



SGSE

Soluciones Globales de Seguridad Electrónica



milestone

INTEGRATION OF PARADOX INTRUSION PANELS INTO MILESTONE

SGSE has once again expanded its intrusion panel integration offering with its incorporation of renowned manufacturer Paradox's («Paradox's») intrusion panels into Milestone Systems's («Milestone's») software, consolidating its global expansion.



The image below shows the names of the different manufacturers whose intrusion panels are currently integrated into Milestone thanks to SGSE's software innovations.



Intrusion deployments with Paradox's intrusion systems

Paradox's intrusion systems offer the highest level of protection for banks, military and government facilities, luxury residential homes, and anywhere where maximum security is essential. These systems are designed to be easy to use and their modular concept provides installers with work-saving features that make expanding, installing and servicing them fast and convenient.

Paradox 's Spectra, Magellan and Evo families are integrated into Milestone via the SGSE plug-in.

The tables below show the most important features of each of the products within the Paradox families that have been integrated into Milestone:

DIGI PLEX EVO

FEATURE	EVO192	EVOHD
Maximum Zones	192	192
On-board zones	8 (16 with ATZ)	8 (16 with ATZ + Tamper input)
Partitions	8	8
Users	999	999
Access Control	32 puertas	32 puertas
Events Buffered	3584	3584
PGMs	32 (5 on board)	32 (5 on board)
Supported cameras	16	16
Siren	Wired / Wireless with RTX3	Wired / Wireless with RTX3
Total expansion modules	254	254
Landline Speed for Programming	300 Bps	300 Bps
Supports PCS Series	Yes	Yes
Supports IP150+ (Internet Module)	Yes	Yes
Supports VDMP3 (Plug-in Voice Dialer)	Yes	Yes
In-Field Firmware Upgradeable	Yes	Yes



FEATURE	SP4000	SP5500	SP6000	SP65	SP7000
StayD	Yes	Yes	Yes	Yes	Yes
2 Serial Ports	N/A	Yes	Yes	N/A	Yes
Maximum zones*	32	32	32	32	32
On-board zones	4 (8 with ATZ)	5	8 (16 with ATZ)	9 (18 with ATZ)	16
Expansion Zones	24	24	24	24	16
Keypad zones	15	15	15	15	15
Partitions	2	2	2	2	2
User Codes	32	32	32	32	32
PGMs	12 (1 on board)	16* (2 on board)	16* (2+2 on board)	16* (3 on board)	16* (4 on board)
PGM +/- Trigger	N/A	N/A	Sí	Sí (Via Babyware)	Sí
Siren	Wired	Wired / Wireless with RTX3	Wired / Wireless with RTX3	Wired / Wireless with RTX3	Wired / Wireless with RTX3
Alarm Riley	N/A	N/A	1**	N/A	1
Event Buffer	256	256	256	256	256
Wireless Expansion	Yes	Yes	Yes	Yes	Yes
2-Wire Smoke Detector	N/A	N/A	Yes	N/A	Yes
GPRS (PCS Series)	Yes	Yes	Yes	Yes	Yes
Compatible with IP150+	Yes	Yes	Yes	Yes	Yes
Compatible with VDMP3	Yes	Yes	Yes	Yes (via PCS250)	Yes
Patented 2 opto coupler dialer circuit	Yes	Yes	Yes	N/A	Yes
In-field Firmware Upgradeable	Yes	Yes	Yes	Yes	Yes



- MG5000
- MG5050



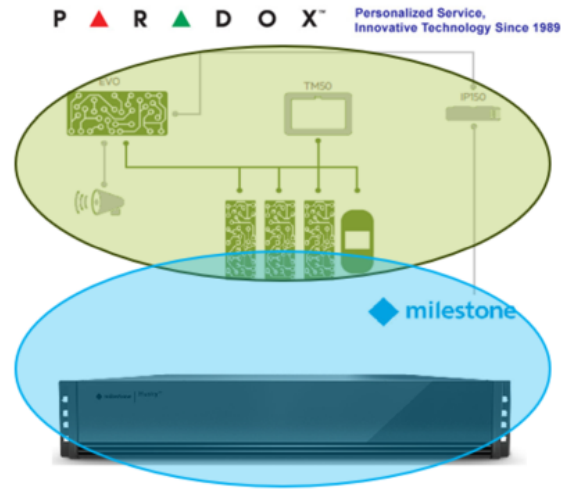
Integration architecture

To integrate Paradox's intrusion panels into Milestone, both the panel and the server on which the Milestone software platform has been installed must be connected via the network.

Initial set-up

The Paradox panels will establish ethernet communication with Milestone's XProtect platform, which contains the SGSE plugin that

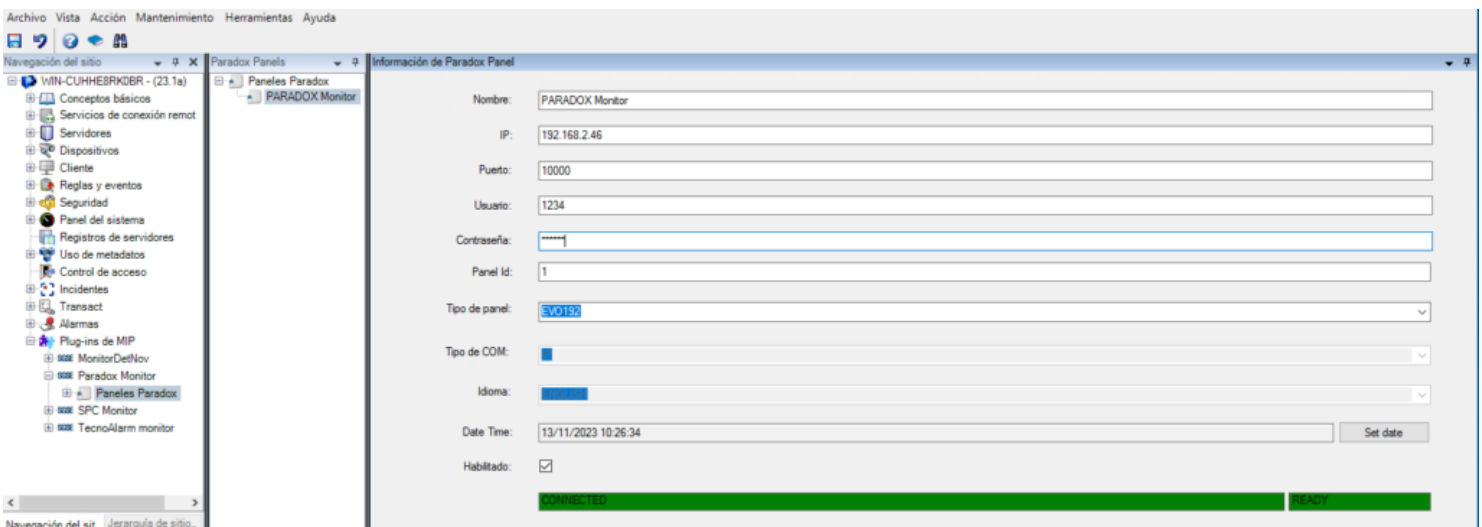
controls the panels by implementing the protocols designed by Paradox through this manufacturer's software development kit (SDK).



It is therefore necessary for the intrusion panel user account credentials, the information relating to the IP address and the communications port to be configured so that the plugin can communicate with the intrusion panels in the right way.

The registration of one or more Paradox intrusion panels that is/are associated with a site is very straightforward as it is just a case of entering the following details: the username and password, the IP address, and the communications port, among other things, as shown in the image below.

Click «save» to store the connection information in the plugin.



Implementation

If the information entered is correct, some fields will appear at the bottom of the panel management dialog box, just below the «Enabled» field, which will be highlighted in green. If the information entered is incorrect, the fields that will appear will be highlighted in a different colour and information will be displayed to show that communication between Milestone and the Paradox intrusion panel could not be established.

If communication has been established successfully, the information that has been entered should be saved so that the system can use it every time it is started up. This will make this process more straight forward and convenient.

To summarise, the steps to take are as follows:

- Enter the name of the connection/panel.
- Enter the IP address and the communications port.
- Enter the username and password for the intrusion panel user account.
- Save the account information



Configuration

Zones

The SGSE plugin facilitates the automatic collection of information on the configuration of the Paradox intrusion panel zones and displays the icons for each zone on the Milestone Smart Client maps to make the operator's job much easier.

Some of the most significant icons are shown below:

EVO Series

Element	Icon
Default	
EVO192 Intrusion panel with up to 192 zones and 8 on-board zones	

Element

Icon

EVO HD

Evo HD intrusion panel with up to 192 zones and 8 on-board zones.



PS17

Power Supply



K641 PLUS

High-performance keypad



K641X

Control keypad



K641R

Control keypad



K656

Control keypad



TM50

Touch keypad with wide range of functions



DG85

Outdoor high-security motion detector



DG467

360° ceiling mounted digital motion detector










































DM50,DM60 y DM70

DM50: Dual technology IR detector
DM60: Digital IR detector with quad optics

DM70: Digital IR detector with pet immunity



Element	Icon		
		ZX8 8-zone expansion module	
NV35MX Wired dual curtain IR detector for windows and sliding doors with anti-masking and pet immunity		ZX16 16-zone expansion module	
NV75MX Dual PIR detector with dual Mironel optics, up to 16 metres of coverage and anti-masking		ZX32 32-zone expansion module	
Spectra Series			
NV780MX Outdoor wired IR detector with 4 side sensors, an adjustable detection range of between 3 and 12 metres, and anti-masking and pet immunity		Element	Icon
		SP4000 Intrusion panel with up to 32 zones and 4 on-board zones	
NVX80 Outdoor triple technology detector with double PIR, microwaves and anti-masking		SP5500 Intrusion panel with up to 32 zones and 5 on-board zones	
DG457 Glass breakage detector		SP6000 Intrusion panel with up to 32 zones and 8 on-board zones	
ZC1 Magnetic detector		SP7000 Intrusion panel with up to 32 zones and 16 on-board zones	
RTX3 32-zone wireless expansion module		SP65 Intrusion panel with up to 32 zones	
ZX1 Single-zone expansion module		TM70 TOUCH Touch keypad with wide range of features	
ZX4 4-zone expansion module			

Element	Icon		
		RX1 Wireless receiver	
TM70WB Touch keypad with wide range of features			
		PGM82 Expansion module with 8 programmable outputs	
TM50 TOUCH Touch keypad with wide range of features			
		PS45/PS25 Power Supply	
K32LCD+ Keypad with LCD display		Magellan Series	
		Element	Icon
K32+ LED keypad for 32 zones		MG5000 Intrusion panel with up to 32 wireless zones and 2 on-board zones	
K35 LED keypad for 32 zones		MG5050 Intrusion panel with up to 32 wireless zones and 8 on-board zones	
K636 LED keypad for 10 zones			
K10V LED keypad for 10 zones		TM70 TOUCH Touch keypad with wide range of features	
K10H LED keypad for 10 zones		TM70WB Touch keypad with wide range of features	
RTX3 32-zone wireless expansion module		TM50 TOUCH Touch keypad with wide range of features	
ZX8 8-zone expansion module		K32LCD+ Keypad with LCD display	
ZX82 8-zone expansion module		K32+ LED keypad for 32 zones	

Element

Icon

Element

Icon

K35
LED keypad for 32 zones



PMD75
Dual optical PIR detector



K636
LED keypad for 10 zones



SR230
Wireless outdoor siren with built-in strobe light



K10V
LED keypad for 10 zones



SR250
Wireless outdoor siren with built-in strobe light



K10H
LED keypad for 10 zones



DCT6
Wireless magnetic contact



RTX3
32-zone wireless expansion module



DCT10
High-quality dual-zone magnetic contact



ZX8
8-zone expansion module



DCTXP2
Dual-zone wireless magnetic contact



ZX82
8-zone expansion module



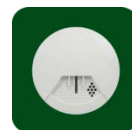
DCT2
Ultra small magnetic contact



NV37MR
Dual wireless detector for doors and windows



SD360
Wireless smoke detector



NV780MR
Outdoor wireless dual detector



G550
Wireless glass breakage detector



PMD2P
Dual optical PIR detector



RPT1+
Wireless repeater module



PMD75N
Dual optical PIR detector



PS45/PS25
Power Supply

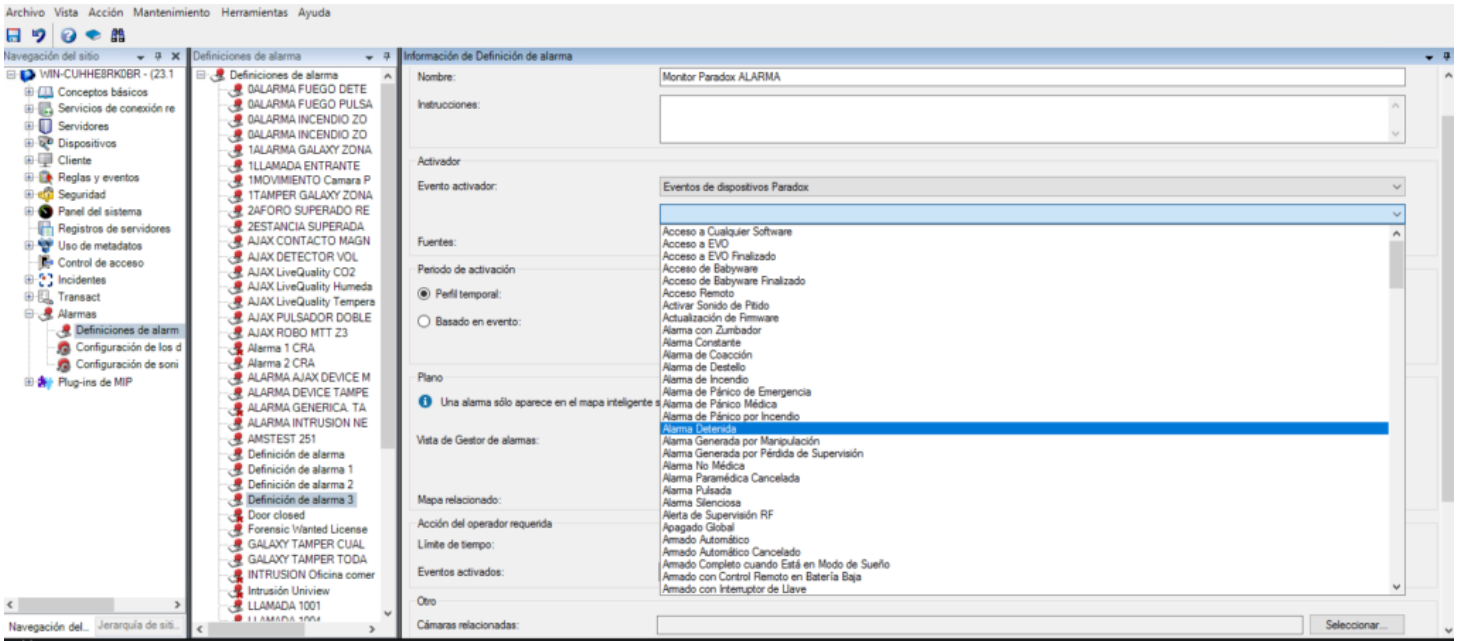


Events: alarms and rules

Alarms

When intrusion events (such as the detection of intrusion elements, and the arming and disarming of partitions, among other things) or other events occur in the panel, the plugin will notify Milestone of these events.

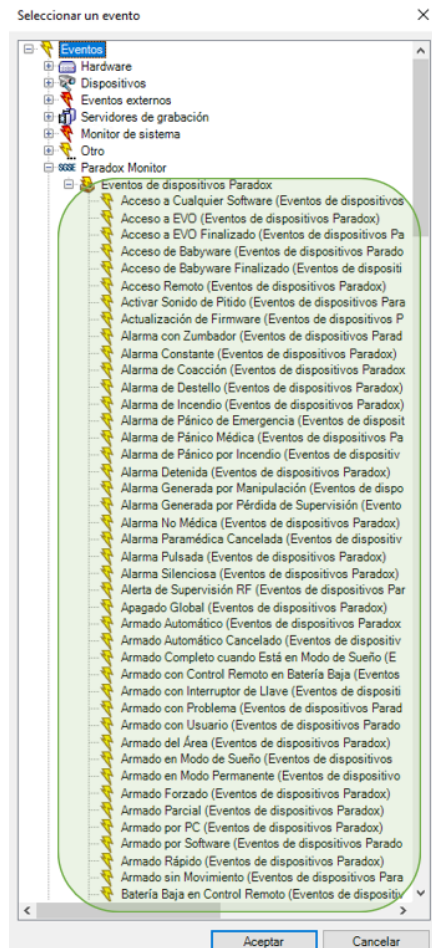
Depending on how they arise, these events can be used to define customized alarms in Milestone.



Events

Just as certain intrusion events can be used to define customized alarms, plugin events can be used to define automated rules in Milestone, linking the intrusion events to any other technology available at the facility which has been integrated into this software platform.

By way of example, when an intrusion event occurs in the Paradox intrusion panel, such as the detection of an intrusion in a zone, any of several actions that are enabled in the rules engine can be performed: activating a digital output, playing an audio message, moving a pan, tilt and zoom (PTZ) camera, and sending an email, among other things.

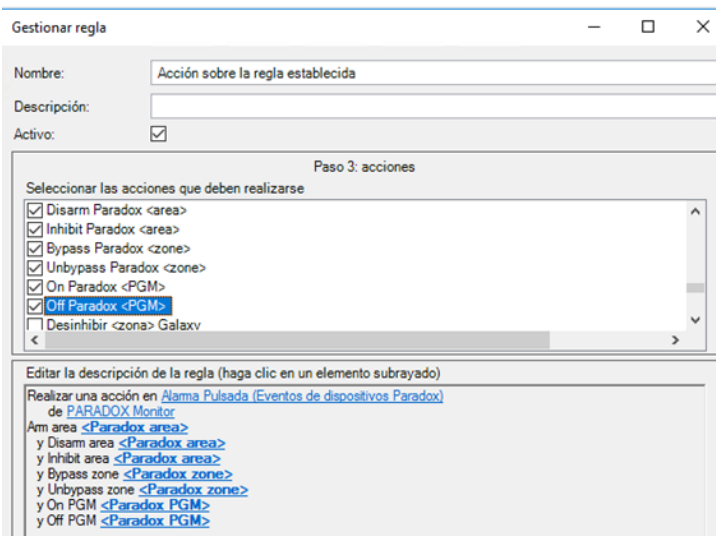


Performing actions on the Paradox intrusion panel from the Smart Client

The example mentioned previously is not the only type of interaction that can occur with the Milestone rules engine; the rules engine also facilitates interaction with the intrusion panel itself when any event occurs in Milestone, including user-defined events that can be triggered from the Smart Client, the Web Client or even the Mobile Client.

The following actions can be performed on the intrusion panel:

- Arm a panel
- Disarm a panel
- Arm an area (partition)
- Disarm an area (partition)
- Arm all areas
- Disarm all areas
- Activate/deactivate an output (action)
- Isolate a zone
- Deisolate a zone

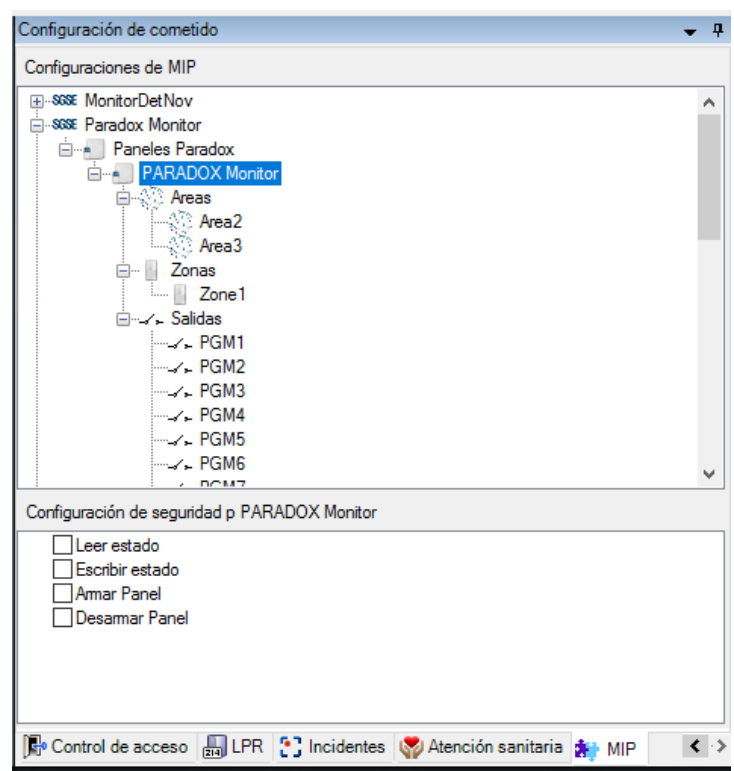


We can activate one of the panel outputs (actions), for example, when a particular event occurs in Milestone. We can also create a user-defined event called «arm system» which, when activated, triggers the command to arm the entire system.

The «arm Paradox» event can be activated from the Smart Client or even the Mobile Client.

Setting permissions for different roles/users: «role configuration»

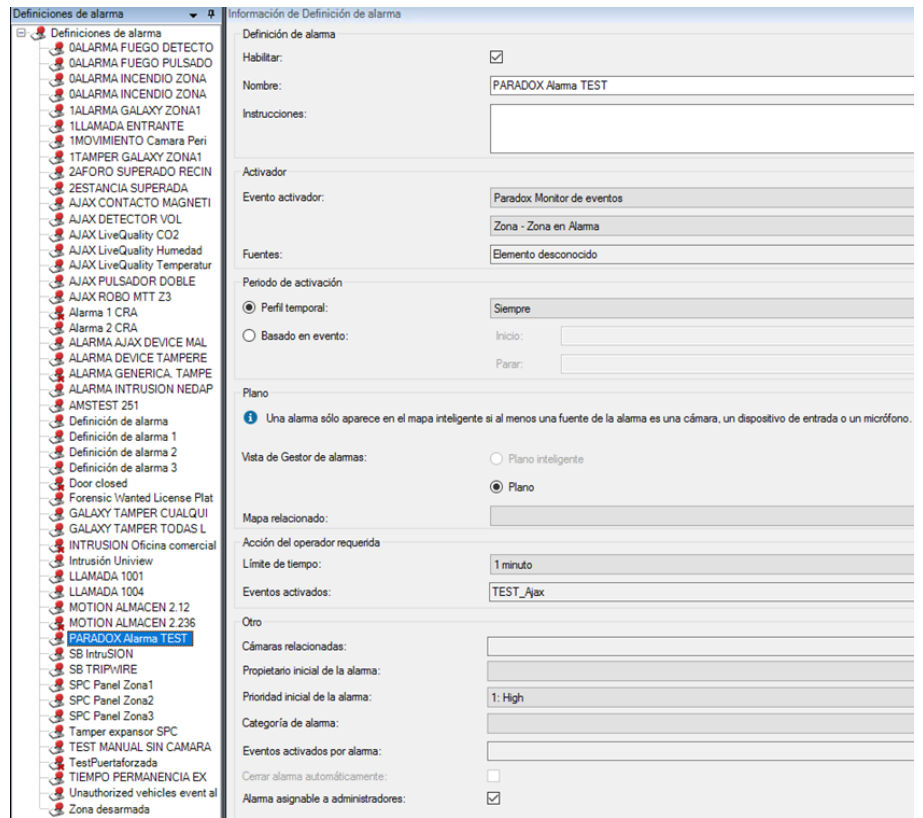
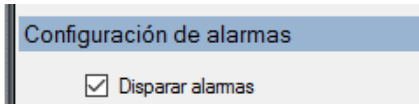
The plugin facilitates interaction with the different elements of the Paradox panel. However, the scope of this interaction will depend on the permissions applied to the Milestone user's role. Limitations can be placed on the scope of the interaction with the different elements by assigning specific permissions. If a user belongs to a group or has a role that does not have any specific management permissions relating to an element associated with it, this user will not be able to take any action on this element (such as arming or disarming it or cancelling it).



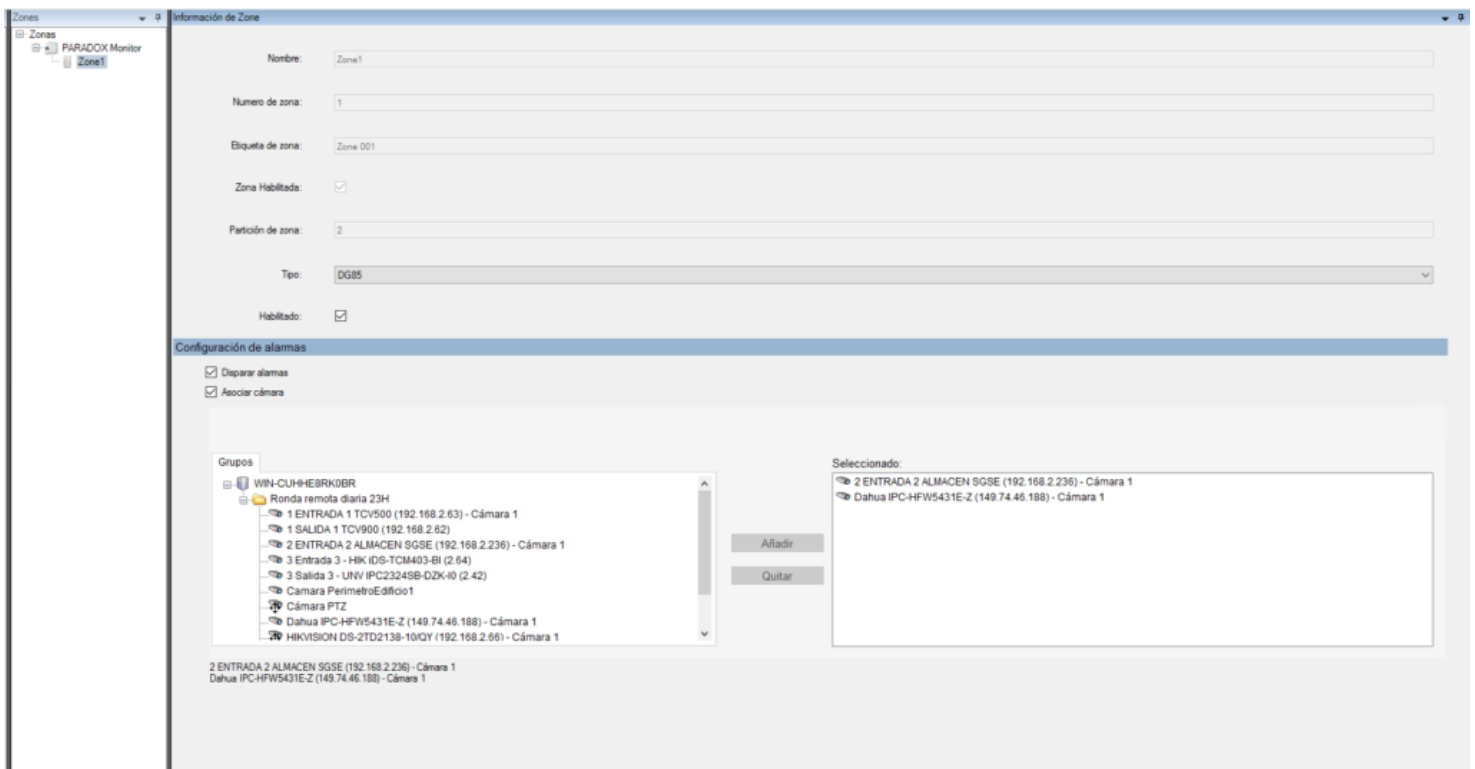
Automatic parameterisation of alarms

In order to simplify the configuration process for the system administrator, SGSE has introduced a new feature that automatically configures the alarms for the zones managed from the plugin. This means that all the zone alarms will be configured implicitly (these will be identified within the name of the zone) when the SGSE plugin is started up, which avoids the need to access the Milestone menu to set the alarms.

The alarm can be enabled or disabled with just one click.



In addition to this new feature, it will also be possible to choose the camera or cameras that will be linked to the zone when it is alarmed.



















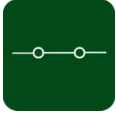


Operation and user interface

The status of the different elements of the intrusion deployment can be seen in Milestone's Smart Client, including the panel itself, the partitions, the zones and the outputs.

The status of each element is indicated by the colour displayed on the icon. The status indicated by each colour is shown in the table below:



ITEM	STATUS	ICON
Panel	Normal	
	Armed	
	Partially armed	
	Alarmed	
	Unknown	
Zones	Normal	
	Armed	
	Alarmed	
	Isolated	
	Sabotaged	
	Malfunctions	
	Unknown	

ITEM	STATUS	ICON
Area (partition)	Normal	
	Armed	
	Alarmed	
	Unknown	
Outputs	Activated	
	Deactivated	
	Tests	

Not only is the status of the elements visible, but it is also possible to interact with them by right-clicking on their corresponding icons.

Depending on the type of element that is clicked on, a pop-up menu will allow us to perform certain actions.

If we right-click on an **area** (partition) icon, we can:

- Arm area
- Disarm area
- Inhibit area
- Forcedly arm.
- Instantly arm.
- Defer arming.



If we right-click on a **zone** icon, we can:

- Omit zone
- Unomit zone



If we right-click on an **output**, we can:

- Activate it
- Deactivate it
- Test it










Integration of EVO's RTX3 radio zone expansion modules into Milestone

Paradox's radio expansion modules can control up to 32 wireless zones. This makes it possible to extend the working distances of the electronic security deployments, as shown in the image below:



The icons indicating the different statuses of Paradox's RTX3 expansion module in Milestone are shown in the table below:








ITEM	STATUS	ICON
RTX3	Normal	
	Alarmed	
	Armed	
	Isolated	
	Sabotaged	
	Malfunctions	
	Unknown	

Integration of the TM50 touch keypad into Milestone

The TM50 wired touch keypad is just one of the devices that has been integrated into Milestone.

The icons indicating the different statuses of Paradox's TM50 touch keypad in Milestone are shown in the table below:



ITEM	STATUS	ICON
TM50	Normal	
	Armed	
	Alarmed	
	Isolated	
	Sabotaged	
	Malfunctions	
	Unknown	

Integrate your Paradox intrusion deployments into Milestone with SGSE.