

MILESTONE INTEGRATION MANUAL

IncoreSoft VEZHA Integration Documentation

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Introduction

This manual provides instructions for integrating the IncoreSoft VEZHA VA plugin into Milestone XProtect VMS.

To begin the integration process, there are a few essential prerequisites that must be in place. These include properly installed and configured software:

- Milestone XProtect VMS
- Milestone Open Network Bridge
- IncoreSoft VEZHA Analytics System



- If you haven't installed the Milestone XProtect VMS yet, we highly recommend installing the latest version of Milestone XProtect Products. The official Milestone [Getting Started Guide XProtect VMS 2023 R1](#)¹ documentation describes the detailed installation and configuration process.
- In case you haven't installed Milestone Open Network Bridge, we strongly advise referring to the official Milestone [Open Network Bridge Manager 2023 R1](#)² administrator manual.
- In case you haven't installed IncoreSoft VEZHA Analytics System yet, refer to our [Installation Documentation](#)³ for detailed instructions on the installation process and [User Manual](#)⁴ for proper system configuration.
- If there is a problem with authorization in Open Network Bridge Manager, download and use this file to fix it: [Milestone Open Network Bridge fix.reg](#)⁵. After that restart the Open Network Bridge service.
- All video analytics results in the plugins will be displayed exclusively for cameras from Milestone, utilizing Milestone RTSP and Milestone ONVIF video streams.
- Ensure that video playback is enabled for all cameras used in Milestone for video analytics in order to view video segments of events.

¹ https://doc.milestonesys.com/mc/pdf/2023r1/en-US/MilestoneXProtectVMSproducts_GettingStartedGuide_en-US.pdf

² https://doc.milestonesys.com/addons/pdf/2023r1/en-US/MilestoneOpenNetworkBridge_AdministratorManual_en-US.pdf

³ <https://docs.incoresoft.com/ivig/system-installation-manual-2064397.html>

⁴ <https://docs.incoresoft.com/ivug/user-manual-2064401.html>

⁵ <https://docs.incoresoft.com/download/attachments/94608573/Milestone%20Open%20Network%20Bridge%20fix.reg?api=v2&modificationDate=1713271921099&version=1>

Overview

After the successful installation and configuration of the main software, proceed to work with the IncoreSoft VEZHA web integration plugin. The following documentation offers detailed instructions and a guide for installing, configuring, and effectively utilizing the VEZHA VA plugin for Milestone XProtect VMS:

- [VEZHA VA Plugin for Milestone XProtect VMS \(see page 5\)](#)

If you wish to overlay watermarks on video streams, we offer a specialized separate solution. The VEZHA Watermark Plugin is designed to add a visible semi-transparent watermark, such as a logo or brand name, to your video during live view and playback. This helps protect your video streams from unauthorized use or copyright infringement. For detailed instructions on installing, configuring, and effectively utilizing the Watermark Plugin for Milestone XProtect VMS, refer to the following guide:

- [Watermark Plugin for Milestone XProtect VMS \(see page 12\)](#)
- [Introduction \(see page 3\)](#)
- [Overview \(see page 4\)](#)

VEZHA VA Plugin for Milestone XProtect VMS

Introduction

This guide comprises comprehensive information about VEZHA Analytics System web integration with Milestone XProtect VMS through the VEZHA VA Plugin. Use this guide to understand the plugin installation and configuration process and learn how to utilize it for the best results.

What is VEZHA VA Plugin?

The VEZHA VA Plugin is a versatile tool that allows viewing video analytics results from various VEZHA plugins in a single, convenient web interface within the Milestone XProtect Smart Client.

Overview

Before you start, ensure you have correctly installed and configured:

1. The latest version of IncoreSoft VEZHA Analytics System (Middleware Core ver. 23.2.11 or higher)
2. The latest version of the required IncoreSoft VEZHA plugins
3. Milestone XProtect VMS
4. Milestone Open Network Bridge
5. WebView2 library



- The latest version of the IncoreSoft VEZHA Analytics System installation file can be found in the Installation Files section of the Partners Portal.
- Middleware Core version can be checked in the Updates item of the VEZHA system, and updated if necessary.
- IncoreSoft VEZHA plugins can be updated in the Plugin Marketplace item of the VEZHA system.
- Milestone Open Network Bridge must be installed and configured on the same computer as the Milestone XProtect Management Server.
- The WebView2 library installation on the same computer as Milestone XProtect Smart Client is essential for the proper functioning of the plugin. Download the WebView2 installation file at the following link: <https://developer.microsoft.com/en-us/microsoft-edge/webview2/#download-section>.

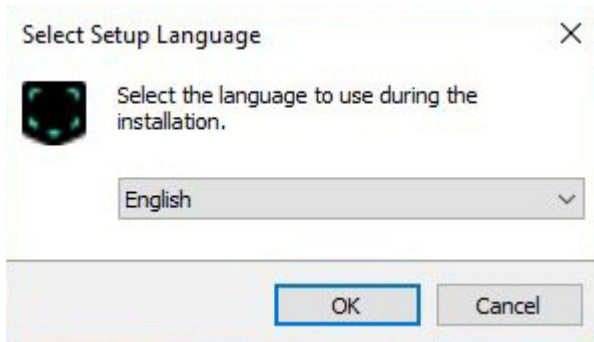
Plugin Installation

To initiate the plugin installation:

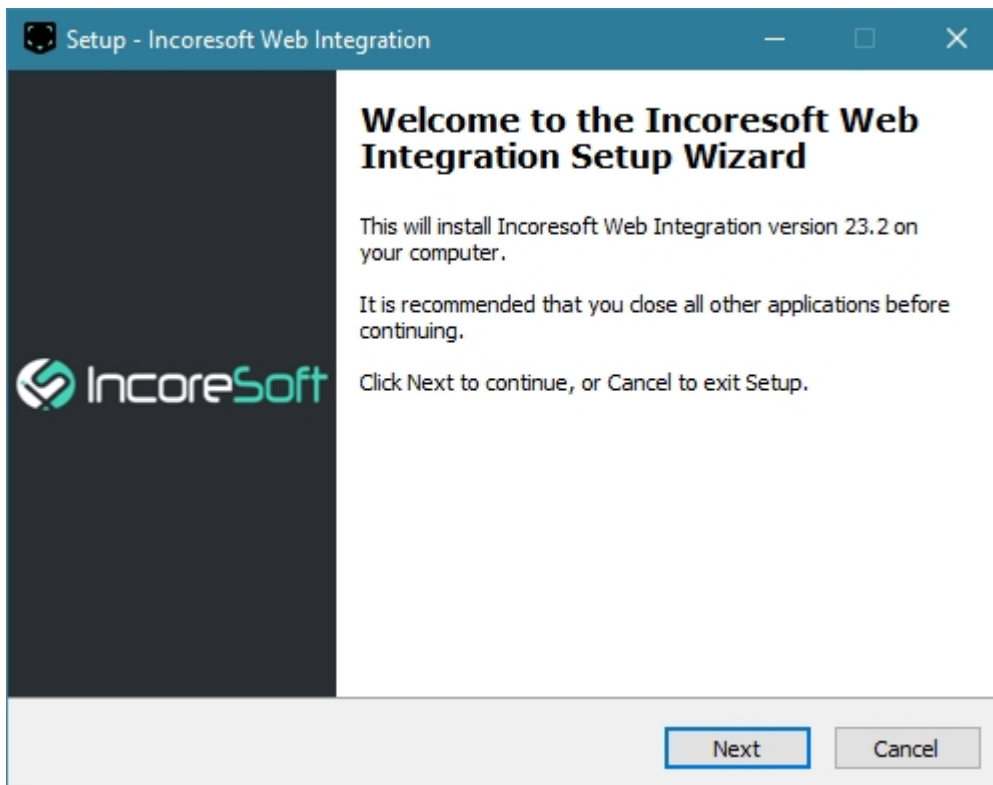
1. Navigate to the Installation Files section in the Partners Portal
2. Select the Milestone XProtect VMS Plugins block
3. Download the Milestone Web Integration Plugin file

Execute the Incoresoft-VEZHA-WebIntegration.exe file by double-clicking it.

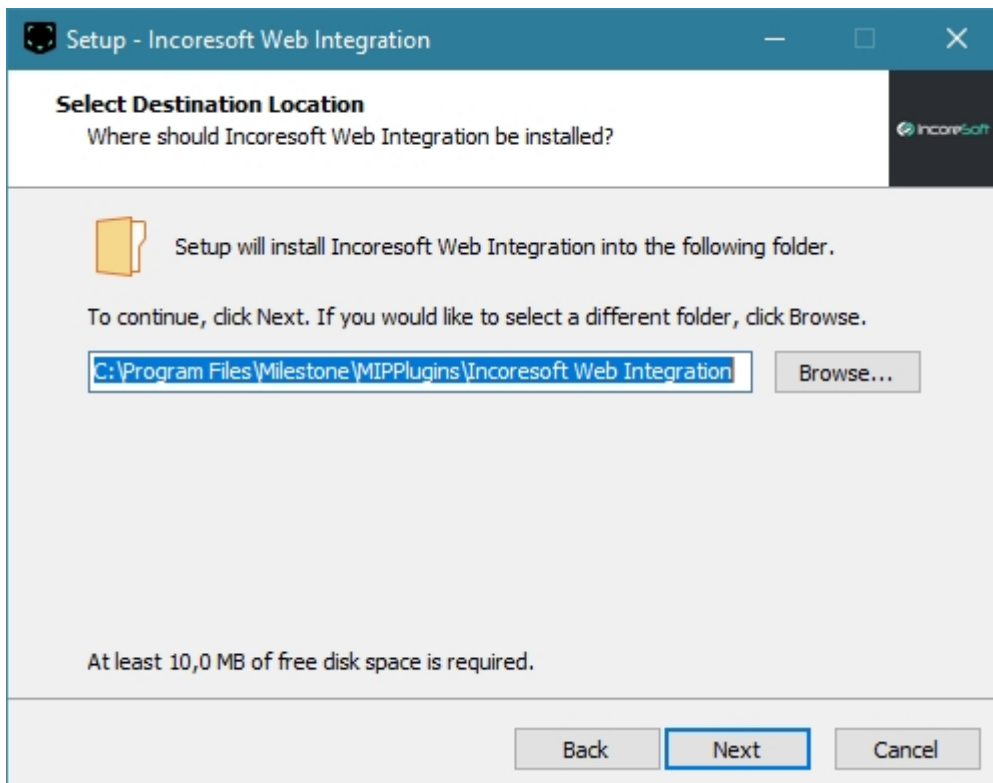
Select the desired language and click the Ok button:



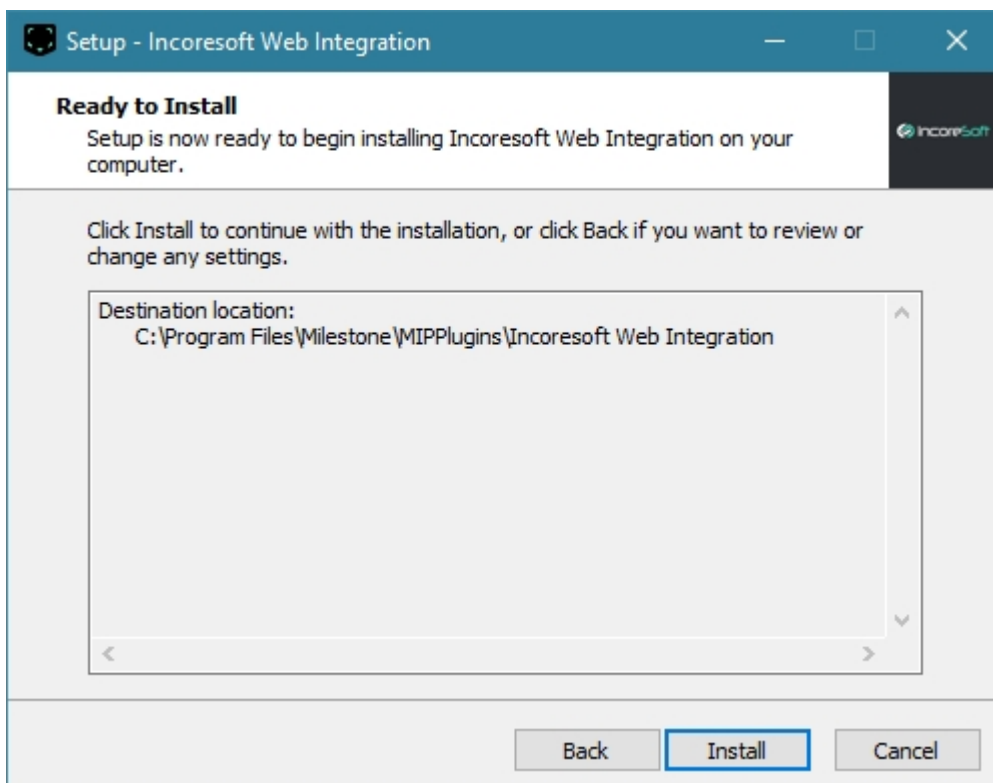
Review the setup information and click the Next button to proceed:



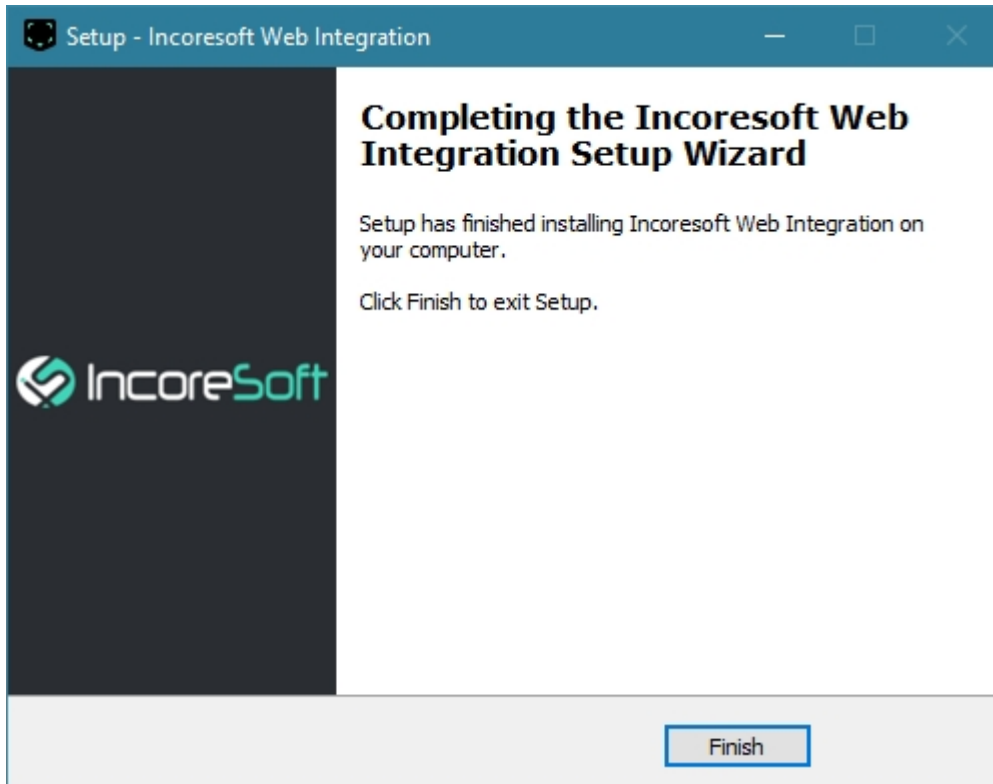
Click the Browse button to select a folder for installation, and then proceed by clicking the Next button:



Click the Install button and wait patiently until the installation process is completed:



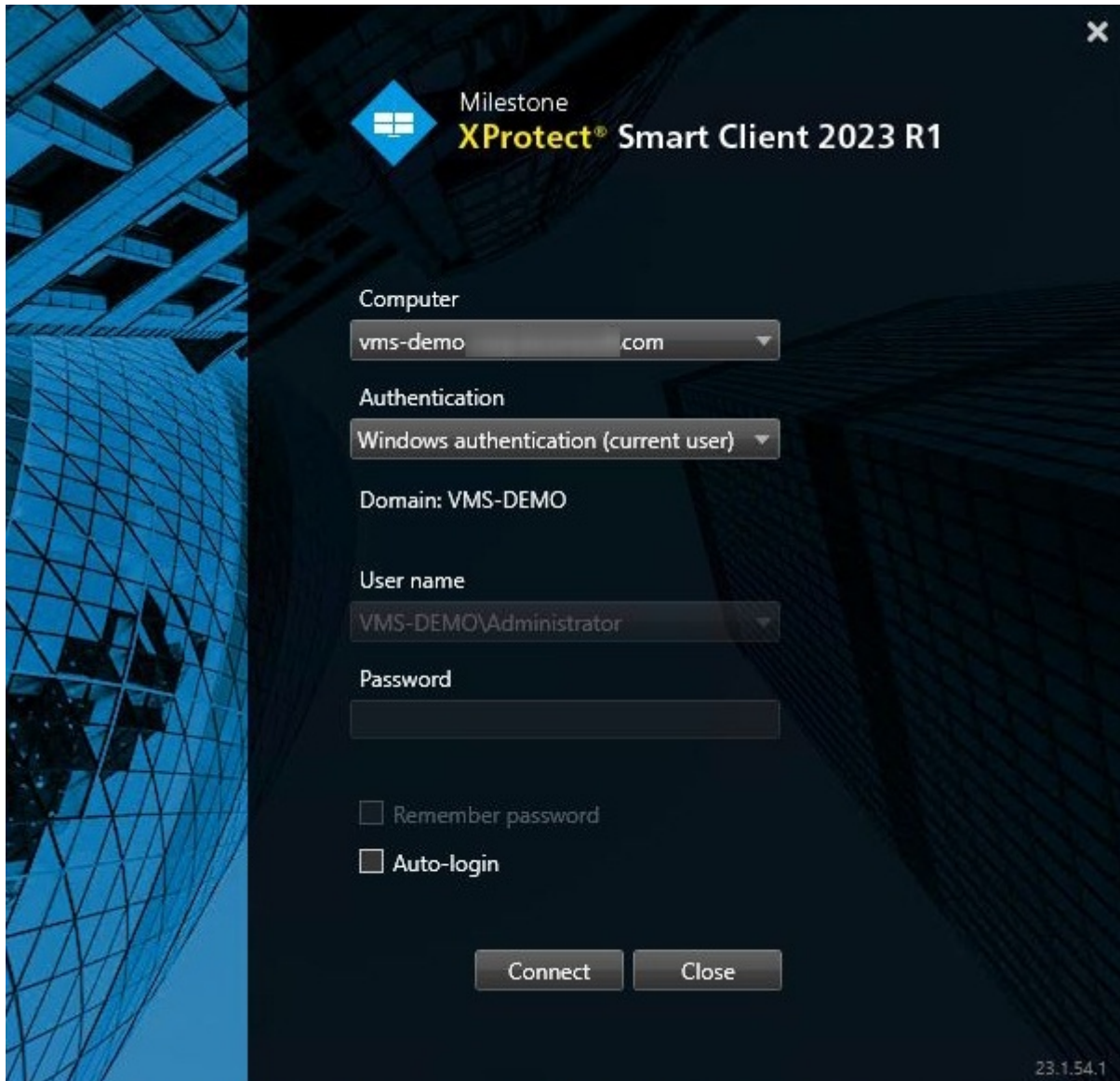
Click the Finish button to close the setup window:



The plugin installation is now complete.

Plugin Configuration

Open the XProtect Smart Client application and sign in by performing the following steps in the login dialog:

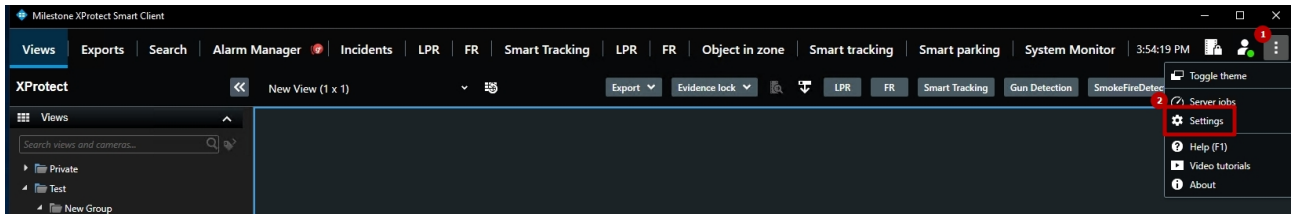


1. Specify the hostname or the IP address of the XProtect Management Server in the Computer field
2. Select the desired authentication method
3. Enter the username and password
4. Click the Connect button



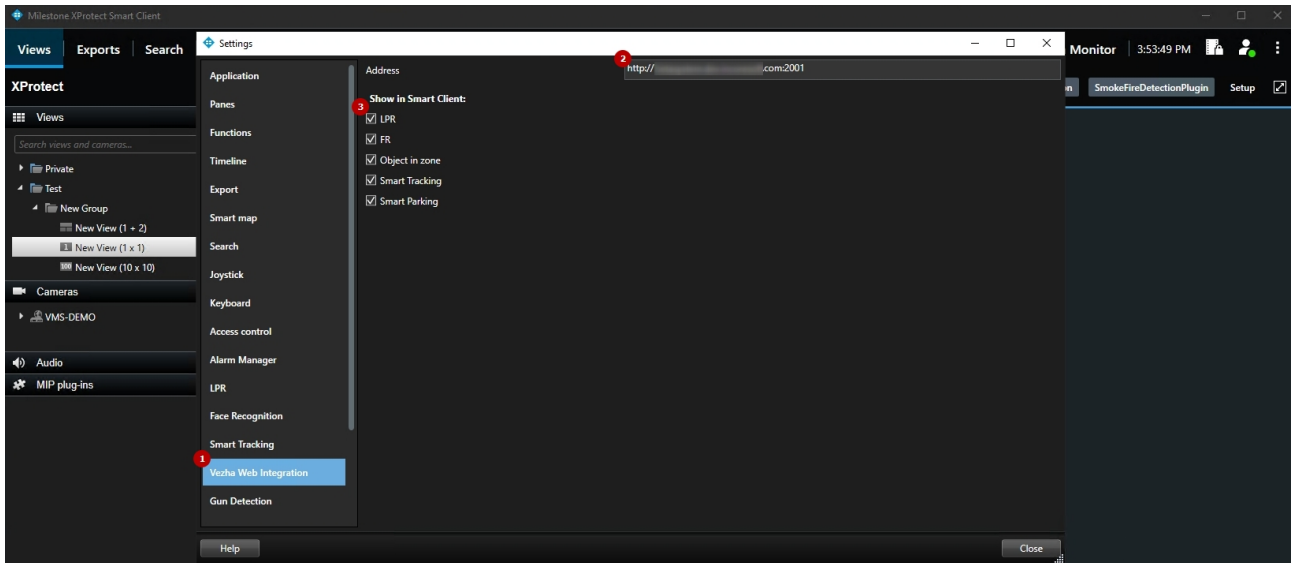
- When the same user login and password are used for accessing Milestone XProtect Smart Client (Basic Authentication) and VEZHA Analytics System, SSO authentication occurs.
- Please avoid using the user's password with special symbols such as: "!@#\$%^&*()", as it may lead to errors. Symbols "." and "-" are allowed.

To connect VEZHA plugins as web integration, open the Settings pop-up window:



1. Click the " : " icon
2. Select Settings from the drop-down menu

In the Settings pop-up window proceed with the following steps:

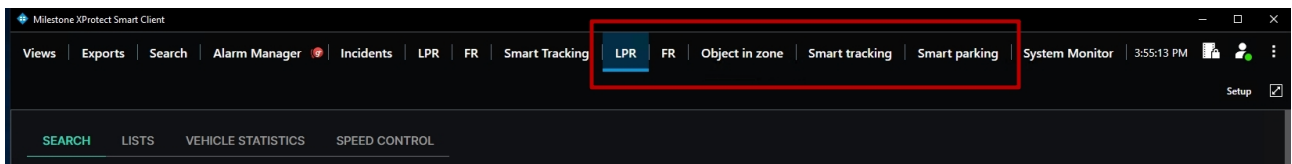


1. Navigate to the VEZHA Web Integration section
2. Enter the VEZHA server address in the following format: "http://your_server_ip_address:port"⁶
3. Check the boxes next to the required VEZHA plugins

Once the server address is specified and the required plugins are selected, close the Settings pop-up window and restart the Milestone XProtect Smart Client to apply changes.

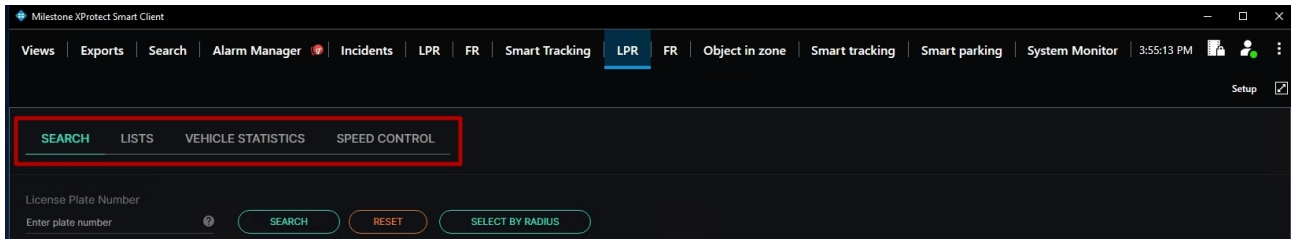
Plugin Utilization

All enabled VEZHA web plugins are displayed as tabs at the top menu of Milestone XProtect Smart Client:

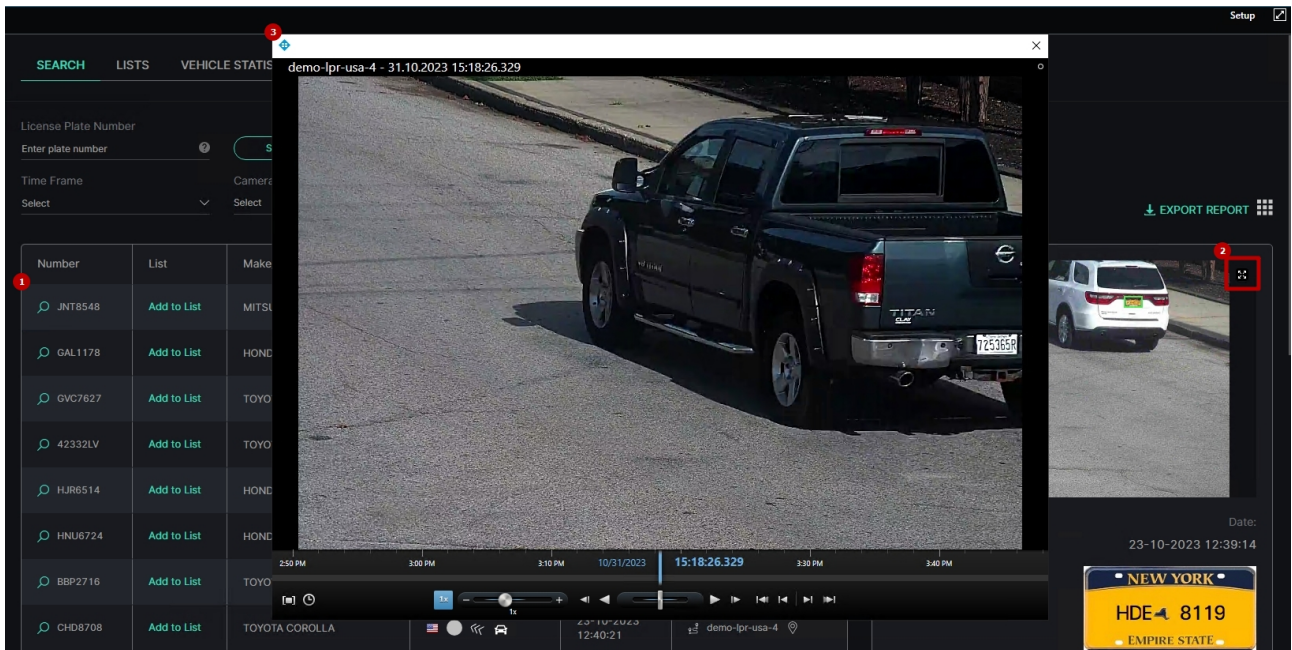


The web plugin interface resembles the VEZHA Analytics System. All available plugin sections are positioned at the top of the page, as illustrated in the example:

⁶ http://your_server_ip_address:port



To view the required event playback, follow these steps:



1. Select the desired record
2. Click its frame preview on the right side of the page in the List View mode, or click the View icon next to the required event in the Grid View mode
3. See the event playback in the pop-up window



To view the desired event playback, the video stream must be associated with the required Milestone camera. If the required video stream is not associated with the Milestone camera, the Event Information pop-up window will be opened, as it usually does in the VEZHA Analytics System, as Milestone XProtect VMS cannot get the event playback from non-associated video streams.

- [Introduction](#) (see page 5)
- [What is VEZHA VA Plugin?](#) (see page 5)
- [Overview](#) (see page 5)
- [Plugin Installation](#) (see page 5)
- [Plugin Configuration](#) (see page 8)
- [Plugin Utilization](#) (see page 10)

Watermark Plugin for Milestone XProtect VMS

Introduction

Use this guide to understand the installation and configuration process of the VEZHA Watermark Plugin and learn how to utilize it for the best results.

What is Watermark Plugin?

The VEZHA Watermark Plugin is specifically designed to overlay watermarks on streaming videos captured by surveillance cameras. Video watermarking is a visible semi-transparent branding technique that involves adding a logo, brand name, or name on top of the original video frame during live view and playback. The primary purpose of a watermark is to protect the video stream from unauthorized use or copyright infringement.



Exported videos or images from the XProtect Smart Client will not have the watermark applied.

Overview

The Watermark Plugin guide covers the following topics:

- [Watermark Plugin Installation \(see page 12\)](#) page describes the step-by-step process for installing the plugin
- [Watermark Plugin Configuration \(see page 15\)](#) page provides instructions for configuring the main settings of the plugin in XProtect Management Client
- [Watermark Plugin Utilization \(see page 19\)](#) page provides guidelines for checking the correct functionality of the plugin in XProtect Smart Client
- [Introduction \(see page 12\)](#)
- [What is Watermark Plugin? \(see page 12\)](#)
- [Overview \(see page 12\)](#)

Milestone: Watermark Plugin Installation



This page describes the step-by-step process for installing the VEZHA Watermark Plugin.

Introduction

To initiate the plugin installation:

1. Navigate to the Installation Files section in the Partners Portal
2. Select the Milestone XProtect VMS Plugins block
3. Download the Milestone Watermark Plugin file

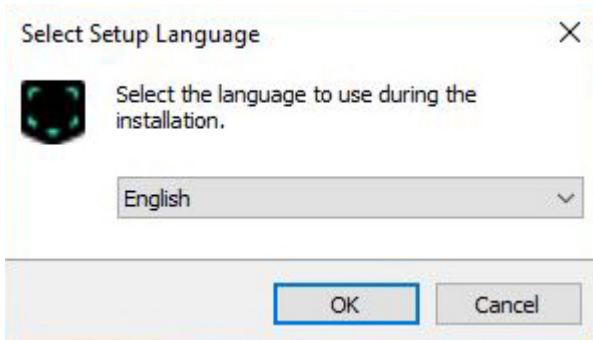
If the XProtect Management Client and XProtect Smart Client(s) are installed separately on different servers but are associated with the same Milestone Management Server, the VEZHA Watermark Plugin must be installed on every PC that has an XProtect Client installed. This includes the PC with the XProtect Management Client (for configuring the plugin) and the PC(s) with the XProtect Smart Client (for displaying the watermark on live and playback streams from the cameras).

However, if both the XProtect Management Client and XProtect Smart Client are installed on the same server, the VEZHA Watermark Plugin only needs to be installed once on that server.

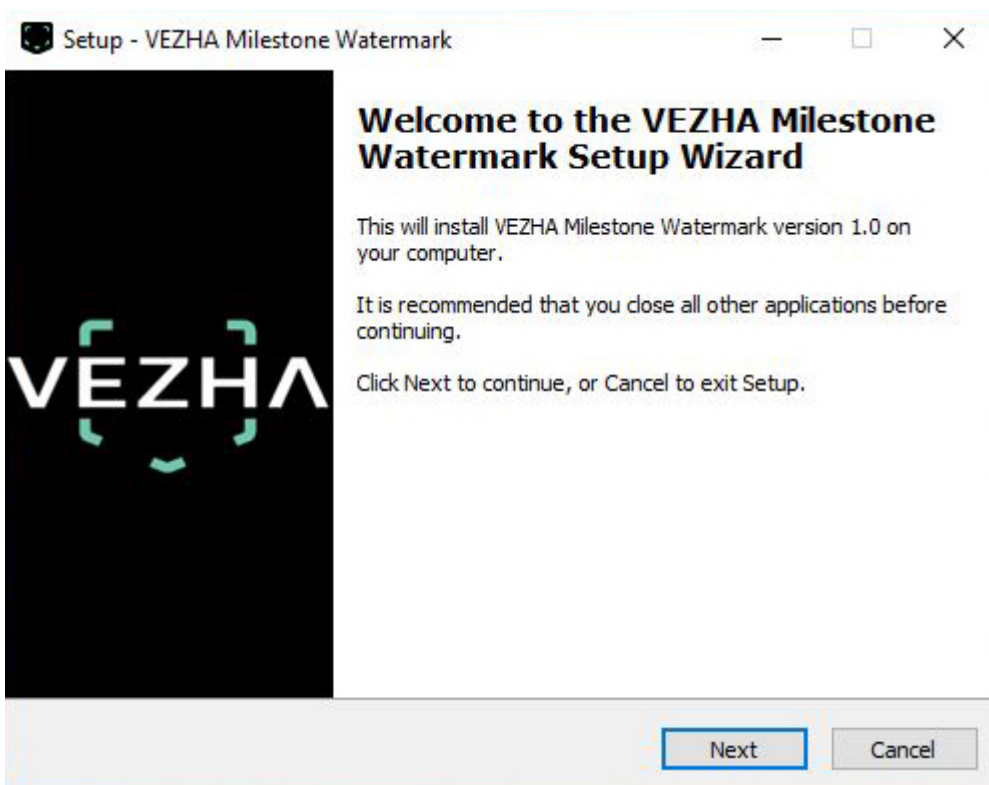
Installation

Execute the VEZHA_MilestoneWatermark_Setup.exe file by double-clicking it.

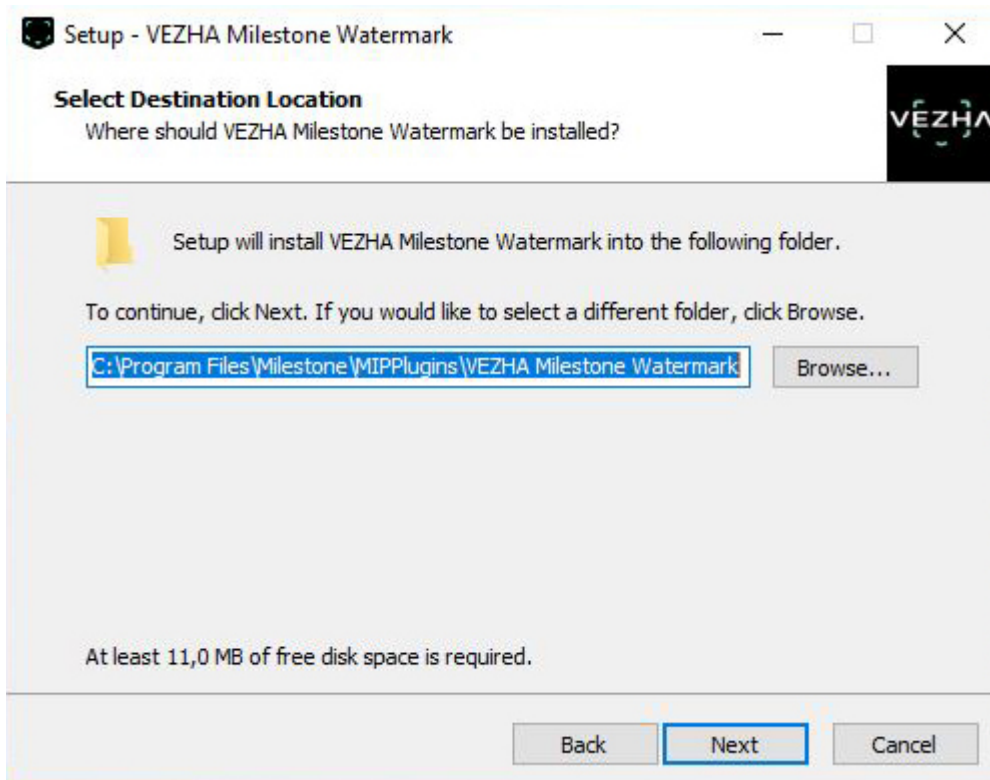
Select the desired language and click the Ok button:



Review the setup information and click the Next button to proceed:

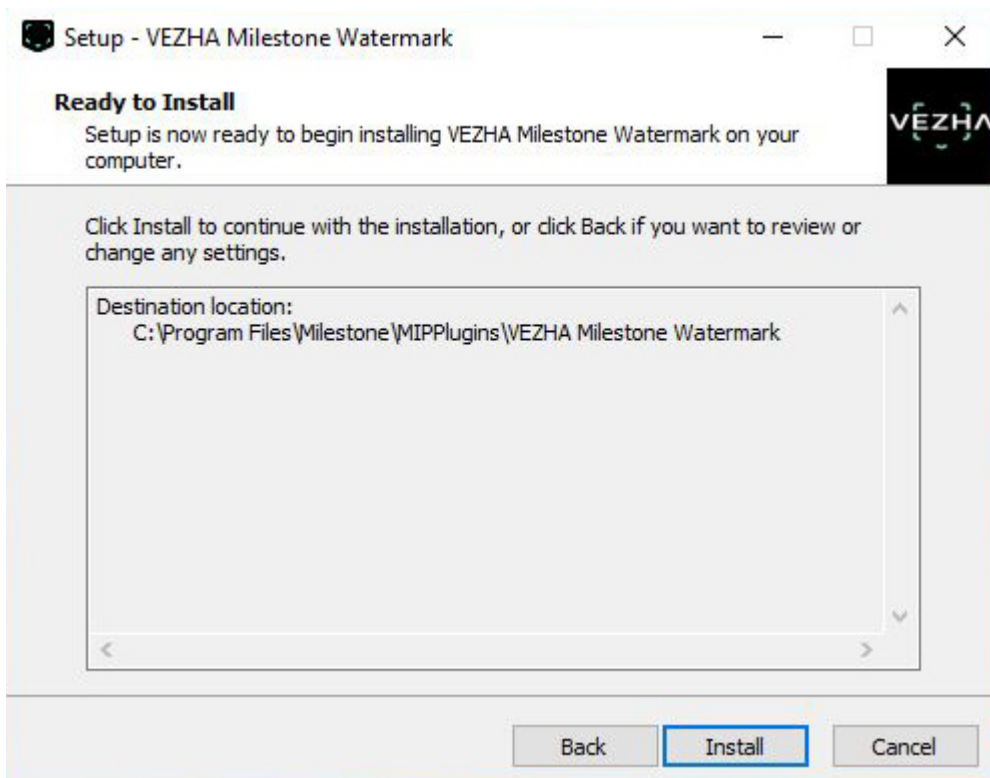


Click the Browse button to select a folder for installation, and then proceed by clicking the Next button:

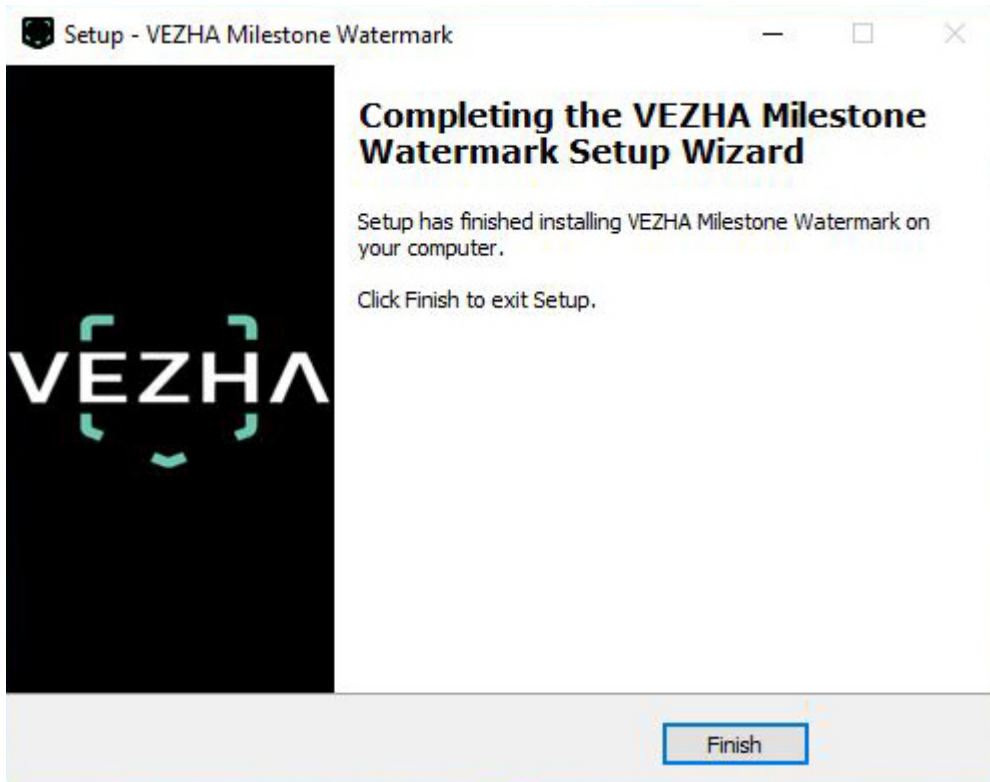


 The plugin should be installed in the Milestone folder alongside other plugins.

Click the Install button and wait patiently until the installation process is completed:




Click the Finish button to close the setup window:



The plugin installation is now complete.

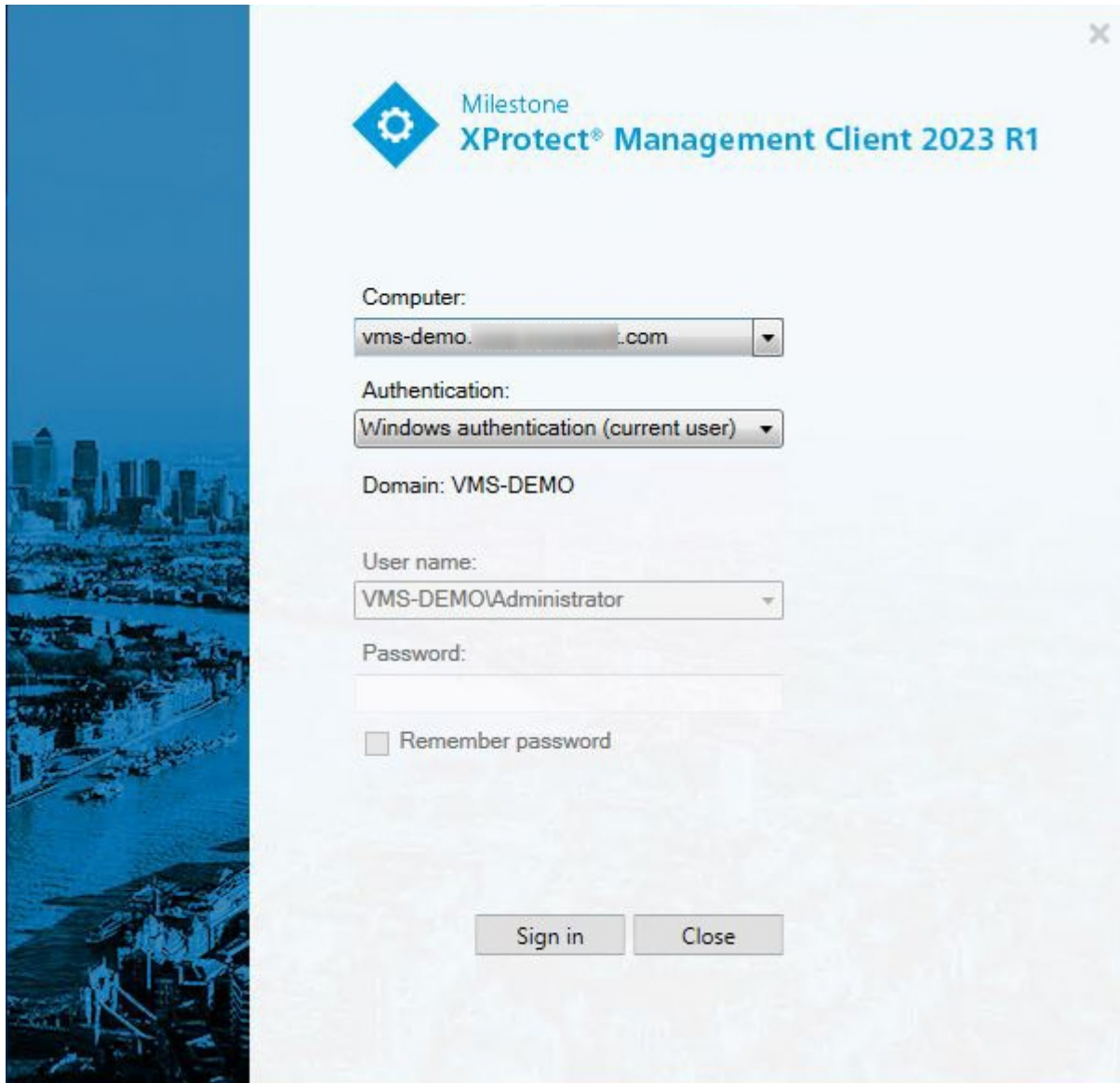
- [Introduction](#) (see page 12)
- [Installation](#) (see page 13)

Milestone: Watermark Plugin Configuration

 This page provides instructions for configuring the main settings of the VEZHA Watermark Plugin in the XProtect Management Client.

Introduction

Open the XProtect Management Client application and sign in by performing the following steps in the login dialog:



Milestone
XProtect® Management Client 2023 R1

Computer:
vms-demo.com

Authentication:
Windows authentication (current user)

Domain: VMS-DEMO

User name:
VMS-DEMO\Administrator

Password:

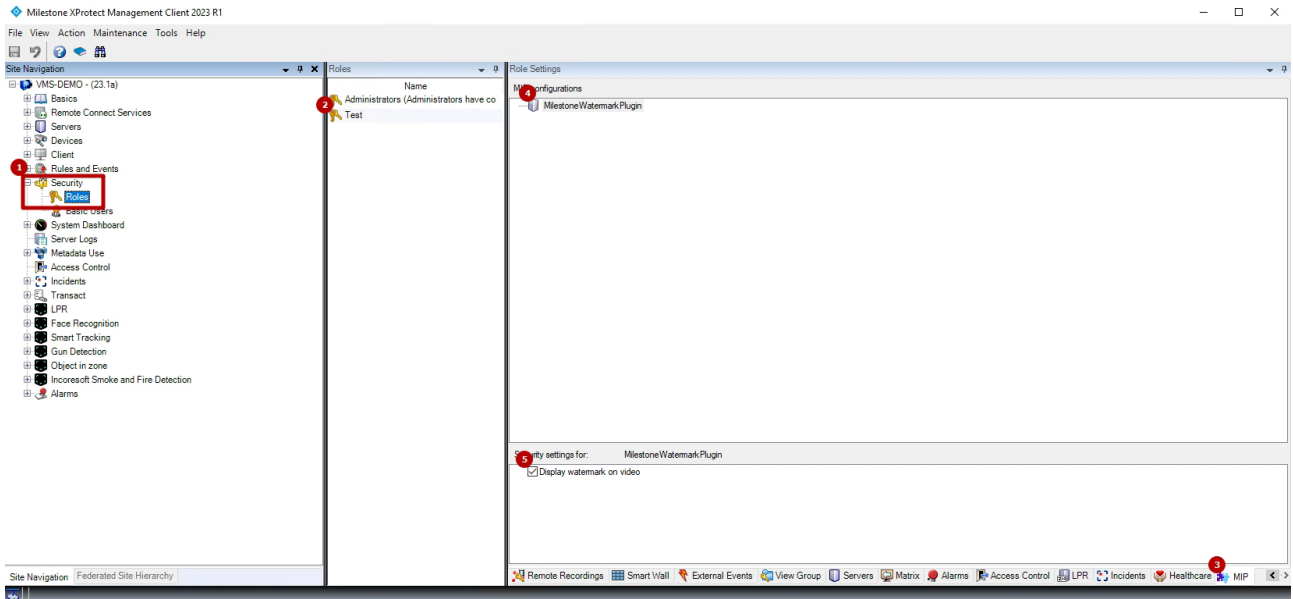
☐ Remember password

Sign in Close

1. Specify the hostname or the IP address of the Management Server in the Computer field
2. Select the desired authentication method
3. Enter the username and password
4. Click the Sign In button

Watermark Enablement

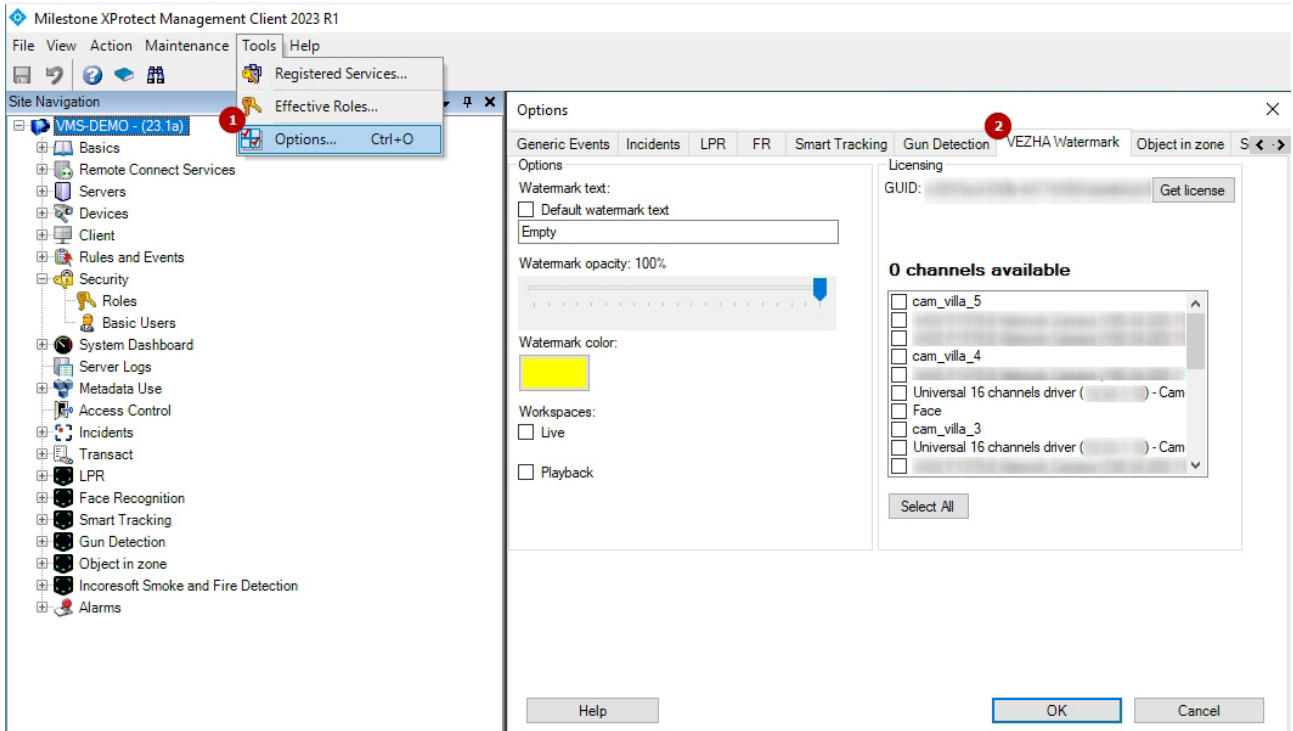
To enable watermarking over a video, follow these steps:



1. Open the Security section and select the Roles item
2. Select the desired role to apply the Watermark plugin
3. Switch to the MIP tab at the bottom of the Role Settings window
4. Click the Milestone Watermark Plugin item in the MIP Configurations block
5. Check the Display Watermark on Video checkbox

 All users associated with the selected role will see the watermark displayed over the video.

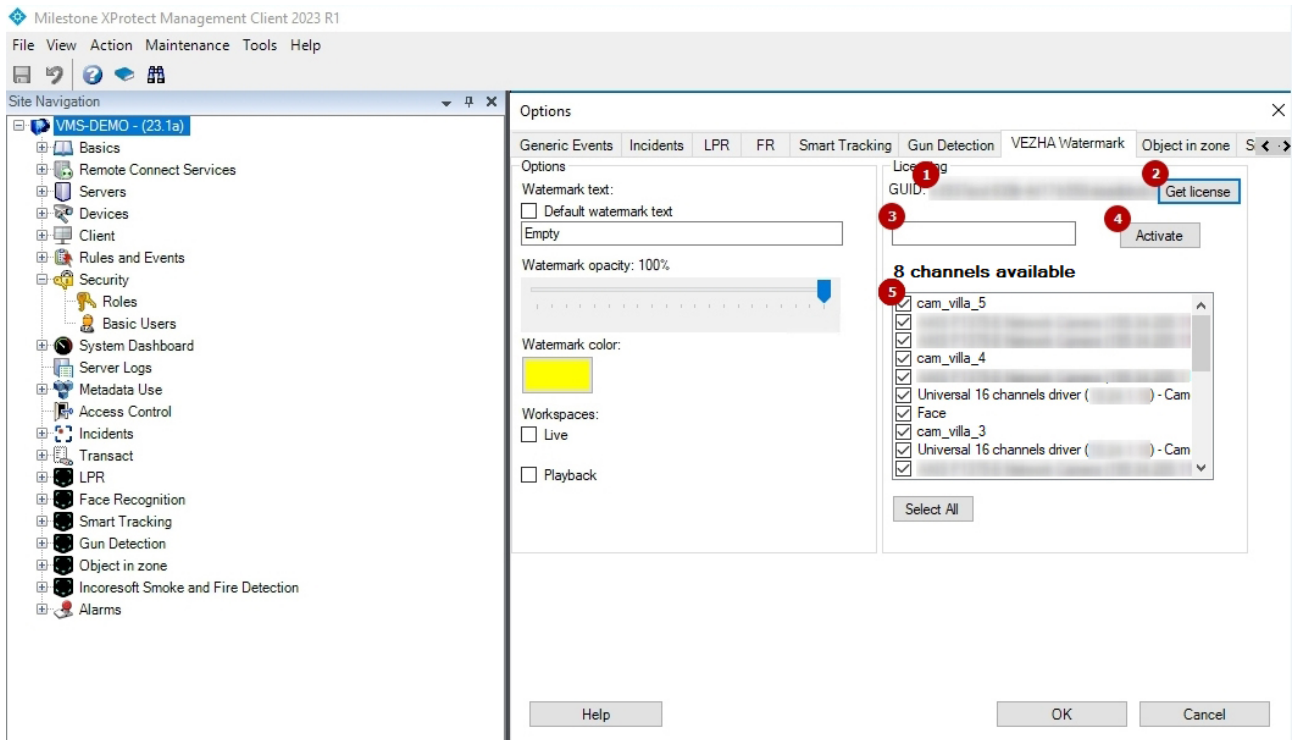
For further Watermark parameters configuration:



1. Open the Tools tab in the menu bar and select Options from the drop-down menu (or press Ctrl + O)
2. Navigate to the VEZHA Watermark tab

License Activation

To activate the license for the Watermark plugin, follow these steps:



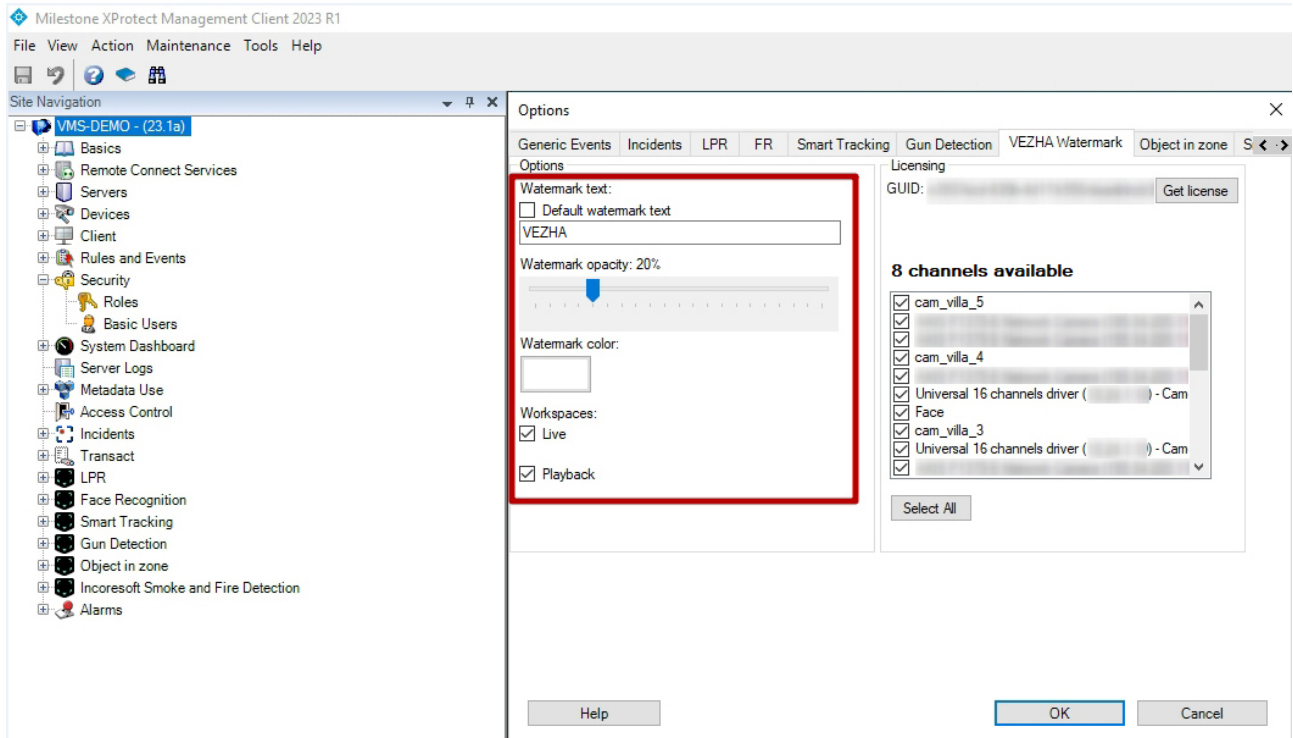
1. Copy the GUID, send it to the distributor, and wait for the distributor to provide a license key
2. Click the Get License button
3. Paste the received license key in the new field
4. Click the Activate button
5. Select the checkboxes next to the desired channels to connect them



- The number of available channels is dependent on the received license.
- The Select All button allows selecting all available channels at once.

Watermark Customization

Customizing the watermark involves configuring the following parameters:



1. Text configuration:
 - Check the Default Watermark Text checkbox to use the server name as the watermark text
 - Fill in the field with the desired text to use it as the watermark
2. Opacity and color selection:
 - Move the slider to the left or right to select the desired opacity level for the watermark
 - Click on the color block and choose the desired color for the watermark
3. Workspace selection:
 - Check the Live checkbox to apply watermarking in live video streams
 - Check the Playback checkbox to apply watermarking in video file playbacks

Once all parameters are configured, click the Ok button and restart the XProtect Management Client and XProtect Smart Client to save the changes.

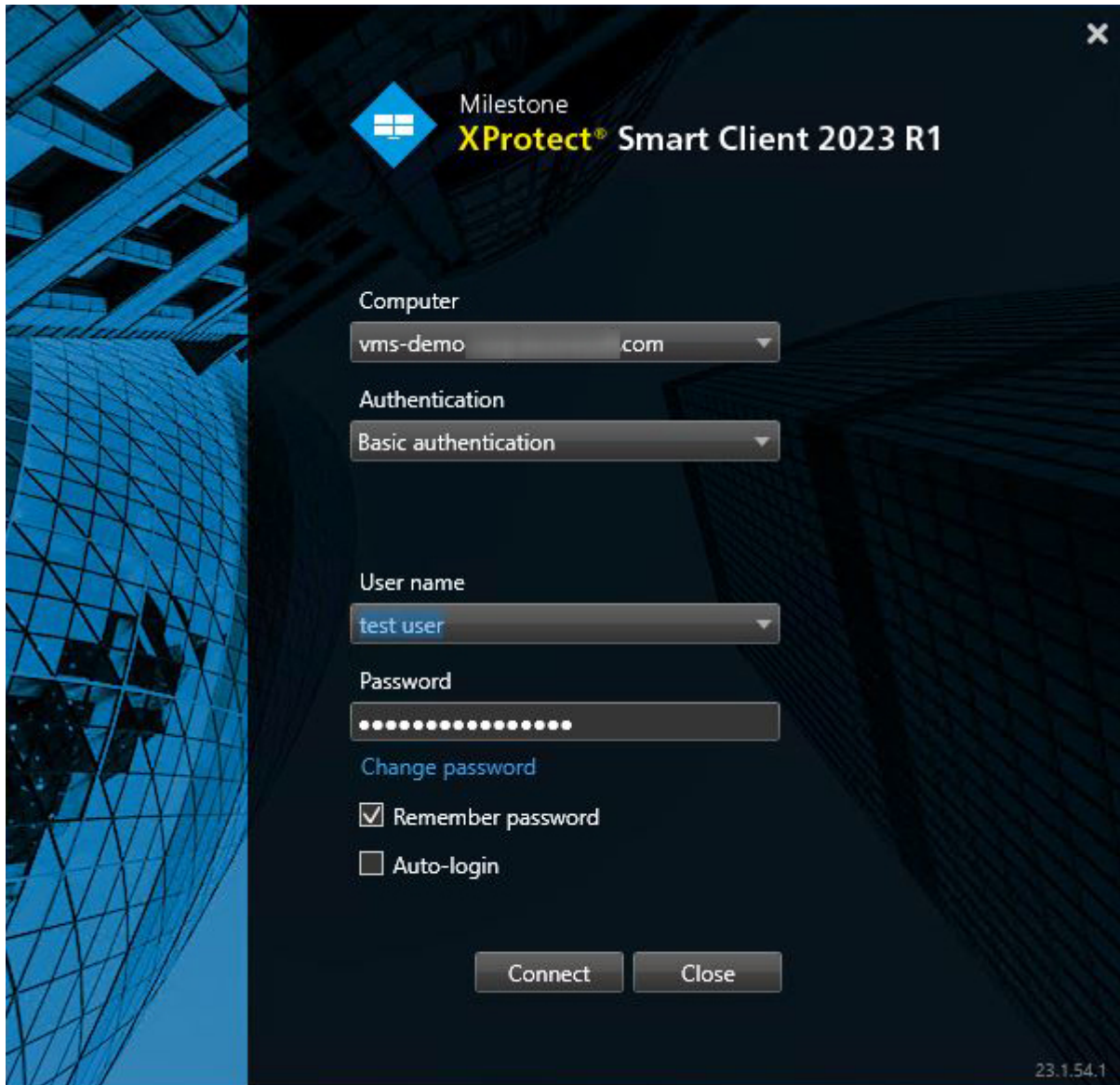
- [Introduction](#) (see page 15)
- [Watermark Enablement](#) (see page 16)
- [License Activation](#) (see page 18)
- [Watermark Customization](#) (see page 18)

Milestone: Watermark Plugin Utilization

i This page provides guidelines for checking the correct functionality of the VEZHA Watermark Plugin in XProtect Smart Client.

Introduction

Open the XProtect Smart Client application and sign in by performing the following steps in the login dialog:



1. Specify the hostname or the IP address of the management server in the Computer field
2. Select the Basic Authentication method from the Authentication drop-down list
3. Enter the username and password of the user associated with the role that has the watermark display enabled
4. Click the Connect button

Watermark Overlay Check

To verify the watermark overlay on the video, open the Views tab and follow these steps:



1. Expand the sidebar
2. Select the desired view
3. Hold and drag the desired camera from the list to the workspace
4. Switch between the Playback and Live workspaces to ensure that the watermark is displaying in every previously selected workspace

- [Introduction](#) (see page 19)
- [Watermark Overlay Check](#) (see page 20)

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