

# **IP Surveillance Technology Leader**

**2009 Solution Guide**

- ▶ **H.264/MPEG-4/MJPEG**
- ▶ **Megapixel**
- ▶ **64-CH NVR**
- ▶ **CMS**

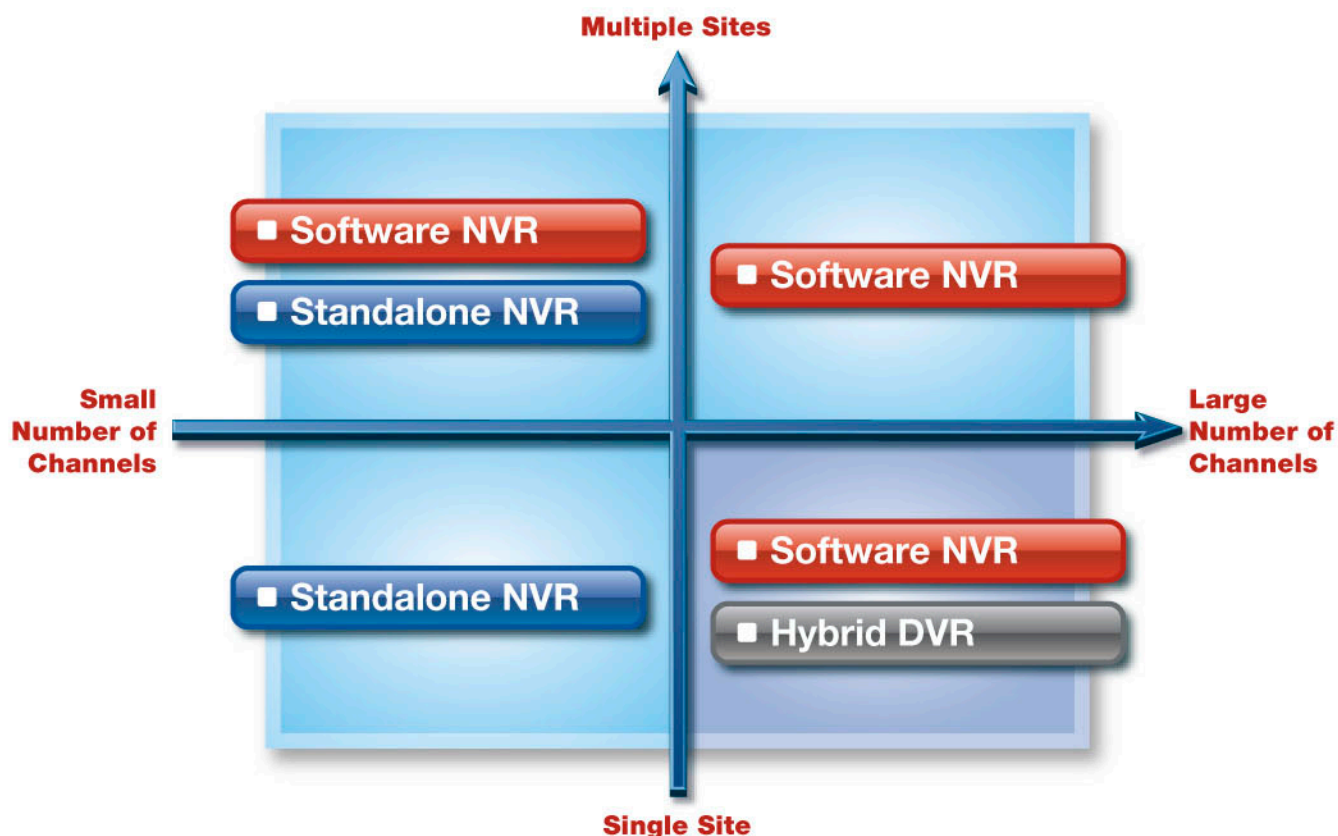
# Solution Position

## Choose the Right Solution Architecture

In general, IP video surveillance projects can be categorized into the following situations.

- Large number of channels on multiple sites
- Small number of channels on multiple sites
- Small number of channels on a single site
- Large number of channels on a single site

Corresponding solution architectures are thus recommended as follow.



## Choose the Right Management Platform

In an IP video surveillance project, video management software is just as important as the cameras. ACTi's Unified Platform and ISV (Independent Software Vendor) Open Platform are the two choices, whether your project is at one site or deployed over multiple sites.

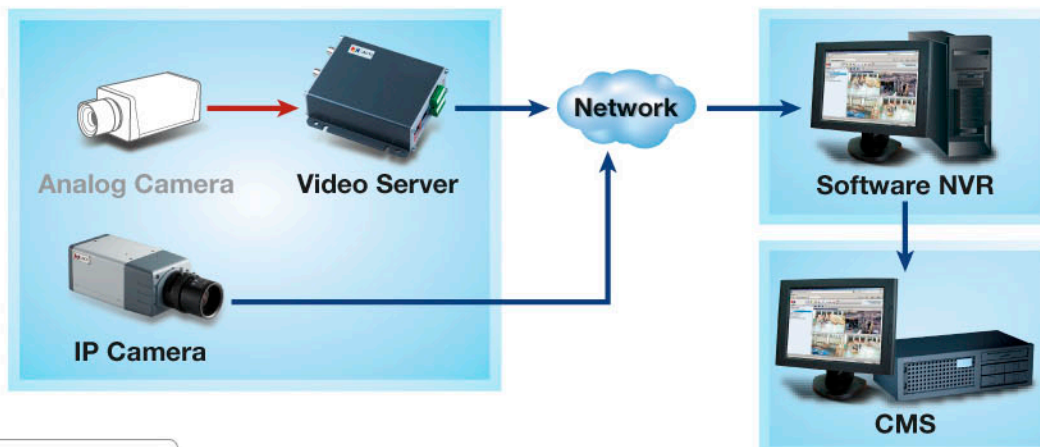
	Multi-site Application	Single Site Application
ACTi Unified Platform	<ul style="list-style-type: none"> <li>• ACTi Software NVR (Enterprise)</li> <li>• ACTi Standalone NVR</li> <li>• ACTi CMS</li> </ul>	<ul style="list-style-type: none"> <li>• ACTi Software NVR (Professional)</li> <li>• ACTi Standalone NVR</li> </ul>
ISV Open Platform	<ul style="list-style-type: none"> <li>• ACTi Software Partners' Solutions</li> </ul>	<ul style="list-style-type: none"> <li>• ACTi Software Partners' Solutions</li> </ul>

### Single-vendor vs. Multi-vendor

- ACTi provides a Unified Solution to allow users to manage ACTi hardware devices with ACTi NVR and CMS solutions. This is the easiest way to enjoy excellent video quality with a proven video management solution, all from a single vendor.
- ACTi's hardware devices are also compatible with many popular Independent Software Vendors. Having this alternative "open platform" option, users remain free to choose from a list of professional video management software manufacturers.

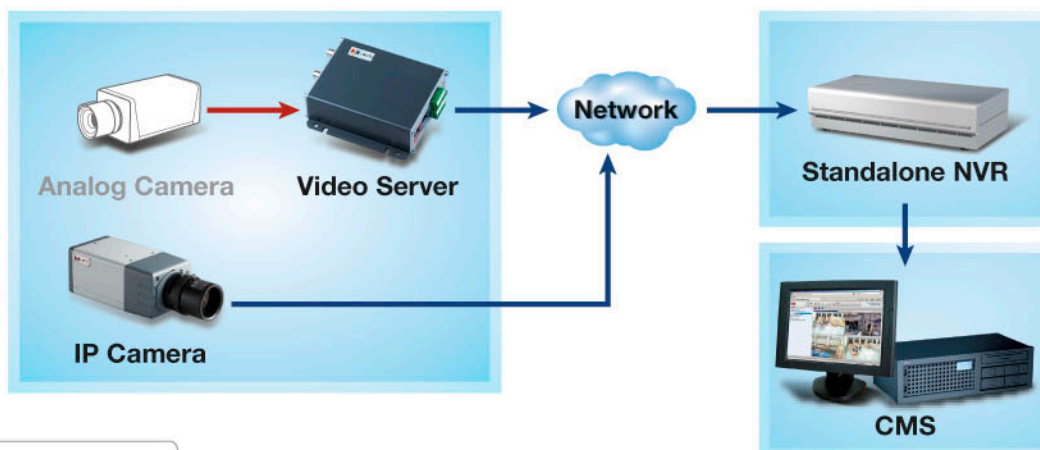
# Solution Architecture

## Software NVR



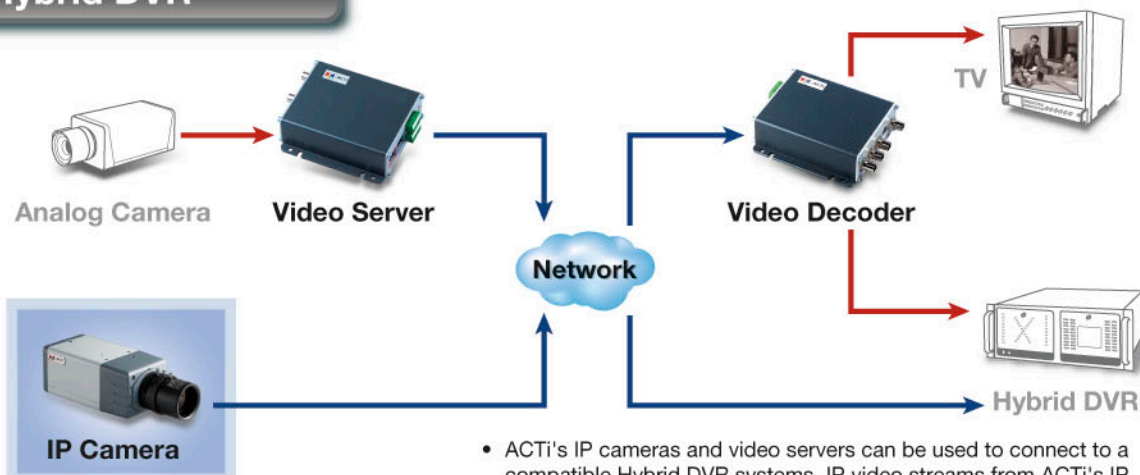
- The NVR Software is installed onto a PC server. This software manages all of the IP video devices on the network; whether they are IP cameras or analog cameras using video servers to convert the analog signals into an IP stream.
- Multiple NVR servers can be managed by CMS server.

## Standalone NVR



- A Standalone NVR is a dedicated machine that manages all of the IP video devices on the network; whether they are IP cameras or analog cameras using video servers to convert the analog signals into an IP video stream.
- Multiple NVR servers can be managed by CMS server.

## Hybrid DVR

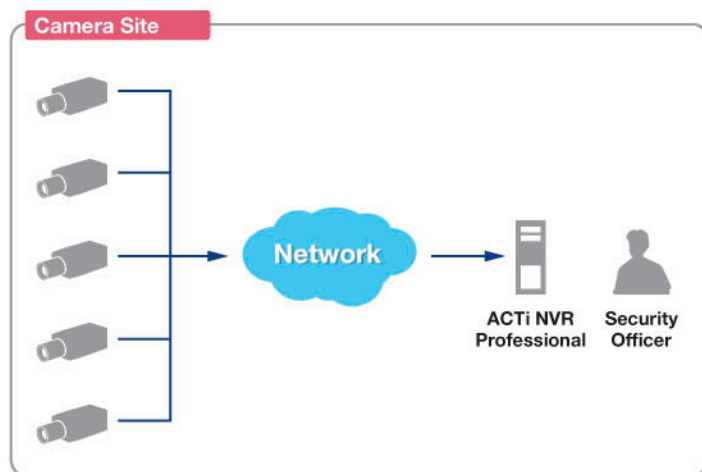


- ACTi's IP cameras and video servers can be used to connect to a compatible Hybrid DVR systems. IP video streams from ACTi's IP cameras and video servers can be converted into analog video with the use of ACTi video decoders.
- Video decoded by video decoders can be viewed on conventional TV monitors and managed via Hybrid DVR.

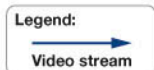
# ACTi Unified Solution

## Single Site

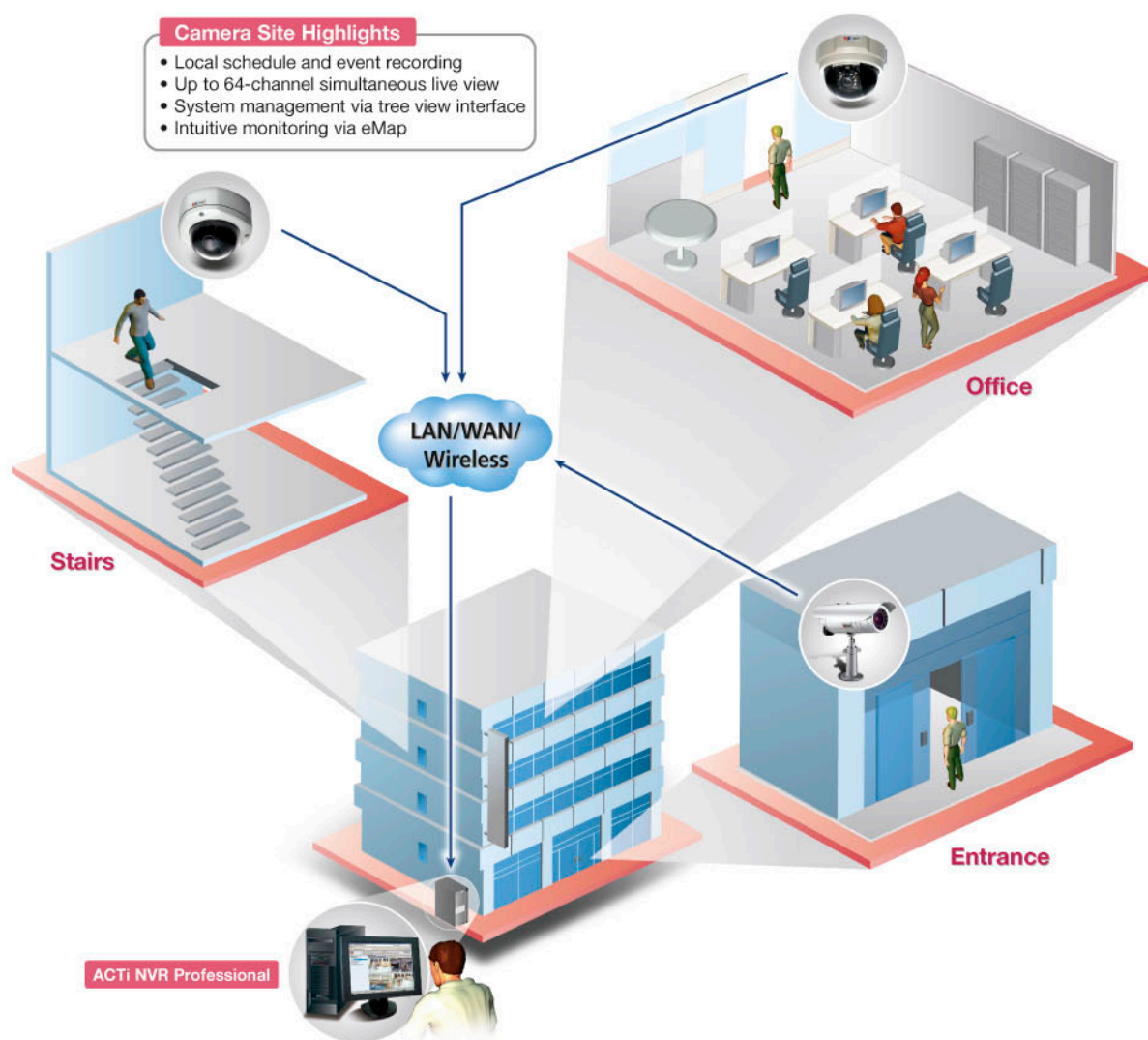
### Solution Template



Site	Primary Application
Camera Site	<b>ACTi NVR Professional</b> <ul style="list-style-type: none"><li>• Live View</li><li>• Recording</li><li>• Playback</li><li>• PTZ control</li><li>• eMap</li></ul>

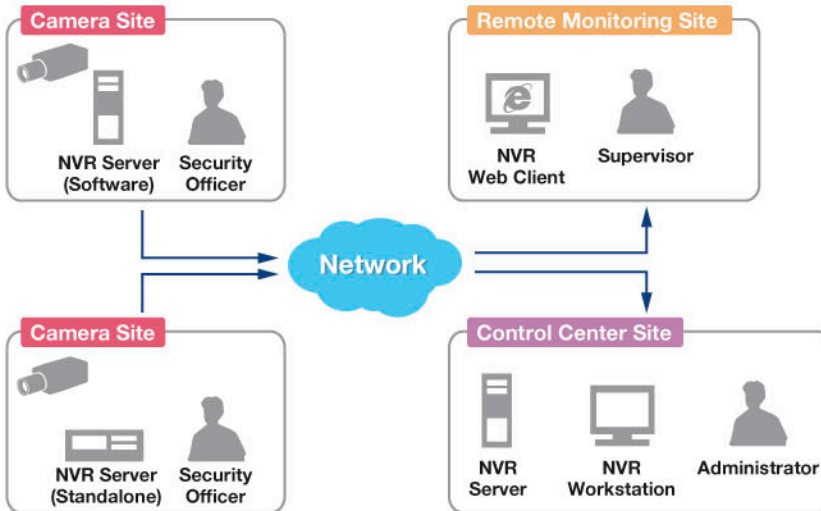


### Deployment Example - Building Surveillance



## Multiple Sites

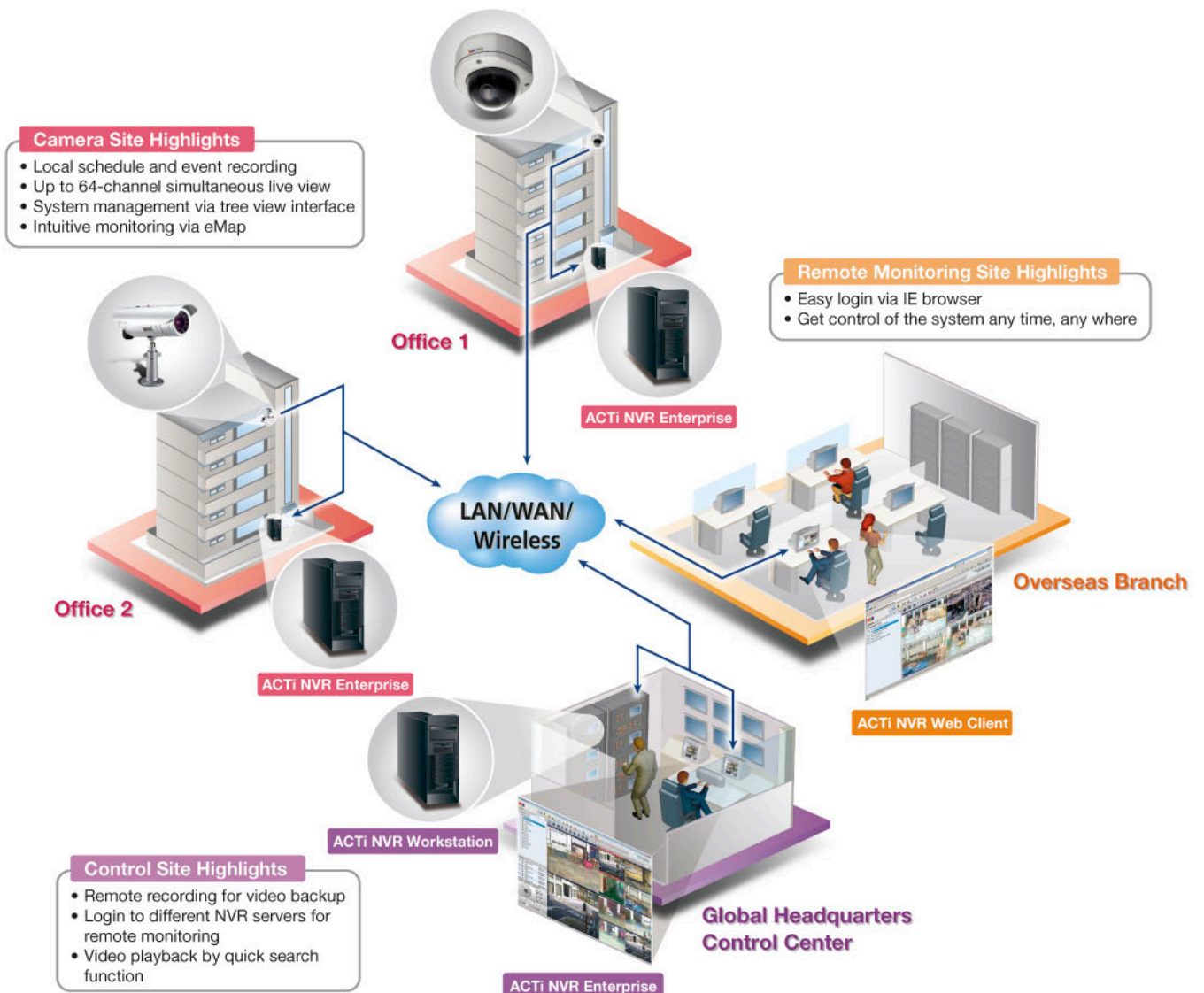
### Solution Template



Legend:  
 Video stream

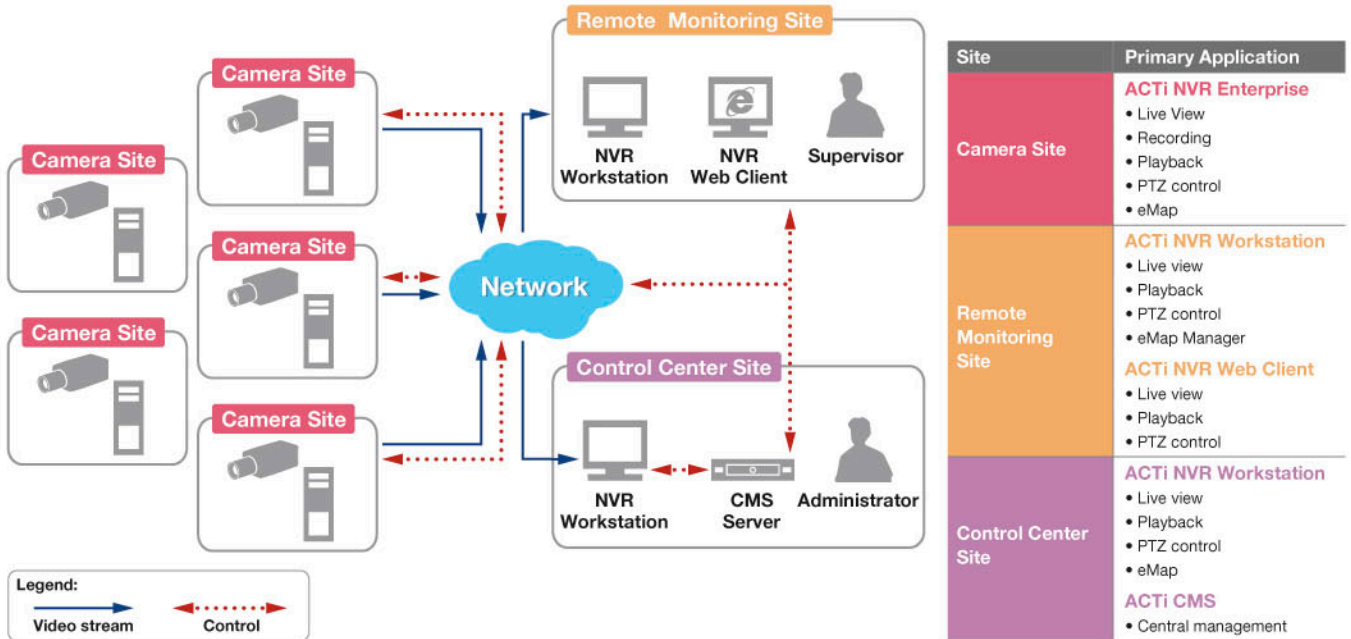
Site	Primary Application
Camera Site	<b>ACTi NVR Enterprise</b> <ul style="list-style-type: none"> <li>• Live View</li> <li>• Recording</li> <li>• Playback</li> <li>• PTZ control</li> <li>• eMap</li> </ul>
Remote Monitoring Site	<b>ACTi NVR Web Client</b> <ul style="list-style-type: none"> <li>• Live View</li> <li>• Playback</li> <li>• PTZ control</li> </ul>
Control Center Site	<b>ACTi NVR Workstation</b> <ul style="list-style-type: none"> <li>• Live View</li> <li>• Playback</li> <li>• PTZ control</li> <li>• eMap</li> </ul> <b>ACTi NVR Enterprise</b> <ul style="list-style-type: none"> <li>• Recording</li> </ul>

### Deployment Example - International Enterprise Surveillance

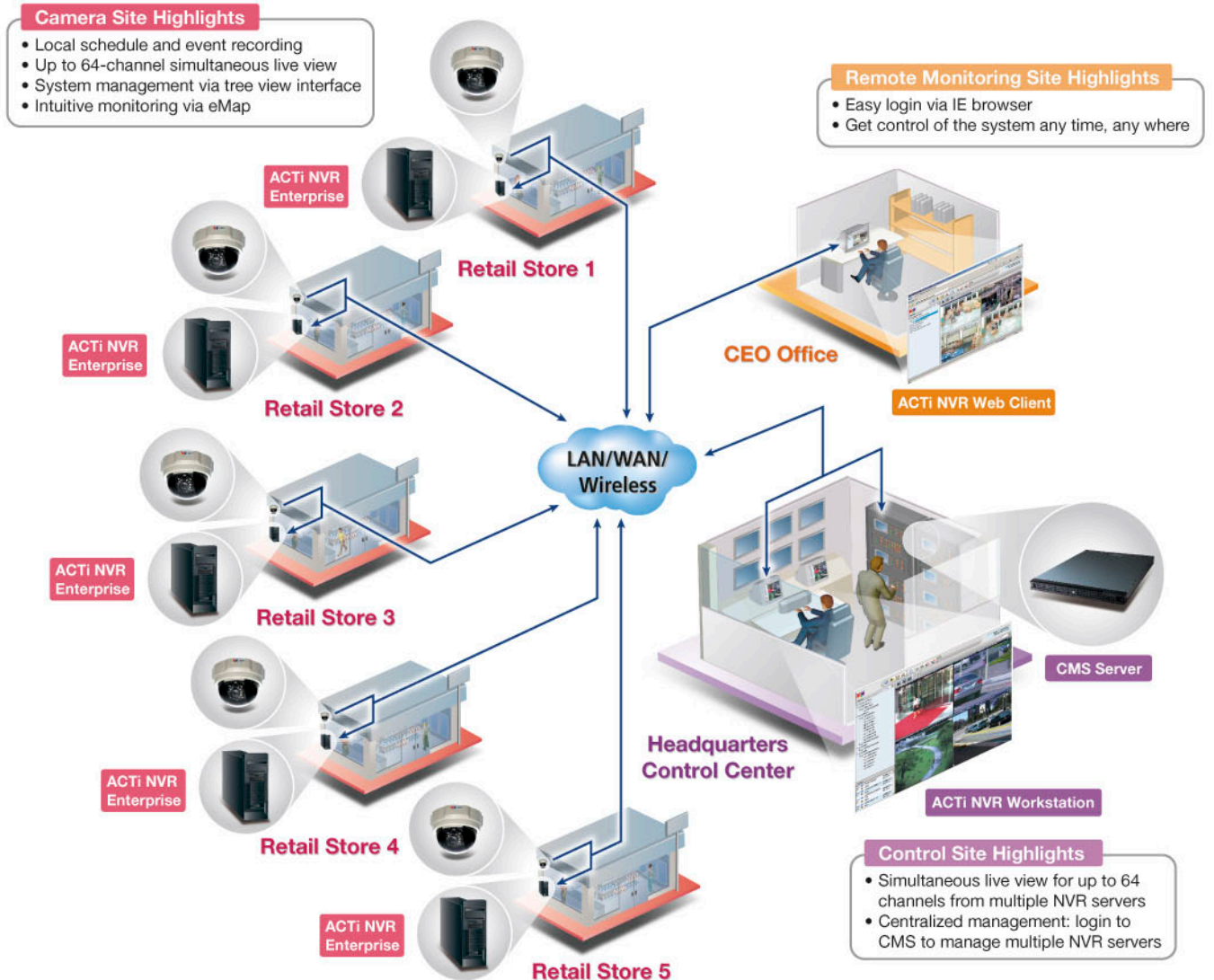


# Multi Sites with CMS

## Solution Template



















## Deployment Example - Retail Stores Surveillance



# Software Solution

## ACTi Application Software

			Primary Deployment			
			Camera Site	Control Center Site	Remote Site	Mobile Site
<b>Server Application</b>						
	<b>Software NVR</b>	64-channel, Live View, PTZ, Recorder, Playback, E-Map	✓	✓		
	<b>Standalone NVR</b>	4/8/16-channel, Live View, PTZ, Recorder, Playback	✓			
	<b>CMS</b>	Manage ACTi Software/Hardware NVR		✓		
	<b>IVS</b>	Video Intelligence Server		✓		
<b>Client Application</b>						
	<b>NVR Workstation</b>	64-channel, Live View, PTZ, Playback, eMap, Setup		✓		
	<b>NVR Web Client</b>	64-channel, Live View, PTZ, Playback, eMap			✓	
<b>Management Utility</b>						
	<b>IP Utility</b>	Search, manage devices, upgrade firmware, backup/restore configuration	✓			
	<b>Snapshot Utility</b>	Create snapshots in JPEG with re-sized resolution and send via Mail or FTP	✓	✓		
	<b>Archive Player</b>	Archive playing tool with playback panel and snapshot functions	✓	✓		
	<b>Media Converter</b>	Convert recorded archives to AVI files	✓			
	<b>Streaming Explorer</b>	Web tool to manage devices remotely, comes with PTZ configuration tool	✓	✓	✓	
	<b>Mobile Explorer</b>	Live view and PTZ functions on Microsoft Windows Mobile platform				✓
<b>Trouble-Shooting Utility</b>						
	<b>Camera Doctor</b>	IP Camera diagnostic and firmware debug tool	✓			
	<b>AP Doctor</b>	NVR diagnostic and application debug tool	✓	✓		
<b>SDK</b>						
	<b>SDK-10000</b>	C, ActiveX Control, URL Command, RTP/RTSP, Windows Mobile Edition	✓			
	<b>SDK-2200</b>	SDK and XML interfaces to ACTi NVR		✓		

## Software Partners





# Hardware Solution

## IP Camera Offering

ACTi Camera Position	High-end Megapixel	Mainstream Megapixel	D1	VGA
	H.264/MPEG-4/MJPEG	MPEG-4/MJPEG	MPEG-4/MJPEG	MPEG-4/MJPEG
Bullet / Cube	 TCM-4301	 ACM-1231 ACM-4201 ACM-1511	 ACM-1431 ACM-1311	 ACM-1011 ACM-4001
BOX	 TCM-5211 TCM-5212 TCM-5311 TCM-5312	 ACM-5601 ACM-5611	 ACM-5711 ACM-5801 ACM-5811 CAM-5221 CAM-5321	 ACM-5001
Fixed Dome	 TCM-3811 TCM-7811 TCM-7812	 ACM-7411 ACM-3401 ACM-3411 ACM-3511 ACM-3601	 ACM-3211 ACM-3311 CAM-7321	 ACM-3001
PTZ	 TCM-8611	 ACM-8211	 ACM-8511	 ACM-8001
Speed Dome	--	--	 CAM-6510 CAM-6610 CAM-6620 CAM-6630	--

## Video Server / Video Decoder Offering

ACTi Video Server / Video Decoder Position			
Video Server	1ch		ACD-2100 SED-2120 SED-2140 TCD-2500 (H.264)
	1ch w/ Quad		ACD-2000Q
	4ch		ACD-2200
	8ch		ACD-2300 SED-2610
	16ch		ACD-2400
Video Decoder	1ch		ACD-3100



**ACTi**  
Connecting Vision

**ACTi Corporation**  
Tel: 886-2-2656-2588  
Fax: 886-2-2656-2599  
E-mail: sales@acti.com

**ACTi U.S. Office**  
Toll Free : 1-866-410-ACTI (2284)  
**ACTi China Office**  
Tel : 86-21-3424-0777

[www.acti.com](http://www.acti.com)

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