

LENSEC, LLC.

PERSPECTIVE VMS

Release Notes (Version 2.5.0)

LENSEC, LLC.

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RELEASE NOTES (VERSION 2.5.0)

Release Notes – Perspective VMS™

Thank you for choosing to install **Perspective Video Management Software (VMS) Version 2.5.0**.

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 2.5.0) was first made available for installation and world-wide distribution on 09/03/2015.

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 2.5.0 is a minor version release following previous versions of 2.4.x first released in May 2016 ([Release History](#)).

1.1. Scope

The release notes pertain to installations of Perspective VMS Enterprise, Standard, Express, Command View, and Trial Editions. 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 that allow the Microsoft® Silverlight™ plug-in including Microsoft Internet Explorer, Firefox by Mozilla.

Client Recommendations

Hardware	Software
Processor: 2.4 GHz (x64 Processor) or 1.3GHz (Dual Core). Memory: Minimum 4 GB RAM. Available Disk Space: Minimum 10 GB. Display: SXGA (1280 x 1024) or higher resolution	Windows 7 or above (Recommended Windows 7) Mac OSX or higher (Recommended OSX Lion) Internet Explorer 9.0 and above (Recommend IE 11.0) Mozilla Firefox 4.0 and above (Recommended 34.0). Microsoft Silverlight 5.1

2.2. Server System Requirements

Web Server*

Hardware	Software
Processor: 2.4 GHz (x64 Processor) or 1.3GHz (Dual Core). Memory: Minimum 16 GB RAM. Available Disk Space: Minimum 320 GB OS Partition (if applicable): Minimum 60 GB Network Interface Controller: Minimum 1GB	Windows 2008 Server or above (Recommended Windows Server 2012). Internet Information Services 7 or greater. MIME Types: .xap and .xaml files. Microsoft .NET Framework 4.5.

Archive/Streaming Server*

Hardware	Software
Processor: 2.4 GHz (x64 Processor) or 1.3GHz (Dual Core). Memory: Minimum 16 GB RAM. Available Disk Space: Minimum: 320 GB OS Partition (if applicable): Minimum 60 GB Network Interface Controller: Minimum 1GB	Windows 2008 Server or above (Recommended Windows 2012 Server). Internet Information Services 6 or greater. MIME Types: .xap and .xaml files. Microsoft .NET Framework 4.5.

Database Server*

Hardware	Software
Processor: 1.0 GHz. Memory: Minimum 16 GB RAM. Available Disk Space: Minimum: 320 GB.	Windows 2008 Server or above (Recommended Windows 2012 Server). Microsoft SQL Database Server 2008/2012/2014 (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. These services will be installed from the Perspective VMS wizard.

- 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 7 Management Compatibility

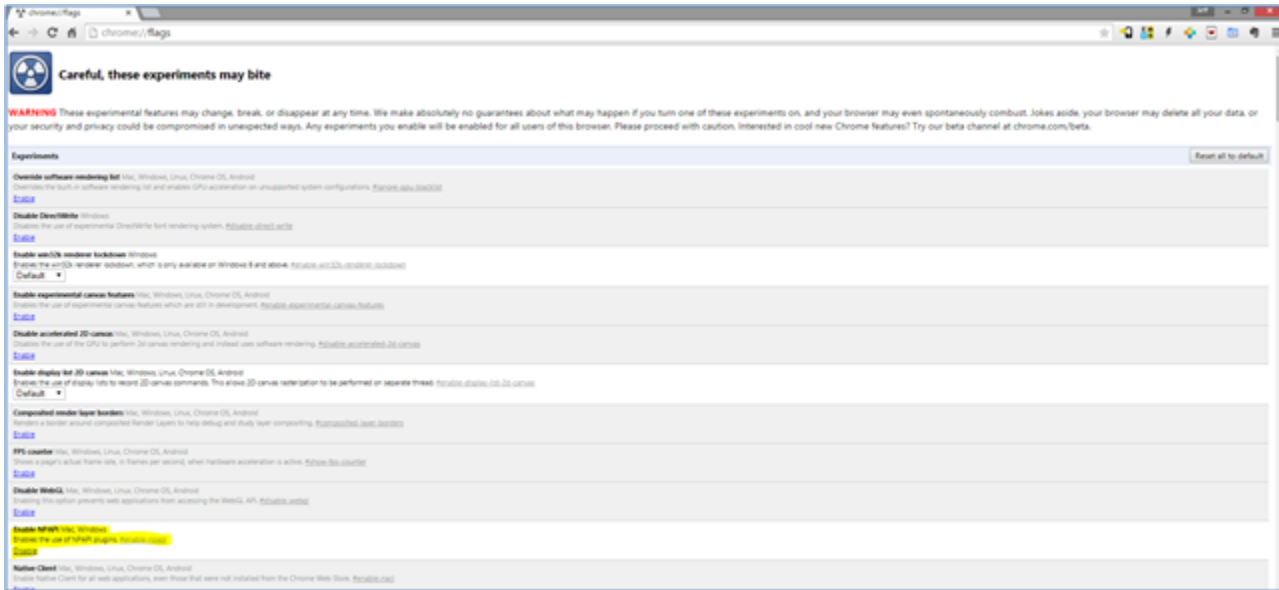
2.3.2. .NET Framework 4.5

PVMS is built on top of Microsoft's Silverlight Application Framework which requires .NET Framework 4.5 to operate.

2.3.3. Silverlight 5.1

PVMS is built on top of Microsoft’s Silverlight Application Framework which requires Silverlight 5.1 to operate as a client.

*** Please note in Google’s Chrome browser (Version 42 or higher, released on 04/20/15) NPAPI plugins such as Silverlight are disabled by default. To change this setting navigate the chrome browser in the URL omnibox to “Chrome://Flags” and change the NPAPI setting as shown below:



3. Features

3.1.1 New Features, Bug-fixes, and Enhancements

Perspective VMS 2.5.0 is a Minor Release update to Perspective VMS 2.x. There exist **new features** (in bold), feature enhancements and maintenance items, which include:

Product Feature Name	Description
Camera Bitrate/Compression Quality Adjustment	An ability to set a value selection for compression quality (bitrate) if allowed per camera model for streaming bandwidth regulation.
Configuration Import/Export - Camera Model	An ability to Export and Import custom camera model configurations across different systems of Perspective VMS.
Edge-based Recording Import	Ability to pull/import recordings from an SD card either from the camera or directly from the SD card
Edge Storage (Axis)	Ability to record and recall edge based storage on Axis Cameras
Event-based Trigger (Camera Input)	The ability to initiate/trigger a programmable action (via workflow routine) based a defined an input event from a camera
Extraction Editing	An ability to edit or refine extractions via editing start and end times thereby creating a second "trimmed" extraction in addition to the original.
Import Video from Source	An ability to import video files (.mp4, .mov) from an external source such as a mobile phone, tablet, or web-camera. The imported videos may be associated to a selected device and managed within the archive timeline for comparison against other camera objects during an investigation or search.
Imported Videos Administration	An ability to manage imported video information within the Administration module.
Multiple Areas of Interest - Motion Detection	Provides the user the ability to define multiple areas of interest for motion detection.
Preferred Default Aspect Ratio	Allows user to select default / preferred aspect ratio for camera (workflows maps)
Server-Generated Extraction Overlay	An ability to add metadata of a server generated overlay with camera name, date/time onto video extractions.

User Default Archive Module Preferences	Allows each user the ability to define default timeline start time and interval.
Windows 10 - Client Support	Ability for Perspective VMS to operate as a client on Windows 10
Windows 10 - Server Support	Ability for Perspective VMS Server application to operate on Windows 10
Workflows by Camera	An administrative view for showing cameras configured in a workflow.
Workflows by User	An administrative view for showing users configured in a workflow.
Workflows with Cameras Report	A report listing each workflow and associated camera(s)
Workflows with Users Report	A report listing each workflow and associated user(s)
Multi-View Monitoring	Enhancement: Provides text information of connection status when not live streaming.
PTZ Control	Enhancement: Allow for digital zoom of PTZ cameras beyond the optical zoom of the camera itself.
Camera Setup - GUI	Enhancement: Allow for ability for camera changes (additions or make active) to be reflected immediately within the same user session.
Camera Setup - GUI	Enhancement: Allow camera setup to maintain settings when switching models if the model supports the same codec options.
User Default PTZ Control Setting	Enhancement: User option to enable/disable Digital PTZ controls.
Custom User Profile	Enhancement: User profile interface reorganized to 3 distinct sections for easier management.
Camera Status Report	Enhancement: Added filters to camera status report.
Camera Status Testing	Enhancement: Expose connection string attempted if camera status test fails.
Custom Archive Stream Types	Enhancement: Change title names of archive settings to better reflect function
Snapshots Repository	Enhancement: Ability to take an image snapshot (for the snapshot repository) from an archive when no image snapshot path is available.
UI Action - Camera Viewer	Enhancement: Ability to start camera sequences as part of the workflow.
User Default Camera View Arrangement	Enhancement: Allow the user to select Borderless Multi-view as a default arrangement option.
Camera Support Tracking	Enhancement: Allow for bulk-editing of support tracking fields
Camera Viewer Overlay - Advanced Options	Enhancement: Add of feature to navigate to Administration from Archive Camera Container.
Automated Real-Time Extraction	Enhancement: Additional default values for Real-Time Extraction action in workflows.
Universal Camera Model Driver	Enhancement: Camera setup will ignore parameters not enabled by the model itself.
User Groups	Enhancement: Allow for bulk editing of user groups
Expandable Info Panel	Enhancement: Allow for individual filter resets on information panel.
Archiving Service	Bug-fix: Corrected an occurrence where a camera's date/time failure could send errant data in the archive record.
IIS App Pool / Installation Package	Bug-fix: Changed a condition that could cause the default application pool to recycle (log-out users) every 29 hours.
Print-ready views	Bug-fix: Corrected field labels on CSV exports or system reports
SQL Backup/Restore	Bug-fix: SQL utility will write a new folder if one does not exist from path configured in user interface.

3.2.1 Full Product Feature List

A full product feature list can be found online at ([Features List Link](#))