunnels through routers that block remote access to other servers. It quickly reconnects when its dynamic IP address changes. It can use multiple *VPN & Tunneling Broadcast Servers* in different locations for redundancy.



Redundant servers in different locations ensure service

Boundless' *VPN & Tunneling Broadcast Server* is destination of tunnels originated by users and Boundless' *Multi-Stream Video Servers*. It's an anonymizer / proxy that conceals their IP-identities and provides encrypted communications. It's many 1,024- or 2,048-bit security keys ensure valid access, and can be revoked when equipment is lost or stolen. It broadcasts video streams to response teams with many users at once avoiding additional loads on precious wireless uplinks. It provides a specialized name server, securely handling IP-PTZ control of many *Multi-Stream Video Servers* symbolically.

Able to handle sensitive information for the Criminal Justice Information System (CJIS), each Boundless' roaming, ultra low bandwidth, IP-based, *Multi-Stream Video Server* with tunneling option has its own cyber-security key. It provides secure, encrypted communications, continuous internal digital video recording, remotely controllable live and recorded video uploads, and remote IP-based PTZ control, even on erratic, wired and wireless, wide area networks that block remote access and control from the Internet to other mobile video surveillance servers.



Four CCTV or PTZ cameras, or IP-PTZ cameras with analog output, can be used with each Boundless' mobile *Multi-Stream Video Server*. Up to eight different IP-video streams per camera simultaneously, with three different resolutions and multiple frame rates, compressions and data rates, optimize live and recorded video for viewing, situation assessment, monitoring and investigations, and for stationary and moving cameras.



VGA, QVGA, and QQQVGA at once



Mobile forces, and Temporary Mobile Command and Control Centers with Boundless' *Control Panel* live and recorded viewing and searching client software, securely communicate with Boundless' *Multi-Stream Video Servers* via Boundless' *VPN & Tunneling Broadcast Server*. Able to handle sensitive information for CJIS, communications are encrypted and terminal-specific cyber-security keys can be centrally revoked if equipment is lost or stolen. Desktops, laptops, and Net-PC's can be used. Several dozen live video streams can be viewed simultaneously even on a small, low power, Net-PC.



Command and Control Centers with Boundless' *Control Panel* live and recorded viewing and searching client software, communicate with Boundless' *Multi-Stream Video Servers* securely via Boundless' *VPN & Tunneling Broadcast Server*

Boundless' Multi-Stream Video Server has been used on five continents with CDMA and non-routable GSM cellular networks.