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# BIDEYE

A MILESTONE + SATEL  
plugin

developed by  
AXIANS

VINCI  
ENERGIES



The image features a close-up of a blue Ethernet cable connector, positioned diagonally from the bottom right towards the center. The background is a vibrant, abstract composition of glowing fiber optic lines in shades of blue and purple, creating a sense of digital connectivity and data flow. The overall aesthetic is modern and technological.

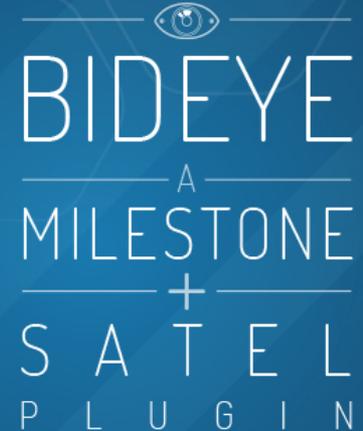
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BIDEYE PLUGIN

# BIDEYE Plugin

Axians Brand id has developed a solution, first of its kind on the market, which allows the integration of SATEL Intrusion Detection units with Milestone Video surveillance solutions.

This solution stems from the need to combine the Milestone's capability to integrate third-party systems through its powerful MIP (Milestone Integration Platform) engine, with the versatility of SATEL plants in order to create a single control panel environment which complies with strict safety requirements, able to reach large, extensive sites without a control panel in a given territory.

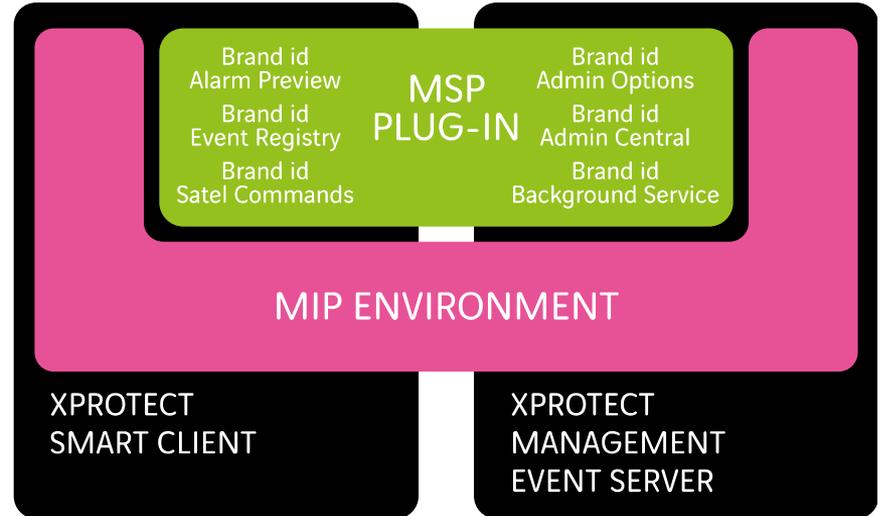


# BIDEYE Milestone Plugin

Thanks to Milestone's native management of federation and the ability of the plugin created by Brand id to manage it, it is now possible to merge all events/alarms from the various SATEL INTEGRA control panel, thus "transforming" them as Milestone native events.

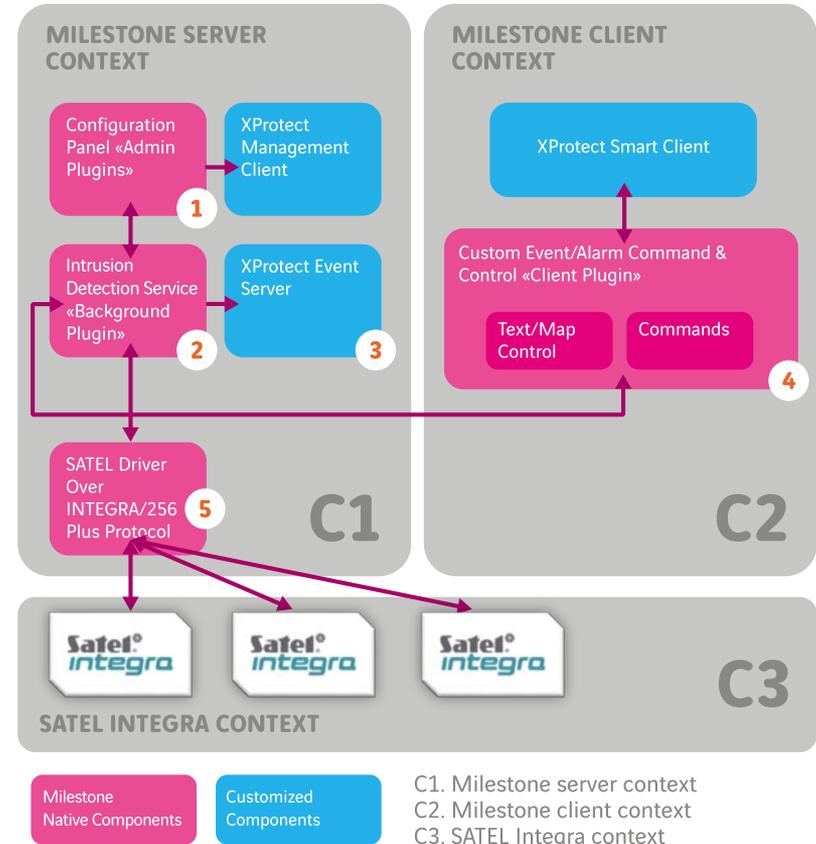
Once it has become a «native event», the event/alarm of the SATEL INTEGRA control panel can be used to trigger alarms, activate further events and/or complex management logics.

The Axians Brand id solution, moreover, allows the easy and intuitive production of standard or ad-hoc written reports.



# BIDEYE Architecture

1. Configuration plugin that runs in Management Client developed for configuration purpose.
2. Integration core plugin that controls SATEL control panel and create/modify/delete Milestone native events.
3. Plugin reads Satel events/alarms and generates native Milestone events that pushes to Milestone Event Server.
4. In the Milestone Smart lives client plugins that controls control panel by text and map components.
5. SATEL/Integra driver that implements integration protocol commands. Currently we support firmware version ETHM-1 Plus v2.05 2018-07-06 and later.



C1. Milestone server context  
 C2. Milestone client context  
 C3. SATEL Integra context

# BIDEYE Implemented Satel commands

Command	Code	Package
List of new data in above cmds	0x7F	Standard
INT-RS/ETHM-1 module version	0x7C	Standard
Read device name	0xEE	Standard
Read Event	0x8C	Standard
Get event text	0x8F	Standard
Zones Violation	0x00	Standard
Zones Tamper	0x01	Standard
Zones Alarm	0x02	Standard
Zones Tamper Alarm	0x03	Standard
Zones Alarm Memory	0x04	Standard
Zones Alarm Tamper Memory	0x05	Standard
Zones Bypass	0x06	Standard
Zones No Violation Trouble	0x07	Standard
Zones Long Violation Trouble	0x08	Standard
Zones Isolate	0x26	Standard
Zones Masked	0x28	Standard
Zones Masked Memory	0x29	Standard
Output State	0x17	Standard

Command	Code	Package
Arm in mode 0	0x80	Silver
Disarm	0x84	Silver
Clear alarms	0x85	Silver
Zones bypass	0x86	Gold
Zones unbypass	0x87	Gold
Output On (anche da regole Milestone)	0x88	Gold
Output Off (anche da regole Milestone)	0x89	Gold
Read users list	0xE2	Platinum
Read self-info	0xE0	Platinum
Read User	0xE1	Platinum
Troubles*	0x1A...0x1F 0x2C...0x2D	Platinum
Troubles Memory*	0x20...0x24 0x2E...0x2F	Platinum
Users Management	0xE1...0xE7	Platinum

More commands will be implemented in the future.

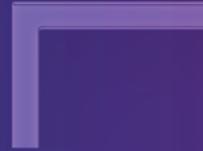
\*Available from February 2021

# BIDEYE Features

Features	Plugin	Description
Multi control panel support	BIDEYE BACKGROUND	Every installation can manage multi control panel Satel.
Milestone Federation	BIDEYE BACKGROUND	Native support for FMA (Federation Milestone Architecture).
SATEL events configuration	BIDEYE ADMIN	Customer can configure SATEL events by single/multi granularity to reduce Event Server load.
Full configurability	BIDEYE ADMIN	Customer can configure all parametry by Milestone Management Console.
Events Control	BIDEYE BACKGROUD	All configured SATEL events are monitored and, if activated, pushed in Milestone Event Server.
Events Command	BIDEYE BACKGROUND BIDEYE ALARM PREVIEW	Customer can arm and disarm partitions, close alarms, bypass and unbypass zones directly from Milestone Smart Client.
Custom reports	BIDEYE REPORT	Customer can show costum report directly from Milestone Smart Client. Our solution use opensource Jasper Server as report repository.
Visual Map representation	BIDEYE MAP	Customer can show custom and manage SATEL event directly from Milestone Map. The zones and partitions are configured by BIDEYE ADMIN.
Users Management	BIDEYE USERS	Customer can add/delete/modify SATEL users directly from Milestone Smart Client.
I18N Support	ALL	Internationalization. At the time, Italian and English supported.

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SOME  
SCREENSHOTS

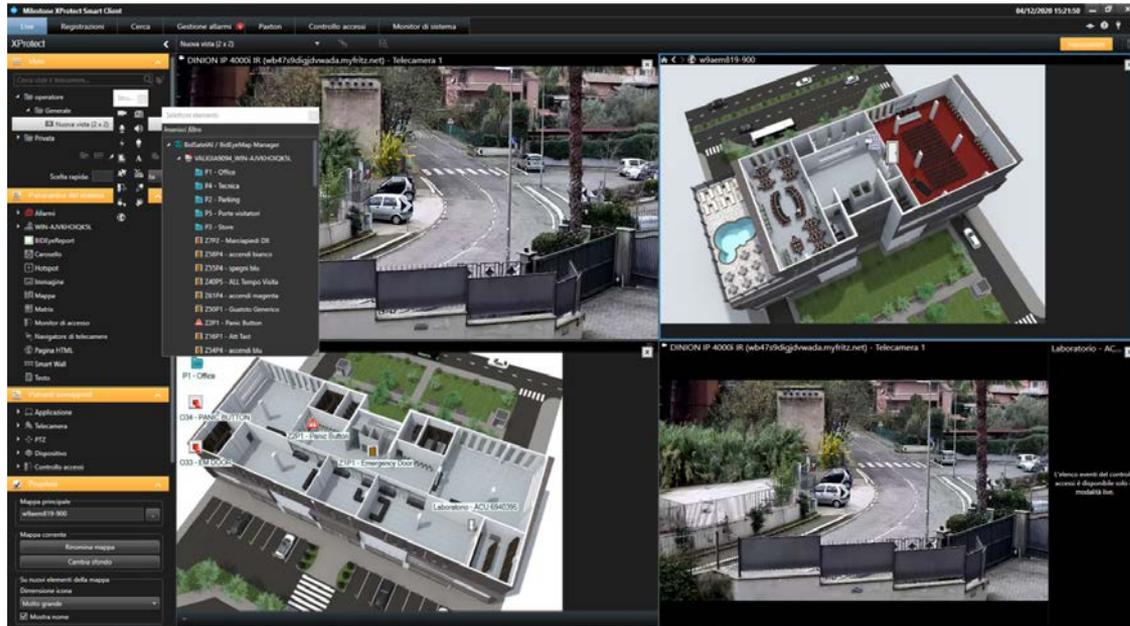


# Alarm preview and closing form

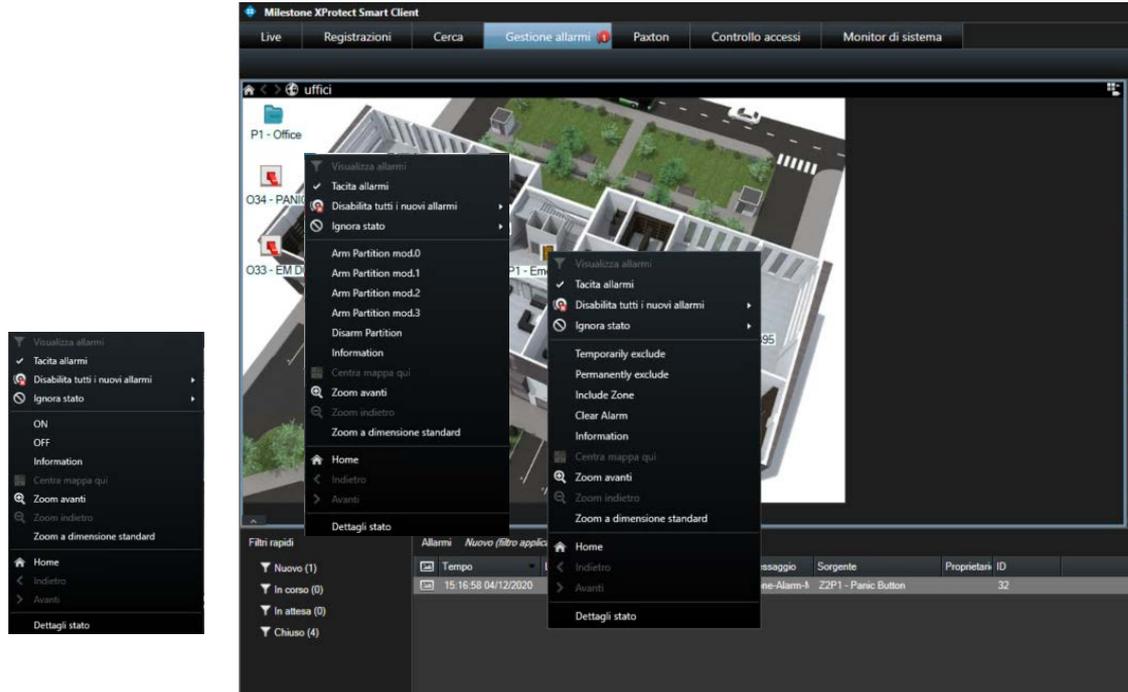
The screenshot displays a security camera interface. On the left, a live video feed shows a street scene with a car and a building. The video player controls at the bottom indicate a timestamp of 15:17:33.749 on 04/12/2020. On the right, an overlay window titled "Dettaglio allarme" (Alarm Details) is visible. It contains the following information:

- Op. Code:** A field with four asterisks (\*\*\*\*) and the role "(administrator)".
- Motivazione chiusura:** A dropdown menu currently showing "Altro" (Other).
- Allarme partizione:** A text field containing "ED00 P001-Office Z002-Panic Button".
- Istruzioni gestione allarme:** A large empty text area.
- Chiuide allarmi di partizione:** A button to close partition alarms.
- Verificato:** A checked checkbox indicating the alarm has been verified.

# Map representation



# Map commands



# View of Reports

Reports disponibili

- Configurazione-SATEL - Report che estrale la configurazione delle centrali SATEL.
- Customers Report - Customers Report
- Export allarmi - Esporta gli allarmi SATEL
- Map Report - Map Report
- Table Report - Table Report

Lista filtri

22/08/2019 23/08/2019 Tutte Tutte

Pdf  Excel  Word  Html

[\bideye\reports\Customers Report-2019-08-05.pdf](#)

[\bideye\reports\Configurazione-SATEL-2019-08-05.pdf](#)

Esegui [Premere qui per visualizzare il report](#)



# Configuration Management Client User Satel

**Controller Information**

FillBy

Enabled

ID: 1 PlugIn License State: **Active**

Central name: VALGIA9094\_WIN-AJVKHQIKSL

IP Address: wb47s9dgdvwa.myfritz.net 9094

Test Central State: **Not connected**

Central ETHM firmware version: **N/A**

Poling (ms): 1000

Control  Command  Satel Read Events

Admin tools: Remove Item by Guid Remove all map items

Authorization (username): ""

Closing reason:

Synchronization SATEL Station

Sync Satel Zone/Partions/Outputs

Use the "Sync Satel Central Zone / Partion" command to synchronize the zones / partions / outputs with the satel station with the local database and generate the corresponding ICONS. Warning: this can take several minutes. Erase commands can be used to remove data from the system.

**Information**

Partions Zones Outputs Groups Manage Users Read Events Scheduler

Operator Code: \*\*\*\* Load Loading user 8 of 8.

Number	Name	Type	Duration	Code
1	Adm Integrum	0: Normal		****
2	Ann GPG	0: Normal		****
3	test1	0: Normal		****
4	test2	0: Normal		****
5	Antonio	0: Normal		****
6	Uscite	0: Normal		****
7	Isaacno	0: Normal		****
8	Paxton	0: Normal		****

Partions User Rights Locks

- 0 -> arming
- 1 -> disarming
- 2 -> alarm clearing in own partions
- 3 -> alarm clearing in own object
- 4 -> alarm clearing in whole system
- 5 -> am defering
- 6 -> code changing
- 7 -> users editing
- 8 -> zones bypassing
- 9 -> clock setting
- 10 -> troubles viewing
- 11 -> events viewing
- 12 -> zones resetting
- 13 -> options changing
- 14 -> tests
- 15 -> downloading
- 16 -> can always disarm
- 17 -> voice messaging clearing
- 18 -> GuardX using
- 19 -> access to temporary blocked partions

Save

# Configuration and events selection

The screenshot displays the Milestone XProtect Management Client 2020 R3 interface. The left sidebar shows a tree view with categories like Cameras, Microphones, Speakers, Metadata, Input, Output, Client, Smart Wall, View Groups, Smart Client Profiles, Management Client Profiles, Matrix, Rules and Events, Rules, Time Profiles, Notification Profiles, User-defined Events, Analytics Events, Generic Events, Security, Roles, Basic Users, System Dashboard, Current Tasks, System Monitor, System Monitor Thresholds, Evidence Lock, Configuration Reports, Server Logs, Metadata Use, Access Control, Transaction, Transaction sources, Transaction definitions, Alarms, MIP Plug-ins, and BIDEYE. The BIDEYE section is expanded to show Controllers, Partitions, Zones, and Outputs.

The main window shows the configuration for a controller named VALGIA9094\_WIN-AJVK. The Controller Information panel includes fields for ID (1), Central name (VALGIA9094\_WIN-AJVKHIGKSL), IP Address (wb478), Polling (ms) (1000), and Admin tools (Remove Item by GUID). The Events tab is active, showing a list of events with checkboxes for selection. The 'Enable Events' checkbox is checked, and the 'Enable Grouped events' checkbox is unchecked. A 'Service admin op code' field is also present.

A 'Closing reason' dialog box is open, displaying a warning message: "Use the 'Sync Sabel Central Zone / Partition' command to synchronize the zones / partitions / outputs with the sabel station with the local database and generate the corresponding ICONS. Warning: this can take several minutes. Erase commands can be used to remove data from the system." Below the message is a list of partition rights and locks:

Partitions	User Rights	Locks
<input type="checkbox"/> 0 -> arming		
<input type="checkbox"/> 1 -> disarming		
<input type="checkbox"/> 2 -> alarm clearing in own partitions		
<input type="checkbox"/> 3 -> alarm clearing in own object		
<input type="checkbox"/> 4 -> alarm clearing in whole system		
<input type="checkbox"/> 5 -> arm deleting		
<input type="checkbox"/> 6 -> code changing		
<input type="checkbox"/> 7 -> users editing		
<input type="checkbox"/> 8 -> zones bypassing		
<input type="checkbox"/> 9 -> clock setting		
<input type="checkbox"/> 10 -> troubles viewing		
<input type="checkbox"/> 11 -> events viewing		
<input type="checkbox"/> 12 -> zones resetting		
<input type="checkbox"/> 13 -> options changing		
<input type="checkbox"/> 14 -> tests		
<input type="checkbox"/> 15 -> downloading		
<input type="checkbox"/> 16 -> can always disarm		
<input type="checkbox"/> 17 -> voice messaging clearing		
<input type="checkbox"/> 18 -> QuartzX using		
<input type="checkbox"/> 19 -> access to temporary blocked partitions		

Buttons for 'Help', 'OK', and 'Cancel' are visible at the bottom of the dialog box.

# BIDEYE Licensing

Package	Description
BIDEYE-GAMG	Alarm monitoring from Satel Integra. Arm & Disarm Partitions and Clear Alarms, Map management, Export of PDF of SATEL event log, Zone management even if not alarmed, Bypass zones (temporary and permanently), Unbypass zones, includes Trouble cancellation*, Output activation, Output deactivation, Forced activation, and capabilities to use User Event to command SATEL outputs directly by native Milestone Rules engine. Includes 1 year corrective software maintenance(updates, patches, bug fixing)
BIDEYE-PAMG	Includes what is included in the Gold version + management of some alarms coming from Satel (includes Reading user data, Reading user list, Reading user lock, Reading user unlock, User deletion, User creation, User modification). <span style="float: right;">* Available from February 2021</span>
BIDEYE-MGP1Y	Corrective maintenance 1 additional year of BidEye software in Gold, Platinum versions.
BIDEYE-MGP3Y	Corrective maintenance 3 additional year of BidEye software in Gold, Platinum versions.

\* Available from February 2021

Assistance		
Package	Description	Price
BIDEYE-AGPR	Remote activation of BidEye software in Gold and Platinum versions	On Demand
BIDEYE-AGPO	Activation of BidEye software in Gold, Platinum versions on-site	On Demand

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CONFIRMATION OF  
COMPATIBILITY



Milestone Verified



## Milestone Verified

Confirmation of Compatibility

Partner: BrandId

Partner Product: BIDEYE 2.1

Milestone Product XProtect®: *XProtect Corporate 2020 R2*

Date of Verification: *26/08/2020*





## CONTACT

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# Thanks

