

imotion Analytics: iA Smart City Counter plug-in

User Manual

Version 1.0

Updated January 2023

Legal Information

About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the company website. Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Trademarks

Trademarks and logos mentioned are the properties of their respective owners.

Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". OUR COMPANY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL OUR COMPANY BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF OUR COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS. YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND OUR COMPANY SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, OUR COMPANY WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED. YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

Contents

1. Description	4
2. Installation.....	4
2.1. Install the plug-in.....	5
5.2. Install imotion Analytics Apolo.....	6
6. Connecting XProtect Management Client with imotion Analytics Apolo	6
7. Displaying the Counter in XProtect Smart Client	7
8. imotion Analytics tab	9
9. Alarms	9
10. Search Agent.....	9

1. Description

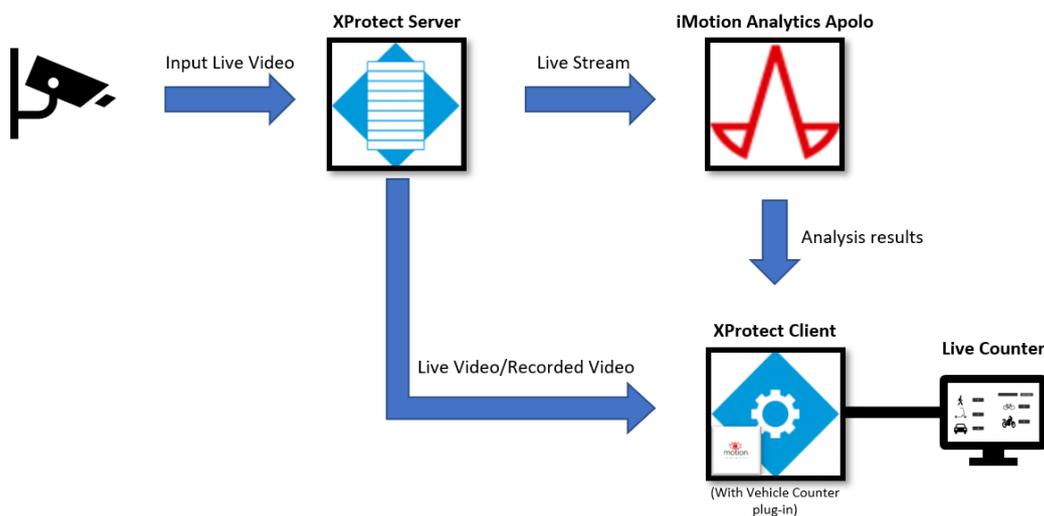
This solution is a video content analytics software that quickly and accurately analyses live/recorded video content from network cameras. This product has the following functionalities:

- Real Time counter: count incoming and outgoing bicycles, electric scooters, cars, motorcycles and pedestrians within an area.
- Real Time alerts: you can customize this product to trigger alarms when an unauthorized access happens, i.e. when a type of vehicle enters an specific area.
- Replay and search recorded events: you can filter your search by date, timeframe, camera, type of vehicle and type of event.
- Integration with our cloud service: Access to your analytical data through our Business Intelligence system with web access from Milestone XProtect Client.

2. Installation

The system of this solution consists of 1) **Network Camera**, 2) **Xprotect Server** for video management, 3) **imotion Analytics Apolo** for analysing the data, 4) **XProtect Client** running the **IA Smart City Counter plug-in** to show the counter and other functionalities.

- It is necessary to install “imotion Analytics Apolo” and “IA Smart City Counter” plugin.
- It is possible to configure 2) XProtect Server, 3) imotion Analytics Apolo, and 4) Smart Client on the same PC.



2.1. Install the plug-in

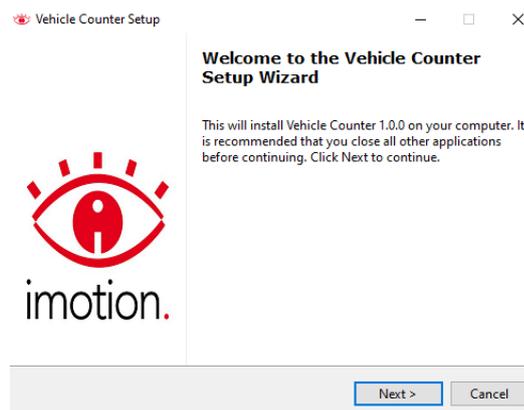
The IA Smart City Counter plug-in is responsible of receiving data from imotion Analytics Apolo and display it in the Smart Client. Here is a step-by-step guide on how to install it.

Before You Start

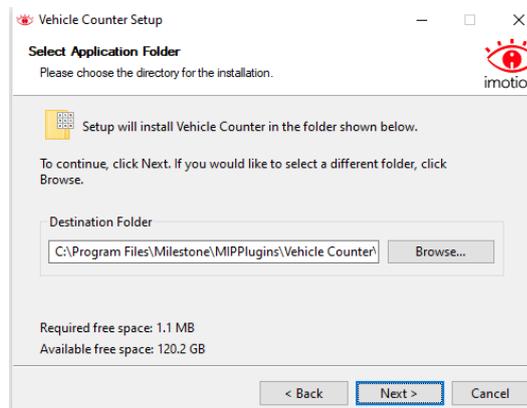
Make sure you have installed Milestone XProtect Management Client. For further details about the installation of the Management Client, refer to the User Manual of Milestone XProtect VMS.

Steps

1. Download the IA Smart City Counter installer and open it.
2. Click **Next** to begin the installation

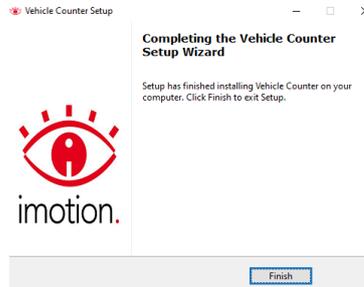


3. Click **Browse...** to select a proper directory as the location to install the plug-in.



Note: For version 2021 R1, the default installation location, defined by Milestone, is: C:\Program Files\Milestone\MIPPlugins. For other versions of the Milestone XProtect client software, contact the Milestone technical support to get the default installation location of the plug-ins.

4. Click **Next** to install the files.
5. A message indicating a correct installation will prompt. Click on **Finish** to close the installer.



5.2. Install imotion Analytics Apolo

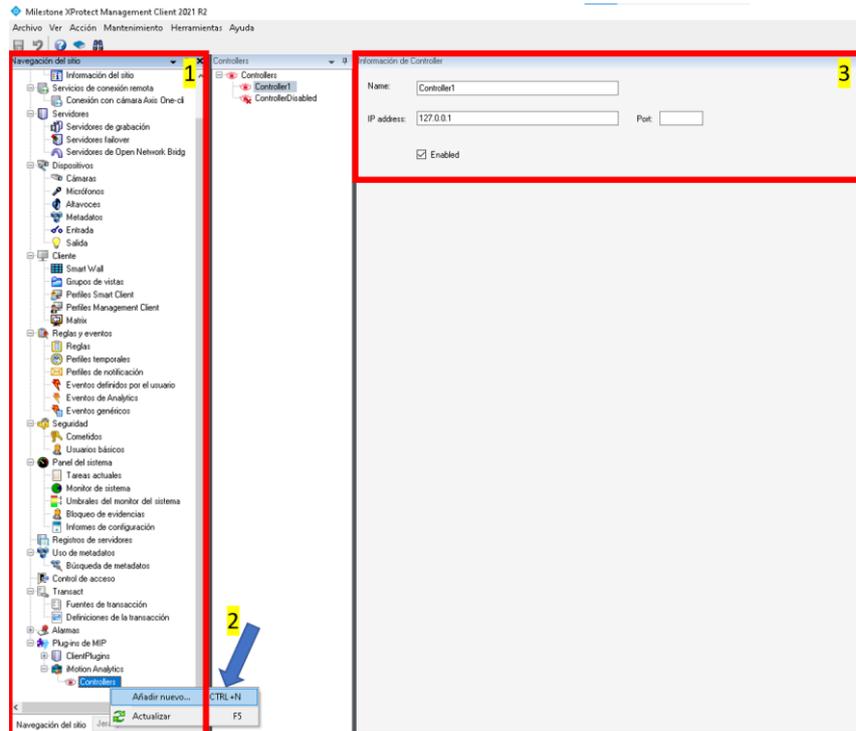
imotion Analytics Apolo is an analytics software that will provide all the analytical data to the XProtect Client. If you want to get this software installed, please contact with imotion Analytics staff: info@imotionanalytics.com

Note: This product is **mandatory** for the plug-in to work.

6. Connecting XProtect Management Client with imotion Analytics Apolo

Steps

1. Launch XProtect Management Client.
2. In the navigation tab **(1)**, expand the "MIP Plug-ins" section and then the imotion Analytics section. Select "Controllers" and create a new controller (right click on controller icon, "add new" **(2)**). Fill the controller information **(3)**, this has to match with Apolo's configuration.

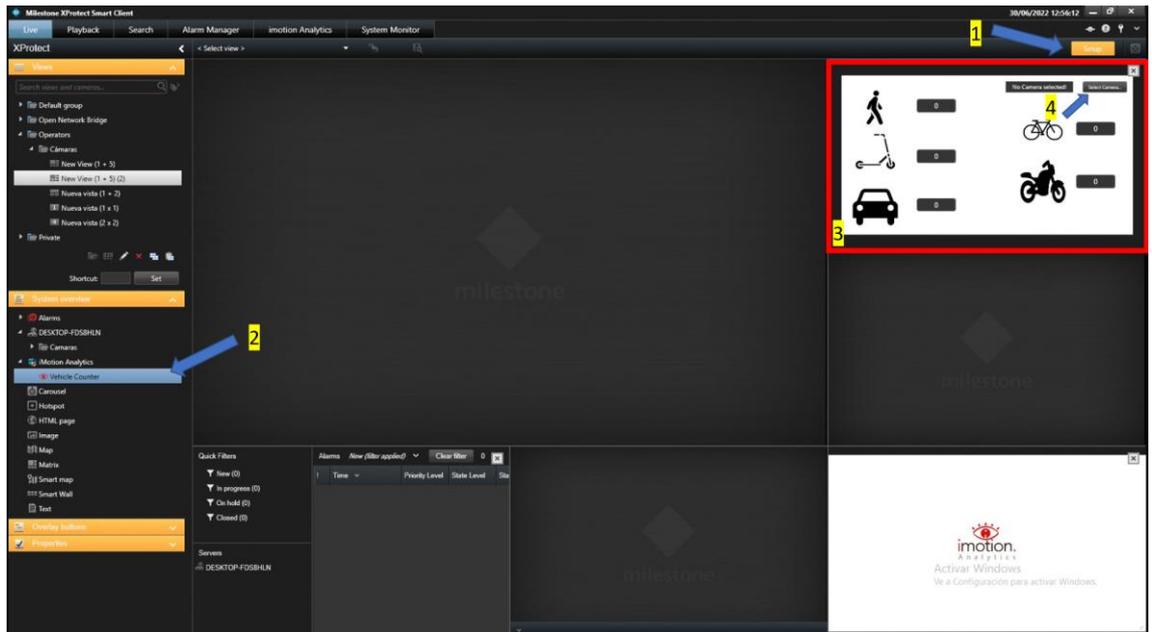


7. Displaying the Counter in XProtect Smart Client

For displaying a live counter, follow these steps:

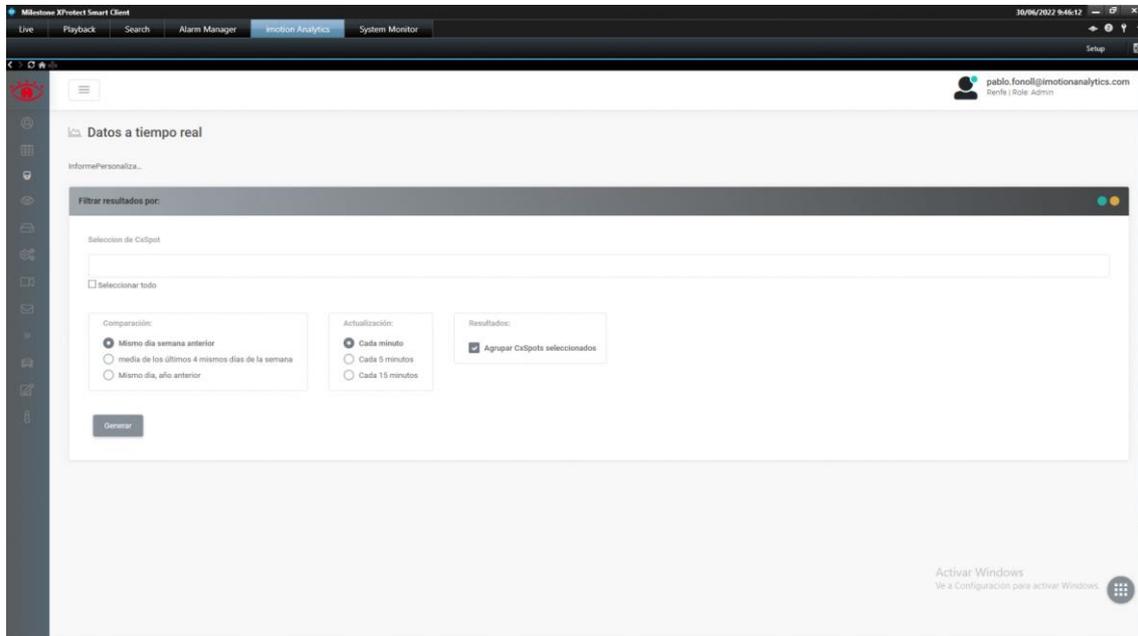
Steps

1. Launch XProtect Smart Client.
2. Click on “Setup”. **(1)**
3. On “System Overview” tab, expand “imotion Analytics” and drag the item “Live Counter” **(2)** into one of the windows. **(3)**
4. Exit from setup mode by clicking again on “Setup”. **(1)**
5. In the Live Counter item, click on “Select Camera” **(4)**. An item picker showing all available devices will show up. The counter will show information about the selected device.



8. imotion Analytics tab

In the XProtect Smart Client, you will find the tab “imotion Analytics”. In this tab you can access imotion’s cloud service, this service is called Hydra. Contact our support team to learn all the available features!



9. Alarms

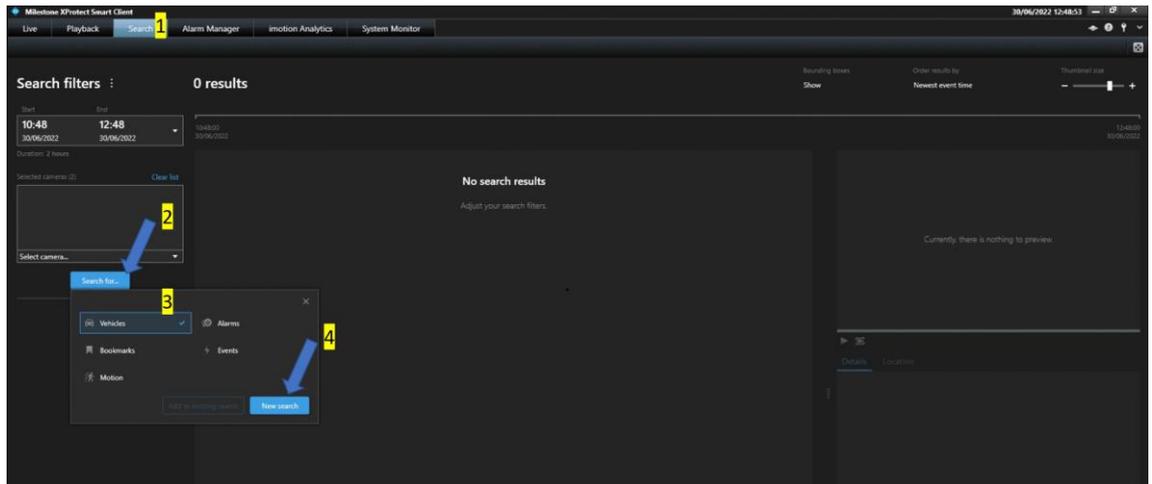
You can set alerts on your imotion Analytics Apolo instance from the web (Check the previous chapter on how to access Hydra). When these alerts are triggered, they will appear on the Smart Client application, in the Alarm Manager tab. From there, you can check detailed information about the alert and you can watch a playback video from the camera that triggered the alert.

10. Search Agent

This plug-in also has integration with the search agent. This functionality allows you to search for vehicles in the recordings. You can filter by object, device and time period.

Steps

1. Launch XProtect Smart Client.
2. Click on “Search” tab. **(1)**
3. Click on “Search For” button. **(2)**
4. Select “Vehicles” **(3)**, and click on “New Search”. **(4)**



5. Select the objects you want to search. (5)

