

Video Surveillance Solution

Security and Protection

Video surveillance systems are essential to assure physical security. However, traditional analog video surveillance systems cannot scale to a large number of cameras for campus-wide installs or across geographically separated locations. Aruba's User-centric network combines adaptive WLANs, identity-based security and application continuity services in one high-performance platform to enable campus-wide and geographically distributed video surveillance systems. Further, with Aruba's open-standards approach, you have the freedom and flexibility to interconnect any digital IP camera or any legacy analog camera. Using video surveillance includes:

Public Safety

College campuses public venues, mass transit facilities, residential complexes, commercial parks, etc. can cost effectively implement complete video surveillance coverage of indoor and outdoor areas.

Roving Security

Anywhere, anytime access to video feeds using secure, reliable video streaming to Wi-Fi enabled devices increases mobility and effectiveness of security personnel.

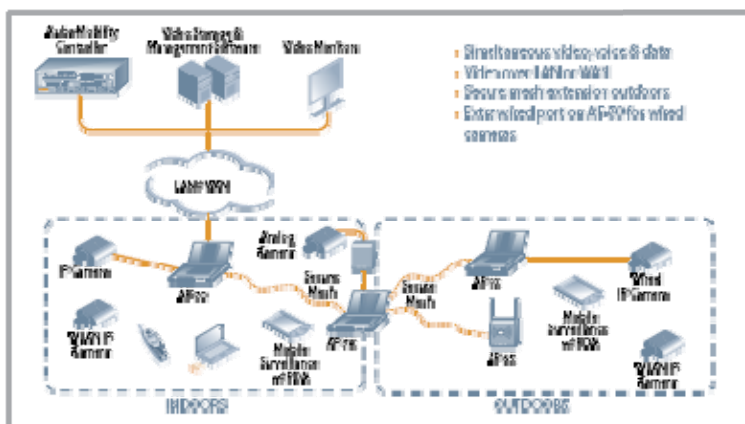
Perimeter Security

Hospitals can monitor new-born wards and high-security facilities can secure entry points with video intelligence systems that automatically detect motion or breach of no-entry/exit zones.

Improved Operations

Retailers can reduce shrink and manufacturing operations can be streamlined by linking (using APIs) item location or movement as it is captured on video with point-of-sale and ERP systems.

How Aruba Enables Video Surveillance:



Solution Overview



Benefits:

- Unmatched flexibility and cost savings for camera connectivity
- Easy camera integration and installation
- Reliable mobile surveillance and wireless video streaming
- Secure video streaming over WLAN, LAN and WAN
- Freedom to choose any vendor's camera and video system

Solution Overview

More Benefits:

- Flexibility of camera placement and reduction in cabling infrastructure costs with unmatched connectivity options. (see table)
- Easy network integration and camera provisioning with Aruba's centralized architecture. Network reconfiguration and VLAN mapping of video cameras to video management servers is no longer required.
- Reliable Video-over-WLAN transmissions of surveillance feeds from Wi-Fi cameras to mobile surveillance devices using RF and IP QoS mechanisms
- Secure video streams from cameras to the network with Aruba's client-to-core security.
- Freedom to choose any camera and video management system to fit their performance, coverage and costs requirements with an open-standard video surveillance architecture.

Camera Connectivity

Aruba Access Points (APs) provide wireless LAN access to Wi-Fi cameras. Aruba AP-70 models also provide wired connectivity to wired IP cameras and analog cameras with video servers. Aruba APs in mesh mode (MPs) extend wireless and wired LAN connectivity to cameras in hard-to-wire areas, using Aruba's award-winning secure enterprise mesh technology for backhaul. Different AP models are available to meet various environmental (indoor, outdoor and industrial), physical and RF requirements.

Camera Provisioning

All traffic from Aruba APs connected to cameras is automatically tunneled to centralized Aruba Mobility Controllers in the data center. This makes it easy for video and camera management systems to detect and provision cameras. The Aruba Controllers are also the single point of management for WLAN, LAN, wireless mesh and remote access networks

Mobile Surveillance

Aruba APs and Mobility Controllers can simultaneously support wireless data, voice and video devices for mobile security personnel. Video feeds from cameras can be reliably transmitted over the WLAN with application-aware QoS.

Secure Video Streaming

Aruba APs set up a secure VPN tunnel back to the Aruba Controller in the data center, such that camera feeds cannot be tampered with or stolen.

IP Video Management System

Aruba supports any IP Video Management system that aggregates video streams from cameras over the IP network, provides output to monitors or mobile surveillance devices and archives camera feeds for offline viewing and analysis. Some video management systems replace DVRs or NVRs, while some work with external DVRs and NVRs.

	LAN	WAN	Mesh	
Digital IP Wired Camera		✓	✓	✓
Digital IP WiFi Camera	o✓		o✓	o✓
Analog Camera w/ Server	o✓	✓	o✓	o✓
	o✓		o✓	o✓

o✓Outdoor i✓Indoor

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