



SmartVMS™ VMS1500

CENTRAL VIDEO MANAGEMENT SOFTWARE

- Central monitoring and alarm management of multiple remote sites
- Live video viewing and playback
- Video data archive management
- Report generation
- Manage and configure all local and remote SWI SmartDVS™ Digital Video Servers

KEY BENEFITS

- Use as part of an overall physical security solution
- Architected for widely dispersed infrastructure
- Comply with regulatory requirements
- Protect critical infrastructure from a central location

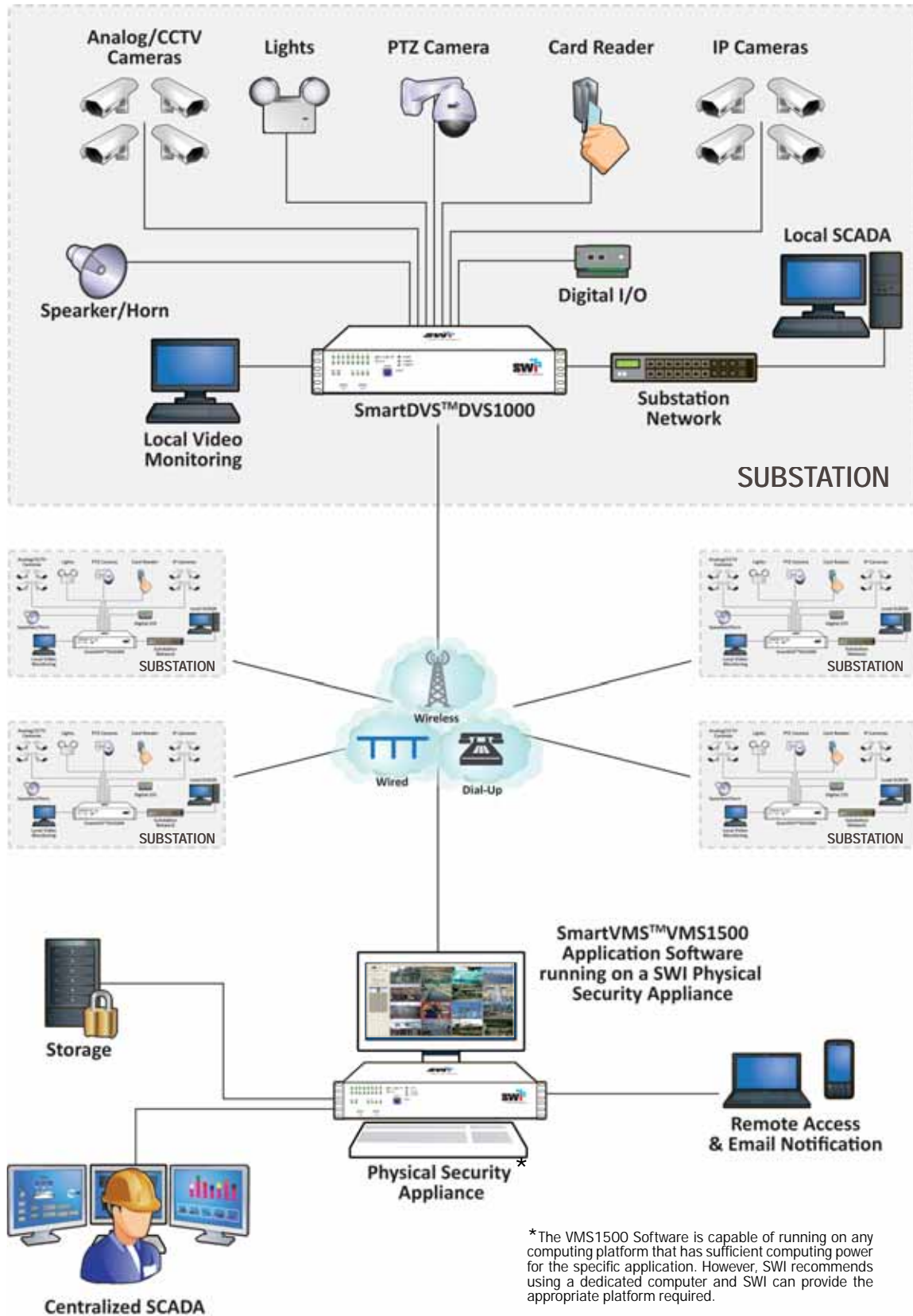
SWI's Video Management System (VMS1500) is the central “hub” of a complete intelligent video surveillance system. The VMS1500 allows central management of SWI's SmartDVS™ Digital Video Servers (DVS) and provides live viewing, remote camera control, video data archive management, report generation, and remote access services (such as web and mobile device access). The VMS1500 can connect to multiple DVSs at a single location or across multiple remote sites and is capable of managing and monitoring hundreds of video cameras.

The VMS1500 manages all web based and mobile video remote video access to all digital video servers. This allows for the distribution and viewing of system events and alarms to any computer connected to the network. Additionally, alerts can be sent to handheld devices such as Blackberrys or Windows Mobile Smart Phones to ensure personnel are notified of incidents in a timely manner.

The report generator feature on the VMS1500 is ideal for regulatory compliance. General purpose, user configurable reports for alarms and events can be produced, with preconfigured reports for NERC CIP compliance also available. All reports can be exported to PDF, Word or Excel formats.

The VMS1500 is available as a dedicated video management system appliance or can be integrated into an existing monitoring or SCADA system.

TYPICAL NETWORK DIAGRAM



*The VMS1500 Software is capable of running on any computing platform that has sufficient computing power for the specific application. However, SWI recommends using a dedicated computer and SWI can provide the appropriate platform required.

SOFTWARE OVERVIEW

The VMS1500 is an advanced network based video management software application that is designed to connect to multiple DVS1000 devices located locally or across multiple sites. The VMS1500 is capable of managing and monitoring over 100 video cameras. It is the main user interface for the video surveillance system and boasts many features that include:

- View live video (1 to 16 images per screen)
- Multiple monitoring stations
- Configuration of video camera security profiles
- Management of video analytics applications (See IVS products)
- Real-time alarm and event notifications
- Video data management, archiving and summarizing
- Remote PTZ camera controls (software/keyboard/joystick)

Additional optional features include:

- **Web Video Service** - Enables the distribution and viewing of video, system events and alarms to computers connected to the internet and mobile networks. Capabilities include:
 - Secure log-in from remote/internet based computers
 - View video, alarms and alerts via web browser
 - Receive alarms and alerts via email
- **Mobile Video Service** – View live video, alarms and events on a PDA (Running Windows Mobile) over a wireless network. Capabilities include:
 - Camera selection for live video access
 - User registration
 - Receive / acknowledge alarms



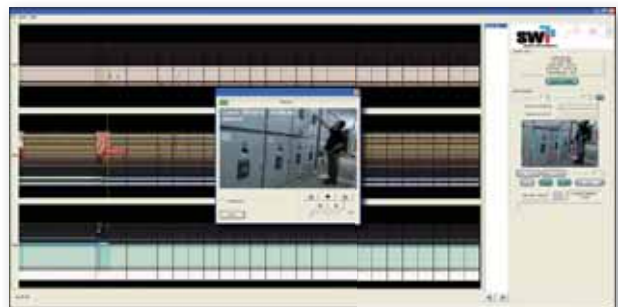
Main Live Video Viewing Screen.



Live Simultaneous Viewing of up to 16 Cameras



Easy to Use Setup and Configuration User Interface



Tools to View Archived Video (with Alarm Indexing)

SOFTWARE FEATURES

FUNCTIONS	
Manage Digital Video Server (DVSs)	<ul style="list-style-type: none"> Manage and configure Digital Video Servers located locally or at remote sites
Monitoring	<ul style="list-style-type: none"> Live video viewing: Simultaneously view multiple video feeds (Full screen, Split screen (4, 9, 16), Multiple viewing pages, User customizable) Event and Status display (Event Lists): event list, alarms, system status Event Log display: Real time displaying of event list and automatic refresh of video event list System Overview: Visual representation of security objects and equipment located throughout the network
Video Analytics Rule Management	<ul style="list-style-type: none"> GUI based wizard used to set up video analytics rules which perform real-time event detection on live surveillance video Rules tell the system which security events to look for in the video Rules specified for each camera
Alarm/Alert Notification and Management	<ul style="list-style-type: none"> Receive and acknowledge alarms and events Event list: History of all security and system alerts Event Action Plan: Able to define multiple actions in response to an event Email and Phone Notification: Send a notification response via email or SMS message to a contact or a distribution list PTZ Activation: Supports setup of Alarm related with PTZ preset location.
Camera Control	<ul style="list-style-type: none"> View camera configuration, rules and responses for each camera PTZ camera: Pan & tilt, zoom control
Data Storage	<ul style="list-style-type: none"> Manage data storage and archiving from all Digital Video Servers Export and store all data, including video and alerts, to a local storage device, server attached storage or network attached storage Ability to schedule archiving of the system database, files, alert and system events and video files locally and/or to a network attached storage device Backup: Automatic (schedulable) or Manual
Search and Playback	<ul style="list-style-type: none"> Search a video archive and playback stored and live video Ability to search for various events, including alerts and system events Playback Speed: Single frame, 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, Fast forward and rewind Playback Mode: Show up to 16 camera's playback image simultaneously Searching: Searching of images by date, time, camera, and event Smart Search: Search archives for incidents. Smart search list Bookmark: Add time links into bookmark for searching Image Transfer: Able to save images as BMP, JPG and AVI format.
Reports Generator	<ul style="list-style-type: none"> Generate reports that can be exported to PDF, Word or Excel. Types of reports: Alert Report, System Event Report, User Event Report, Data Management Events Report Preconfigured reports for regulatory compliance (eg. NERC CIP)
Remote Access	<ul style="list-style-type: none"> Web Browser Access configuration Mobile Access Device configuration Mobile Access Device Functions: View event, View snapshot image, View video clip of event



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