Invissys InviThings Module for XProtect

Setup and User Guide

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Prerequisites

Software and Licensing

Microsoft System Requirements

- Microsoft® Windows® 10 Pro (64 bit)
- Microsoft® Windows® 10 Enterprise (64 bit)
- Microsoft® Windows® 10 Enterprise LTSB 2016 (version 1607 or later)
- Microsoft® Windows® 10 IoT Enterprise, version 1803 or later (64 bit), IoT Core

- Microsoft® Windows® Server 2016 (64 bit): Essentials, Standard and Datacenter
- Microsoft® Windows® Server 2019 (64 bit): Essentials, Standard and Datacenter

Milestone XProtect System Requirements

- XProtect Express+, Professional+, Expert, Corporate 2020 R1 (20.1a) or above

- Milestone Event Server
    - The Event Server is included as part of you Milestone installation. ***Note*** ***If this component has not been installed with your version follow the steps found in troubleshooting at the end of this document.***

- Milestone License
    - No additional license is required for Milestone for this integration

Invissys InviThings Requirements

- iot.invissys.fr account with connected devices

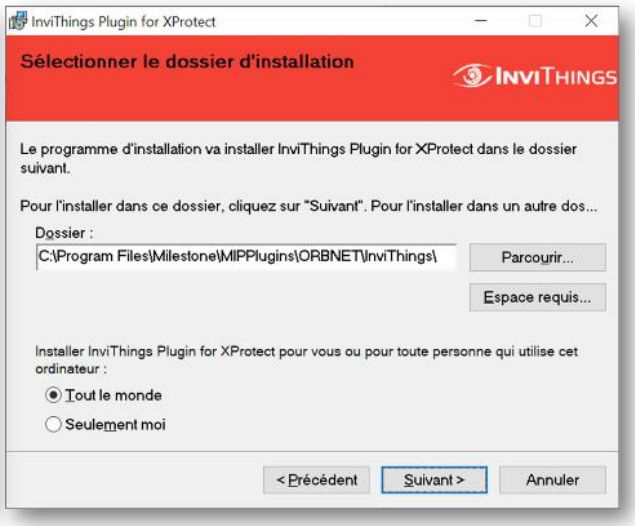
- Organisation ID, Application ID and Token used to connect to iot.invissys.fr

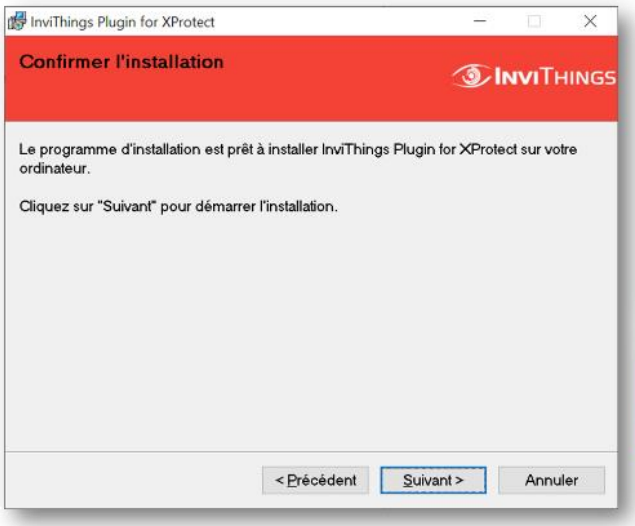
- Installer – '`Invithings Plugin XProtect Setup.msi`'

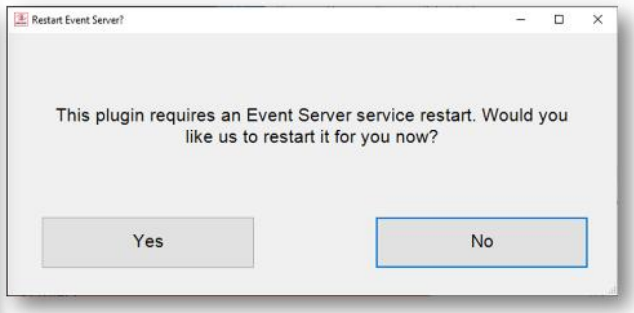
- License – No license required for this integration

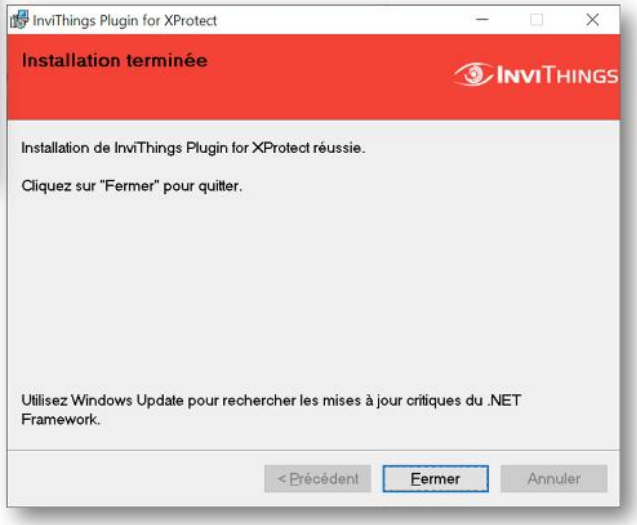
Installation of Invissys InviThings Module for XProtect

Begin with the server/machine running the XProtect Management and Event Server. Close any open Milestone Management Clients first. Place the **'Invithings Plugin XProtect Setup.msi'** in a folder on the desktop and double click and select 'Install.' During installation, a window will appear behind the installer to request restart of the Milestone Event Server.







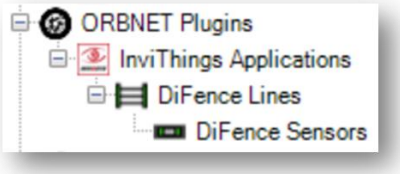


Configuration

Milestone Management Setup

This integration allows for your Invissys InviThings system to be directly connected to Milestone's XProtect VMS (Video Management Software). It is designed to fit perfectly with any XProtect system. No matter your installation size, with XProtect you can control your video cameras and Invissys InviThings system from a central interface in the Milestone Management and Smart Client applications.

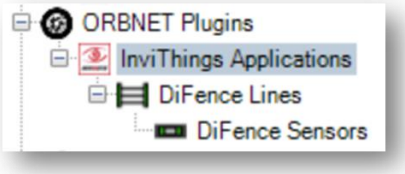
Find and Select `ORBNET Plugins` in the Milestone Management client tree menu.



Invissys InviThings Connection

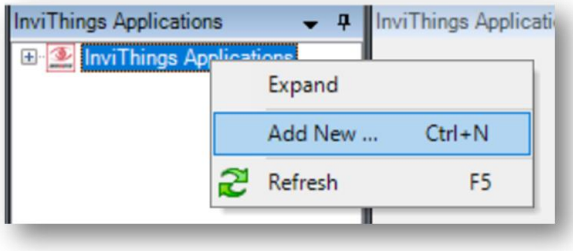
For each system you will need the Organisation ID, Application ID and Token used to connect to iot.invissys.fr. This will be entered into Milestone to connect the system to the XProtect system.

Select InviThings Applications from the ORBNET Plugins tree menu.



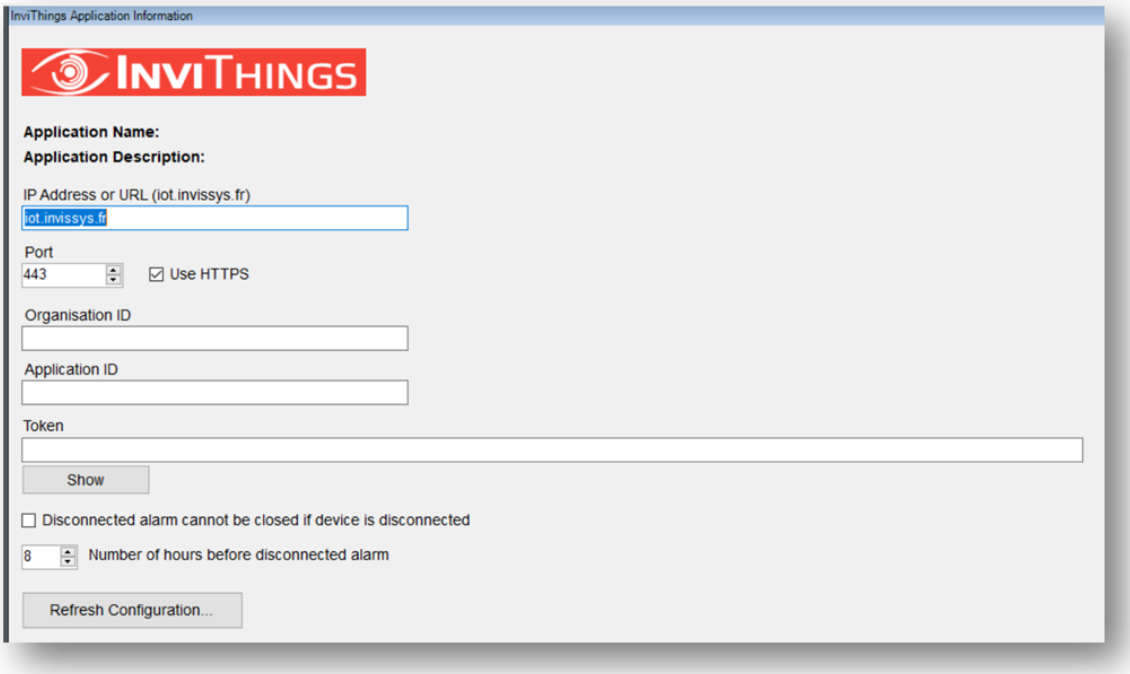
From the menu on the right you can add, remove, and manage the connected applications.

Right click the `InviThings Applications` text to access the `Add New` option.

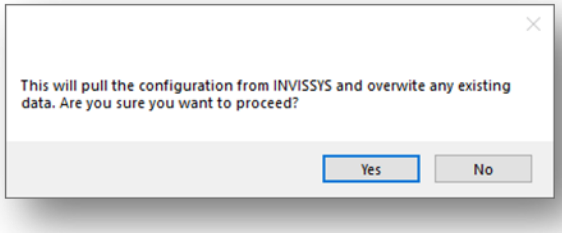


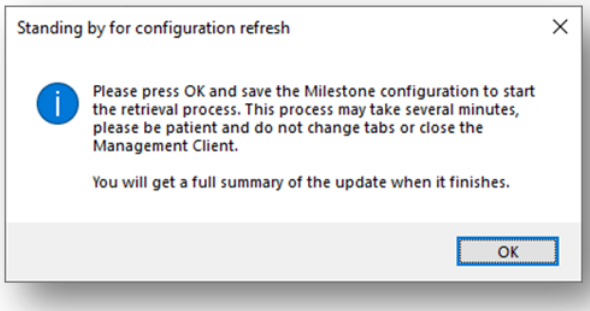
A new application will be added to the list. This section covers the connection details.

- **Application Settings**
  - IP Address or URL (iot.invissys.fr) – Only change if instructed to do so by Invissys.
  - Port - Default 433 with Use HTTPS ticked.
  - Organisation ID – Used to sign into IoT Invissys account.
  - Application ID – Used to connect to the relevant site from IoT Invissys account.
  - Token – 225-character authentication token for site from IoT Invissys account.
    - Show / Hide – Used to show or hide the token
  - Disconnected alarm cannot be closed if device is disconnected – As default this option is unticked, this would be used where an offline alarm is treated as critical.
  - Number of hours before disconnected alarm – How many hours since last signal from device is used to trigger disconnected alarm.
  - Refresh Configuration -Used to add an application or when changes are made to a sites system (i.e. new sensor).

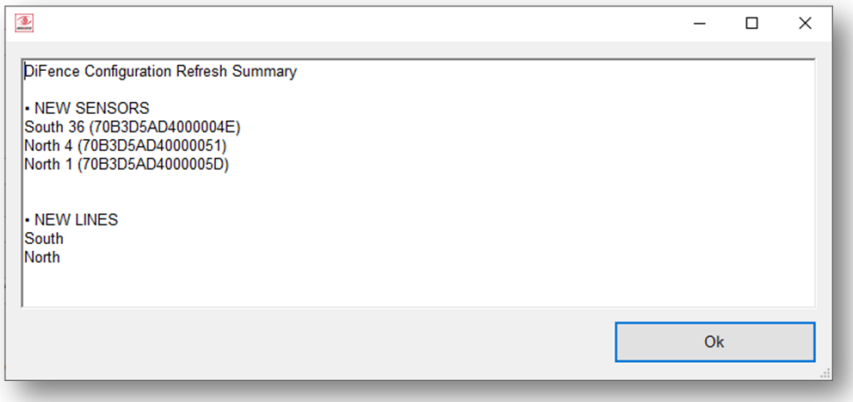


When new application information is filled out click **Refresh Configuration** then **Yes** on the first below dialogue, then **OK** on the second followed by the Milestone **Save** button , then the Invissys account will be queried. The relevant connected devices will be downloaded for the related sites.



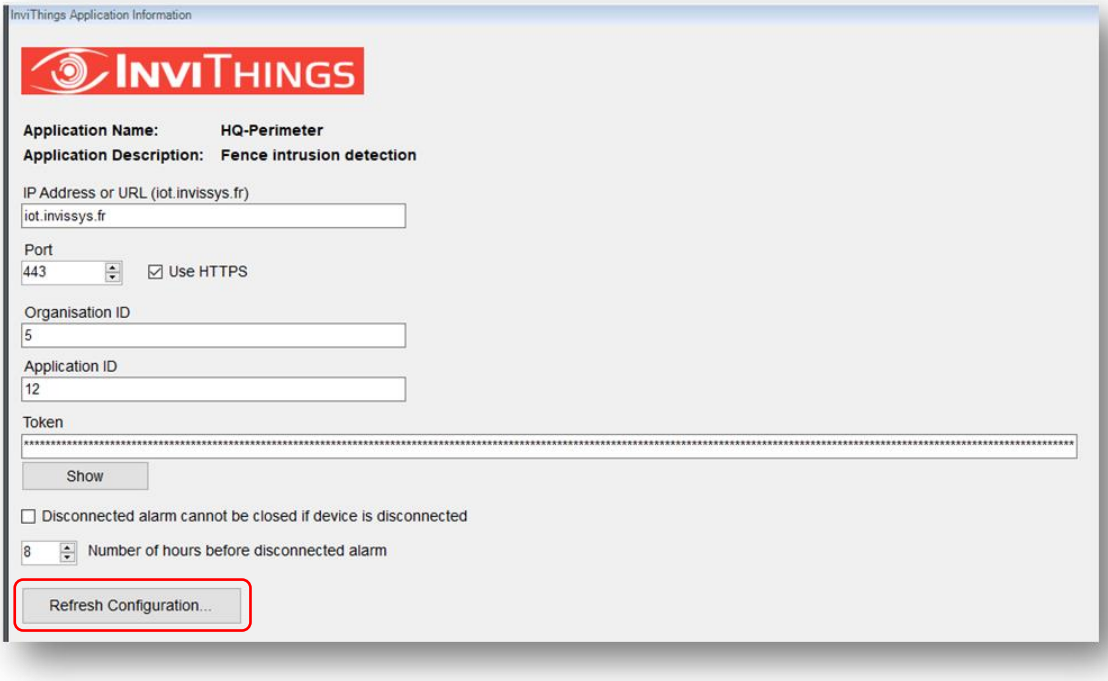


Once this process is completed you will receive a pop-up message. This will show the SENSORS and LINES that have been added to Milestone.



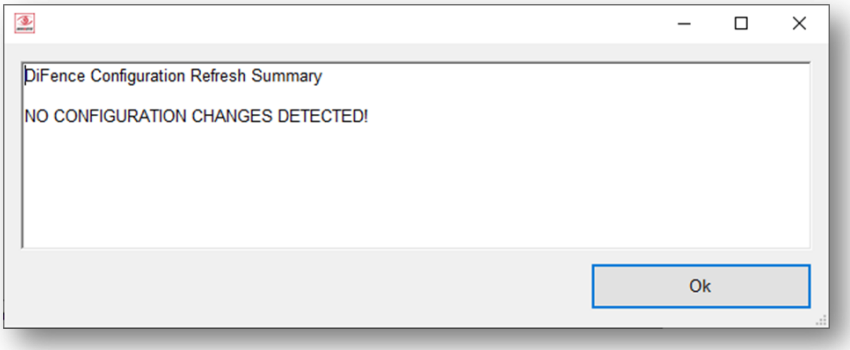
Refresh Configuration

When devices are added or removed from Invissys account the Milestone connection should be updated to reflect this. From the InviThings Application page select `Refresh Configuration`. The refresh of the configuration will query the Invissys account for any changes then update within Milestone to reflect the changes.



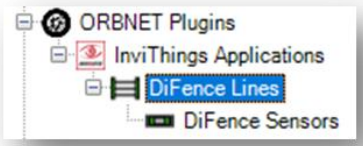
The steps that follow are included in the last section Invissys InviThings Connection .

Once complete you will receive a message to confirm any changes made.



DiFence Lines

Within the DiFence Lines section of the plugin, the added site Line groups will be shown.

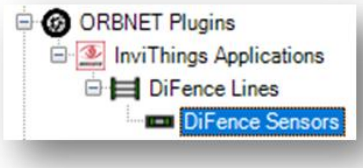


This window provides access to the available Line groups.

There is one option available in this window, by right clicking a Line group you can select to **Rename** the group. This will rename within Milestone but will not reflect on the Invissys account ~~endless~~ unless a refresh configuration is completed in Milestone.

DiFence Sensors

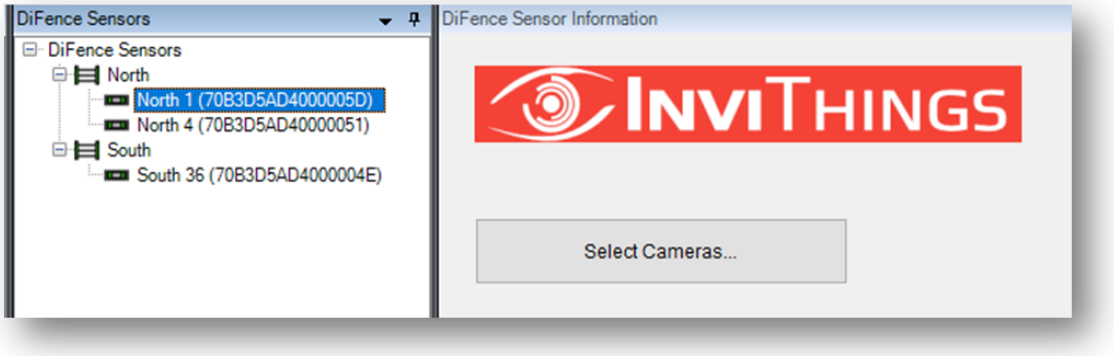
Within the DiFence Sensors section of the plugin, the added site Sensors will be shown.



This window provides access to the available Sensors.

There are two options available in this window, by right clicking a Line group you can select to **Rename** the group. This will rename within Milestone but will not reflect on the Invissys account ~~endless~~ unless a refresh configuration is completed in Milestone.

Add cameras related to the sensor location by using **Select Cameras…**



Invissys InviThings in Milestone Rules and Alarms

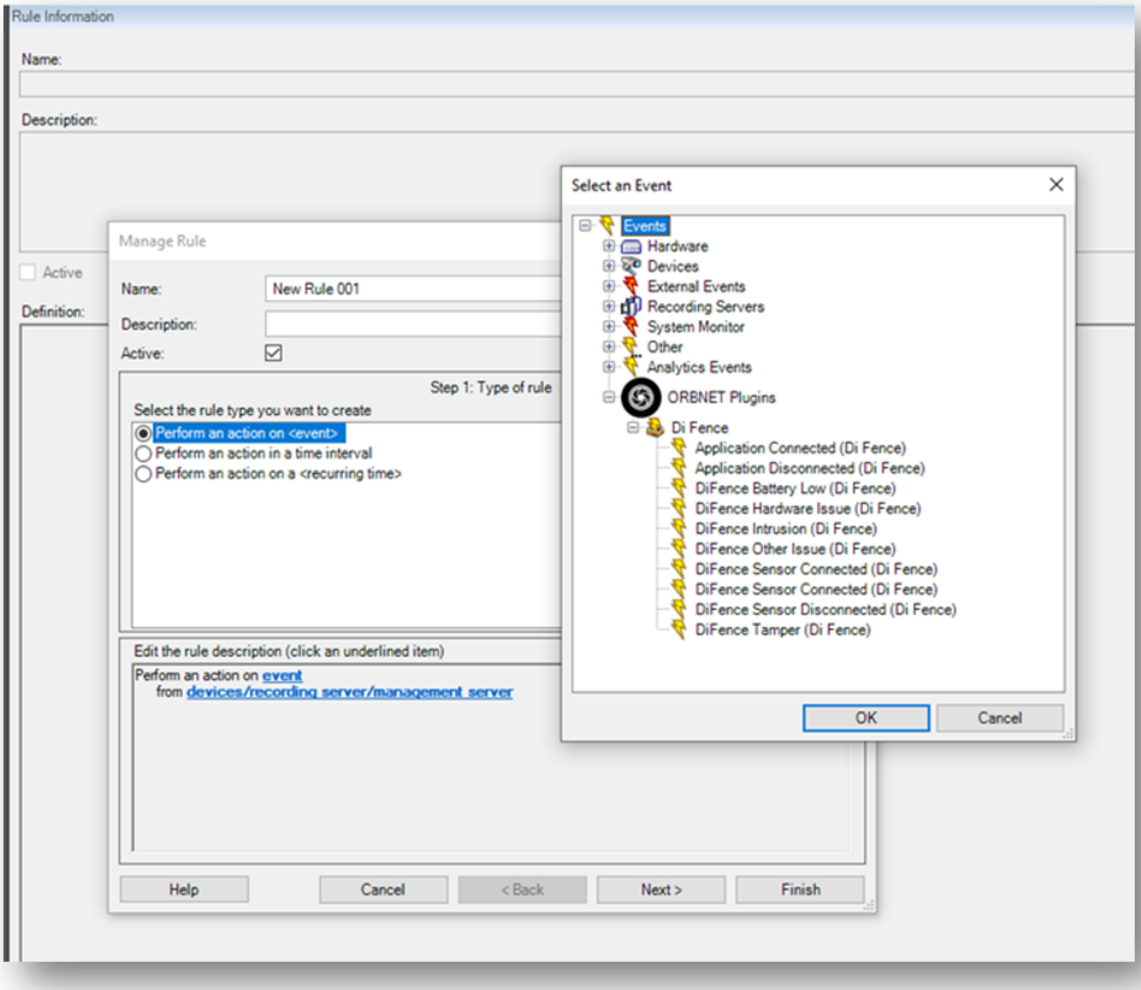
Rules

Milestone Rules provide an action on event, this Invissys InviThings integration provides In-bound events from InviThings to Milestone.

To access the Invissys InviThings Control events in Milestone find `Rules and Events > Rules` section in the Management Client.

Select this and then right click `Rules` in the center column to `Add rule`…

- `Perform and action on (<event>)`
  - Select and expand `ORBNET Plugins`
  - Expand the `Di Fence` list to see all available events

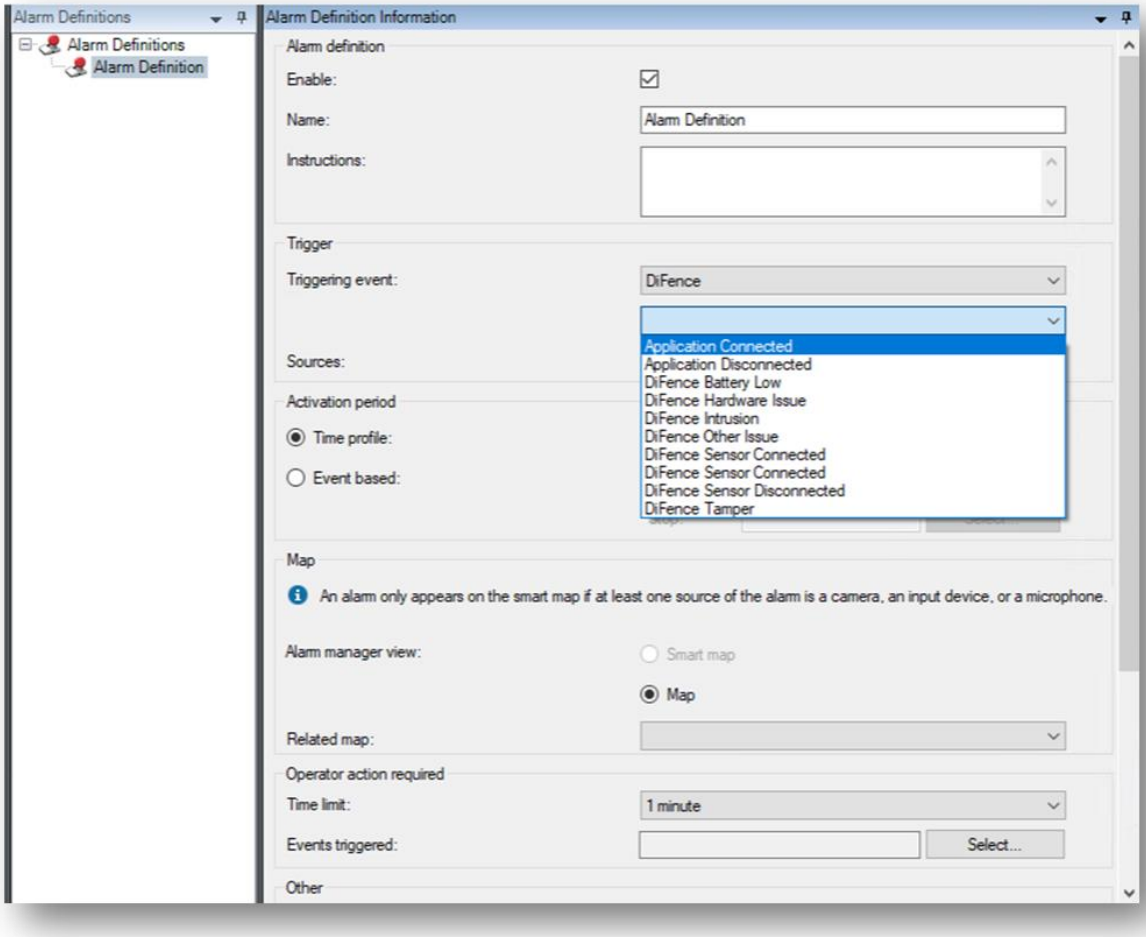


Alarm definitions

In the Milestone Management application alarms can be created from in-bound Invissys InviThings site events. These events are added to the Alarm stack in the Milestone Smart Client and will highlight a Line or Sensor on a Map with a round red circle when triggered.

The below alarm shows how to add a `Triggering event:`

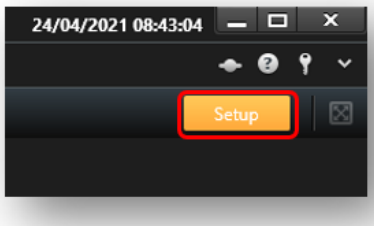
- Select `DiFence` from the dropdown list
- Select the relevant event from the InviThings site
- Select the Source for this event



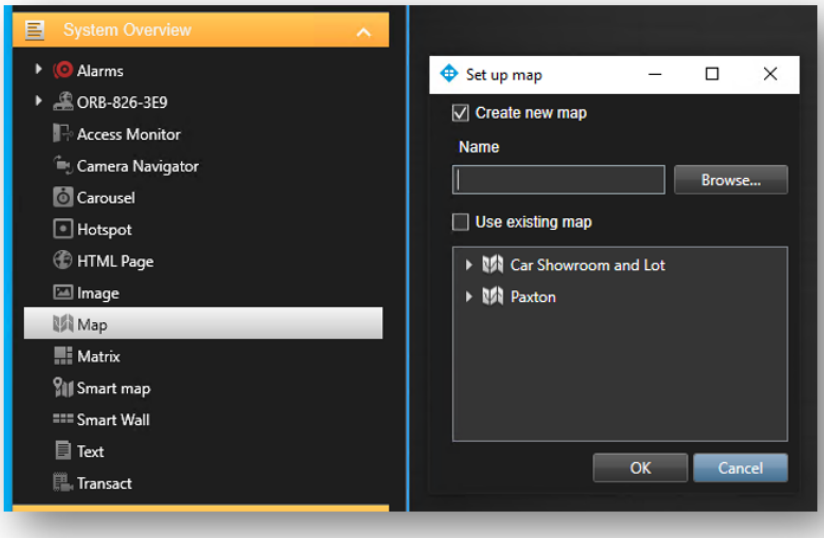
Smart Client

Maps Setup

Once logged into the Smart Client enter `Setup` mode via the right-hand site menu.

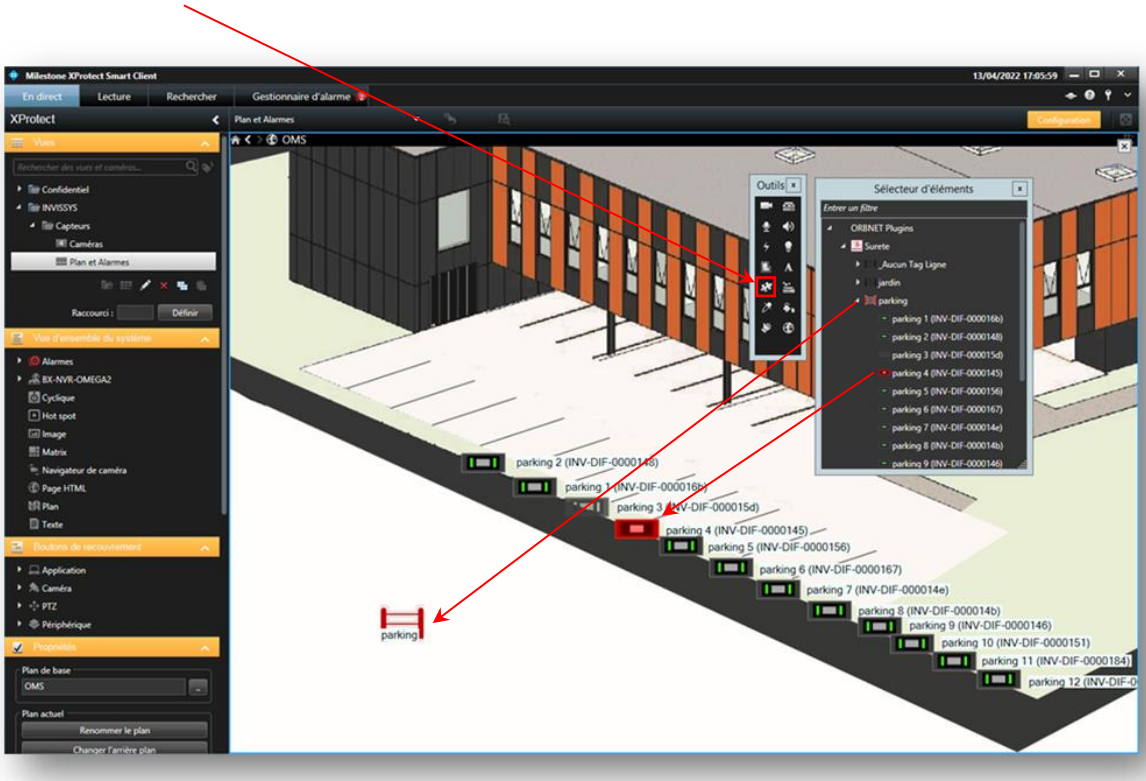


Under `Setup create a new layout` (Recommended view layout `4:3 > 1x1`), drag the `Map` component into the blank tile. Select a floorplan image representing your site layout using `Browse`. The name of the image will show as the map title for future reference.



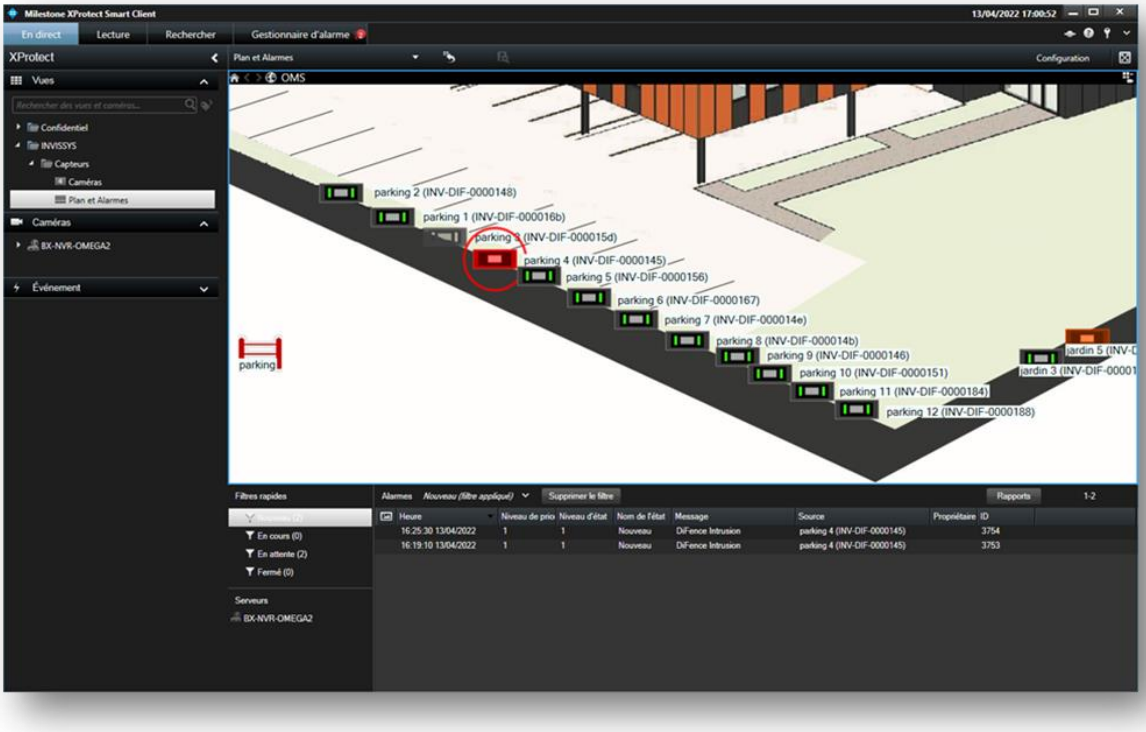
All the Invissys InviThings components can be added to a map created within the Milestone Smart Client.

Use `Add Plug-In Element` (Puzzle piece) from the Tools menu.

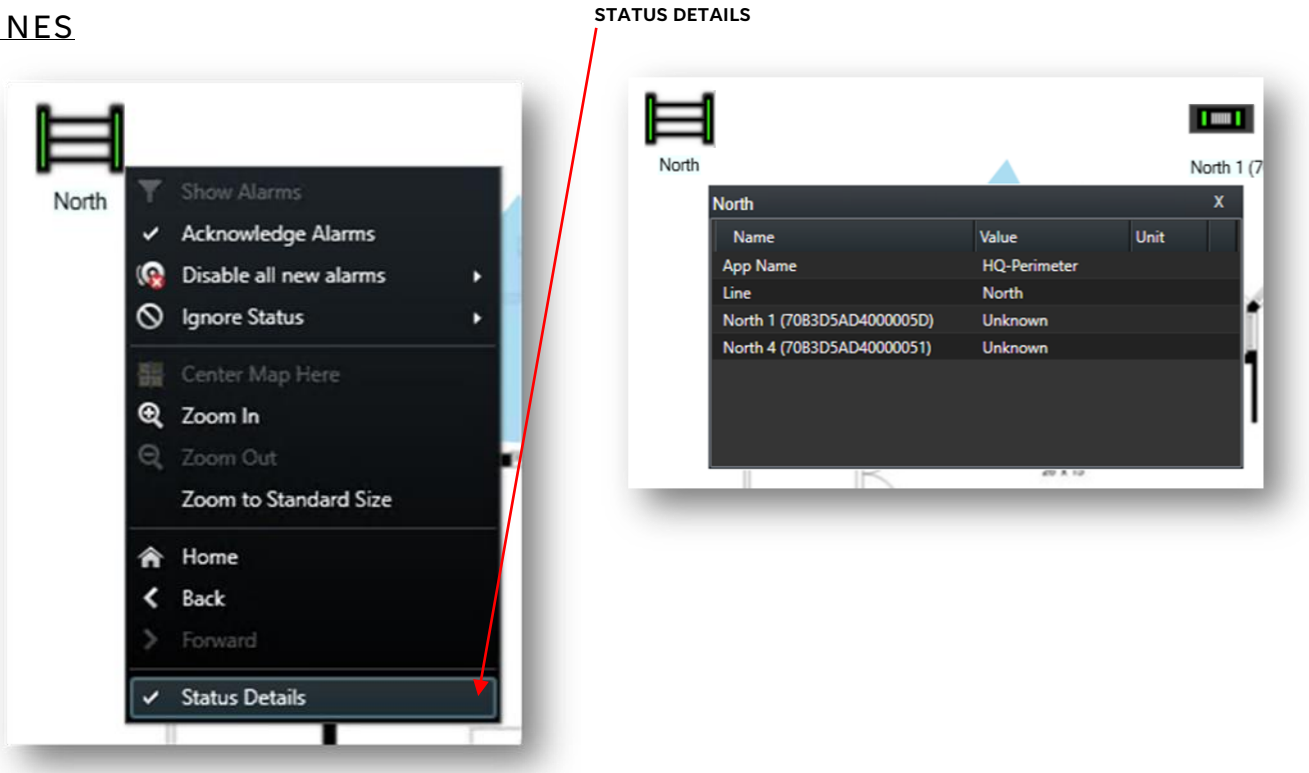


Once out of `Setup` mode the application components (Lines and Sensors) will show with the current states by icon.

Below the parking group and sensors are in an alarm state. The sensor parking 4 is an alarm indicated by the red icon and red ring, causing the group to be in alarm. The alarm is also shown in the alarm stack.



LINES



Relevant actions in list;

- [`Show alarms`] will switch to alarm stack and filter the alarms for the selected device
- [`Acknowledge alarms`] will do so in the Smart Client
- [`Disable all new alarms`] will only do so in the Smart Client
- [`Ignore stats`] will only do so in the Smart Client
- ---
- ---
- [`Status details`] will show a floating screen with the relevant connected devices.

Component States

Nominal

Default state when group is active and operational.

Warning

State shown for low battery, tamper, or other issue from group.

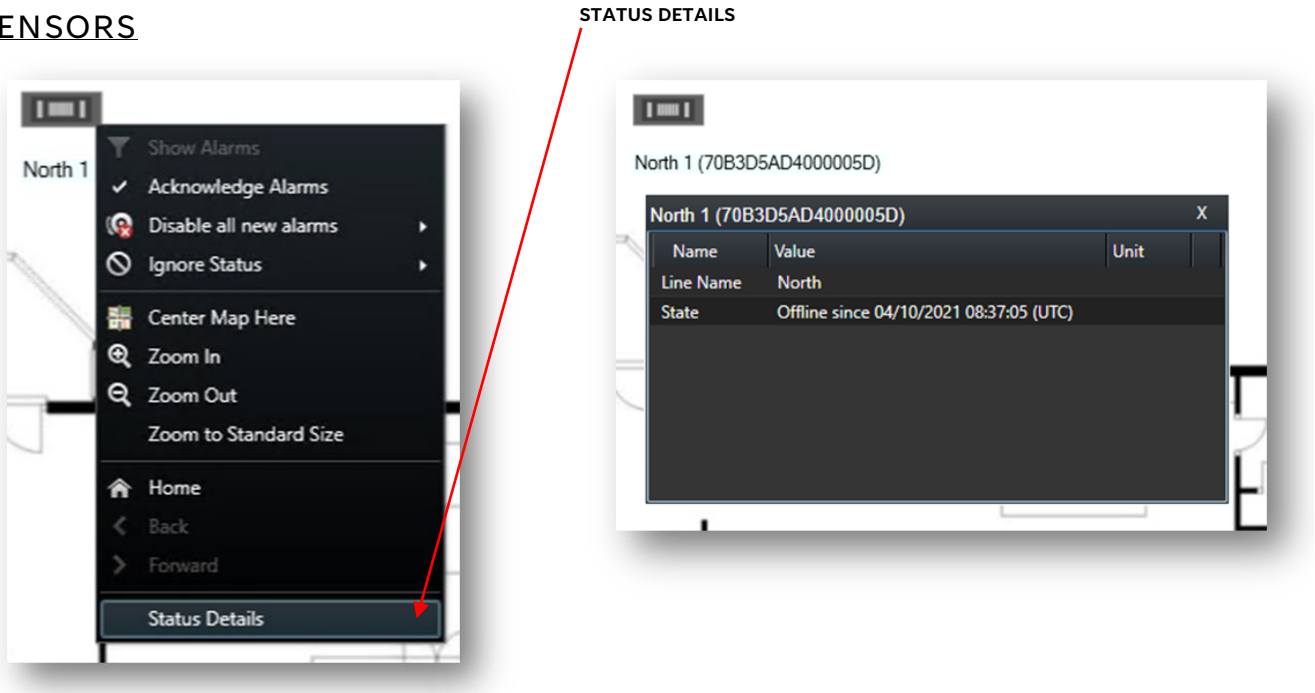
Alarm

State signals an intrusion has been detected from group.

Unknown

State shown for an offline group.

SENSORS



Relevant actions in list;

- [`Show alarms`] will switch to alarm stack and filter the alarms for the selected device
- [`Acknowledge alarms`] will do so in the Smart Client
- [`Disable all new alarms`] will only do so in the Smart Client
- [`Ignore stats`] will only do so in the Smart Client
- ----------
- ----------
- [`Status details`] will show a floating screen with the relevant connected devices.

Component States

Nominal

Default state for sensor, when active and operational.

Warning

State shown for low battery, tamper, or other issue for sensor.

Alarm

State signals an intrusion has been detected at the sensor.

Unknown

State shown for an offline sensor.

Troubleshooting

Event Server Installation

If Milestone was installed via a custom installation, the Event service may not have been included, as it is not always required.

From the server/machine with the Milestone Management service follow to http://localhost/installation/admin/default-en-US.htm

This will provide a Milestone installation page where you will be able to run the installer for the Event Server. This must be installed so the OBNET plugin can communicate with Milestone.