

LENSEC, LLC.

PERSPECTIVE VMS

Release Notes (Version 1.2.1)

LENSEC, LLC.

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Release notes for the Perspective VMS Enterprise and Standard Editions

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RELEASE NOTES (VERSION 1.2.1)

Release Notes – Perspective VMS™

Thank you for choosing to install **Perspective Video Management Software (VMS) Version 1.2.1**.

LENSEC LLC, a leader in video surveillance management software, has designed Perspective VMS as an intuitive, feature-rich, scalable, and yet fully flexible platform for monitoring and interrogating video surveillance cameras and devices. Our latest release (Version 1.2.1) was first made available for installation on 08/17/2012.

This document is designed to provide an informational overview of features and issues that may be relevant to your installation of Perspective VMS.

1. Introduction

Perspective VMS Version 1.2.1 provides several new and enhanced features building upon the long running success of LENSEC's K12M and LENSEC VMS software platforms.

1.1. Scope

The release notes pertain to installations of Perspective VMS Enterprise and Standard Editions Version 1.2.1. Separately available is documentation for general use and installation of Perspective VMS.

2. System Requirements

2.1. Client-Side Operating Systems and Browsers Supported

Perspective VMS operates within the Microsoft® Silverlight™ platform and can be run as a client version through standard web-browsers including Microsoft Internet Explorer, Firefox by Mozilla, and Google Chrome.

Client Recommendations

Hardware	Software
Processor: 2.4 GHz (x64 Processor) or 1.3GHz (Dual Core).	Windows 2000 or above (Recommended Windows 7)
Memory: Minimum 4 GB RAM.	Mac OSX or higher (Recommended OSX Lion)
Available Disk Space: Minimum 10 GB.	Internet Explorer 7.0 and above (Recommend IE 9.0)
Display: SXGA (1280 x 1024) or higher resolution	Google Chrome 10.0 and above (Recommended 13.0)
	Mozilla Firefox 4.0 and above (Recommended 6.0).

2.2. Server System Requirements

Web Server*

Hardware	Software
Processor: 2.4 GHz (x64 Processor) or 1.3GHz (Dual Core).	Windows 2003 Server or above (Recommended Windows 2008 R2 Server).
Memory: Minimum 4 GB RAM.	Internet Information Services 6 or greater.
Available Disk Space: Minimum 320 GB	MIME Types: .xap and .xaml files.
OS Partition (if applicable): Minimum 20 GB	Microsoft .NET Framework 4.0.
	Microsoft SQL Database Server 2005/2008 (Express/Standard/Enterprise).

Archive/Streaming Server*

Hardware	Software
Processor: 2.4 GHz (x64 Processor) or 1.3GHz (Dual Core). Memory: Minimum 8 GB RAM. Available Disk Space: Minimum: 320 GB OS Partition (if applicable): Minimum 20 GB	Windows 2003 Server or above (Recommended Windows 2008 R2 Server). Internet Information Services 6 or greater. MIME Types: .xap and .xaml files. Microsoft .NET Framework 4.0. Microsoft SQL Database Server 2005/2008 (Express/Standard/Enterprise).

Database Server*

Hardware	Software
Processor: 1.0 GHz. Memory: Minimum 4 GB RAM. Available Disk Space: Minimum: 320 GB.	Windows 2003 Server or above (Recommended Windows 2008 R2 Server). Microsoft SQL Database Server 2005/2008 (Express/Standard/Enterprise)

* All services may be installed on a single stand-alone server

2.3. Server-based Software Prerequisites

2.3.1. Internet Information Services (IIS)

Internet Information Services with the following roles are required to host the application:

- Application Development
 - ASP.NET
 - .NET Extensibility (prerequisite for ASP.NET)
 - ISAPI Extensions (prerequisite for ASP.NET)
 - ISAPI Filters (prerequisite for ASP.NET)
 - CGI
- Security
 - Windows Authentication
- IIS 6 Management Compatibility

2.3.2. .NET Framework 4.0

PVMS is built on top of Microsoft's Silverlight Application Framework which requires .NET Framework 4.0 to operate.

3. Features

3.1.1 New Features

Perspective VMS 1.2.1 is a Maintenance Release update to Perspective VMS 1.2.0 and has the following feature additions and enhancements.

Product Feature Name	Editions	Sales Description
MJPEG Support (Bosch)	Standard; Enterprise	Motion-JPEG Integration for all Bosch BVIP Cameras
Update to Global Search	Standard; Enterprise	Enhancement allowing for quick Camera Call-ups from Global Search
Enhanced System Help	Standard; Enterprise	Added embedded administration help section

3.2.1 Previous Version Product Features

Perspective VMS 1.2.0 (Production Release).

Product Feature Name	Editions	Sales Description
Live Audio Streaming	Standard; Enterprise	Ability to stream live audio back to PVMS
H.264 Support (Axis)	Enterprise	H.264 Integration for all general Axis camera models (Series: M, P, Q, 200)
Agent Vi Edge Analytic Integration	Enterprise	Integration with Agent Vi Video Analytics
DNA Fusion Integration - PACS Video Call-up	Enterprise	Integration Feature that calls up video within Open Options DNA Fusion (Access Control)

Perspective VMS 1.1.3 (EBF)

Product Feature Name	Editions	Sales Description
Custom Archive Path (Enhancement)	Standard; Enterprise	Increased ability to bulk edit items with wildcard support
Video Analytics	Enterprise	Ability to incorporate 3rd-party behavior-based video analytics within the Perspective VMS Events container

Perspective VMS 1.1.2 (EBF)

Product Feature Name	Editions	Sales Description
Map Locator	Standard; Enterprise	The quick locate function allows the user to find the location of any camera on one (or multiple maps) from within the Camera Viewer. Any map the selected camera is associated with will be displayed in a quick preview window

Perspective VMS 1.1.1 (EBF)

Product Feature Name	Editions	Sales Description
Camera Model Administration - Advanced PTZ Controls	Standard; Enterprise	Ability to define advanced custom PTZ controls within the administration of camera models
Camera Security Authentication (Enhancement)	Standard; Enterprise	Support "show password" checkbox in camera administrative dialog, controlled via group permissions.
Fit Window Viewing	Standard; Enterprise	Ability for the user to "Fill" or "Fit" the viewing area by not constraining video feeds to maintain defined aspect ratios.
Dynamic Camera Icons	Standard; Enterprise	Icons change state based on status (alarm/alert, service/no service)
VMware Workstation Integration	Enterprise	Ability for the application to be installed and maintained on a VMware instance

Perspective VMS 1.1.0 (Production Release)

Product Feature Name	Editions	Sales Description
SIRIT RFID Integration	Enterprise	Transaction-based event integration with RFID readers and tags from SIRIT.
Behavior Events	Enterprise	Behavior-based event transactions and alerts. Most often used for Video Analytic alarms.

Perspective VMS 1.0.1 (Production Release)

Product Feature Name	Editions	Sales Description
Installation Wizard	Standard; Enterprise	A step-by-step guided process for installing Perspective VMS (Server) at your site.
Silverlight 5 Integration	Standard; Enterprise	Integration into Microsoft Silverlight Version 5
Print-ready views	Standard; Enterprise	Ability to print configuration views
Simplicity Integration (Intransa)	Enterprise	Integration with Intransa's Simplicity Line
Flexibility Integration (Intransa)	Enterprise	Integration with Intransa's Flexibility Line
Custom Icons	Standard; Enterprise	Offers users the ability to upload custom icons for use in the map layout design.
Area of Interest - Motion Detection	Standard; Enterprise	Provides the user the ability to define the area of interest for motion detection.
Audible Alert Notification	Standard; Enterprise	User-defined audible alert action upon event notification.
Neighboring Cameras	Standard; Enterprise	*(Originally released in Version 1.0.0, but enhanced in Version 1.2.0 with the modification to move the icon to the camera container)

Perspective VMS 1.0.0 (Production Release)

Product Feature Name	Editions	Sales Description
Camera Dock (Component)	Standard; Enterprise	Allows the user to drag and drop cameras from one or more maps into one common area (the Camera Dock) for viewing.
Global Search	Standard; Enterprise	Provides the ability to rapidly search any content with Perspective VMS. From user entered tags or extractions, to multi-view presets, cameras, and Maps.
User-defined Schedules	Standard; Enterprise	A schedule interface tool allowing for customizing times to record, archive, search for motion or other items.
Video Extract Player	Standard; Enterprise	Ability to play extracted video within Perspective VMS and download for external playback
Fast-Find (Component)	Standard; Enterprise	Ability to quickly search a camera field of view for motion events in a user-defined area by drawing a box and setting a sensitivity threshold.
Custom Multi-view Sequence Editor	Standard; Enterprise	Provides the ability to create user-defined multi-view sequences. The sequences can rotate on a schedule for automated display of unlimited camera arrangements.
Informational Camera Header	Standard; Enterprise	A header overlay with relevant information and real-time status about the camera.
Dynamic Camera View Selector	Standard; Enterprise	Allows user to select and switch camera view arrangements through the utilization of a dialogue window consisting of thumbnail icons, devices, lists, or map views.
Image Snapshot	Standard; Enterprise	Provides the ability to take and download a snapshot image from any one or multiple camera view(s).
System-based Alerts	Standard; Enterprise	Diagnostic alerts on system actions of a camera or service
Motion detection based events	Standard; Enterprise	Motion recording
Authorized User Logon	Standard; Enterprise	User generated password protected login for secure and audit-able access to the platform.
Display Active User Sessions	Standard; Enterprise	Provides status of all users actively logged into Perspective VMS
Tagging	Standard; Enterprise	Ability to mark/flag video, cameras, or events for fast search and quantifiable look-up

Private and Public Extracts	Standard; Enterprise	Provides the ability to annotate whether an extract can be viewed by other system users or to be maintained as a private event by the owner and administrator.
Custom Maps	Standard; Enterprise	Provides the ability to upload custom generated map files of facilities, grounds, or regions.
Multi-View Monitoring	Standard; Enterprise	Ability for custom defined multiple live streaming camera view arrangements. with several pre-defined templates for easy and fast viewing configurations.
Browser interoperability and General GUI	Standard; Enterprise	Provides the ability to run as a Rich Internet Application, smart-client, in Internet explorer, Mozilla Firefox, Google Chrome and Apple Safari browsers.
Multi-Floor Navigation	Standard; Enterprise	Provides the ability to navigate to floors in a building or site location.
Software License	Standard; Enterprise	A software license key allows each site to be configured properly towards the scope of work. The license will determine the instance edition (Standard or Enterprise) as well as enable purchased add-on modules. Currently, Enterprise Ed. maintains an unli...
PTZ Control Sphere (Component)	Standard; Enterprise	Provides a unique interactive interface tool allowing the user to navigate the field of view of the PTZ camera using a sphere graph.
Archive Timeline Control (Component)	Standard; Enterprise	Dynamic timeline control for fast searching and visual historical search navigation
Map Integration	Standard; Enterprise	Ability to add custom or pre-defined map images into Perspective and add dynamic camera icons providing accurate situational awareness for a facility or site.
Multi-view Presets	Standard; Enterprise	Ability to save a selected camera configuration and view as a preset for quick retrieval.
PTZ Sequence Editor (Tour)	Standard; Enterprise	Ability to configure PTZ presets into a tour configuration
PTZ Presets	Standard; Enterprise	Ability to control PTZ cameras and set preset stopping coordinates.
Virtual Pan/Zoom	Standard; Enterprise	Ability to digitally pan and zoom on any image from any camera view, providing more analysis of an area of interest.
Streaming Archive Player	Standard; Enterprise	Ability to playback archived video.
Motion-JPEG Recording	Standard; Enterprise	Ability to record and archive video in Motion-JPEG format
H.264 Recording	Standard; Enterprise	Ability to record and archive in H.264 format.
Share View	Standard; Enterprise	A collaboration tool providing the ability to dynamically share any view the user is currently seeing with any other user.
Send Message	Standard; Enterprise	Allows users to send messages within the application
Active Directory (Read)	Standard; Enterprise	Active Directory Integration
Maps Module (Module)	Standard; Enterprise	An interface providing an at-a-glance geographic overview of the site or entire enterprise with the ability to interact with cameras and devices for relative field-of-view. Ideal for real-time situational awareness and to build visual familiarity of the...
Camera Viewer Module (Module)	Standard; Enterprise	The Camera Viewer module provides live video viewing, enabling you to monitor one or more live Views, create Sequences of Multi-Views, quickly initiate on-demand recording, manipulate Pan-Tilt-Zoom ("PTZ") cameras, and quickly review recently archived vi...

Real-time Extraction (Component)	Standard; Enterprise	Ability to live record and extract video with or without motion or external trigger by a simple one-click interface on any camera view.
Welcome and Login (Module)	Standard; Enterprise	Welcome area with navigation to components and modules within Perspective VMS
Visual Camera Status Indication	Standard; Enterprise	A visual alert within the events panel, annotating the camera status for quick reference.
Send Messages	Standard; Enterprise	Ability to send and receive messages between users.
Downloadable Extracts	Standard; Enterprise	Ability to download and view extracts in a standard video player
Extraction List/View	Standard; Enterprise	A customized and filter-ready list view of extracts made.
Tutorial Videos	Standard; Enterprise	Interactive tutorial videos showing brief functional instructions to common operating interfaces.
SQL Server 2008 R2 Integration	Standard; Enterprise	Provides the ability to operate and run using Microsoft SQL Server 2008 R2.
Silverlight 4 Integration	Standard; Enterprise	Perspective VMS operates and runs in a Microsoft Silverlight environment
Archive Module (Module)	Standard; Enterprise	Allows users to quickly locate and playback archived video, provides functionality for timeline based archive retrieval, event and archive integration, downloading and sharing archived video and tagging archived information.
Custom Archive Paths	Standard; Enterprise	Ability to define custom locations for archive storage
Out-of-browser	Standard; Enterprise	Provides the ability to run as a desktop client without the need of any browser.
Camera Security Authentication	Standard; Enterprise	Ability to utilize camera security credentials for viewing and administration.
Multi-Level Mapping	Enterprise	Provides the ability to navigate multiple maps through an intuitive interface with dynamic pan-tilt and zoom on each graphic.
Multi-Streaming Archive Player	Enterprise	Ability to playback multiple archived video streams simultaneously.
Neighboring Cameras	Enterprise	Provides the ability to associate cameras together in custom multi-view arrangement of a logical group for quick display of "neighbor" cameras or devices.
Custom Map Layers	Enterprise	Ability to add definable layers to any map. These layers can be hidden or exposed depending on user configuration and preference.