

LENSEC, LLC.

PERSPECTIVE VMS

Release Notes (Version 2.4.1)

LENSEC, LLC.

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RELEASE NOTES (VERSION 2.4.1)

Release Notes – Perspective VMS™

Thank you for choosing to install **Perspective Video Management Software (VMS) Version 2.4.1**.

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 2.4.1) was first made available for installation and world-wide distribution on 06/23/2015.

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 2.4.1 is a maintenance version release following previous versions of 2.4.x 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 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). 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) Google Chrome 37.0 and above (Recommended 41.0) 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 8 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

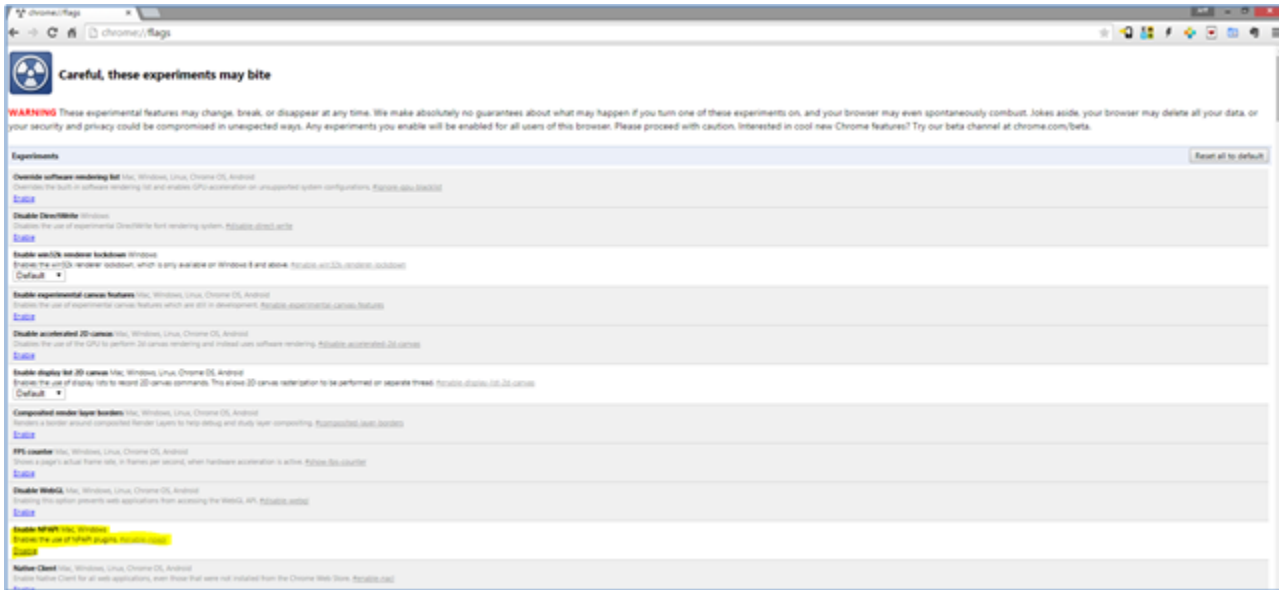
2.3.2. .NET Framework 4.5

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 2.4.1 is a Maintenance Release update to Perspective VMS 2.4.0. There exist **new features** (in bold), feature enhancements and maintenance items, which include:

Product Feature Name	Description
Custom Action (Button)	A user-defined button that can be utilized as a trigger for workflow-based actions. The button may be customized by the configuration user in both text and graphic icon. It will appear where assigned by group permissions on the Actions menu of the Side Panel.
Archiving Status Report	An exportable status report of all active camera's archiving statistics including: Camera Name, Model, IP Address, Archiving Server, Store Location, Oldest Archive Date, Newest Archive Date, Missing Dates, Archive Span, Archive Schedule, Archive Codec, Retention, Motion %, Storage per Day, Total Storage Used, Archive Lock Status.
Event-based Trigger (GUI)	The ability to initiate/trigger a programmable action (via workflow routine) based a defined event such as an input, video analytic, or system message.
Event-based Trigger (Behavioral)	The ability to initiate/trigger a programmable action (via workflow routine) based a defined an event from a configured behavioral analytic device.
Event-based Trigger (Camera)	The ability to initiate/trigger a programmable action (via workflow routine) based a defined an event from a camera.
Event-based Trigger (Door Alert)	The ability to initiate/trigger a programmable action (via workflow routine) based a defined an event from a configured Door device.
Interface Actions (GUI)	Ability to configure a user interface action as part of a workflow
Output Actions	Ability to configure device output actions as part of a workflow
External Notifications	Enhancement: External delivery (via Email / SMS) of action notifications with snapshot
External Notifications	Enhancement: External delivery (via Email / SMS) of alarm notifications with Video
Archiving Service (Service) x64	Enhancement: When archiving service becomes overloaded, allow option to drop frames recorded to accommodate.

Archive Timeline Control	Enhancement: Enable timeline slider to encompass entire timeline to simplify user interface upon initial navigation to archive module.
Archive Timeline Control	Enhancement: Allow for larger scaling of archive thumbnails for easier viewing.
Image Extraction Search	Enhancement: Add a progress indicator when Image Extraction is in progress.
Camera Setup – GUI	Enhancement: Added indication in camera setup if variable FPS and/or Resolution are not able to be modified
Camera Setup - GUI	Enhancement: Allows users to add stores directly from Camera Setup page
Camera Setup - GUI	Enhancement: On Edit Camera page should have ability to navigate live and archives
Camera List	Enhancement: Ability to sort on Camera Name, Model, Description, IP, Resolution or Active
Camera List	Enhancement: Ability for sorting by server and store information in the camera list
Camera Icon Set	Enhancement: Added a default icon set for doors
Cross Browser Interoperability	Enhancement: Allow for detection if Google Chrome browser is blocking NPAPI and produce instructions on enabling
ONVIF Camera Discovery	Enhancement: Allow for detection if SSDP service is not running when attempting to use Camera Discovery and provides notification to user
Camera Status Report	Enhancement: Camera Status Report will show cameras that are marked Out-of-Service
Multiple Aspect Ratio Viewing	Enhancement: Allow for 9:16 aspect ratio viewing containers
Welcome and Login (Module)	Enhancement: Keep Top Navigation bar in Welcome Module
System Health Status Email Alert Notification	Enhancement: Health email displays online/offline column next to stalled archives for easier troubleshooting.
Add Users	Enhancement: Alphabetize groups in Add Users dialog box
Add Users	Enhancement: Allow filtering of users on username or full name
Add Users	Enhancement: Provide indication on Users list which users were added via AD
Custom Log Level	Enhancement: Allow for ability to set logging levels for all services from the General Settings
Archiving Service (Service) x64	Bug-fix: Addressed archiving service memory leak (h.264 archiving)
Video Extract Player	Bug-fix: Corrected an issue where video extraction (of large MPX video) were not compiling correctly for external playback.
Multi-Language Support (Spanish)	Bug-fix: Correct various language labels for Spanish translation
AXIS Camera Integration	Bug-fix: Correct problem found in Axis P5534 models whereby without the camera number set it is not controllable

3.2.1 Full Product Feature List

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