

# 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<sup>®</sup> Windows<sup>®</sup> 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

- <u>iot.invissys.fr</u> account with connected devices
- Organisation ID, Application ID and Token used to connect to <u>iot.invissys.fr</u>
- Installer 'Invithings Plugin XProtect Setup.msi'
- License <u>No license required for this integration</u>

# 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.

🕼 InviThings Plugin for XProtect — 🗌 🗙	🕼 InviThings Plugin for XProtect — 🗌 🗙
Bienvenue dans l'Assistant Installation de InviThings Plugin for XProtect	Sélectionner le dossier d'installation
Le programme d'installation va vous guider tout au long des étapes nécessaires à l'installation de InviThings Plugin for XProtect sur votre ordinateur.	Le programme d'installation va installer InviThings Plugin for XProtect dans le dossier suivant.
	Pour l'installer dans ce dossier, cliquez sur "Suivant". Pour l'installer dans un autre dos
	Dossier :
	Espace requis
AVERTISSEMENT : ce logiciel est protégé par la loi relative au droit d'auteur et par les conventions internationales. Toute reproduction ou distribution partielle ou totale du logiciel, par quelque moyen que ce soit, est strictement interdite. Toute personne ne respectant pas ces dispositions se rendra coupable du délit de contrefaçon et sera passible des sanctions pénales prévues par la loi.	Installer InviThings Plugin for XProtect pour vous ou pour toute personne qui utilise cet ordinateur : ① Iout le monde 〇 Seulement moi
< <u>Précédent</u> Suivant > Annuler	< <u>P</u> récédent <u>S</u> uivant > Annuler
🕼 InviThings Plugin for XProtect — 🗌 🗙	🔚 Restart Event Server? - 🗆 🗙
Le programme d'installation est prêt à installer InviThings Plugin for XProtect sur votre ordinateur. Cliquez sur "Suivant" pour démarrer l'installation.	This plugin requires an Event Server service restart. Would you like us to restart it for you now? Yes No
	Invithings Plugin for XProtect - X
< Précèdent Suivant > Annuler	Installation de InviThings Plugin for XProtect réussie.
	Cliquez sur "Fermer" pour quitter.
	Utilisez Windows Update pour rechercher les mises à jour critiques du .NET Framework.
	< Précédent Eermer Annuler

# 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 <u>iot.invissys.fr</u>. 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.

InviThings Applications	cat		iThings Applicati
		Expand	
		Add New	Ctrl+N
í.	2	Refresh	F5

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.
  - <u>Port</u> 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.
  - <u>Token</u> 225-character authentication token for site from IoT Invissys account.
    - Show / Hide Used to show or hide the token
  - <u>Disconnected alarm cannot be closed if device is disconnected</u> As default this option is unticked, this would be used where an offline alarm is treated as critical.
  - <u>Number of hours before disconnected alarm</u> How many hours since last signal from device is used to trigger disconnected alarm.
  - <u>Refresh Configuration</u> -Used to add an application or when changes are made to a sites system (i.e. new sensor).

Application Name: Application Description:				
IP Address or URL (iot.invissys.fr) tot.invissys.fr				
Port 443 Use HTTPS				
Organisation ID				
Token				
Show				
Disconnected alarm cannot be closed if device is disconnected  Number of hours before disconnected alarm				
Refresh Configuration				

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 **R**, then the <u>Invissys</u> <u>account</u> will be queried. The relevant connected devices will be downloaded for the related sites.

'his wil Jata. Ai	I pull the configuration from INVISSYS and overwite any existing e you sure you want to proceed?	
	Yes No	
andin	g by for configuration refresh	×
andin	g by for configuration refresh Please press OK and save the Milestone configuration to st the retrieval process. This process may take several minutes please be patient and do not change tabs or close the Management Client.	× art
tandin	g by for configuration refresh Please press OK and save the Milestone configuration to st the retrieval process. This process may take several minutes please be patient and do not change tabs or close the Management Client. You will get a full summary of the update when it finishes.	× art

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

3	-	×
DiFence Configuration Refresh Summary  • NEW SENSORS South 36 (70B3D5AD4000004E) North 4 (70B3D5AD40000051) North 4 (70B3D5AD40000051)		
North 1 (705305AD4000005D) • NEW LINES South North		
	Ok	

## Refresh Configuration

When devices are added or removed from <u>Invissys account</u> the Milestone connection should be updated to reflect this. From the <u>InviThings Application</u> 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.

Application Name:		
Application Descripti	on: Fence intrusion detection	
IP Address or URL (iot.i	nvissys.fr)	
iot.invissys.fr		
Port 443 🔃 🗹 U	e HTTPS	
Organisation ID		
5		
Application ID		
12		
Token		
********	*******	***************************************
Show		
Disconnected alarm	cannot be closed if device is discon	lected
Refresh Configurat	on	

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 Configuration Refresh Summary		
NO CONFIGURATION CHANGES DETECTED!		- 11
		- 11
		- 11
		- 1
	Ok	

## **DiFence** Lines

Within the <u>DiFence Lines</u> 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 <u>Invissys account</u> <u>endless unless</u> a refresh configuration is completed in Milestone.



### **DiFence Sensors**

Within the <u>DiFence Sensors</u> 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 <u>Invissys account endless unless</u> 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

escription:							
Active	Manage Rule			Select an Event			×
finition:	Description:     Active:		_	Conternal Even     Recording Se     System Monit     Other	rvers lor		
	Edit the rule de	action on a <recurring time=""></recurring>		T Applic T DiFen T DiFen T DiFen T DiFen T DiFen T DiFen T DiFen T DiFen	ration Disconnected (D ice Battery Low (Di Fen tice Hardware Issue (Di Fen tice Intrusion (Di Fence) ice Other Issue (Di Fence) ice Sensor Connected ( ice Sensor Connected ( ice Sensor Disconnect ice Tamper (Di Fence)	rence) (ce) Fence) ) Di Fence) Di Fence) dd (Di Fence)	
	Perform an activ from <u>devic</u>	on on <u>event</u> es/recording server/managemer	n <u>t server</u>		OK	Cance	al

## **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

Jarm Definitions 🛛 👻 4	Alarm Definition Information	÷ 4
🗉 🧏 Alarm Definitions	Alam definition	
- Jarm Definition	Enable:	
	Name:	Alam Definition
	Instructions:	
	Trigger	
	Triggering event:	DiFence V
	Sources:	Application Connected Application Disconnected DiFence Battery Low
	Activation period     Time profile:	DiFence Hardware Issue DiFence Intrusion DiFence Other Issue
	O Event based:	DiFence Sensor Connected DiFence Sensor Connected DiFence Sensor Disconnected DiFence Tamper
	Map	an if at laset one on one of the alarm is a namera an input device or a microshone
	Alam manager view:	Smart map
		Map
	Related map:	×
	Operator action required	
	Time limit:	1 minute ~
	Events triggered:	Select
	Other	

# 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.

🕨 🧐 Alarms	💠 Set up map 🛛 — 🗆 🗙
All CRB-826-3E9	Create new map
Access Monitor	Name
🐂 Camera Navigator	
Carousel	browse
Hotspot	Use existing map
🐨 HTML Page	Car Showroom and Lot
🖼 Image	Paxton
Map Map	
Matrix	
<b>%∥</b> Smart map	
=== Smart Wall	
Text	
🖳 Transact	OK Cancel

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 <u>parking</u> group and sensors are in an alarm state. The sensor <u>parking 4</u> 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.





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 Smort Client
- [Ignore stats] will only do so in the Smart Client
- -----
- -----
- [Status details] will show a floating screen with the relevant connected devices.

Com	ponent	States

n	_	_
I		
I		
	_	_

Nominal

Default state when group is active and operational.



Warning

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

ä	

Alarm

State signals an intrusion has been detected from group.



<u>Unknown</u>

State shown for an offline group.

<u>SENSO</u>	RS		STATU	JS DETAILS			
1=1	_			1==1			
North 1	T	Show Alarms		North 1 (70B3D	5AD4000005D)		- 1
- total i	~	Acknowledge Alarms					
	( <u>@</u>	Disable all new alarms		North 1 (70B3	BD5AD4000005D)		x
1	0	Ignore Status		Name	Value	Unit	
	巖	Center Map Here	/	Line Name State	North Offline since 04/10/2021 08:37:05 (UTC)		
1	Q	Zoom In		-			
	Q	Zoom Out					
		Zoom to Standard Size					2
	Â	Home					
	<	Back		- 1			
	>	Forward					
		Status Details					
1.000		Y					

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.



<u>Alarm</u>

State signals an intrusion has been detected at the sensor.



#### <u>Unknown</u>

State shown for an offline sensor.

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# 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 <a href="http://localhost/installation/admin/default-en-US.htm">http://localhost/installation/admin/default-en-US.htm</a>

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.

