

SGSE

Soluciones Globales de Seguridad Electrónica

SGSE-XO

Installer and User Manual

Content

1. Document versions.....	2
2. Introduction.....	3
3. Solution architecture.....	4
4. Installation.....	5
5. Licensing	7
A. Getting a UID	7
B. Applying the license	7
Workstations (only SmartClient)	8
6. Configuration.....	9
Set up a SGSE-XO.....	9
Test & configure Output time	10
Test	10
Configure output activation time.....	11
Alarms definition	12
Rules: events	13
Rules: actions.....	14
7. Milestone Smart Client.....	15
Operational.....	16
A. Event/Alarm viewer.....	17
B. Maps.....	17
C. WebClient and Milestone Mobile	18
8. Troubleshooting	19
Integrated systems	19
Required equipment	19
Change Ip.....	19
Other	20
More info.....	21

1. Document versions

Version	Date	Author	Changes in the version
1.0	03/2019	JCR	First version (English)

2. Introduction

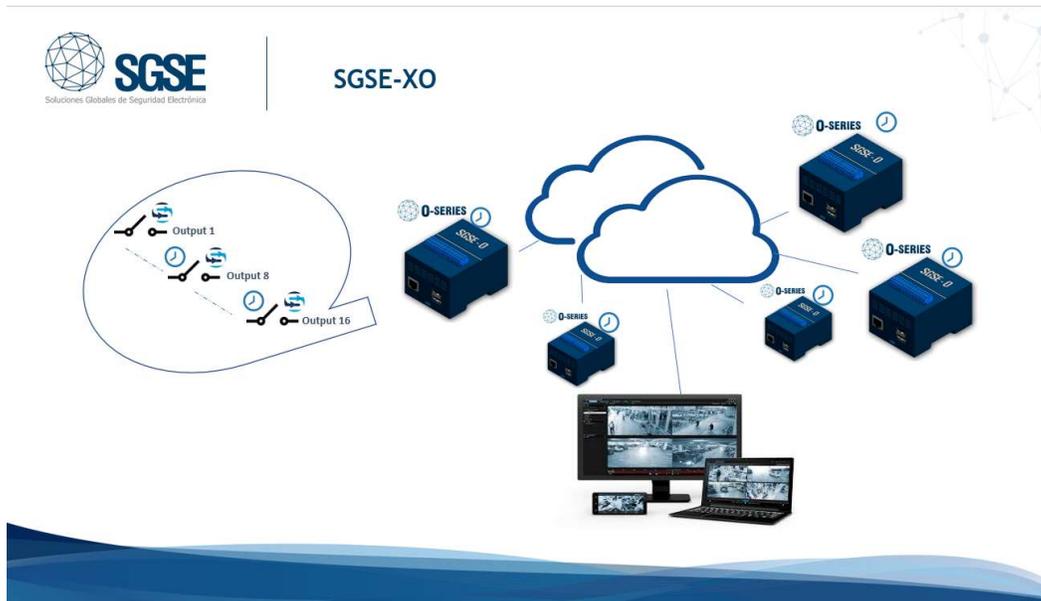
The purpose of this document is to explain the operation, installation and use of the software solution called "SGSE-XO".

This solution consists of a plugin that allows to monitor and interact with SGSE-XO (remote IP Outputs) devices included in the SGSE-XO solution, from the user interface and the working environment of the platform XProtect® of [Milestone](#).

In this way, the monitoring and operation of the outputs device is available together with the advantages of the XProtect® VMS for video and alarm management, event management, CCTV, intrusion in a single interface.

3. Solution architecture

The architecture of the solution is described in the scheme below:



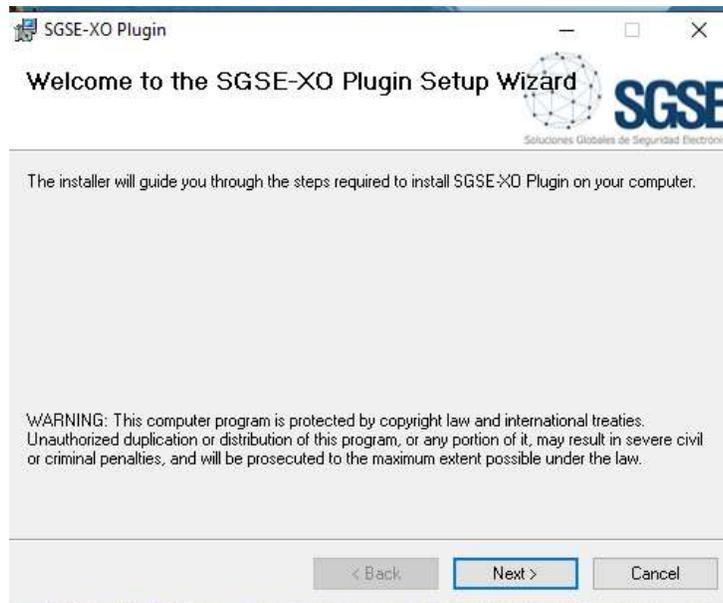
Through the Ethernet network, the plugin establishes communication with configured devices (SGSE-XO).

Once the communication is established, it imports the signal status configuration and keeps the communication channel open to:

- Send commands to the devices
- Ask the devices for the status of elements (outputs)
- Receive notifications when the status of devices outputs change

4. Installation

To install the plugin, simply execute with administrator rights the installer "SGSE-XOLogic_Installer.msi" provided by SGSE. The process is automatic. Throughout the different screens of the installer, we will only have to accept the End User License Agreement, a mandatory condition to be able to use the plugin.



Click "Next >" to start the installation process.

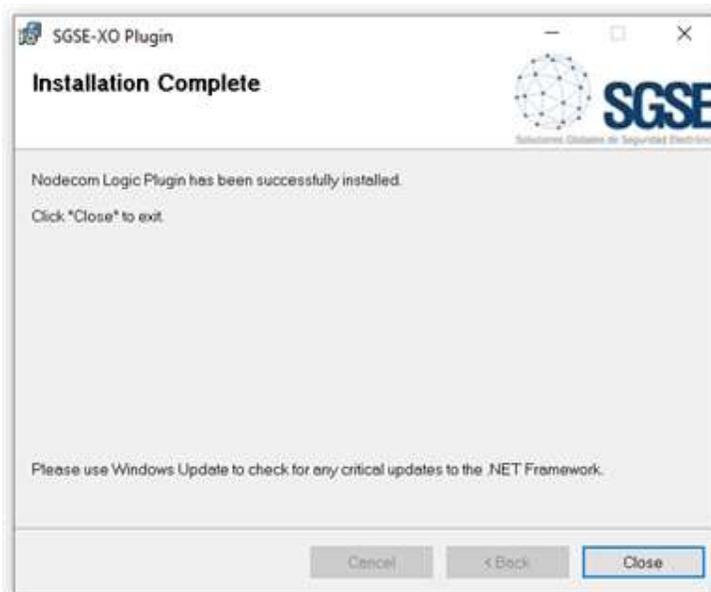


You will have to read and accept the End User License Agreement in order to proceed with installation.



Click "Next >" to proceed and install the plugin files.

If Windows User Account Control is enabled, you may have to allow the installer to go ahead with installation.



Once the process is finished, we can click "Close". The plugin is already installed!

5. Licensing

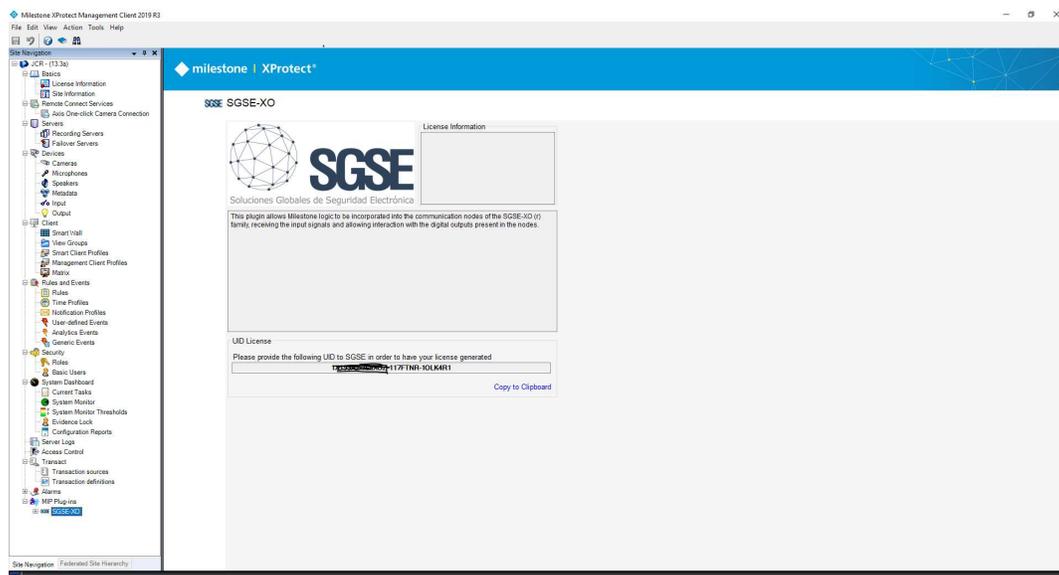
The plugin needs a license to run. The license will tell Milestone how many outputs can be managed. These licenses are generated by SGSE. The procedure to obtain the license file corresponding to the acquired license is described below.

A. Getting a UID

In order to generate the license, you must provide the corresponding UID. This UID is a unique identifier to which the license is in bound.

To get this code, you have to run XProtect® Management Client after installing the plugin and go to the corresponding menu item.

In that screen, when the plugin is not licensed, you will see the corresponding UID.



Please provide this UID to SGSE, and you will get your license file generated.

B. Applying the license

Please copy the license file into the plugin folder. By default:

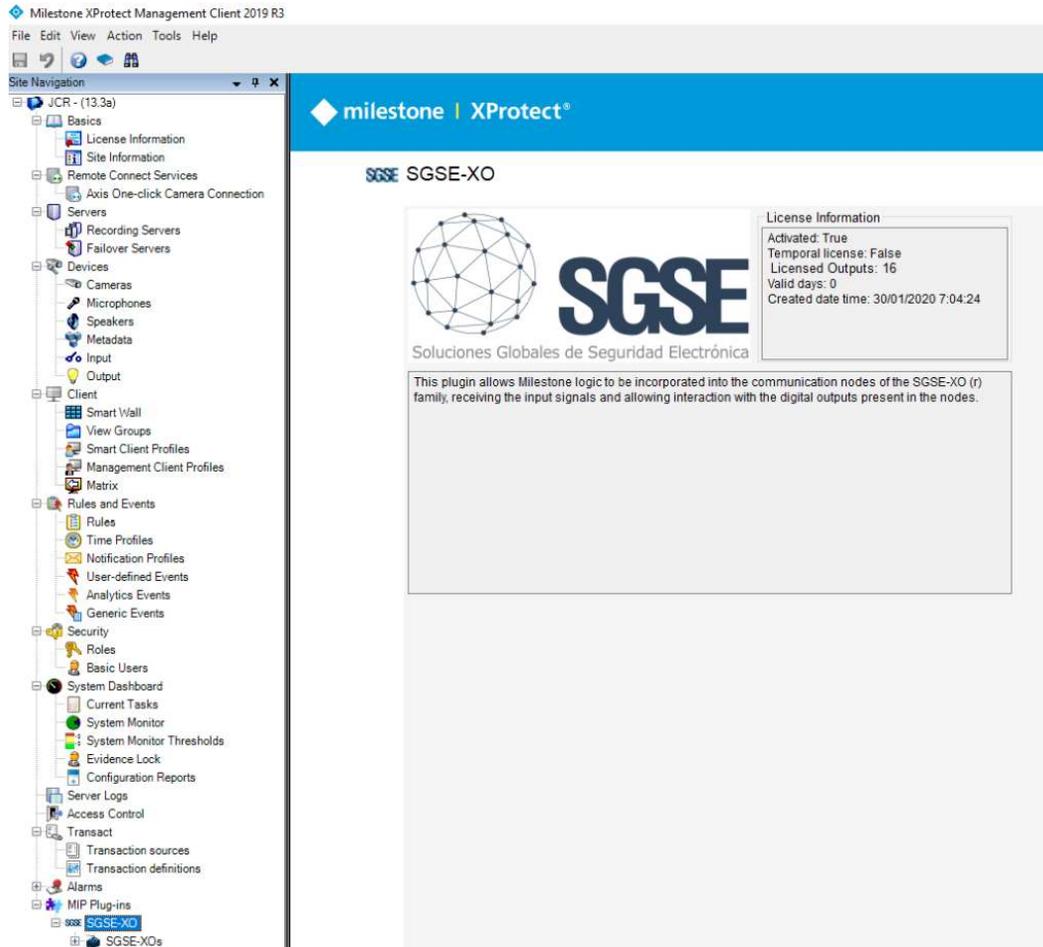
C:\Program Files\Milestone\MIPPlugins\SGSE-XO\

In case you are working with a XProtect® version where you don't have Management Client, but Management Application instead, then you will have to copy the license file to the next folder too:

C:\Program Files (x86)\Milestone\MIPPlugins\SGSE-XO\

After applying the license, Event Server must be restarted so that changes take effect and we can use the plugin.

See below the result after applying the license.



In this case, you can appreciate one license for 16 outputs you can distribute in different SGSE-XO devices.

Workstations (only SmartClient)

To generate the UID in a workstation where you don't have XProtect® Management Client, you will have to use the SGSE tool, "UID Generator".

Please, contact SGSE to get this tool.

6. Configuration

The plugin has been designed to simplify as much as possible its configuration process, so that the start-up is as simple as possible for the installer.

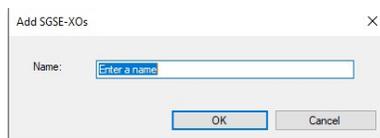
Set up a SGSE-XO

To set up a SGSE-XO in Milestone, the procedure is extremely simple.

Select “Add new...”

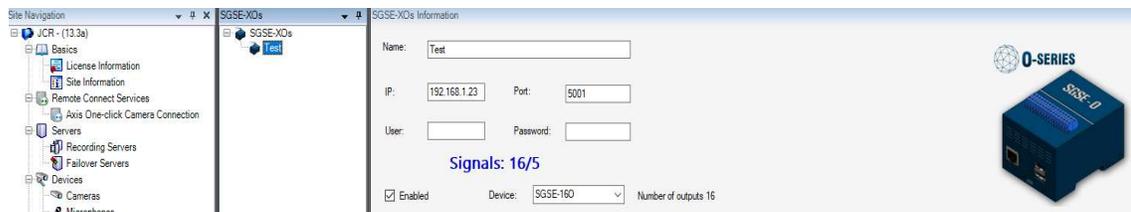


After click “Add new” write a name for the SGSE-XO and click OK (Submit).



You just have to assign a name to the SGSE-XO device to identify it in the system, and configure the needed parameters to establish the connection between plugin and device over Ethernet:

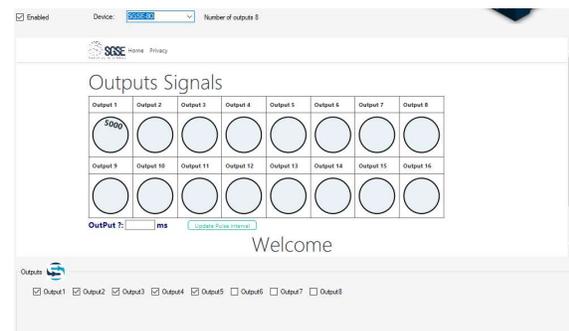
- IP address of the SGSE-XO device
- Port in which it is listening for incoming connections
- User
- Password
- Enabled
- Device (SGSE-80 or SGSE-160 ‘number of outputs 8 or 16’)



- Outputs you want to use, limited by license.



Selected device SGSE-160



Selected device SGSE-80 Output from 8

to 16 are not operative

After saving changes,  the plugin will try to connect automatically with the SGSE-XO and, if everything is properly configured, it will import the SGSE-XO status (outputs).

The plugin will automatically create in Milestone the items corresponding to outputs of the SGSE-XO. These items will be accessible from the interface of Management Client and from the SmartClient maps.

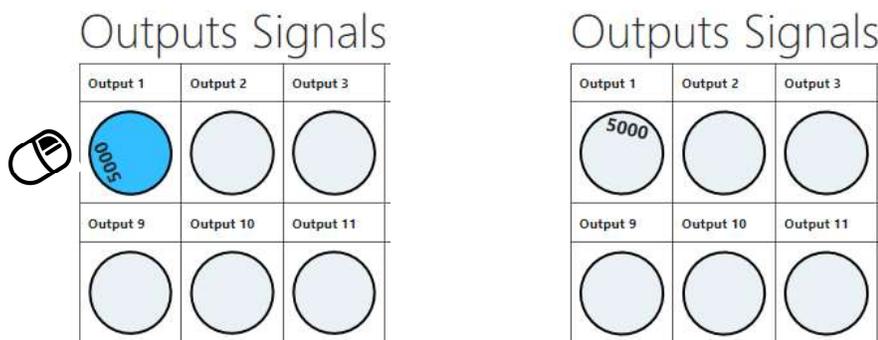
We can see the download process information in the Event Server MIP Logs.

Test & configure Output time

In the Administration panel you can see a dynamic picture where you can test the signals and parametrizer time output signals are active. Let me show you, how you can do it.

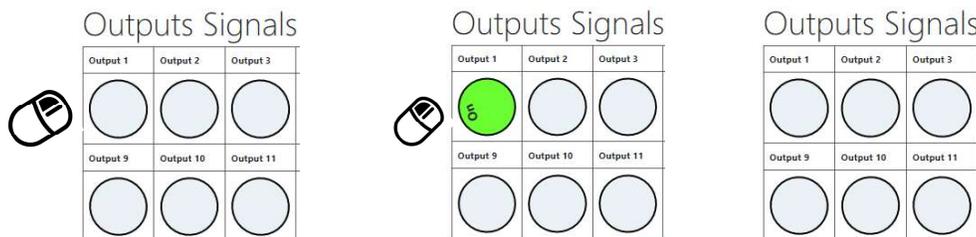
Test

There are two types of outputs that we can establish, timed and permanent. The timed output will remain active for the time that we determine. This time will be reflected, in milliseconds, with a number inside the circle that represents the output signal. If we click on this circle, it will change colour and will remain active for the defined time. For example, if 5000 appears in the circle that defines the signal, clicking the output will change state for 5000ms and the circle that defines it will stay blue for 5000ms.



Non-timed outputs are represented by circles with no numbers. To test these outputs, you only need to click with the mouse on the selected output: one click to activate and another click to deactivate the selected output. It's very simple!

When the output is active, the circle turns green and an "On" message appears inside. Clicking again sets the output back to the default "off" position and the circle changes color to light gray.

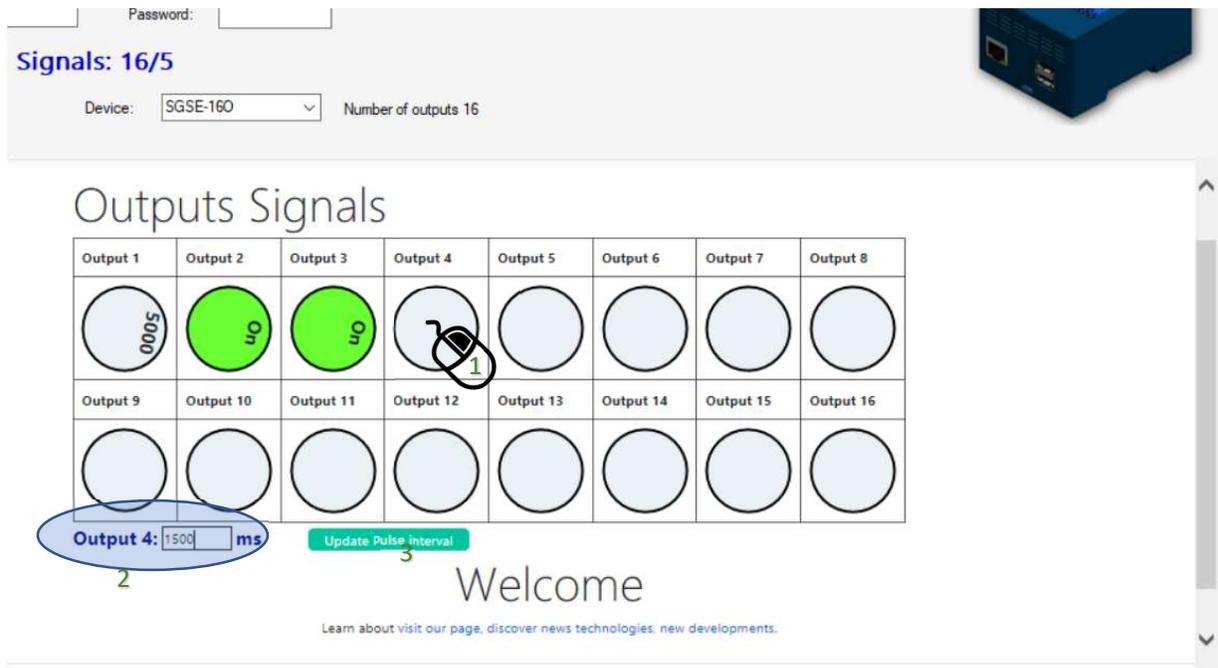


Configure output activation time

In each output, the time that remains active can be configured following the next procedure.

1.- Choose the signal. Click with the right mouse button and a text box with the name Output X (where X is the number of the chosen signal) will enable you to enter the time in milliseconds. The default value is 500ms. If a value lower than 500 is configured, the output signal will change to Non-timed mode.

2. Confirm the time clicking over the tag "Update pulse interval". You can verify the time selected has been applied because this time is written inside the corresponding circle.



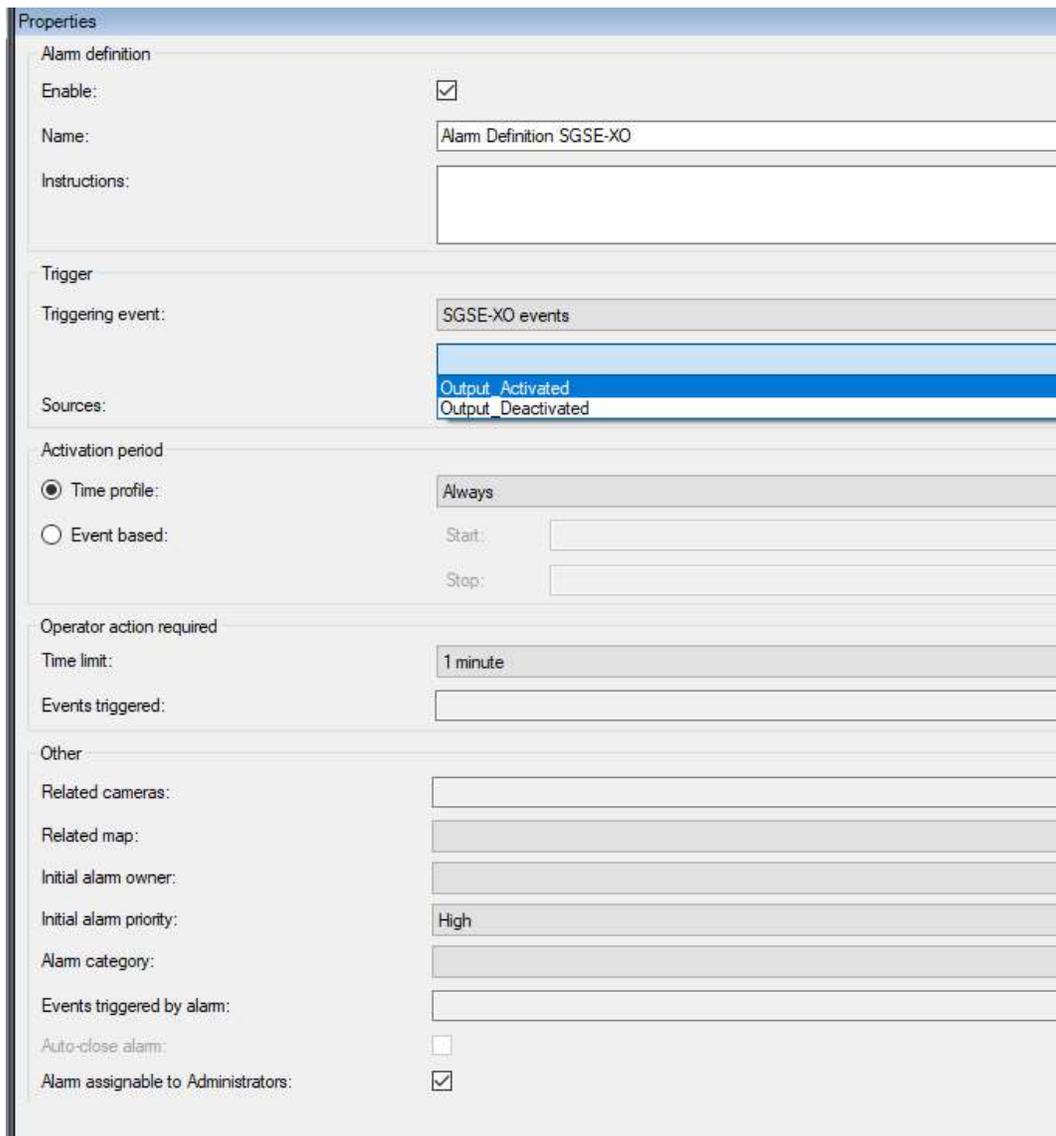
Click output number 4, click right button, write time and click "Update Pulse interval"

Alarms definition

This plugin adds some event definitions to Milestone, corresponding to the events that the SGSE-XO sends. These events provide will be sent when the status of an output changes (activation or deactivation).

In the “Alarm definition” section, within Management Client, create a new alarm whose triggering event is an event from the “SGSE-XO Events” group, and define the item(s) from which we want this event to be considered an alarm.

- Output_activated
- Output_Deactivated



Properties

Alarm definition

Enable:

Name: Alarm Definition SGSE-XO

Instructions:

Trigger

Triggering event: SGSE-XO events

Sources: Output_Activated
Output_Deactivated

Activation period

Time profile: Always

Event based: Start: Stop:

Operator action required

Time limit: 1 minute

Events triggered:

Other

Related cameras:

Related map:

Initial alarm owner:

Initial alarm priority: High

Alarm category:

Events triggered by alarm:

Auto-close alarm:

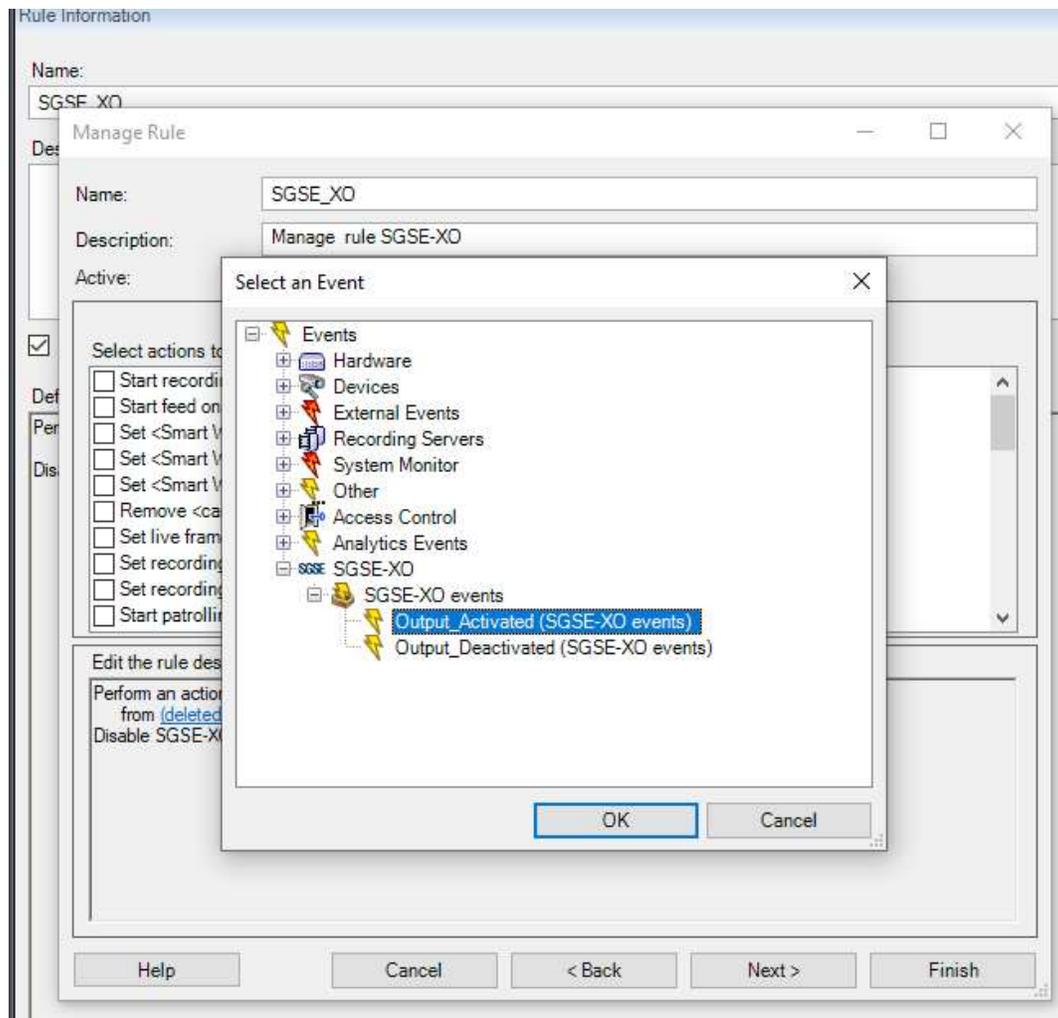
Alarm assignable to Administrators:

Rules: events

Those events can also be used to trigger Milestone rules. Just create a new rule and select as “Triggering Event” one of the events from those added by the plugin.

The events that plugin adds currently are:

- Output_Activated
- Output_Deactivated

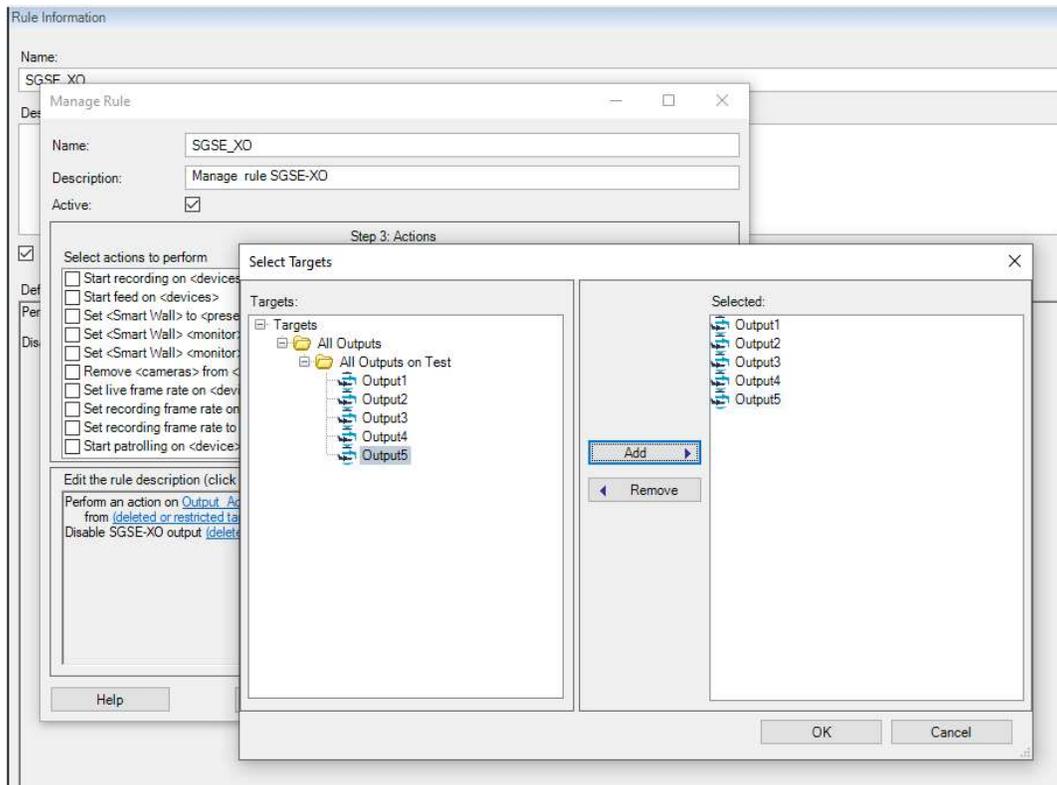


Rules: actions

With the actions defined by the plugin, Milestone can interact with SGSE-XO devices when a defined rule is triggered.

We can define rules to trigger the following actions on panels:

- Enable SGSE-XO <output>
- Disable SGSE-XO <output>

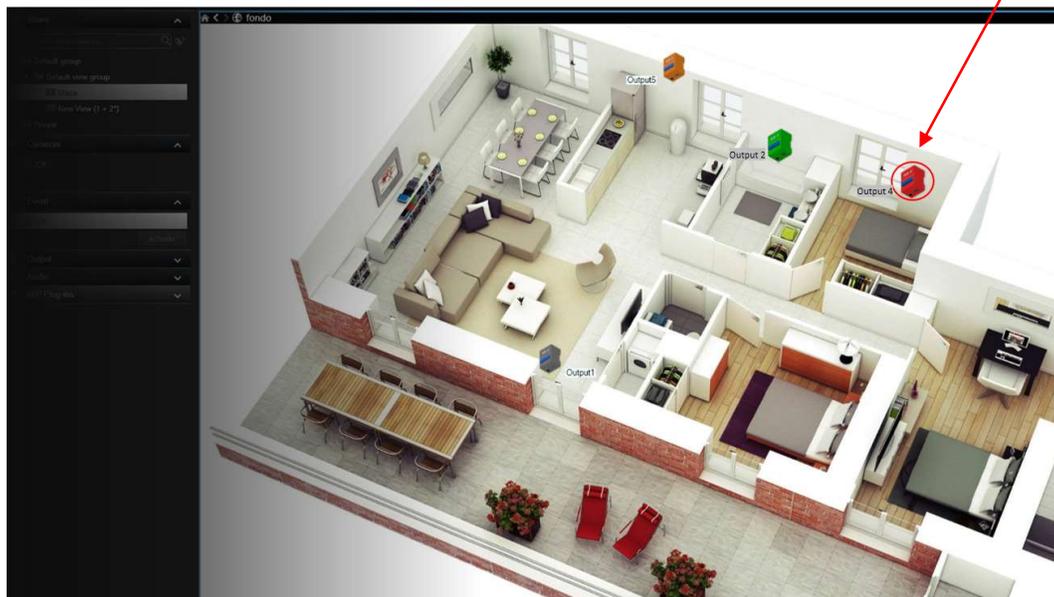


7. Milestone Smart Client

If the plugin created the items successfully in Milestone, configurator user will be able to drag and drop these output items to a map in the Smart Client application:



If an alarm is triggered, operator user will see the origin of the alarm with a **blinking red circle**, and the icon will change of state.



Color indications for output signals:

STATUS	ICON (COLOR)
Output idle state (deactivated).	 (Gray)
Output active state.	 (Green)
In alarm. A blinking red circle will surround it if a Milestone alarm has been defined.	 (Red)
Output cannot be read. Device without communication.	 (Orange)

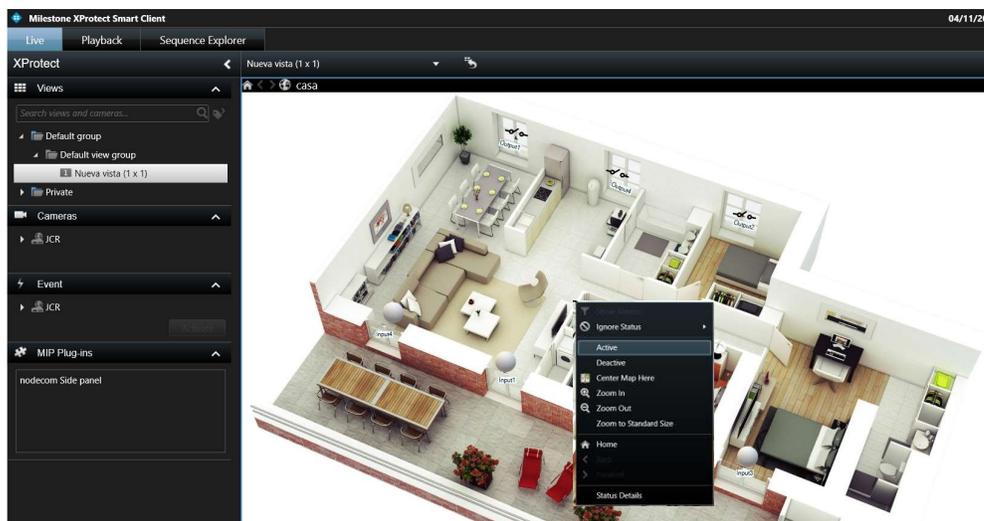
Operational

Operator users can send commands to:

- a) Outputs; change the status of the outputs.

In the map with icons in the Smart Client, operator user can right-click over the icon and the system will show the available commands for the selected item.

- a) The SGSE-XO has these commands:
 - Active (Output on)
 - Deactive (Output off)



SGSE-XO plugin allows you to monitor and interact with SGSE-XOs signals. Every action is performed from the SmartClient, which is the standard user interface in XProtect®.

From SmartClient you can monitor the status of the outputs, as well as to interact with the device.

A. Event/Alarm viewer

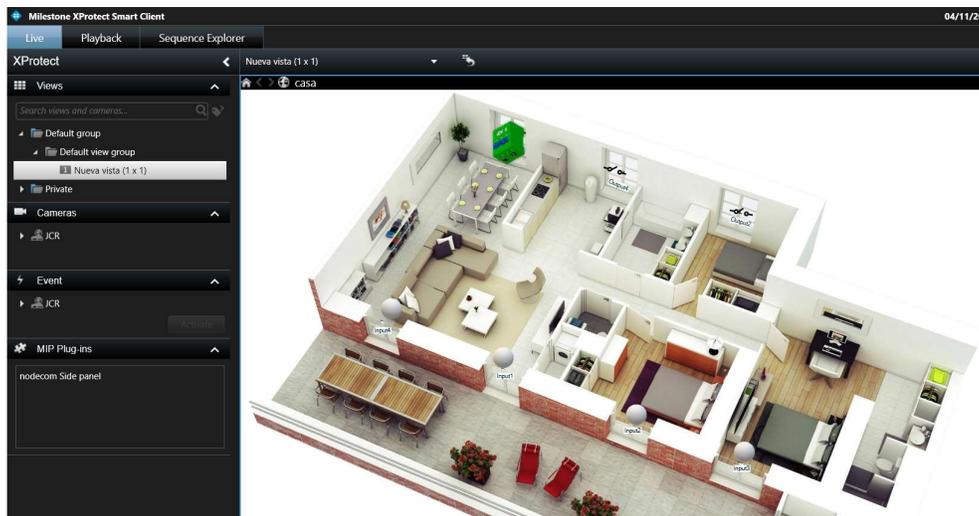
From the standard XProtect® events and alarms viewer, alarms and events coming from the SGSE-XO logic can be viewed and managed.

Alarmas	Personalizado (filtro aplicado)	Borrar filtro	Informes	1-100		
Hora	Nombre de est	Mensaje	Fuente	Etiqueta	Propietario	ID
10:42:37 22/10/2018	Nuevo	Zona - En Alarma	ProSYS Plus	Zona 2001		78467
10:42:37 22/10/2018	Nuevo	Particion - En Alarma	ProSYS Plus	Particion P01		78466
10:42:36 22/10/2018	Nuevo	Panel Alarma - Bateria	ProSYS Plus	Panel ProSYS Plus(192.168.2.199)		78464
10:42:36 22/10/2018	Nuevo	Panel Alarma - Problema Campana	ProSYS Plus	Panel ProSYS Plus(192.168.2.199)		78465
10:42:35 22/10/2018	Nuevo	Panel Alarma - Linea Telefonica	LightSYS	Panel LightSYS(192.168.2.198)		78463
10:42:35 22/10/2018	Nuevo	Panel Alarma - Bateria	LightSYS	Panel LightSYS(192.168.2.198)		78462
10:08:39 22/10/2018	Nuevo	Zona - En Alarma	ProSYS Plus	Zona 2001		78461
10:08:38 22/10/2018	Nuevo	Particion - En Alarma	ProSYS Plus	Particion P01		78460
10:08:37 22/10/2018	Nuevo	Panel Alarma - Bateria	ProSYS Plus	Panel ProSYS Plus(192.168.2.199)		78458
10:08:37 22/10/2018	Nuevo	Panel Alarma - Problema Campana	ProSYS Plus	Panel ProSYS Plus(192.168.2.199)		78459
9:27:02 22/10/2018	Nuevo	Panel Alarma - Linea Telefonica	el segundo	Panel el segundo(192.168.2.198)		78457
9:27:02 22/10/2018	Nuevo	Panel Alarma - Bateria	el segundo	Panel el segundo(192.168.2.198)		78456

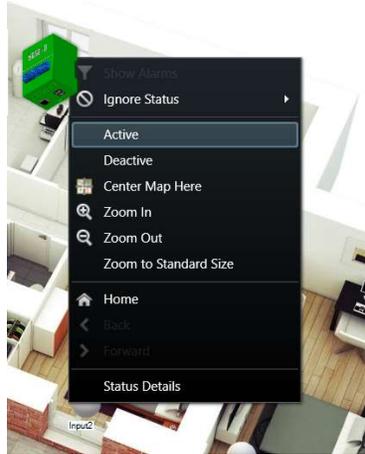
B. Maps

The icons corresponding to SGSE-XO, outputs or device can be added to a XProtect® map.

Each icon will show the state of the corresponding element according to the colour legend referenced above.



In addition, it will allow to interact with the element from its context menu (secondary button of the mouse).



In this way, you can activate or deactivate outputs.

C. WebClient and Milestone Mobile

These interfaces do not support all the plugin functionalities, like maps.

However, alarms can be received from these two interfaces, if they have been defined in the Management Client. Interaction with SGSE-XO devices can also be performed by making use of plugin actions and *User defined events*, that will appear to the user as buttons.

8. Troubleshooting

Integrated systems

In case the integration does not work, please confirm the device and its firmware version to be plugin compatible. Integrated systems are:

- SGSE-XO-MILESTONE

Tested firmware version for each panel are:

- SGSE-XO-MILESTONE: SGSE-XO V2.0. 02112019

Compatibility is not granted if a different firmware version is used. Although later firmware versions should work properly, compatibility with each specific firmware version must be tested.

Required equipment

In order to communicate with the SGSE-XO from Milestone, it must be connected to Ethernet.

Change Ip

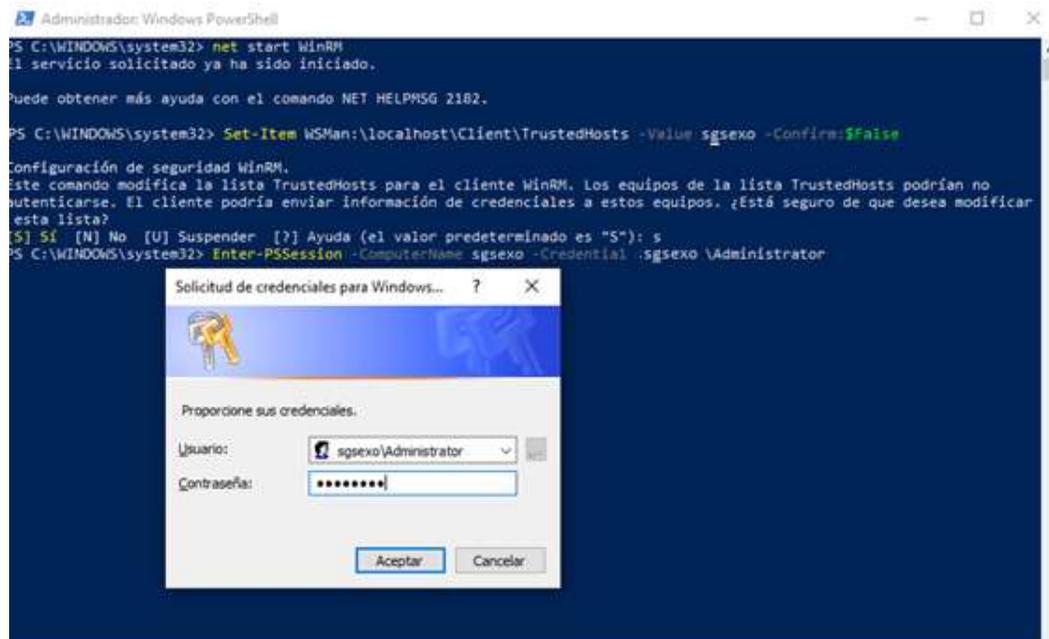
Open a PowerShell (administrator mode) session to connect remotely to the SGSE-XO, by using the following commands:

```
net start WinRM
```

```
Set-Item WSMAN:\localhost\Client\TrustedHosts -Value sgsexo -Confirm:$False
```

```
Enter-PSSession -ComputerName sgsexo -Credential sgsexo\Administrator
```

Where “sgsexo” is the device hostname and must be adapted to each device.



After the remote session with PowerShell has been successfully completed, you should run the following two commands:

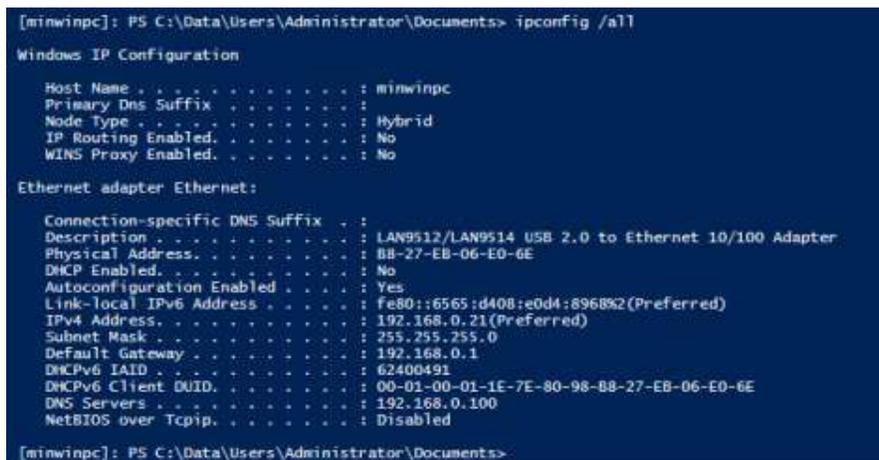
```
New-NetIPAddress -InterfaceAlias "Ethernet" -IPAddress 192.168.0.21 -
AddressFamily IPv4 -PrefixLength 24 -DefaultGateway 192.168.0.1
Set-DnsClientServerAddress -InterfaceAlias "Ethernet" -
ServerAddresses 192.168.0.100
```

Where "Ethernet" is the name of the network interface to which you want to set the IP address. To know the name of the network interfaces that are connected to the SGSE-XO you can use the following commands from the remote PowerShell session:

```
$adapter = Get-NetAdapter | ? {$_.Status -eq "up"}
$interface = $adapter | Get-NetIPInterface -AddressFamily "IPv4"
$interface
```

After executing these commands, the SGSE-XO should have changed its IP address. To check that the IP has been assigned correctly we can use the well-known command:

`ipconfig / all`



```
[minwinpc]: PS C:\Data\Users\Administrator\Documents> ipconfig /all
Windows IP Configuration

Host Name . . . . . : minwinpc
Primary Dns Suffix . . . . . :
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . . :
Description . . . . . : LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter
Physical Address. . . . . : 88-27-EB-06-E0-6E
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::6565:d408:e0d4:8968%2 (Preferred)
IPv4 Address. . . . . : 192.168.0.21 (Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1
DHCPv6 IAID . . . . . : 62400491
DHCPv6 Client DUID. . . . . : 00-01-00-01-1E-7E-80-98-88-27-EB-06-E0-6E
DNS Servers . . . . . : 192.168.0.100
NetBIOS over Tcpip. . . . . : Disabled

[minwinpc]: PS C:\Data\Users\Administrator\Documents>
```

Device start up

If you cannot connect to the device from Milestone, please ensure the Ethernet cable is properly plugged in and restart the device.

Other

In case of communication failure, please restart XProtect® Event Server.

In some cases, it has been reported that the SGSE-XO may stop sending messages through the Ethernet interface. In that case, please restart the device.

More info

For more info, please visit [plugin online information](#) or contact SGSE in the email address info@sgse.eu.