



User Manual

2021, Metz

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Introduction

Two-i is a video-protection software based on Artificial Intelligence. This solution has been developed thanks to computer vision technology, in order to manage video sequences potential, and to provide relevant and exhaustive information quickly.

Equipped with many features and compatible with the already-existing security infrastructures, Two-i offers a complete and efficient video-protection use.

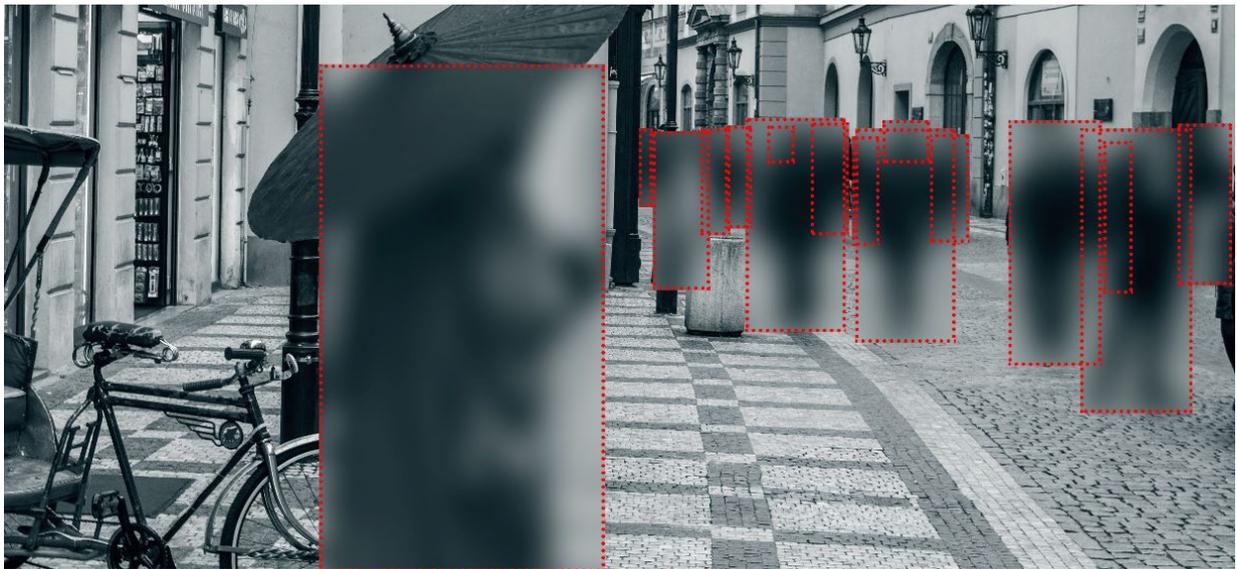


COMPLEX MADE SIMPLE

Two-i software solution has been specifically designed for safety, connectivity, and proactivity of the nowadays perimeters, facilitating issue solving from road & waste management to benchmarking the wellbeing levels of the neighbourhoods.

GLOBAL CONTROL CENTRE

Two-i has an ability to collect and aggregate results from multiple territories on one platform and one place.

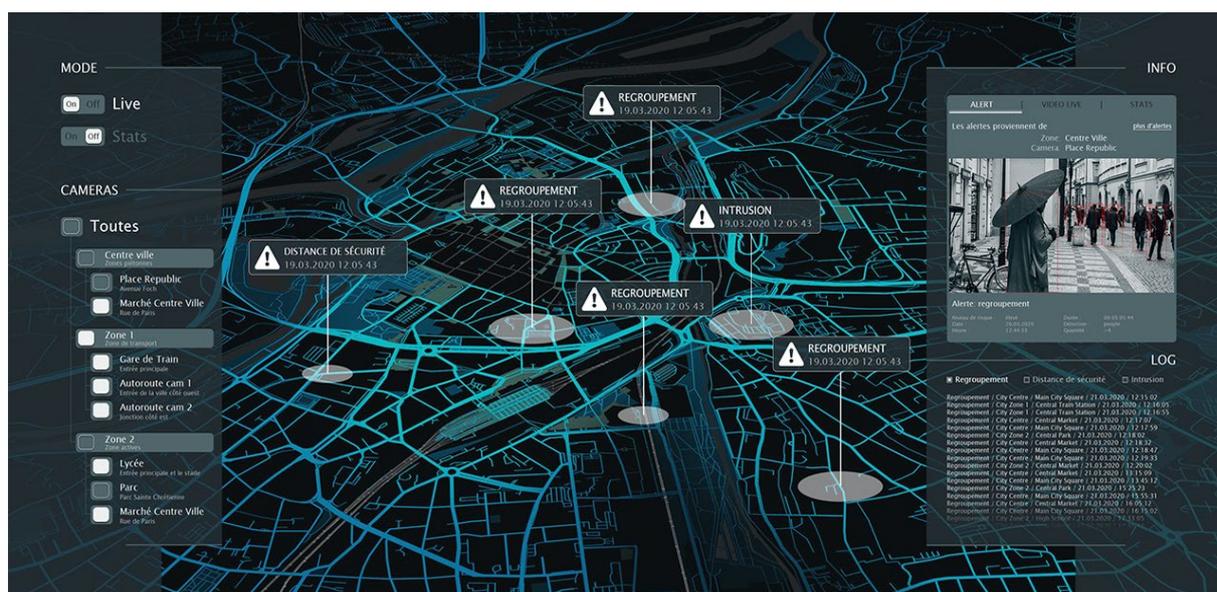


EXTENDABLE PLATFORM

The software and the hardware were created to be scalable. It is possible to add high volume of cameras without impacting the user's network/performance or already existing video management system in place.

ALGORITHMIC HEART

The compute unit has been built to integrate algorithms on the fly. It can power all the algorithms currently developed by Two-i, as well as on-demand or third-party algorithms.

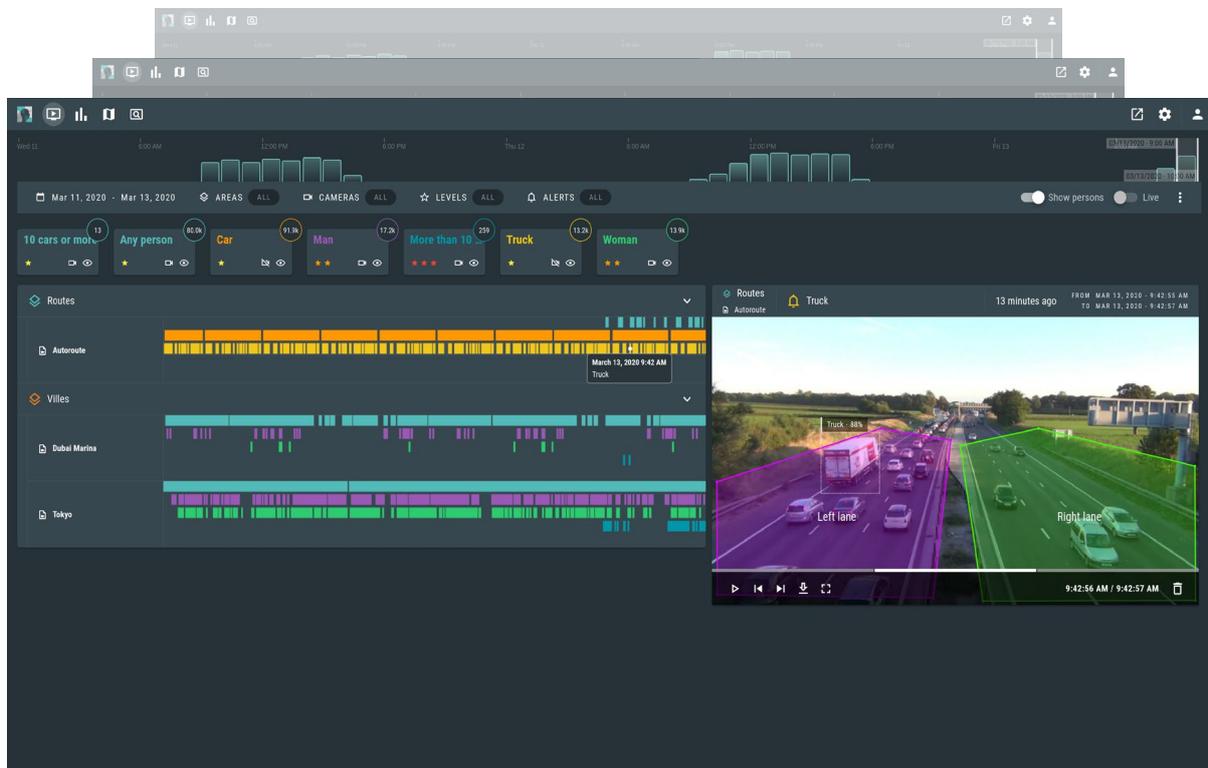


Main features

LIVE page

The LIVE page is a real-time notification and alert system. It allows the user to set up custom criteria for triggering the alerts or notifications and choose the zone(s) of interest.

A zone can refer to a spot in an image frame or to the field of vision of one or several camera(s). The alerts can also be sorted according to risk levels, cameras, zones, and time frames.



STATS Page

The STATS page enables data aggregation and analysis through space and time. It enables the user to choose the data that are relevant to them (according to demographic criteria, for instance).

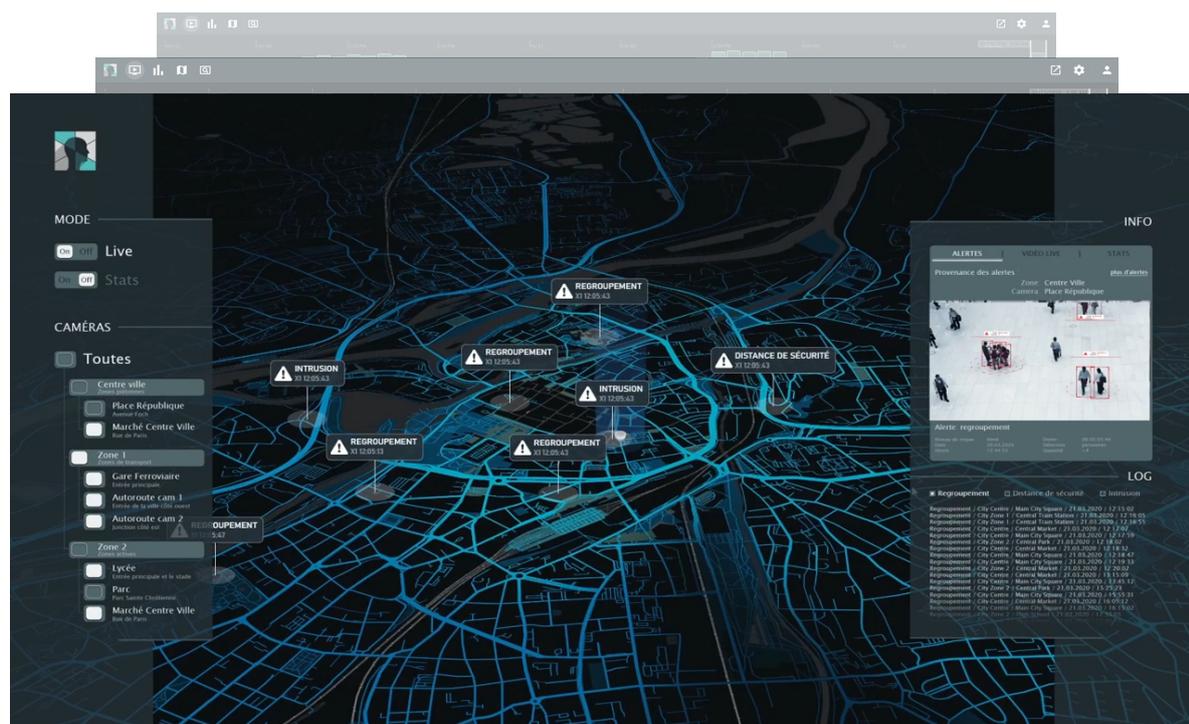
The algorithms are in continuous operation; therefore, the user can have access to all the available statistics whenever they need them.



MAP Page

The MAP page is a cartographic geolocation display system. It offers a visualization of the Live alert system as well as an elaborate statistical representation of large territories such as metropolises.

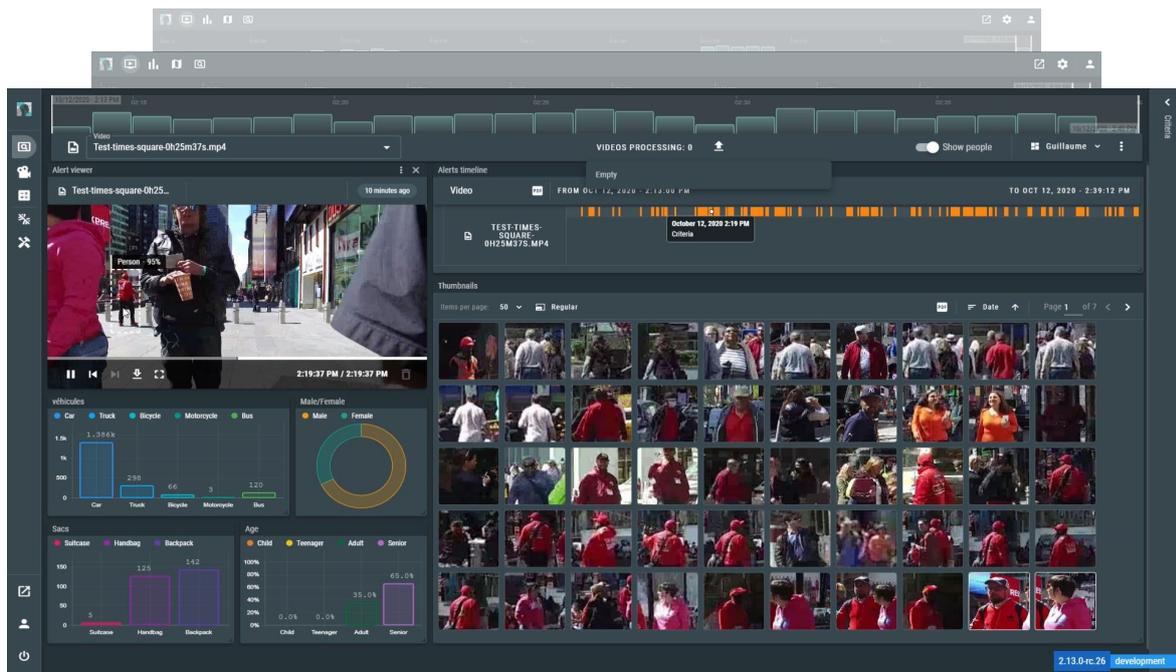
As soon as a substantive event occurs, a virtual billboard appears, specifying the alert type and the exact place where the event occurred.



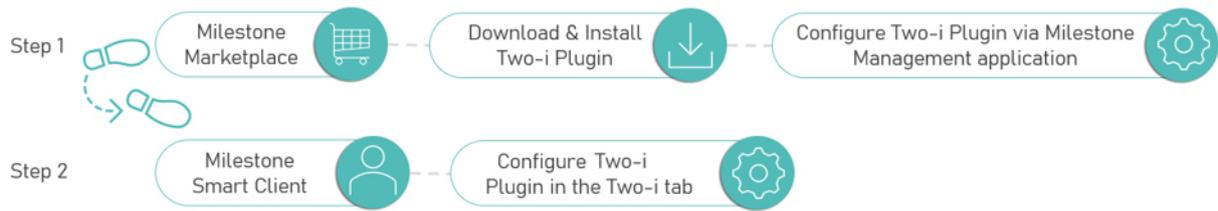
SEARCH Page

The SEARCH page is a video search system, which processes already existing video footages and enables the user to extract the elements they are looking for (object type or specific colour, for instance).

It allows the user to save a tremendous amount of time when looking for a specific element in video footages that last hours or days.



Getting started



System requirements

Here are the main system requirements:

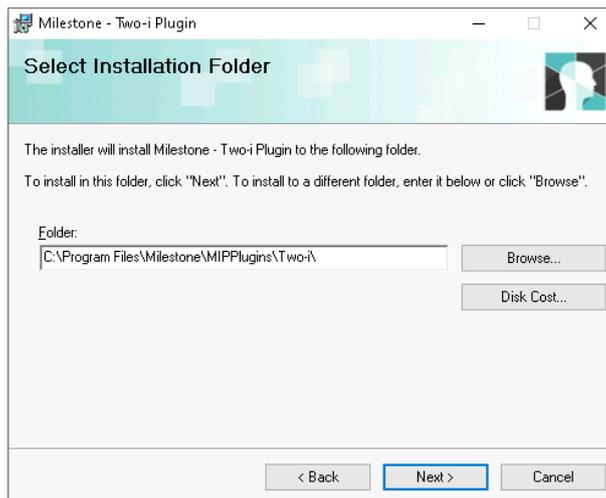
- Windows OS 8.1 or above
- Milestone XProtect Smart Client. [Link](#)
- Milestone XProtect Management client. [Link](#)
- At least one Two-i server already setup, with a running solution.
- A dedicated account for Milestone on the Two-i software.
- The Two-i Plugin.

Installation

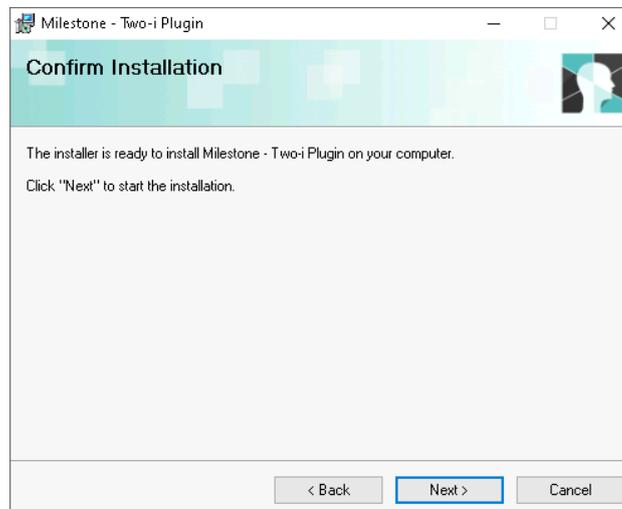
- Start the installation by running the setup.exe file of the Two-i Plugin for Milestone.



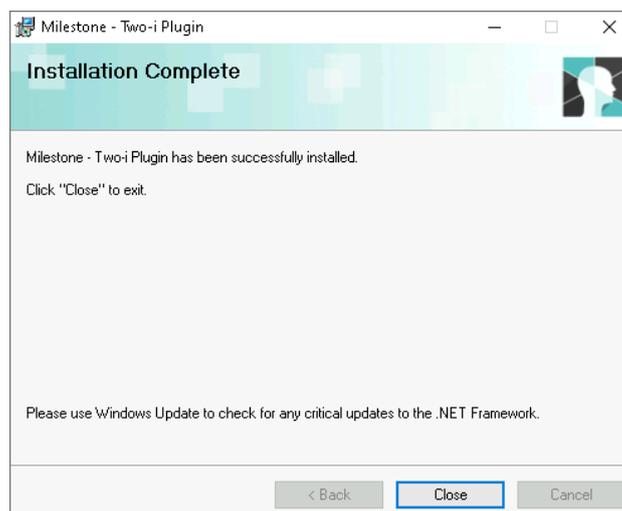
Then click on “Next”.



- Choose the path where Milestone is installed, by default it should be C:\Program Files\Milestone\MIPPlugins\Two-i and press the “Next” button.



- Once the installation process is completed, the Two-i Plugin will be ready for adding the server.



Configuration

MILESTONE TO TWO-I SETUP

Navigate to Milestone XProtect Management Client, and login to the management interface.

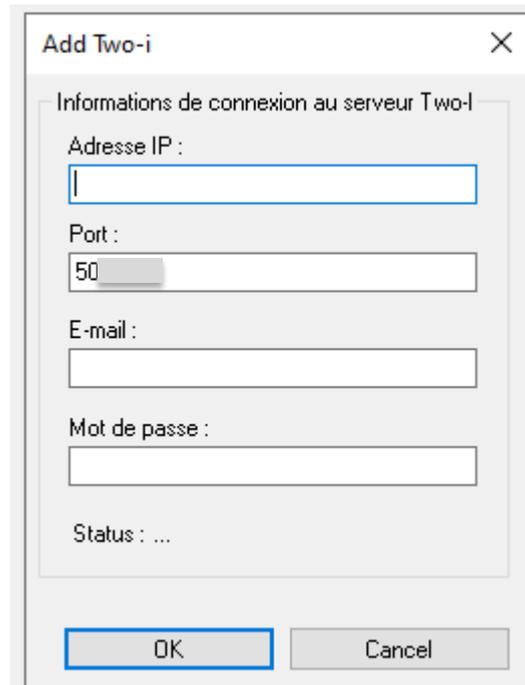
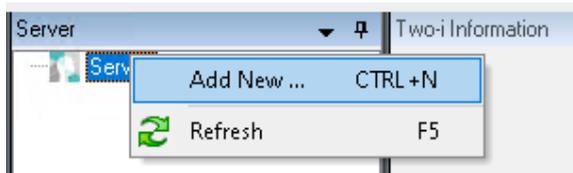
On the left pane, go to the **"MIP Plugins"** menu, expand the menu to access the **"Two-i"** sub-menu, then expand it as well to access the **"Server"** menu.



Then, on the middle pane, right click on the **"Server"** item, then click on **"Add new"**.

A dialog window should appear, asking you to fill in the following fields:

- IP Address
- Port
- E-mail
- Password

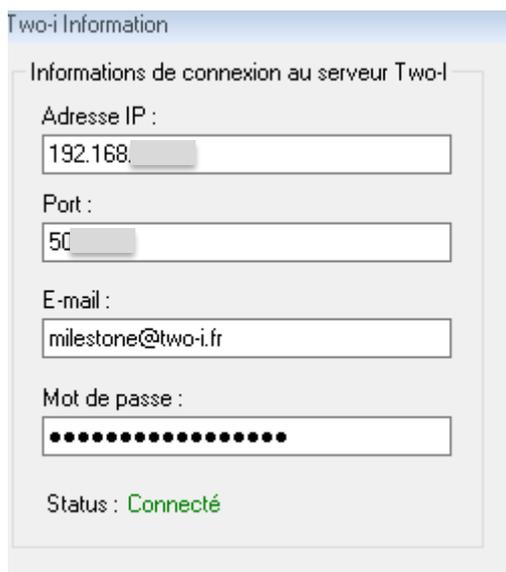


A screenshot of the 'Add Two-i' dialog box. The title bar reads 'Add Two-i'. The main area is titled 'Informations de connexion au serveur Two-i' and contains four input fields: 'Adresse IP :', 'Port :', 'E-mail :', and 'Mot de passe :'. The 'Port' field has the value '50' entered. Below these fields is a 'Status : ...' label. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Fill in the requested fields then press the “Ok” button, as an example, here is what we will use:

- IP Address: **192.168.XX.XX**
- Port: **XXX**
- E-mail: **milestone@Two-i.fr**
- Password: **milestone**

Now you should see the server with the status **"Connected"**.



The screenshot shows a dialog box titled "Two-i Information" with a subtitle "Informations de connexion au serveur Two-i". It contains four input fields: "Adresse IP :" with the value "192.168.", "Port :" with the value "50", "E-mail :" with the value "milestone@two-i.fr", and "Mot de passe :" with a masked password of 12 dots. At the bottom, the status is displayed as "Status : Connecté" in green text.

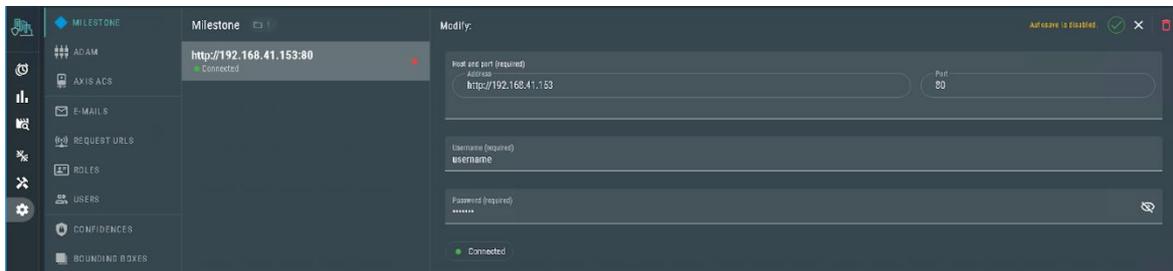
TWO-I TO MILESTONE SETUP

Once the server is connected, access the **Smart Client** interface, and go to the **“Two-i”** tab.

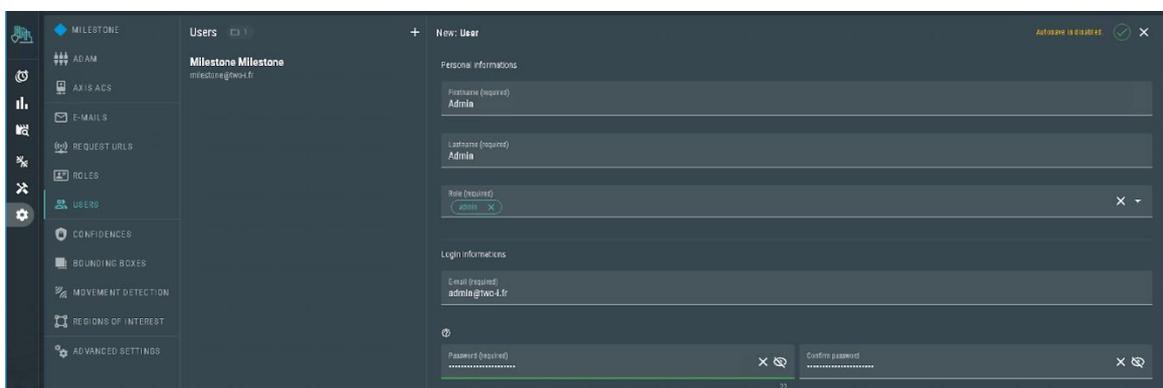
On the Two-i login form, use the identifiers previously entered to access the software.

Once connected, access the software settings, and configure access to the Milestone server, you must enter these fields:

- **Host and port:** The Milestone server IP, with http protocol.
- **Username:** The Windows username or basic username used to access Milestone.
- **Password:** The password associated to the username used to access Milestone.



When authentication is successful, go to the **"Users"** configuration tab, then create a user to access the interface of Two-i software.

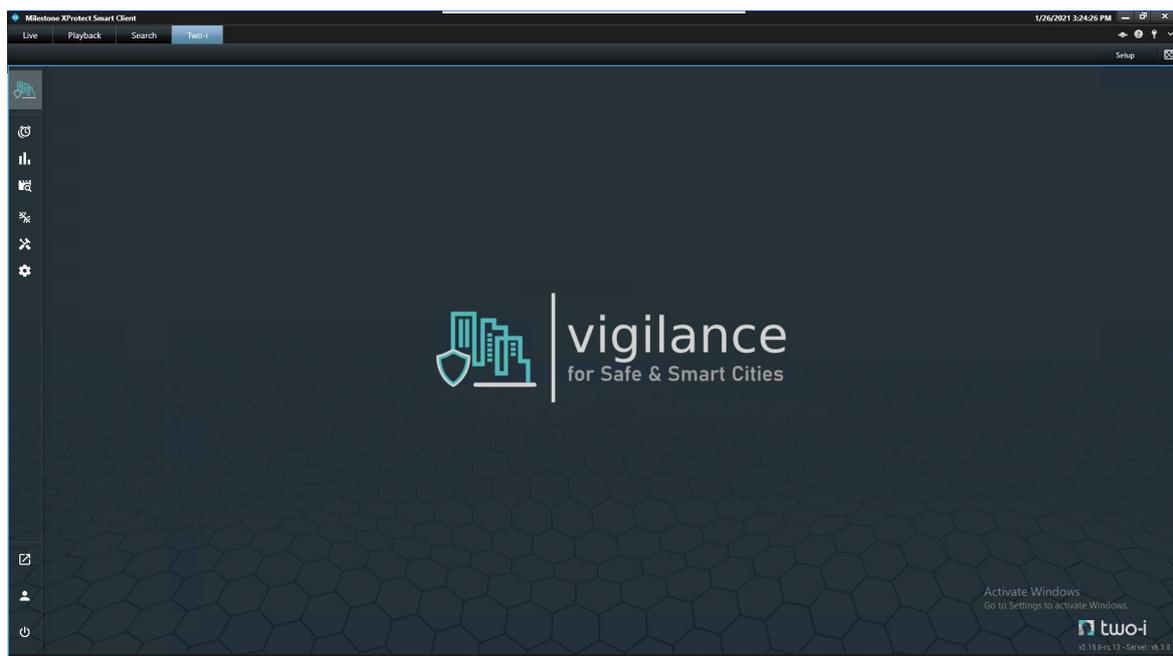
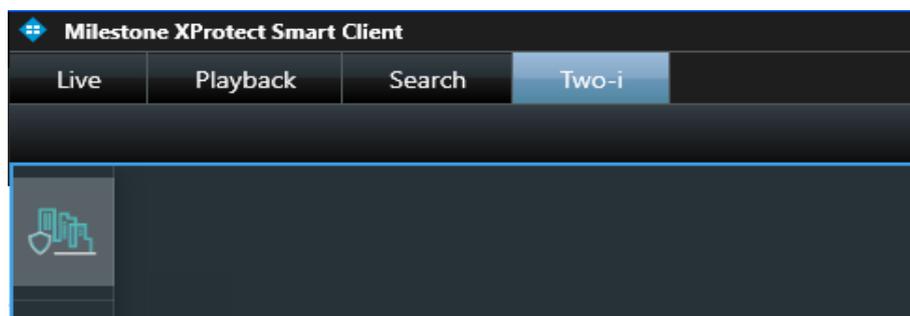


WARNING: Once the new user is created, you must disconnect the Milestone user from the Two-i interface, and you must not reconnect to this user. It is exclusively used for the first connection to the Two-i interface, the configuration of the Milestone server, and the creation of a user. If you are still using this user, you may encounter some data synchronization problems.

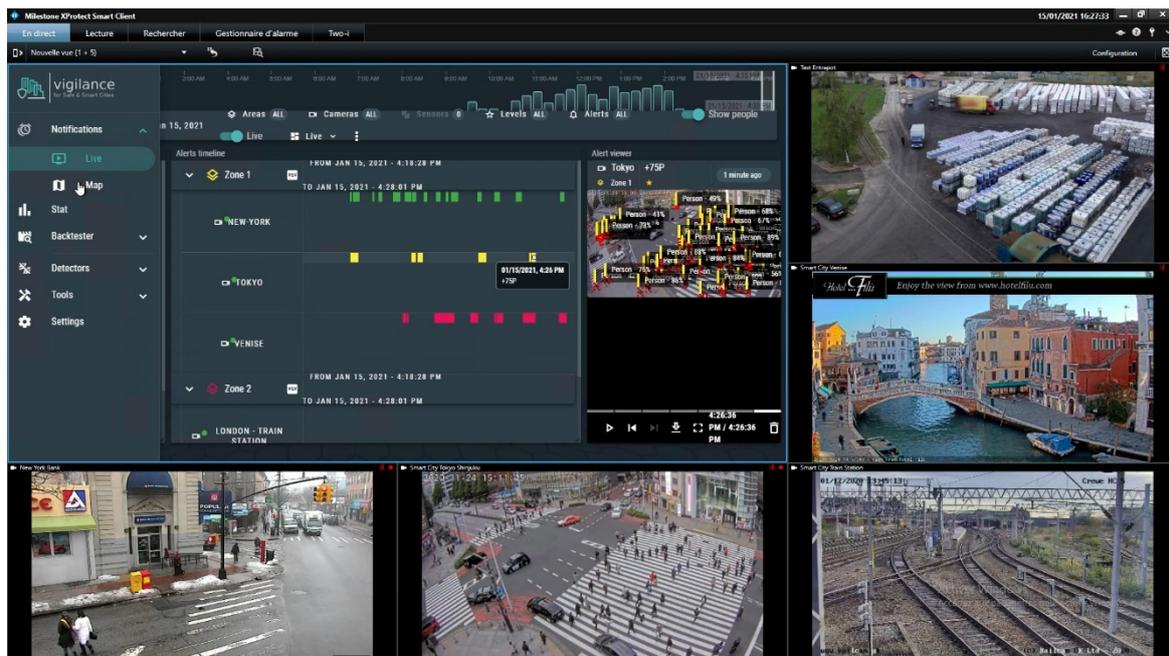
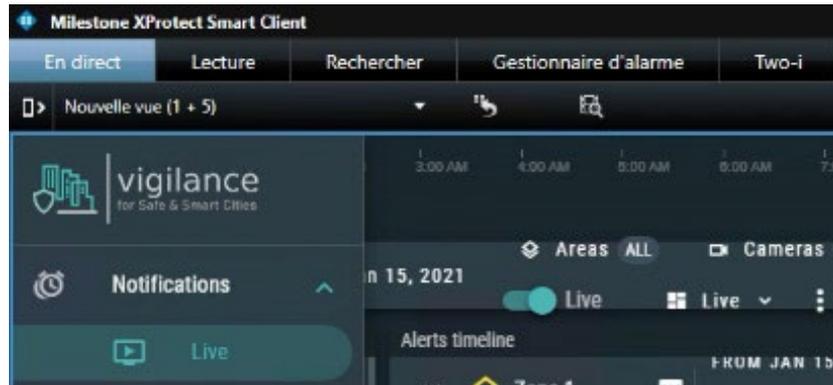
Usage

Once the server is configured in the Milestone management interface, you can access the Smart Client interface. There you will see a "Two-i" tab that will allow you to access the dedicated interface of the Two-i software. The alerts configured in the Two-i solution will be automatically imported into Milestone XProtect Management Client.

The users have a flexibility to choose either immerse themselves into fully Two-i provided solution like this:

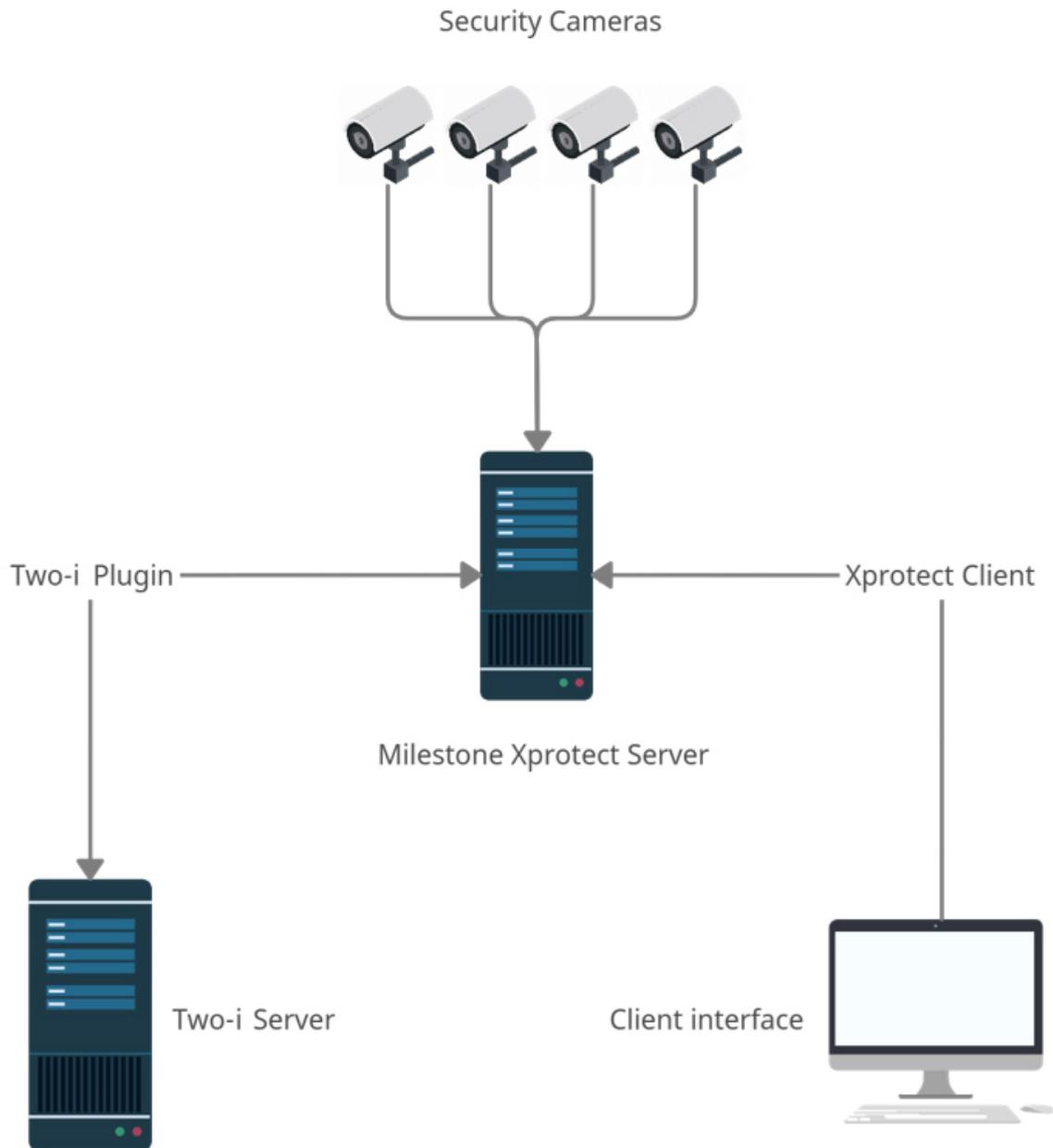


Or choose to use a hybrid solution (half-Milestone, half-Two-i) like this:



SYSTEM INTRODUCTION

The Milestone server and the Two-i server communicate via the Two-i Plugin, which facilitates connection to the cameras and displays alerts.





Two-i is a tech company specialized in software development using Computer Vision technology for video content analysis. Two-i was founded in 2017 with headquarters in Metz, FRANCE.

Two-i received the 2019 Milipol Innovation Awards for Safe & Smart Cities.

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