

# Milestone XProtect Integration

## Most Recent Update : 06/10/2020

**Objective:** This article demonstrates a few of the capabilities that may be achieved by GJD IP devices within Milestone Xprotect.

<u>Note</u>: This article assumes that you have already gone through process of adding your GJD IP product to Milestone Management Client. If you have yet to do so, please visit our knowledge base to learn how, or visit our YouTube page for a step-by-step tutorial.

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## IP Motion Sensors – Reliable Human Detection Deployments

Note: if you plan on using a GJD IP motion sensor with a camera for recording purposes, be sure to modify the **Default Record on Motion Rule** to reflect the appropriate expectations. This setup process will enable cameras to record based on alarm inputs from a D-TECT IP motion sensor.

1. On the left pane, select **Inputs** and open the folder containing your GJD D-TECT Inputs. Currently, we have all inputs of our devices in one folder. If you haven't already separated them for ease of use, we will do so now.

Milestone XProtect Management Client 2019 R3		
File Edit View Action Tools Help		
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Site Navigation	Devices	а П
		Ť
<ul> <li>DESKTOP-ORCUJTA - (13.3a)</li> <li>Basics</li> <li>Remote Connect Services</li> <li>Servers</li> <li>Recording Servers</li> <li>Failover Servers</li> <li>Mobile Servers</li> <li>Devices</li> <li>Cameras</li> <li>Microphones</li> <li>Speakers</li> <li>Metadata</li> <li>Input</li> <li>Output</li> <li>Client</li> <li>Rules and Events</li> <li>System Dashboard</li> <li>Server Logs</li> <li>Access Control</li> </ul>	Input     I	
⊕ 🗓 Transact ⊛ 🛃 Alarms		



2. Right click on the Input icon and select Add Device Group. We will name it D-TECT Inputs. Click OK.

Add Device Gr	oup	×
Name:		
D-TECT Input	s	
Description:		
1		~
		·
	OK	Cancel

3. Right click on your new folder and select **Edit Device Group Members**. Select all your **D-Tect Driver** inputs and add them over to the new folder, then click **OK**. Replicate this process for D-Tect Outputs.

Device Groups Recording Servers	_	11		Calastad.
∃rofo Input				Selected:
	A			Contract Driver (localhost-70-b3-d5-d1-f9-d1) - Lo
🕀 🫅 D-TECT Inputs				Co D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Pl
🖻 🛅 Input Group 1				Co D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Ta
Clarius Driver (localhost-70-b3	·d5-			Co D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Te
Clarius Driver (localhost-70-b3)	-d5-			
Clarius Driver (localhost-70-b3	-d5-			
Clarius Driver (localhost-70-b3)	d5-			
D-Tect Driver (localhost-70-b3)	d5-		Add 🕨	
D-Tect Driver (localhost-70-b3)	d5-			
D-Tect Driver (localhost-70-b3)	d5-		Remove	
D-Tect Driver (localhost-70-b3)	d5-			
	8.			
	8.			
	8.			
	8.			
MERIT-LILIN MR3022A (192.16	8.			
MERIT-LILIN MR6322A (192.16	8.			
MERIT-LILIN MR6322A (192.16	8.			
MERIT-LILIN MR6322A (192.16	8			
- MEDIT HI IN MD6222A (102.10	• _ *			
	>			
				OK Creat

Tip: If using only PIR Detection with multiple motion sensors, create a folder called 'PIR Detection' and put all your PIR Detection inputs in there for ease of use.

4. Navigate to Alarm Definitions, right click and select Add New. Give a new name and a list of instructions if desired.

Alam definition			
Enable:			
Name:	D-TECT PIR Detection		
Instructions:	<ol> <li>Visually Verify Alarm</li> <li>Dispatch on-site personnel</li> <li>Escalate to local authorities if required</li> </ol>		



5. Under **Trigger Event**, use the drop-down menu to select **External Events**. Under Source, navigate to your inputs folder and select **PIR Detection** on the motion sensor(s) that will be triggering this event.

External Events
D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection

6. Under Other, click select for Related Cameras and choose the desired cameras you would like to add. Click OK when done. Click Save in the upper left corner of Milestone Management Client when finished.

Select Related Cameras		×	
Groups Servers  DESKTOP-ORCUJTA  Groups Office  MERIT-LILIN MR3022A (192  MERIT-LILIN MR6322A (192		Selected: MERIT-LILIN MR3022A (192.168.1 MERIT-LILIN MR6322A (192.168.1	
	Add Remove		
< >		< > OK Cancel	

7. Navigate to **Rules and Events** on the left pane. Select **Rules**, right click and select **Add Rule.** We will name this rule PIR Bookmark.

Manage Rule		_	$\times$
Name:	PIR Bookmark		
Description: Active:			



8. Make sure **Perform an action on <event>** is selected.



9. Now we must assign an event & where that event is coming from. Select Event>Devices>Configurable Events>Input Activated.



10. Click **devices/recording\_server/management\_server** and select your D-Tect Driver PIR Detection. Add the input over and click **Next** when finished.

Edit the rule description (click an underlined item) Perform an action on Input Activated from devices/recording server/management server  1					
Select devices and groups					
Device Groups Recording Servers	Selected: 2				
→ Carl Input → Corl D-TECT Inputs → Corl D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Low light dete					
Co D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection Co D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Tamper					
D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Temperature     D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Temperature	Add				

11. You will now be given the option to use and **Conditions** you would like to add, however for this example the PIR Detection Event will be operating 24/7. Once you made your conditions, click **Next**.



12. Select the first available option under Actions, Start recording on <devices>.

Name:	PIR Bookmark		
Description:			
Active:			
	Step 3: Actions		
Select actions to perform			
Start recording on <devices></devices>			

13. Select recording device.

Edit the rule description (click an underlined item)		
Perform an action on Input Activated from D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection		
start recording immediately on recording device		

14. Choose your devices you would like to record from. In this case, we will Add two cameras, then click OK.

Select devices and groups	×
Device Groups Recording Servers Cameras All cameras Office MERIT-LILIN MR3022A (192.168.1.15 MERIT-LILIN MR6322A (192.168.1.15	Selected: MERIT-LILIN MR3022A (192.168.1.156) - Came MERIT-LILIN MR6322A (192.168.1.153) - Came
All Microphones	dd 🕨

15. Scroll down the list of available actions until you see Create Bookmark on <devices>.

Manage Rule		_		×		
Name:	PIR Bookmark					
Active:	Active:					
	Step 3: Actions					
Select actions to pe	rform					
Pause patrolling	Pause patrolling on <devices></devices>					
Move <device>t</device>	Move <device> to <preset> position with PTZ <priority></priority></preset></device>					
Move to default preset on <devices> with PTZ <priority></priority></devices>						
Set device output to <state></state>						
Create bookmark on <devices></devices>						



16. We now need to designate what information is generated to what devices.

Edit the rule description (click an underlined item)	
Perform an action on Input Activated	
from D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection	
Create bookmark Bookmark on devices	

17. First, click on **Bookmark**. There are many different combinations and ways to create your headline and description, however this example gives an informative approach. Starting with our **Headline**, we will do the following:

<u>Headline</u> : 1.) Click Rule Name 2.) Add a space, hyphen, space then click Device Name	
Bookmark Details	$\times$
Headline	
\$RuleName\$ - \$DeviceName\$	
Add system information (click links to insert variables in bookmark text)  Device name Event name Triggering time Rule name Recording server name	Cancel
OK	Cancel

18. For the **Description**, we will add a few metadata strings that accurately describe the rule, time it was triggered and from what recording server it came from. Adjust the Pre-bookmark & Post-bookmark parameters to your requirements and click **OK** when finished.

<u>Description</u> : 1.) Click Rule Name 2.) Add a space, hyphen, sp 3.) Type 'Triggered at' 4.) Click Trigger Time, type 'f	ace rom' and click Recording server name	
Bookmark Details		
Headline		
<pre>\$RuleName\$ - \$DeviceName\$</pre>		
Description		
\$RuleName\$ - Triggered at \$Trig	gerTime\$ from \$RecorderName\$	1
	Pre-bookmark time (seconds)	10 🗄
	Post-bookmark time (seconds)	30
Add system information (click lin Device name Event name Triggering time Rule name Recording server name	ks to insert variables in bookmark text)	
	ОК	Cancel



19. Click **Devices** and select the cameras you would like to add to be bookmarked. Click **OK** when done.

Edit the rule description (click an underlined item) Perform an action on Input Activated from D-Tect Driver (localhost-70-b3-d5-d1+f9-d1) - PIR Detection Create bookmark <u>\$RuleName\$ - \$DeviceName</u> \$ on <u>devices</u>						
Device Groups Recording Servers  Cameras  Griffice  Griffice  MERIT-LILIN MR3022A (192.16  MERIT-LILIN MR6322A (192.16	Selected: MERIT-LILIN MR3022A (192.168.1.156) MERIT-LILIN MR6322A (192.168.1.153)					

20. Select Make new <log entry> action. Like the previous steps, add Rule name and Device name as pictured below. Click OK and Next.

1 → Make new <log entry=""> Start plug-in on <devices></devices></log>	Select a Log Entry	$\times$
Stop plug-in on <devices> Apply new settings on <devices< td=""><td>Text to log: \$RuleName\$ - \$DeviceName\$ - 3</td><td></td></devices<></devices>	Text to log: \$RuleName\$ - \$DeviceName\$ - 3	
Edit the rule description (click an u Perform an action on <u>Input Activated</u> from <u>D-Tect Driver (localhost-704</u> Create bookmark <u>\$RuleName\$ - \$De</u>	Add system information (click links to insert variables in log text)           Device name           Event name	
and Create log entry: log entry	<u>Triggering time</u> <u>Rule name</u> <u>Recording server name</u>	
<	OK Cancel	

21. Add a stop action for your recording. You can do this by adding a **Perform stop action on <event>**, or by **Perform stop action after <time>**. Depending on your requirements, this option will vary. We will use **Perform stop action <event>** for this example.





22. Perform stop action on Input Deactivated will be there by default, as well as seeing where its coming from. Click Next.

Edit the rule description (click an underlined item)
Perform an action on Input Activated
from D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection
start recording immediately on MERIT-LILIN MR3022A (192.168.1.156) - Camera 1, MERIT-LILIN MR6322A (192.168.1,
and Create bookmark <u>\$RuleName\$ - \$DeviceName\$ on MERIT-LILIN MR3022A (192.168.1.156) - Camera 1, MERIT</u>
and Create log entry: <u>'\$RuleName\$ - \$DeviceName\$</u> '
Perform stop action on <u>Input Deactivated</u> from <u>D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection</u>
< >>

23. Add a stop action for recording, which we can see is automatically generated. If your requirements are different, click **Immediately** to adjust. Click **Finish** when done.



## Smart Client – Alarm Notifications & Bookmarks

1. Launch Smart Client. After testing your motion sensor with a few walk tests, click on Alarm Manager. Here we can see several alarms created automatically by the D-TECT PIR Detection source. Clicking each one will play footage associated with it.

Quick Filters	Alarms New (filter applied) V Clear filter							
<b>T</b> New (19)		Time	Priority Level	State Level	State Name	Message	Source	
T In progress (0)		2:56:06 PM 1/30/2020			New	External Event	D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection	
	24	2:18:13 PM 1/30/2020	1	1	New	External Event	D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection	
	⊠	2:17:45 PM 1/30/2020	1	1	New	External Event	D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection	
	<b>24</b>	2:08:58 PM 1/30/2020	1	1	New	External Event	D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - PIR Detection	



2. Click on **Search.** Chose cameras you would like to search. Click **Search for>Bookmarks** then click **New search**. All bookmarks are automatically logged and searchable here through the D-TECT Rule you created.



Note: The created log entries for this rule can be found in Management Client>Server Logs>Rule-triggered logs, which can be useful to identify when alarms occurred within the Management Client environment. Check here to make sure logs are populating properly as a final check of your setup.





## IP Illuminator - Intelligent Deterrence & Camera Enhancement Control through Smart Client

 In Management Client on the left pane, select Inputs and open the folder containing your Clarius Inputs. Currently, we have all inputs of our devices in one folder. If you haven't already separated them for ease of use, we will do so now.



2. Right click on the Input icon and select Add Device Group. We will name it Clarius Inputs. Click OK.

Add Device Gro	up	×
Name:		
Clarius Inputs		
Description:		
		^
	01/	Creat
	UK	Cancel

3. Right click on your new folder and select **Edit Device Group Members**. Select all your **Clarius Driver** inputs and add them over to the new folder, then click **OK**. Replicate this process under **Outputs**, naming the folder **Clarius Outputs**.

Select Group Me	mbers - Clarius Inputs			×
Device Groups	Recording Servers s Inputs T Inputs Group 1 arius Driver (localhost-70-b3-d5- arius Driver (localhost-70-b3-d5- arius Driver (localhost-70-b3-d5- arius Driver (localhost-70-b3-d5- Tect Driver (localhost-70-b3-d5- Tect Driver (localhost-70-b3-d5-	^	Add	Selected: Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Di Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Lo Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Ta Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Te



4. Under Outputs, we will also create another group, called Clarius Standard. Right click Clarius Standard, Edit Device Group Members and add the Standard output to this folder. Click OK.

Select Group Members - Clarius Standard	×
Device Groups       Recording Servers         Output       Clarius Outputs         Clarius Standard       D-TECT Outputs         Output Group 1       Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Digital out         Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Strobe       D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Digital out         D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Digital out       D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Digital out         D-Tect Driver (localhost-70-b3-d5-d1-f9-d1) - Digital out       MERIT-LILIN MR3022A (192.168.1.156) - Output 1         MERIT-LILIN MR6322A (192.168.1.153) - Output 1       MERIT-LILIN MR6322A (192.168.1.153) - Output 1	Selected: Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Standard  Add  Remove
	OK Cancel

5. Navigate to User-Defined Events on the left pane. Right click and Add User Defined Event. Name this All Lights On. Create another one, named All Lights Off.





6. Now create a rule that allows you to turn on and off the light in your project through Smart Client. Navigate to **Rules>Right Click>Add Rule**. Name it **All Lights On**.

ſ	Manage Rule		_	$\times$
	Name:	All Lights On		
ł	Description:			
l	Active:			
		Step 1: Type of rule		
l	Select the rule type y	ou want to create		
	Perform an action     Perform an action     Perform an action     Perform an action	on <event> in a time interval on a <recurring time=""></recurring></event>		

7. Under Event, select External Events>User-defined Events>All Lights On. Click OK then Next.



- 8. Here you may add any conditions you may like, for our example we will be skipping this portion. Click **Next** again.
- 9. Scroll down and select Set device output to <state>. Click on state and select Activated and click OK.

Set recording frame rate to all frame Start patrolling on <device> usin Pause patrolling on <devices></devices></device>	ames for MPEG-4 g <profile> with F</profile>	1/H.264/H PTZ <pric< th=""><th>1.265 on &lt; prity&gt;</th><th>devices&gt;</th><th></th></pric<>	1.265 on < prity>	devices>	
Move <device> to <preset> posi Move to default preset on <device< th=""><th>Select State</th><th></th><th></th><th>×</th><th></th></device<></preset></device>	Select State			×	
Set device output to <state> Create bookmark on <devices> Play audio <message> on <devi <profile="" notification="" send="" to=""> Make set data set to </devi></message></devices></state>	<ul> <li>Activated</li> <li>Deactivated</li> </ul>	ed			
Make new <log entry=""></log>	OK		Cance	el	



10. Click Devices, Select Devices, then open your Clarius Standard folder and add the Clarius driver Standard output over. Click OK, Next and Finish.

Ī	Edit the rule description	Select devices a	nd groups		×
	Perform an action on A from External	Device Groups	Recording Servers		Selected:
1-	→ on <u>devices</u>	Clarin 2 Clarin 2 Clarin	utput us Outputs us Standard Iarius Driver (localhost-70-b3-d5-d1-f CT Outputs ut Group 1	Add ►	Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - St

- 11. We will repeat this process, however we will make the rule for All Lights Off. We will expedite this by copying and modifying the rule we just created. Right click All Lights On>Copy Rule.
- 12. Change the name to All Lights Off. Click All Lights On and change to All Lights Off.



13. Change Activated to Deactivated. Click OK then Finish.

Edit the rule description (click an underlined item) Perform an action on All Lights Off	Select State	-		×	
from <u>External</u> Set device output <u>immediately</u> to <u>'Activated</u> ' <b>↓</b> on <u>Clarius Driver (localhost-70-b3-d5-d1+6-d0) - Sta</u>	OActivated		-2 Cance	ł	



14. Now launch Smart Client and click on **Setup** in the upper right-hand corner.



15. On a premade floorplan with our two cameras, we will add Illuminator control to this. Using the **Tools** box, select **Add Event** (lightning Bolt) icon and open your **Events** folder. Drag and drop your **All Lights On** and **All Lights Off** events to the floorplan.

1	<b>ê &lt;</b> > 🔁 Fla	orplan	с. Т
	Tools	Element Selector ×	
		Enter filter	
	<b>∳</b> ♦)	🖌 🚢 DESKTOP-ORCUJTA	
	4 🔋	A 🛅 Events	
	🖺 А	4 All Lights Off	
Í	* 🕌	4 All Lights On	
	× 🖡	-LILIN MR3022A (192.168.1.156) - Camera 1	
	» E	MERIT-LILIN MR6322A	(19

16. As an option, after adding your events you may right click on them and choose **Select Icon Type>Lamp** to switch the icon to something more relevant.





17. Exit Setup. Click each lamp icon to confirm they are operational.



Light Off

Light On





# Creating Alarm Activated LED Strobes

1. In Management Client under Outputs, create a new folder called Clarius Strobe.



2. Right click **Clarius Strobe** folder and select **Edit Device Group Members.** Add **Clarius Driver Strobe** and click **OK**.

Select Group Members - Clarius Strobe	• ×
Device Groups       Recording Servers         Image: Clarius Output       Image: Clarius Outputs         Image: Clarius Standard       Image: Clarius Strobe         Image: Clarius Strobe       Image: Clarius Driver (localhost-70-b3-d5-d1-f)         Image: Clarius Driver (localhost-70-b3-d5-d1-f)       Image: Clarius Driver (localhost-70-b3-d5-d1-f)         Image: Clarius Driver (localhost-70-b3-d5-d1-f)       Image: Device Clarius Driver (localhost-70-b3-d5-d1-f)         Image: Clarius Driver (localhost-70-b3-d5-d1-f)       Image: Device Clarius Driver (localhost-70-b3-d5-d1-f)         Image: Device Driver (localhost-70-b3-d5-d1-f)       Image: Device Clarius Driver (localhost-70-b3-d5-d1-f)         Image: Device Driver (localhost-70-b3-d5-d1-f)       Image: Device Driver (localhost-70-b3-d5-d1-f)         Image: Device Driver (localhost-70-b3-d5-d1-f)       Image: Device Driver (localhost-70-b3-d5-d1-f)         Image: Device Driver Driver (localhost-70-b3-d5-d1-f)       Image: Device Driver (localhost-70-b3-d5-d1-f)         Image: Device Driver Driver Driver (localhost-70-b3-d5-d1-f)       Image: Device Driver Driver (localhost-70-b3-d5-d1-f)         Image: Device Driver	Selected: Clarius Driver (localhost-70-b3-d5-d1-f6-d0) - Str Add  Remove
	OK Cancel



3. Navigate to **Rules**. Copy the PIR Bookmark rule created earlier in this walkthrough. If you have yet to do so, visit the first portion of this guide to see the steps involved. Rename the rule to PIR Strobe Activation.

Manage Rule		_	×
Name:	PIR Strobe Activation		
Description:	[		
Active:			

4. Unselect **Start recording on <devices>** & **Create bookmark on <devices>** from the list. The rule description should now look like this:



5. Select Set device output to <state> and click <state> in the rule description box. Select Activated and click OK.

1→	Set device output to <state> Create bookmark on <devices> Play audio <message> on <devices></devices></message></devices></state>	· · ·				•
	Edit the rule description (click an underl	Select State	_		×	
	Perform an action on <u>Input Activated</u> from <u>D-Tect Driver (localhost-70+3-d5</u> Set device output <u>immediately</u> to <u>'state'</u> on <u>devices</u> and Create log entry: <u>'SRuleName\$ - SD</u>	<ul> <li>Activated</li> <li>Deactivated</li> </ul>	<b>—</b> 3			
	2	ОК		Cancel		

6. Click Devices>Clarius Strobe and add it. Click OK then Next.





7. Add a stop action based on a timer by selecting Perform stop action after <time>.

Step 4: Stop criteria	
Select stop criteria	
O Perform stop action on <event></event>	
Perform stop action after <time></time>	
○ No actions performed on rule end	

8. Click **Time** and adjust parameter to 5 seconds. Click **OK** then **Next**.

	Relative Time	×	
	Select time:		
	2→5≑ Seconds	$\sim$	
	OK Cancel		
Edit the rule description (clic			
Perform an action on <u>Input Act</u> from <u>D-Tect Driver (localho</u>	<u>ivated</u> st-70-b3-d5-d1+f9-d1) - PIR Detection to 'Activated'		
on <u>Clarius Driver (localhost</u> and Create log entry: ' <u>\$Rule</u>	-70-b3-d5-d1-f6-d0) - Strobe Name\$ - \$DeviceName\$		
Perform action time -1			

 Select Set device output to <state>. You will see in the description that it automatically sets the output to immediately and 'Deactivated'. Unless required, these default settings are OK and don't require adjustment.





## Laser Watch – Alarm Zone & Action Setup

Tip: After alarm zones are created, you may reference the Automated Bookmarks, Log Creation & Alarm Recording portion of this guide and replace the D-TECT IP with the Laser Watch.

1. Log into the web interface of your Laser Watch unit. Click Add alarm and select Zone Alarm. For this example, it will be called Zone 1.

Alarms	Alignment	Device Configuration	Import and export settings	Firmware update	Logout	
+ Add ala	arm			Add alarm		
				Name	Zone 1	]
				Input	Zone alarm ~	
				Near distance		(m)
				Far distance		(m)

2. Set your **Near** (beginning measurement of Zone Alarm) and **Far** (End of Zone Alarm measurement) distance.

Alarms	Alignment	Device Configuration	Import and export settings	Firmware update	Logout	
+ Add alaı	rm			Add alarm		
				Name	Zone 1	]
				Input	Zone alarm ~	]
				Near distance	1	(m)
				Far distance	20	(m)

3. Click Add action and select Connect to URL as your Action type.

Alarms	Alignment	Device Configuration	Import and export settings	Firmware update	Logout
Zone 1 (Z	one alarm 1n	n - <b>5m)</b> - Remove		Add action	
+ Add a	action			Action type	Connect to URL V
+ Add ala	arm			Alarm start	Enter URL
				Alarm stop	Enter URL



4. In the URL <u>Start</u> and <u>End</u> fields, put the appropriate information for the Zone alarm you are setting up. Using the template below, replace the IP address with your Milestone server IP, Laser Watch MAC address(found in the GJD gateway or the help section of the Laser Watch login) and change the digital input(di) to the relevant Alarm Zone number.

#### URL format for Alarm Zone 1:

Start: http://<u>127.0.0.1</u>:5000/callback?<u>mac=address</u>&type=<u>di1</u>&state=1 End: http://127.0.0.1:5000/callback?mac=address&type=di1&state=0

#### Example URL for Alarm Zone 1 completed:

Start: http://192.168.1.7:5000/callback?mac=70-B3-D5-D1-F3-F8&type=di1&state=1

End: http://192.168.1.7:5000/callback?mac=70-B3-D5-D1-F3-F8&type=di1&state=0

5. After filling in the Start and End URLs, click Add Action below.

Alarms Alignment Device Configuration Import and export settings Firmware update Logout

Zone 1 (Zone alarm 1m - 5m) - Remove	Add action
+ Add action	Action type Connect to URL ~
+ Add alarm	Alarm start 33-D5-D1-F3-F8&type=di1&state=
	Alarm stop 33-D5-D1-F3-F8&type=di1&state=

On the following page, a table of the URL commands for each individual zone is available may be copied over and modified in the Laser Watch web interface.



## Zone Template Table:

Zone 1	Start	http://127.0.0.1:5000/callback?mac=address&type=di1&state=1
20110 1	End	http://127.0.0.1:5000/callback?mac=address&type=di1&state=0
7one 2	Start	http://127.0.0.1:5000/callback?mac=address&type=di2&state=1
20110 2	End	http://127.0.0.1:5000/callback?mac=address&type=di2&state=0
Zone 3	Start	http://127.0.0.1:5000/callback?mac=address&type=di3&state=1
20110-0	End	http://127.0.0.1:5000/callback?mac=address&type=di3&state=0
7one 4	Start	http://127.0.0.1:5000/callback?mac=address&type=di4&state=1
20110	End	http://127.0.0.1:5000/callback?mac=address&type=di4&state=0
Zone 5	Start	http://127.0.0.1:5000/callback?mac=address&type=di5&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di5&state=0
Zone 6	Start	http://127.0.0.1:5000/callback?mac=address&type=di6&state=1
20110-0	End	http://127.0.0.1:5000/callback?mac=address&type=di6&state=0
Zone 7	Start	http://127.0.0.1:5000/callback?mac=address&type=di7&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di7&state=0
Zone 8	Start	http://127.0.0.1:5000/callback?mac=address&type=di8&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di8&state=0
Zone 9	Start	http://127.0.0.1:5000/callback?mac=address&type=di9&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di9&state=0
7one 10	Start	http://127.0.0.1:5000/callback?mac=address&type=di10&state=1
20110 10	End	http://127.0.0.1:5000/callback?mac=address&type=di10&state=0
Zone 11	Start	http://127.0.0.1:5000/callback?mac=address&type=di11&state=1
20110 11	End	http://127.0.0.1:5000/callback?mac=address&type=di11&state=0
Zone 12	Start	http://127.0.0.1:5000/callback?mac=address&type=di12&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di12&state=0
Zone 13	Start	http://127.0.0.1:5000/callback?mac=address&type=di13&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di13&state=0
Zone 14	Start	http://127.0.0.1:5000/callback?mac=address&type=di14&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di14&state=0
Zone 15	Start	http://127.0.0.1:5000/callback?mac=address&type=di15&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di15&state=0
Zone 16	Start	http://127.0.0.1:5000/callback?mac=address&type=di16&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di16&state=0
Zone 17	Start	http://127.0.0.1:5000/callback?mac=address&type=di17&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di17&state=0
7one 18	Start	http://127.0.0.1:5000/callback?mac=address&type=di18&state=1
20110 10	End	http://127.0.0.1:5000/callback?mac=address&type=di18&state=0
7one 19	Start	http://127.0.0.1:5000/callback?mac=address&type=di19&state=1
20110 17	End	http://127.0.0.1:5000/callback?mac=address&type=di19&state=0
Zone 20	Start	http://127.0.0.1:5000/callback?mac=address&type=di20&state=1
	End	http://127.0.0.1:5000/callback?mac=address&type=di20&state=0



**Note:** If you are using a Weather Alert or Reference Alarm, it will use up one of the digital inputs. The Laser Watch may handle up to 20 requests in any combination of Alarm Zones, Reference Points or Weather Alarms.

6. In Management Client, review that your Inputs are populating correctly:



Laser inputs may now be used to trigger different rules throughout a Milestone Systems deployment. Such rules can be real time embedded map notifications, PTZ control & LED Illumination, all activated through the networked based virtual alarm zone. The next portion of the walkthrough will go through the setup of map notifications and PTZ preset control.



## Laser Watch - Creating Map Events & PTZ Preset Control

Map Events will give the operator real time indicators of their property perimeter detection system using the Laser Watch, while also having a PTZ activate its relevant preset.

1. On the left pane, go to **Rules and Events>User-defined Events** and add a new one. For this example, we are calling it Alarm Zone 1.



2. Under Alarms, click Alarm Definitions and add a new one.

Alarm Definitions	<b>—</b> Ф	Alarm Definition Information	
E 🛃 Alarm Definitions		Alam definition	
Alarm Definition		Enable:	
		Name:	Alarm Zone 1
		Instructions:	

3. Under Trigger>Triggering Event, set it to be an External Events.

Trigger	
Triggering event:	External Events

4. Select your source to be the User-Defined Event created earlier.



External Events		~
		1> Select
Select Sources	×	
Type filter:		~ ~
Type likel.		Select
Groups Servers 4 2	Selected:	Select
All Events	Alarm Zone 1	
		~
DESKTOP-ORCUJTA		Select
Warehouse Light OFF Remove		Select
		~
		~ ~
		~
	OK Cancel	~

- 5. Click OK once you have added the relevant event over. Before moving off this page, click Save in the upper left-hand corner of MMC.
- 6. Under Rules and Events, add a New rule for Alarm Zone 1. Select Event>Devices>Configurable Events>Input activated and click OK.





7. Select Laser Watch Alarm Zone 1 as the input trigger and click OK.

Manage Rule	– 🗆 X	
Name: Alarm Zone 1 - Map Notification & PTZ F	reset	
Description:	Select devices and groups	×
Active: Step 1: Type of Select the rule type you want to create Perform an action on <event> Perform an action on a <recurring time=""> Edit the rule description (click an underlined item) Feform an action on Input Activated from devices/recording server/management server 1</recurring></event>	Device Groups Recording Servers	Selected: The LaserWatch Driver (localhost-70-b3-d5-d1-f3-f8)
		3 OK Cancel

8. Next, for the first action we will select our PTZ & Preset.

Manage Rule				-	- 0	X C
Name:	Alarm Zone 1 - Map Notification	is & PTZ Preset				
Description:						
Active:	$\square$					
		Step 2: Action				
Select actions to	perform	Step 5. Action	15			
Start patrollin	, g on <device> using <profile> with P1</profile></device>	Z <priority></priority>				^
Pause patroll	ing on <devices></devices>					
Move <device< td=""><td>&gt;&gt; to <preset> position with PTZ <prid< td=""><td>xrity&gt; 💶 1</td><td></td><td></td><td></td><td></td></prid<></preset></td></device<>	>> to <preset> position with PTZ <prid< td=""><td>xrity&gt; 💶 1</td><td></td><td></td><td></td><td></td></prid<></preset>	xrity> 💶 1				
Set device ou	to ut to <state></state>	ority>				
Create bookn	hark on <devices></devices>					
Play audio <n< td=""><td>nessage&gt; on <devices> with <priority< td=""><td>&gt;</td><td></td><td></td><td></td><td></td></priority<></devices></td></n<>	nessage> on <devices> with <priority< td=""><td>&gt;</td><td></td><td></td><td></td><td></td></priority<></devices>	>				
Send notificat	ion to <profile></profile>					
Make new <lo< td=""><td>g entry&gt;</td><td></td><td></td><td></td><td></td><td></td></lo<>	g entry>					
Start plug-in o	on <devices></devices>					~
Edit the rule desc	ription (click an underlined item)					
Perform an action	on Input Activated					
from LaserWa	tch Driver (localhost-70-b3-d5-d1-f3-f8)	) - Alarm zone 1	ant Daint 002 immedial	alumah PT7 adadhi 1		
Move MENTILL	IN F3R5024EA30 (152, 166, 1, 157) • Ca	amera i to position <u>Fre</u>	set Point 003 immedia	tely with PTZ phonty 1		
	T		T			
	2		2			
	2		5			
	-					
Help		Cancel	< Back	Next >	F	inish



9. Our next action will be to trigger an onsite event. Select your recording server for your site, and the relevant User-Defined Event. Click OK and Finish unless it is required to add a Stop Criteria.

Manage Rule						_		$\times$
Name:	Alarm Zone 1 - Map Notification	ns & PTZ Preset						
Description:								
Active:								
		Step 3: Actions	;					
Select actions to pe Start plug-in on Stop plug-in on Apply new settin Set Matrix to vie Send SNMP trap	erform <devices> <devices> ngs on <devices> ew <devices> p</devices></devices></devices></devices>		r					^
Retrieve and st Retrieve and st Save attached i Activate archivi On <site> trigge</site>	ore remote recordings from <device ore remote recordings between <st mages ng on <archives> or <archives></archives></archives></st </device 	es> art and end time> from · 1	<devices:< td=""><td>Select User-L</td><td>Predefined Events Predefined Events RequestPlayA RequestStartf</td><td>s Audio Recordir</td><td>ng</td><td>×</td></devices:<>	Select User-L	Predefined Events Predefined Events RequestPlayA RequestStartf	s Audio Recordir	ng	×
Perform an action or from LaserWatc Move <u>MERIT-LILIN</u> and On site <u>DESK</u>	puon (crick an underlined item) n <u>Input Activated</u> <u>h Driver (localhost-70-b3-d5-d1f3f8</u> <u>PSR5024EX30 (192.168.1.157) - C</u> <u>TOP-0RCUJTA</u> trigger user-defined ↑ 2	) - Alam zone 1 amera 1 to position Prese event user-defined e 3	et Point ( svent		RequestStopF User-defined Eve Alarm Zone 1 Warehouse Li Warehouse Li	Recordir nts ight OFF ight ON	ng 4 F	
Help		Cancel	< E		OK		Cancel	

10. This example has the following definition when completed.





11. Open **Smart Client** and click **Setup**. A **Map** has been added representing the south perimeter of the property. Using the Toolbox, drag and drop your User-defined event onto the map and place where relevant. Adjust the size of text and change the icon that matches accordingly.



Note: Currently, there is limited icon selection within Smart Client which includes a switch, light bulb, gate, and door.

12. Test the Alarm Zone to make sure the Map Notification & Preset are working properly. A red circle will appear around the Alarm Zone that has been triggered and the PTZ moved to the appropriate Preset.





# Internet Protocol Anything (IPA)

The following example demonstrates the process of using a locally powered GJD141 sensor and its alarm input with an IPA. This achieves an alarm input which may be interpreted via the network and trigger an event within Milestone.

The wiring for this will be as follows:

Blue – Digital Input 1 positive to Digital Output 1 NO Green – Power Output 0V to Digital Input 1Negative Red – Power Output 12V to Digital Output 1 Com White – GJD141 contact to NO on Digital Output 1 Purple – GJD141 contact to Com on Digital Output 1



**Note**: This wiring is based on the GJD141, which comes with a NC contact. The Digital Inputs Open/Closed state can be manually controlled within the web interface of the IPA if it is required to change them.



1. Under Rules and Events, add a New rule for the IPA and GJD141 1. Select Event>Devices>Configurable Events>Input activated and click OK.

Manage Rule					_		×
Name: GJD	)141 to IPA	DI1					
Description:							
Active:							
		Step 1: Type	of rule				
Select the rule type you wa	int to create	•					
Perform an action on <	ime interv	Select an Event					×
Perform an action on a	<recurring lick an unc l ng serve</recurring 		un Shot Detecte egal Access vages Received put Activated put Changed put Changed put Changed put Changed put Deactivated trusion stopted conflict start ev conflict stop ev ne Counter A niked Event Raili niked Event Raili niked Event Raili niked Event Raili niked Event Raili otering detection ow Battery Outputotion Started (Hi lotion Stopped (H	d 2 ent ent ing ng ne event started nevent stopped ut Start W) I/W)			<b>^</b>
Help				OK		Cancel	

2. Select the IPA Digital Input 1 as your trigger and click OK.

Name: Description:	GJD141 to IPA DI1		
Active:		Select devices and groups	×
Select the rule t  Perform an a Perform an a Perform an a	ype you want to create action on <event> action in a time interval action on a <recurring time=""></recurring></event>	Ste Device Groups Recording Servers	Add
Edit the rule des Perform an actio from <u>device</u>	cription (click an underlined ite n on <u>Input Activated</u> ss/recording server/manage 1	m) m) → (PA Driver (localhost-70-b3-d5-d1-fc-cd) - Digital inpu → (localhost-70-b3-d5-d1-fc-cd) - Digital inpu → (PA Driver (localhost-70-b3-d5-d1-fc-cd) - Temper → (PA Driver (localhost-70-b3-d5-d1-fc-cd) - Temperatur ⊕ (Laser Inputs	< compared to the second secon



3. Under Action, select Set Device output to <state> and set it to Activated.

	Manage Rule				- 🗆 ×
	Name:	GJD141 to IPA DI1			
	Description:				
	Active:				
			Step 3: Actions		
1	Pause patrolling     Move cdevice> 1     Move to default ;     Set device output     Create bookmar     Play audio cmes     Send notification     Make new clog c     Start plug-in on cloue-in on     Store olume-in on     Store olume-in on     from IPA Driver (     Set device output im     on devices	on <devices> to <preset> position with PTZ preset on <devices k on <devices> ssage&gt; on <devices> ssage&gt; on <devices> states  to <profile> entry&gt; <devices> <devices> Claurices&gt; OB to <profile> entry&gt; <devices> Claurices&gt; OB to chick an utravelated localhost-70-b3-d5-d11c-cd) - [ mediately to 'state'</devices></profile></devices></br></devices></profile></devices></devices></devices></devices </preset></devices>	<priority> ted - 3 vated Cancel / / / / / / / / / / / / / / / / / / /</priority>	×	
	Help	Cancel	< Back	Next >	Finish

4. Under Devices, select the Clarius Standard Output.

Active:	Select devices and groups		×
Select actions to per	Device Groups Recording Servers	Selected:	
Pause patrolling	E 🖓 Output	Clarius Driver (localhost-70-b3-d5-d1-f6-3b) - S	<i>t</i>
Move <device> to</device>	- Call Output	▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	
Move to default p	🕀 🧰 All Outputs		
Set device output	Camera Outputs	2	
Create bookmark	E Clarius Outputs		
Play audio <mess< td=""><td>Clarius Driver (localhost-70-b3-d5-d1-f</td><td></td><td>- 11</td></mess<>	Clarius Driver (localhost-70-b3-d5-d1-f		- 11
Send notification	Clarius Driver (localhost-70-b3-d5-d1-f	Add	- 11
Make new <log er<="" td=""><td>Clarius Driver (localhost-70-b3-d5-d1-f</td><td></td><td></td></log>	Clarius Driver (localhost-70-b3-d5-d1-f		
Start plug-in on <	DTECT Outputs	4 Remove	
L Ston plugsin on Z	IPA Outputs		
Edit the rule descript	the Laser Outputs		
Perform an action on			- 11
from IPA Driver do			- 11
Set device output im			
on devices			
T			
1 <b>1</b>			
1	< >	<	>
Help		OK Cancel	
			.:



5. Setup a Stop Criteria for Input Deactivated on IPA Digital Input 1 and click Next.

Manage Rule				-	- C	× נ
Name:	GJD14	1 to IPA DI1				
Description:						
Active:	$\checkmark$					
Select stop criter  Perform stop Perform stop No actions pe	a action on <ev action after &lt; formed on n</ev 	Ster	94: Stop criteria			
Edit the rule desc Perform an action	ription (click on Input Acti	an underlined item) vated				
from IPA Drive Set device output on <u>Clarius Driv</u> Perform stop actio from IPA Drive	<u>r (localhost-7</u> i <u>mmediately</u> t er (localhost- n on <u>Input D</u> r (localhost-7	0 <u>45345-d14c-cd) - Dig</u> to ' <u>Activated</u> ' -70- <u>b3-d5-d146-3b) - St</u> <u>eactivated</u> ◀ 0 <u>-</u> b3-d5-d14c-cd) - Dig	ital input 1 andard • 2 ital input 1			
Help	]	Cancel	< Back	Next >	F	inish

6. Select **Set device output to <state>** and Milestone will automatically fill it with **Deactivated**. Click **Finish** once you have made all the appropriate adjustments.

Manage Rule		-		×		
Name:	GJD141 to IPA DI1					
Description:						
Active:						
	Step 5: Stop actions					
Select stop action	Select stop action to perform					
Restore default recording frame rate of keyframes for MPEG-4/H.264/H.265						
Resume patr	rolling					
Stop patrolling	ng					
Move <devic< td=""><td>e&gt; to <preset> position with PTZ <priority></priority></preset></td><td></td><td></td><td></td></devic<>	e> to <preset> position with PTZ <priority></priority></preset>					
Move to defa	ult preset on <devices> with PTZ <priority></priority></devices>					
Start alugio	utput to <state> 4 1</state>					
Stop plug-in	Start plug-in on <devices></devices>					
	Apply new settings on (devices)					
Set Matrix to view <devices></devices>						
Edit the rule des	cription (click an underlined item)					
Perform an actio	n on Input Activated					
Set device output	t immediately to 'Activated'					
on Clarius Dr	iver (localhost-70-b3-d5-d1-f6-3b) - Standard					
Porform stop pat	ion on Input Depatiented					
from IPA Driv	from IPA Driver (localhost-70-b3-d5-d1-fc-cd) - Digital input 1					
Set device output immediately to 'Deactivated'						
on <u>Clanus Driver (localhost-70-b.3-d5-d1-t6-3b) - Standard</u>						
Help	Cancel < Back Next	t>	Fini	sh		



7. The rule definition will look like the following when finished.

Definition:
Perform an action on <u>Input Activated</u> from <u>IPA Driver (localhost-70-b3-d5-d1-fc-cd) - Digital input 1</u> Set device output <u>immediately</u> to ' <u>Activated</u> ' on <u>Clarius Driver (localhost-70-b3-d5-d1-f6-3b) - Standard</u>
Perform stop action on <u>Input Deactivated</u> from <u>IPA Driver (localhost-70-b3-d5-d1-fc-cd) - Digital input 1</u> Set device output <u>immediately</u> to <u>'Deactivated</u> ' on <u>Clarius Driver (localhost-70-b3-d5-d1-f6-3b) - Standard</u>

The IPA is now setup to take in a non-IP sensor, convert it into IP and trigger an event within Milestone. The IPA may be used for many applications to monitor or activate different equipment, not just sensors or lighting. The inputs are even controllable through overlay buttons on Smart Maps, giving control to the operator activate/deactivate locks, sirens, horns etc., or any device that has contact.