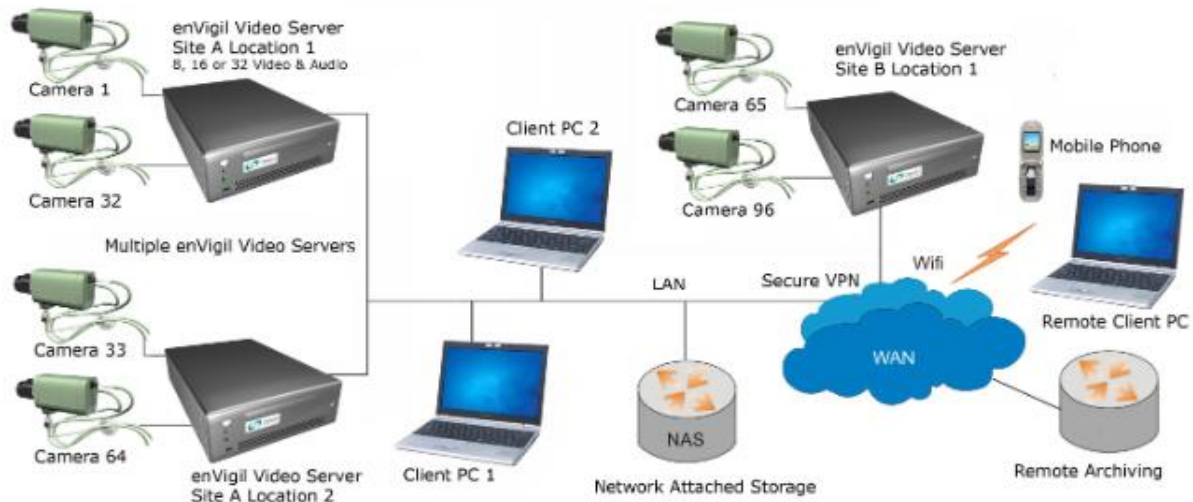


Unique features of enVigil Networked Video Surveillance Server (enVigil NVSS)

Truly Networked Multi-location Video Surveillance Solution



enVigil Solution

Linux based server, Java based client (Windows and MAC OS support), simultaneous local and remote viewing and archiving, built in VPN, automated detection of video loss or tampering, sensor integration, PDA phone support, video analytics and ability to centrally administer distributed multi-location system.

Designed to survive malicious attacks – Surveillance system will continue to operate even if control room is destroyed

Compact size video servers are easily concealed at various locations distributed throughout the facility. Full monitoring access is available at multiple locations over LAN and WAN. Control room has only monitors and computers for accessing enVigil systems. Surveillance system will continue to operate even if the control room is inoperative or destroyed.

Machine based automated diagnostics for preventing down time

To support 24 X 7 X 365 days operation enVigil server performs self diagnostics on schedule, a central server verifies proper operation of the system and monitors the health of enVigil servers and the camera systems to warn administrator of degradation of storage or hardware that could lead to failure. The central monitoring server reports un-intended shutdown of enVigil system.

Audit trail of all access and actions

All interactions with the video server are logged in to create an audit trail and to warn of unusual access or unauthorized attempted access.

End to end secure encrypted communication

Fully encoded video and data transmission using built in VPN secure communication over LAN and WAN. System supports simultaneous VPN access capability to multiple surveillance sites. Multi level password protection and user verification are build in safe guards

System Implementation utilizing existing cameras and wiring

enVigil system solution preserves investment of existing analog cameras and wiring infrastructure. The existing infrastructure is transformed into IP enabled modern system. Existing DVR can be used to provide redundant surveillance capability as the enVigil can be added as a parallel surveillance system.

Complete Remote Surveillance Solution

High quality live remote monitoring using LAN, WAN, WiFi, WiMax networks, and GSM and CDMA wireless broadband available from cell phone operators. Adaptive compression bandwidth is used to deliver smooth live video that maintains lip sink for audio when audio is used. Two way voice communications built in from remote location to surveillance site. System supports Private camera capability with fine grain access control, Remote control of PTZ cameras, Remote access and down load of recorded audio and video and alarm information for forensic analysis.

Central administration of multi-location surveillance

A user with administrative privileges can remotely administer enVigil video servers from remote locations. He can add and delete users and make changes to the set up just as he would do if he was using a monitor and a keyboard attached to the video server.

Integrated sophisticated video analytics

enVigil is a platform that can be loaded with video analytics software for creating an integrated video analytics solution. Video analytics capabilities such as loitering detection, intrusion detection, wrong way entry, face capture and object left behind are available. Early smoke and fire detection analytical capability is planned. Smart alert capability such as motion detection with masking, tampering with camera such as blind detection and video loss detection, distributed sensor integration (fire alarm sensor, temperature sensor, water sensor) are built in capabilities.

Multiple means for delivering local and remote alerts and alarms

A full set of communication means are available to send alert and alarm notices. These includes SMS message, email message, turning on of a siren or lights. Independent wireless, phone line and LAN paths can be deployed to make sure if one path is blocked an alternative path can be used to get the alert and alarm information out to the security personal. Data can be protected against disk drive failure using the same kind of RAID store servers as used by IT departments.

Multi-tier storage and continuous remote archiving for data protection

The architecture of the system supports multi-tier storage. enVigil video server records surveillance data on local storage, on securely located Network Attached Storage and simultaneously archive data at a remotely located data center.

Rugged Hardware

The enVigil server has been designed to reliably operate in India and other places where there problem of dust, heat and fluctuating power supply. The Linux operating system and the server software are stored in a Solid State Drive so that they are not affected by failure of rotating Hard Drive. The software of the system has been designed to anticipate failure of the Hard Drive and to handle failure gracefully should it occur.

Designed for easy integration with other systems

The hardware and software architecture of enVigil system provides for easy integration with fire alarm, access control and building management systems. Cradle technology owns full stack of technology upon which enVigil is built and as such it has full flexibility to make necessary modifications to enVigil to make integration easy.

Scalable system architecture

The enVigil surveillance system is scalable to cover multi-location deployment. Video surveillance system for a chain of hotels where each hotel has cluster of cameras can be deployed in a way where both the local operating authorities and centrally located security department have simultaneous access and control.

Technology Advantage

To achieve higher protection against malicious hacking attacks on the video server the enVigil system used Linux operating system. All communication is encrypted through embedded VPN. Multi-tier password protection and all the means that have been developed for banking application and corporate IT are available to protect unwanted intrusion into the surveillance system.

US and India based Engineering

Cradle's engineering team is located both in Mountain View, California and Pune, India. Being located in India and having engineering manpower in Pune, Cradle is in a very good position to support customers and make improvement to the product as need for changes arises.

