

LENSEC, LLC.

# PERSPECTIVE VMS

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Release Notes (Version 1.0.0)

LENSEC, LLC.

11/17/2011



\*Release notes for the Perspective VMS\* Enterprise and Standard Editions

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# RELEASE NOTES (VERSION 1.0.0)

## Release Notes – Perspective VMS™

Thank you for choosing to install **Perspective Video Management Software (VMS) Version 1.0.0**.

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 1.0.0) was first made available for installation on 11/17/2011.

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

## 1. Introduction

Perspective VMS Version 1.0.0 provides many 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 1.0.0. 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. The operating system of the client workstation can be Windows-based or MacOS.

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: X VGA (1024 × 768) 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 or above (Recommended Windows 2008).
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 or above (Recommended Windows 2008). 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 or above (Recommended Windows 2008). 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. New Features

Perspective VMS is the follow-up product to LENSEC VMS and has several feature additions and enhancements to this product line.

Product Feature Name	Editions	Sales Description
<b>Camera Dock (Component)</b>	Standard; Enterprise	Allows the user to drag and drop cameras from one or more maps into one common area (the Camera Dock) for viewing.
<b>User-defined Schedules</b>	Standard; Enterprise	A schedule interface tool allowing for customizing times to record, archive, search for motion or other items.
<b>Video Extract Player</b>	Standard; Enterprise	Ability to play extracted video within Perspective VMS and download for external playback
<b>Fast-Find (Component)</b>	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.
<b>Custom Multi-view Sequence Editor</b>	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.

<b>Informational Camera Header</b>	Standard; Enterprise	A header overlay with relevant information and real-time status about the camera.
<b>Dynamic Camera View Selector</b>	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.
<b>Image Snapshot</b>	Standard; Enterprise	Provides the ability to take and download a snapshot image from any one or multiple camera view(s).
<b>System-based Alerts</b>	Standard; Enterprise	Diagnostic alerts on system actions of a camera or service
<b>Motion detection based events</b>	Standard; Enterprise	Motion recording
<b>Authorized User Logon</b>	Standard; Enterprise	User generated password protected login for secure and audit-able access to the platform.
<b>Display Active User Sessions</b>	Standard; Enterprise	Provides status of all users actively logged into Perspective VMS
<b>Tagging</b>	Standard; Enterprise	Ability to mark/flag video, cameras, or events for fast search and quantifiable look-up
<b>Private and Public Extracts</b>	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.
<b>Custom Maps</b>	Standard; Enterprise	Provides the ability to upload custom generated map files of facilities, grounds, or regions.
<b>Multi-View Monitoring</b>	Standard; Enterprise	Ability for custom defined multiple live streaming camera view arrangements. with several pre-defined templates for easy and fast viewing configurations.
<b>Browser interoperability and General GUI</b>	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.
<b>Multi-Floor Navigation</b>	Standard; Enterprise	Provides the ability to navigate to floors in a building or site location.
<b>Software License</b>	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...
<b>PTZ Control Sphere (Component)</b>	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.
<b>Archive Timeline Control (Component)</b>	Standard; Enterprise	Dynamic timeline control for fast searching and visual historical search navigation
<b>Map Integration</b>	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.
<b>Multi-view Presets</b>	Standard; Enterprise	Ability to save a selected camera configuration and view as a preset for quick retrieval.
<b>PTZ Sequence Editor (Tour)</b>	Standard; Enterprise	Ability to configure PTZ presets into a tour configuration
<b>PTZ Presets</b>	Standard; Enterprise	Ability to control PTZ cameras and set preset stopping coordinates.
<b>Virtual Pan/Zoom</b>	Standard; Enterprise	Ability to digitally pan and zoom on any image from any camera view, providing more analysis of an area of interest.
<b>Streaming Archive Player</b>	Standard; Enterprise	Ability to playback archived video.
<b>Motion-JPEG Recording</b>	Standard; Enterprise	Ability to record and archive video in Motion-JPEG format
<b>H.264 Recording</b>	Standard; Enterprise	Ability to record and archive in H.264 format.

<b>Share View</b>	Standard; Enterprise	A collaboration tool providing the ability to dynamically share any view the user is currently seeing with any other user.
<b>Send Message</b>	Standard; Enterprise	Allows users to send messages within the application
<b>Active Directory (Read)</b>	Standard; Enterprise	Active Directory Integration
<b>Maps Module (Module)</b>	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...
<b>Camera Viewer Module (Module)</b>	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...
<b>Real-time Extraction (Component)</b>	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.
<b>Welcome and Login (Module)</b>	Standard; Enterprise	Welcome area with navigation to components and modules within Perspective VMS
<b>Visual Camera Status Indication</b>	Standard; Enterprise	A visual alert within the events panel, annotating the camera status for quick reference.
<b>Send Messages</b>	Standard; Enterprise	Ability to send and receive messages between users.
<b>Downloadable Extracts</b>	Standard; Enterprise	Ability to download and view extracts in a standard video player
<b>Extraction List/View</b>	Standard; Enterprise	A customized and filter-ready list view of extracts made.
<b>Tutorial Videos</b>	Standard; Enterprise	Interactive tutorial videos showing brief functional instructions to common operating interfaces.
<b>SQL Server 2008 R2 Integration</b>	Standard; Enterprise	Provides the ability to operate and run using Microsoft SQL Server 2008 R2.
<b>Silverlight 4 Integration</b>	Standard; Enterprise	Perspective VMS operates and runs in a Microsoft Silverlight environment
<b>Archive Module (Module)</b>	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.
<b>Out-of-browser</b>	Standard; Enterprise	Provides the ability to run as a desktop client without the need of any browser.
<b>Multi-Level Mapping</b>	Enterprise	Provides the ability to navigate multiple maps through an intuitive interface with dynamic pan-tilt and zoom on each graphic.
<b>Multi-Streaming Archive Player</b>	Enterprise	Ability to playback multiple archived video streams simultaneously.
<b>Neighboring Cameras</b>	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.
<b>Custom Map Layers</b>	Enterprise	Ability to add definable layers to any map. These layers can be hidden or exposed depending on user configuration and preference.