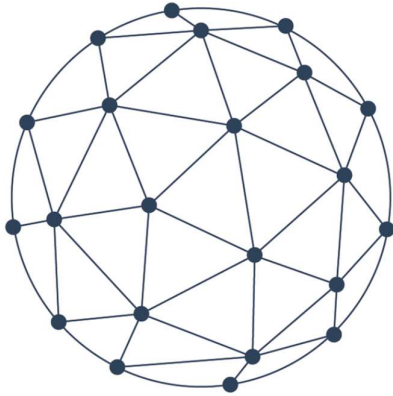




SGSE

Soluciones Globales de Seguridad Electrónica

MONITOR INTELION

Installation manual

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1. Document versions

Version	Date	Author	Version description
1.0	02/2024	CLL	First version

2. Introduction

The Intelion Monitor Plugin for XProtect allows you to select pre-defined alarm definitions in the XProtect Management Client for monitoring. When one of these alarms is triggered, it exports the video from the associated cameras.

It connects to the Intelion API to choose the destination directories for the video and generates events associated with export tasks upon initiation, completion, or in case of an error.

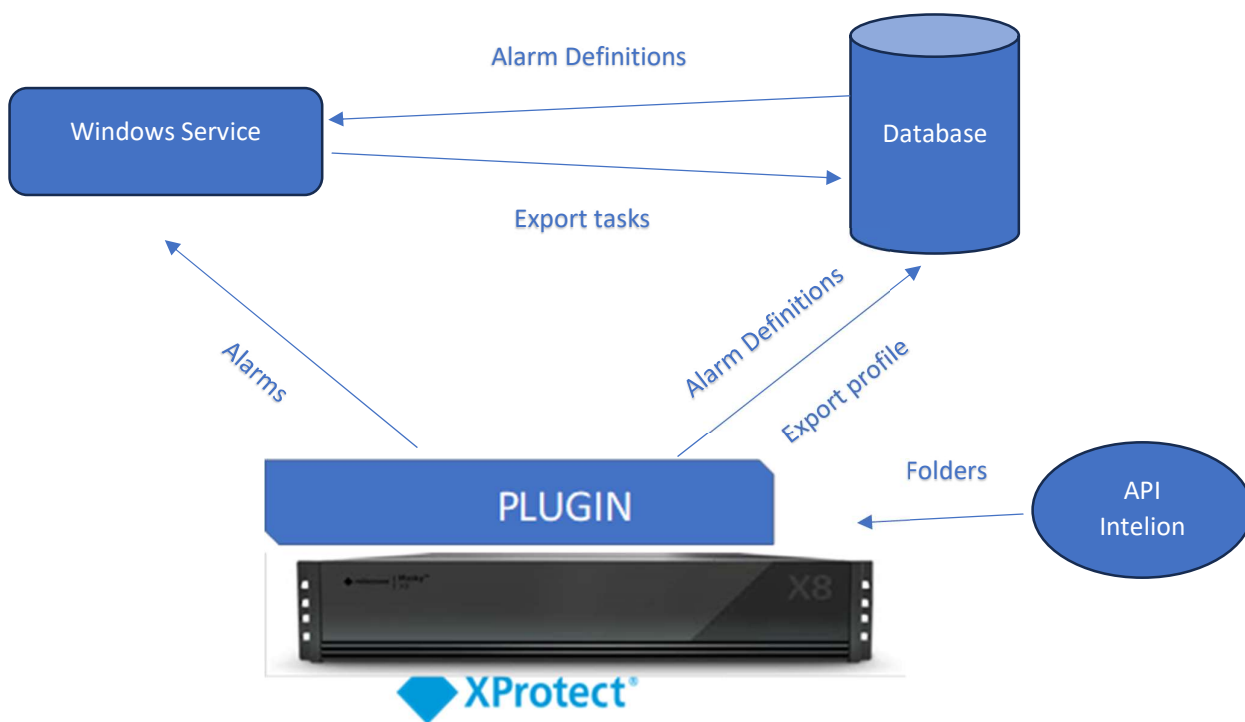
In addition to the video, it generates the corresponding file with metadata associated with the alarm, such as the time, camera, and alarm details.

3. Architecture

The integration consists of three main elements: the XProtect plugin (Milestone), the video export service, and the database through which both are coordinated.

The plugin registers alarms to be monitored, video export profiles, and the destination directory in the database.

The service reads alarm definitions from the database to monitor and listens for new alarms from XProtect. When an alarm arrives that is within the monitored list, it generates a new video export task to execute.



The Windows service performs three main tasks:

- Listens to triggered alarms in XProtect and generates associated video export tasks.
- Executes export tasks after a pre-configured time interval, allowing XProtect to complete the video indexing process before the request.
- In case of an error in the export task, there is a process that retries the task up to three times before marking it as failed.

The XProtect plugin allows visualization of video export tasks stored in the database through the Management Client application. Tasks are categorized as follows for filtering:

- Tasks within the waiting period and tasks currently being executed, with real-time progress updates.
- Successfully completed tasks that finished video file export and generated the corresponding metadata JSON.
- Erroneous tasks, including a descriptive error message that caused the task to stop and the number of retries.

Upon completing the video file export process, the integration service will generate a JSON file as a token with the same name (a GUID) as the AVI or MKV video file.

The JSON file will contain the following metadata to facilitate indexing within the Intelion system:

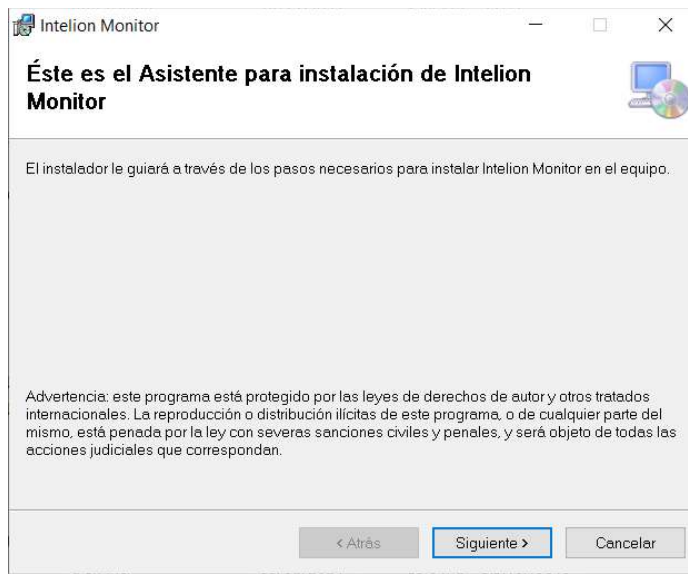
```
{
  "Server": "win-cuhhe8rk0br",
  "AlarmDefinitionName": "ARITECH ZONA ARMADA",
  "AlarmTime": "2024-02-09T16:25:37.193",
  "CameraName": "2 ENTRADA 2 ALMACEN SGSE (192.168.2.236)",
  "CameraGroup": "Ronda remota diaria 23H",
  "CameraGPSLatitude": 0,
  "CameraGPSLongitude": 0
}
```

- **Server:** Name of the XProtect server that generated the video file.
- **AlarmDefinitionName:** Name of the alarm definition configured in XProtect Management Client that triggered the alarm.
- **AlarmTime:** DateTime of the moment when the alarm occurred.
- **CameraName:** Name of the camera that recorded the exported video.
- **CameraGroup:** Name of the camera group that recorded the exported video.
- **CameraGPSLatitude:** Latitude of the camera's position for geolocation.
- **CameraGPSLongitude:** Longitude of the camera's position for geolocation.

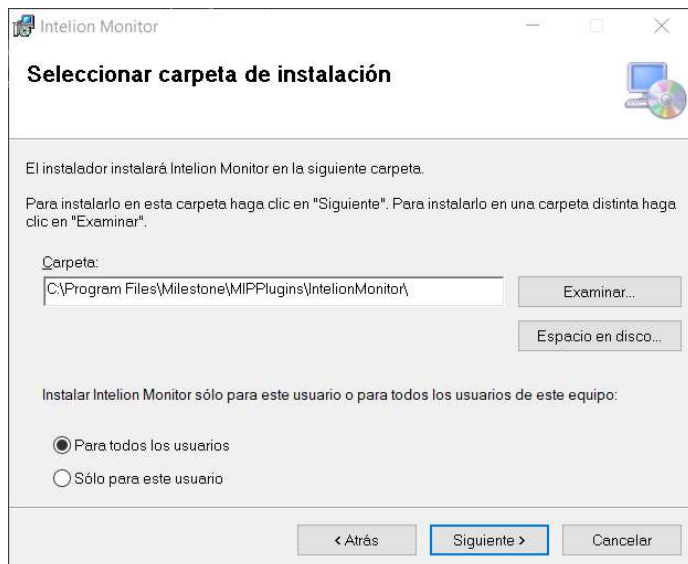
4. Installation

The installation of the plugin is simple; the configurator needs to execute the "IntelionMonitorPlugin.msi" file and follow the instructions that appear on the screen.

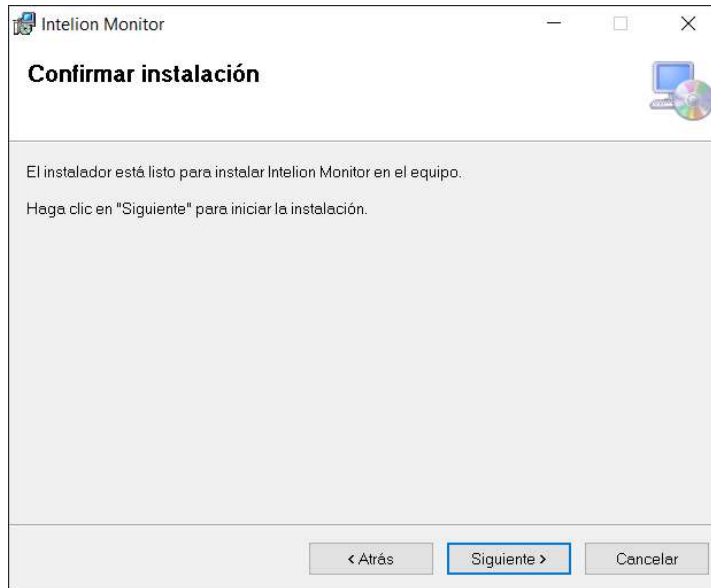
On the first screen, click "Next >".



On the next screen, it will be possible to modify the installation directory and install the software for multiple users or the current user.

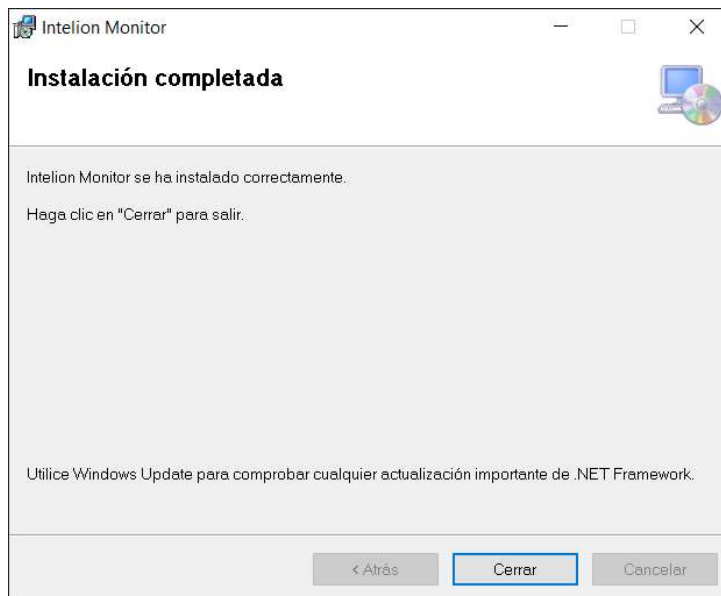


On the subsequent screen, confirm the installation:



The installer will request administrator permissions. The configurator must accept, and the installation will continue, displaying a progress bar.

Once the installation process is complete, the wizard will show the following screen:

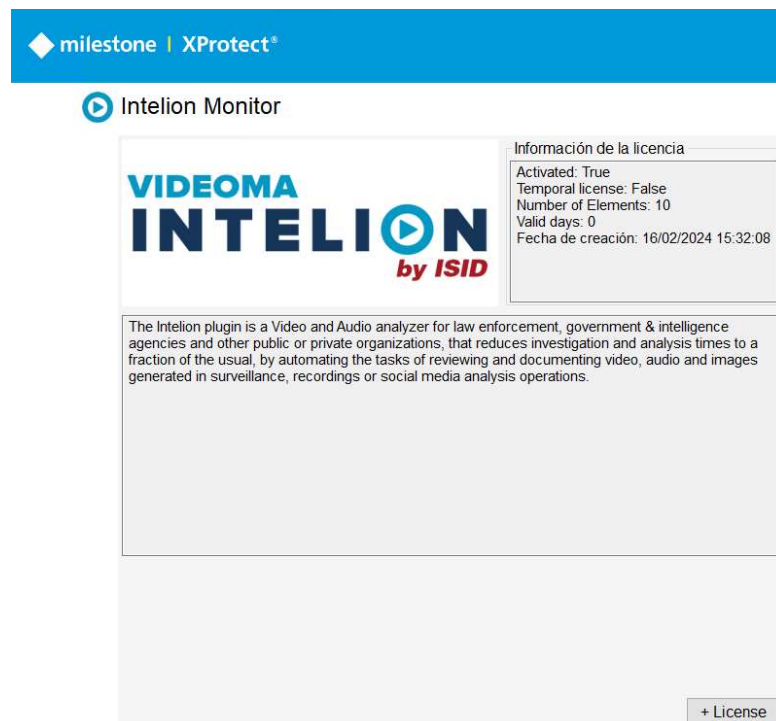


The configurator should click "Close," and the installation process will have concluded successfully.

If installed correctly, the Xprotect Management Client will display the following screen:



The configurator needs to provide the UID code to SGSE to receive the respective license. Once the license is installed, the plugin will be available:

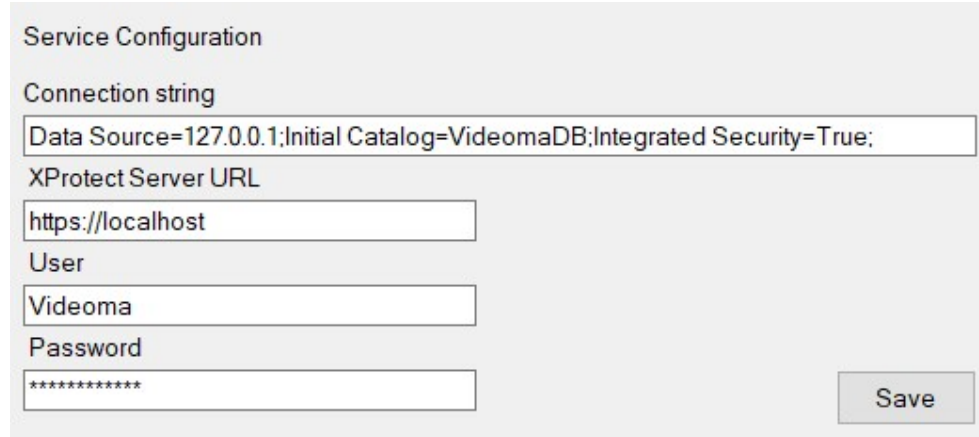


5. Configuration

Configuration in XProtect Management Client

The configurator will navigate to the Plugins section of MIP.

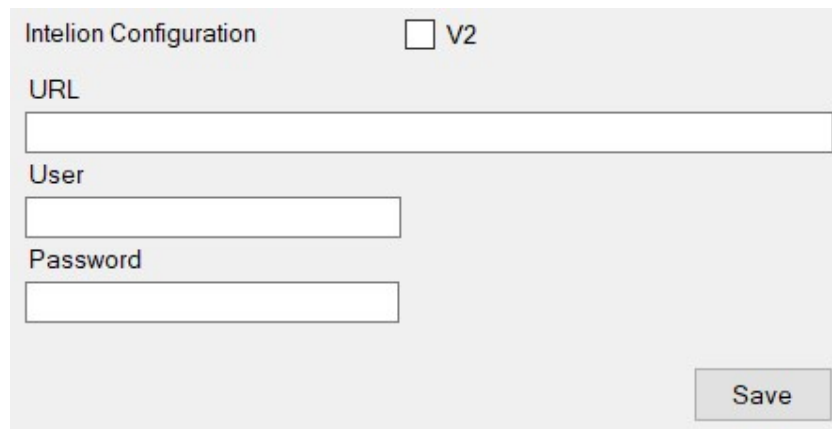
Firstly, the connection to the database and the XProtect server will be configured.



The 'Service Configuration' dialog box contains the following fields and controls:

- Connection string:** A text field containing 'Data Source=127.0.0.1;Initial Catalog=VideomaDB;Integrated Security=True;'. A 'Save' button is located to the right of this field.
- XProtect Server URL:** A text field containing 'https://localhost'.
- User:** A text field containing 'Videoma'.
- Password:** A text field containing '*****'.
- Save:** A button located at the bottom right of the dialog.

Secondly, the connection to the Intelion API will be configured.



The 'Intelion Configuration' dialog box contains the following fields and controls:

- Intelion Configuration:** A section header with a checkbox labeled 'V2' next to it.
- URL:** An empty text field.
- User:** An empty text field.
- Password:** An empty text field.
- Save:** A button located at the bottom right of the dialog.

V2 should be selected if the Intelion server has Apirest technology.

URL: The address from which data related to the directories assigned to Intelion for sending information is requested.

User: User credential with sufficient permissions to establish the connection and retrieve data.

Password: Password assigned to the user with sufficient permissions to establish a connection and retrieve data.

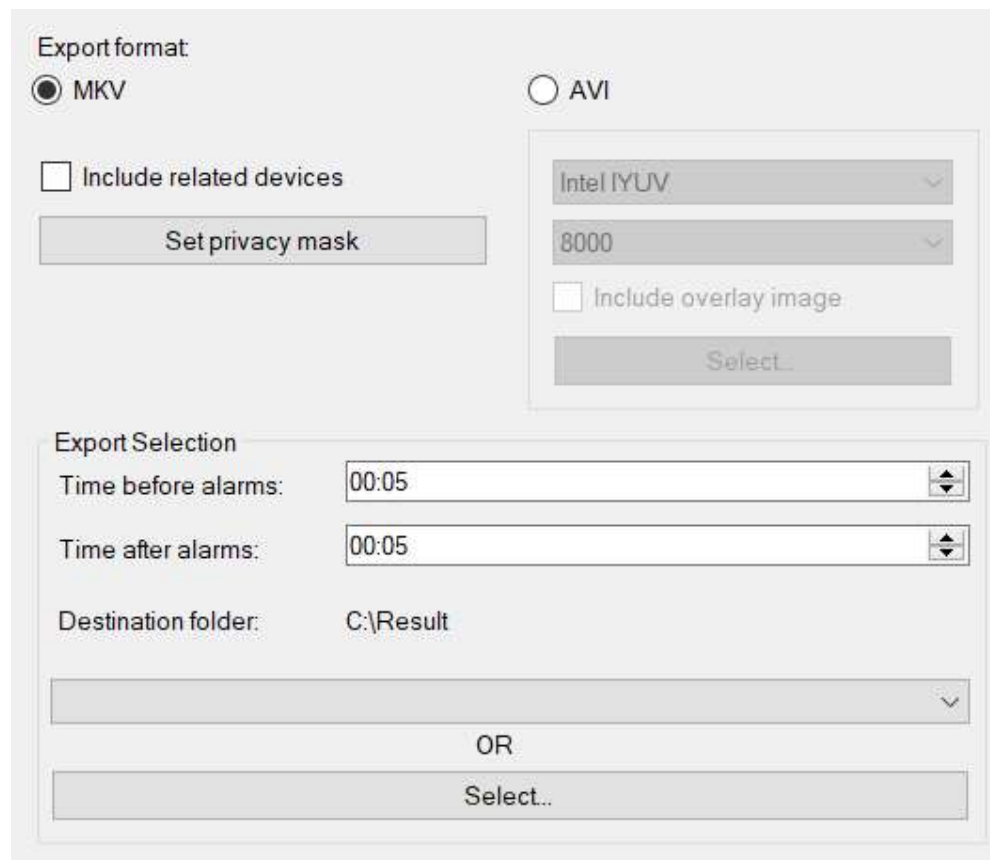
Next, the export profile will be configured.

There are two formats, the first being MKV, and the second is AVI. When selecting the desired format, you have the option to incorporate the privacy mask in the export, previously configured from the XProtect system.

If you have chosen AVI, you can configure the following parameters: Format, audio codec frequency, and include an overlaid image.

After making the appropriate selections, you must choose the time you want to retrieve before and after the alarm trigger. For example, you can retrieve 5 seconds of video before the alarm and 5 seconds after the alarm.

To finish, select one of the directories where the solution will store the video. At this point, you can choose one of the directories obtained from Intelion or select a directory from the server where the application is located (select this option only for testing purposes).



The screenshot shows the 'Export format' section of the Monitor Intelion configuration window. The 'MKV' radio button is selected, while the 'AVI' radio button is unselected. Below the radio buttons, there is a checkbox for 'Include related devices' which is unchecked, and a button labeled 'Set privacy mask'. To the right of these options, a panel for AVI settings is visible, containing a dropdown menu set to 'Intel IYUV', another dropdown set to '8000', an unchecked checkbox for 'Include overlay image', and a 'Select...' button. Below this panel is the 'Export Selection' section, which includes two time input fields: 'Time before alarms:' set to '00:05' and 'Time after alarms:' set to '00:05'. Below these is a 'Destination folder:' field with the text 'C:\Result'. At the bottom, there is a large dropdown menu with a downward arrow, followed by the text 'OR' and a 'Select...' button.

Thirdly, the alarms to be processed will be configured. On the left side, all the alarms enabled in XProtect will appear, and on the right side, you will input the alarms you wish to process.

Available alarm definitions	Monitored alarm definitions
Motion detected on Warehouse Definición de alarma	Definición de alarma Videoma
>> <<	

Once the above points are configured, when an alarm associated with the previously configured alarm definitions for monitoring occurs, you can visualize the triggered export tasks, one for each associated camera, in the following list.

Filters

☒ Pending/Running
 ☐ Completed
 ☐ Error

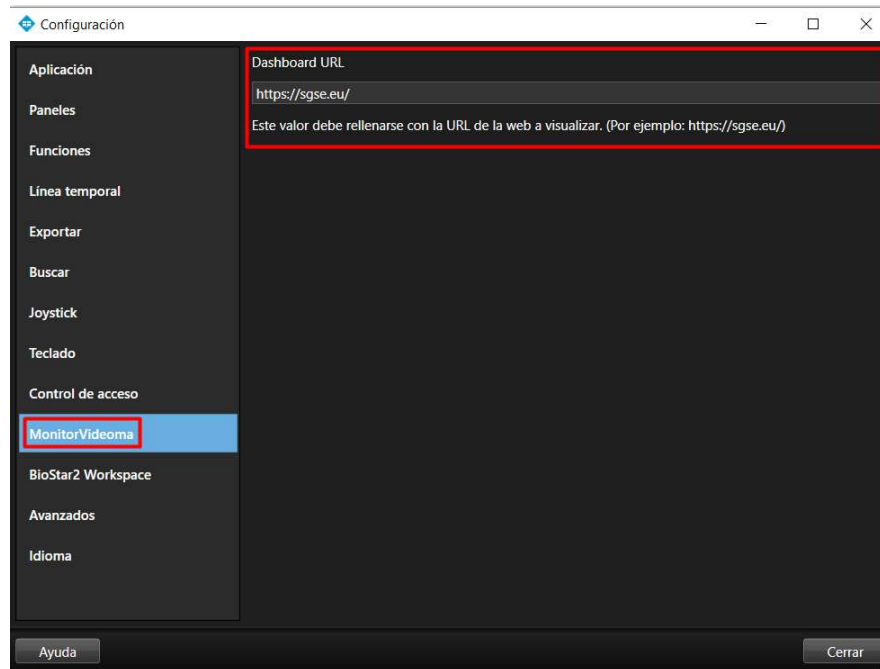
Id	Alarm	Camera	Alarm Start	Alarm End	Status	Message	Progress	File
----	-------	--------	-------------	-----------	--------	---------	----------	------

Filters will allow you to view the information in a more comfortable and efficient way.

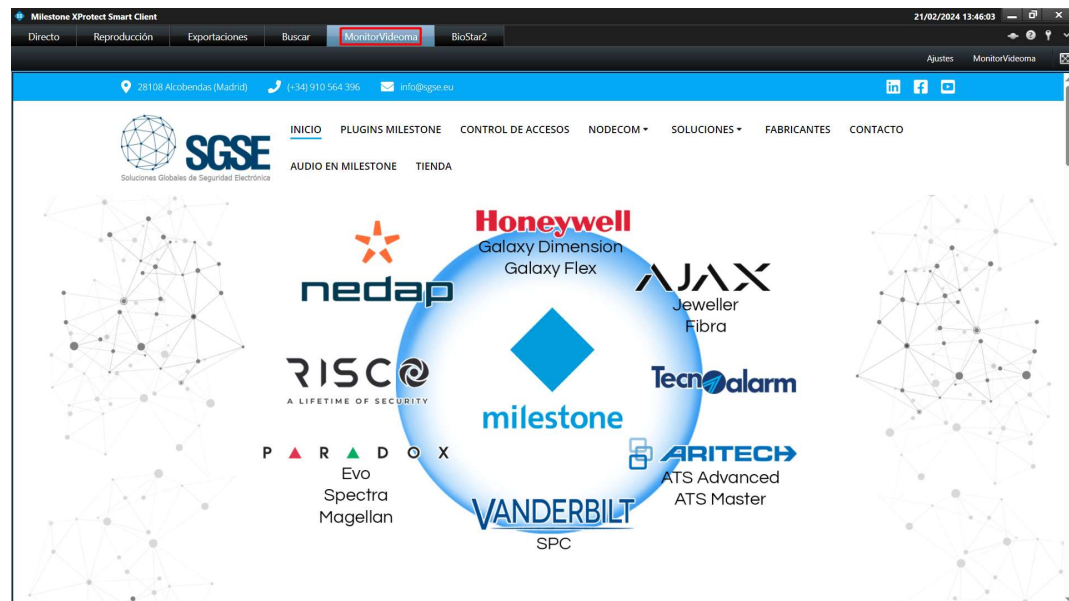
Configuration in XProtect Smart Client

The integration allows for viewing a previously configured web directly in the XProtect Smart Client.

To do this, go to the configuration section of XProtect Smart Client and navigate to the "VideomaMonitor" section.



Once the configuration is closed, from the top tab "MonitorVideoma," you can view the configured web.



XProtect Events

The plugin will also have the following events, which can be used to configure rules.

