

Setup Guide

Wavestore Integrates...

Optex Redscan



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ENG-0031-MAN-00 Paxton NET2 Interface Setup Guide

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Introduction

The integration between Wavestore and Redscan simplifies the installation:

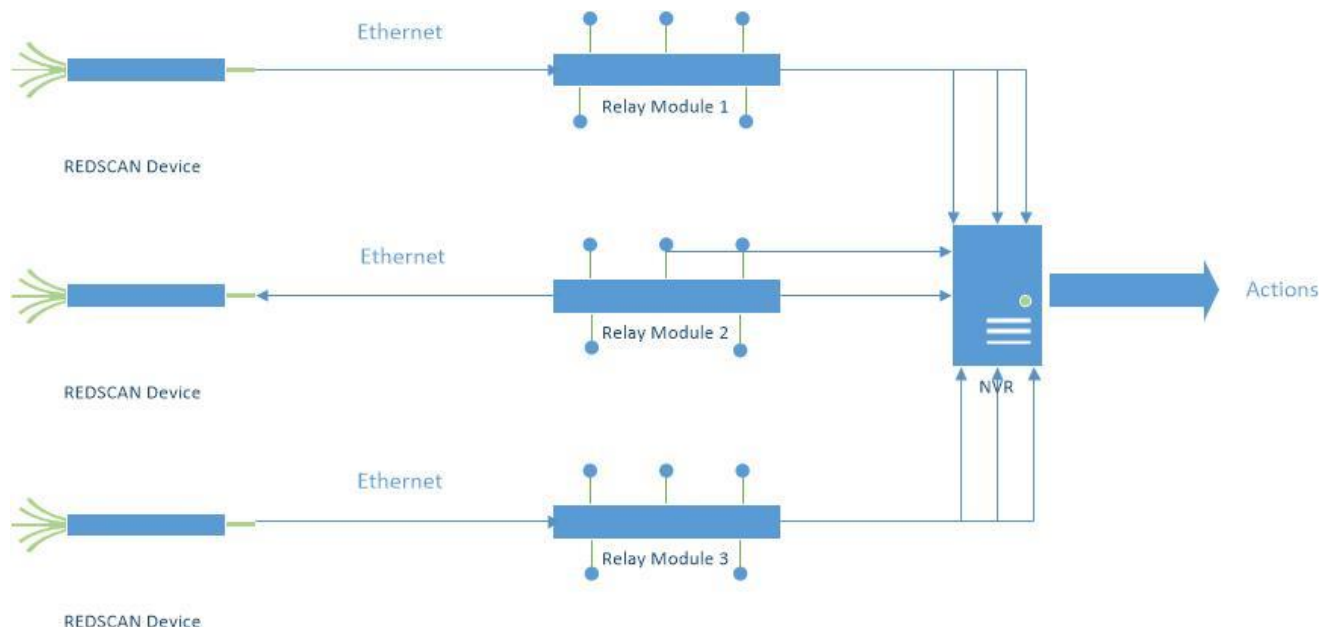


Figure 1 : Traditional communication layout

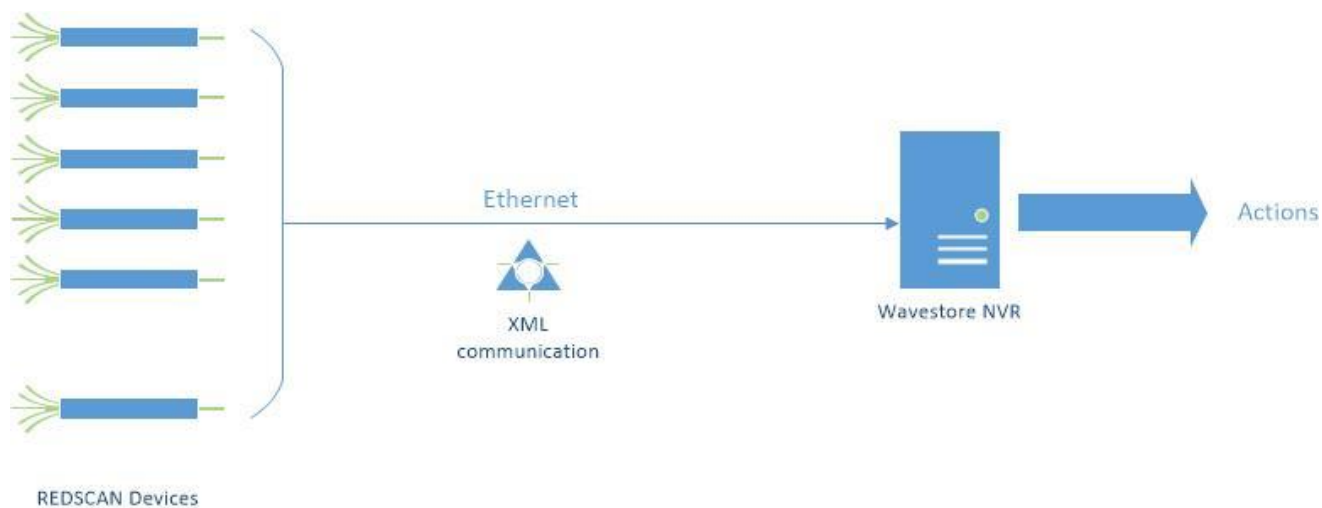


Figure 2 : Wavestore communication layout

Wavestore is capable of receiving and parsing all the information coming from all the Redscan devices and generate different kinds of events.

It is also able to call defined PTZ presets based on the intrusion messages that are coming from the Redwall system and also review the related recorded footage

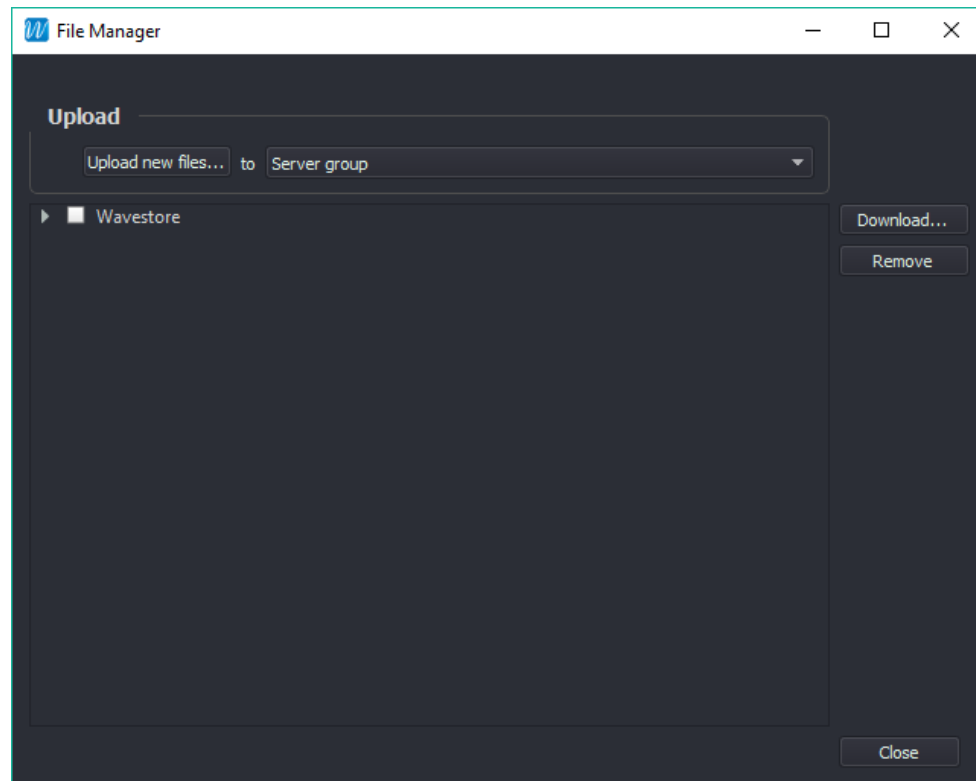
Event detected triggers immediate actions:



- Alarm sent to VMS, PSIM or NVR
 - Full power, zoned lighting
- High resolution recording for network cameras
 - Camera going in pre-set position
 - Event/Alarm management

Upload the Integration module

- Go to Tools -> File Manager



- Click the “Upload new files...” file button
- Select the Zip file containing the Integration Module.
- Click Open

Integration description

The integration recognises the area that is causing the alarm and can react triggering various actions based upon the specific requirements.

The integration allows to add multiple Redscan devices and it automatically maps them into the system by combining its Scanner number with its ZONE number. The Scanner number is defined by the RLSs detector ID. The ZONE number is the individual ZONE on that Scanner.

There are also 6 additional input types available which are device related (e.g. tampering), please refer to the table below for the specific input numbers that are referring to a single or combined zones.

In the REDSCAN Manager you need to use an arbitrary number for the detector ID, starting from one.

The input number in Wavestore (assuming 25 inputs) will be the number of the zone (plus additional events) in its scanner, plus 25 for each zone in the preceding scanner(s). So in the example above for Scanner N.2 and alarm A12 it will be input number 27, as the first 25 inputs would be occupied by Scanner N.1.

It is also possible to define an *input offset* to avoid any overlapping with other inputs already define in existing cameras for example.

In this case the the formula to find your input number in Wavestore is :

$$\text{Input n.} = (\text{scanner n.} * 25) + \text{offset} + \text{alarm n.}$$

REC	Meaning	Cause
A11	A11 Zone Alarm	Object detected in Zone A11
A12	A12 Zone Alarm	Object detected in Zone A12
A21	A21 Zone Alarm	Object detected in Zone A21
A22	A22 Zone Alarm	Object detected in Zone A22
B11	B11 Zone Alarm	Object detected in Zone B11
B12	B12 Zone Alarm	Object detected in Zone B12
B21	B21 Zone Alarm	Object detected in Zone B21
B22	B22 Zone Alarm	Object detected in Zone B22
BA	A2x and B2x Zone Alarm	both A2x and B2x zone in alarm
Ba	A1x and B2x Zone Alarm	Both A1x and B2x zone in alarm
BB	B1x and B2x Zone Alarm	Both B1x and B2x zone in alarm
ba	A1x and B1x Zone Alarm	Both A1x and B1x zone in alarm
bA	A2x and B1x Zone Alarm	Both A2x and B1x zone in alarm
AA	A1x and A2x Zone Alarm	Both A1x and A2x zone in alarm
EA	B2 + B1 + A1 Zones in Alarm	All zones in alarm

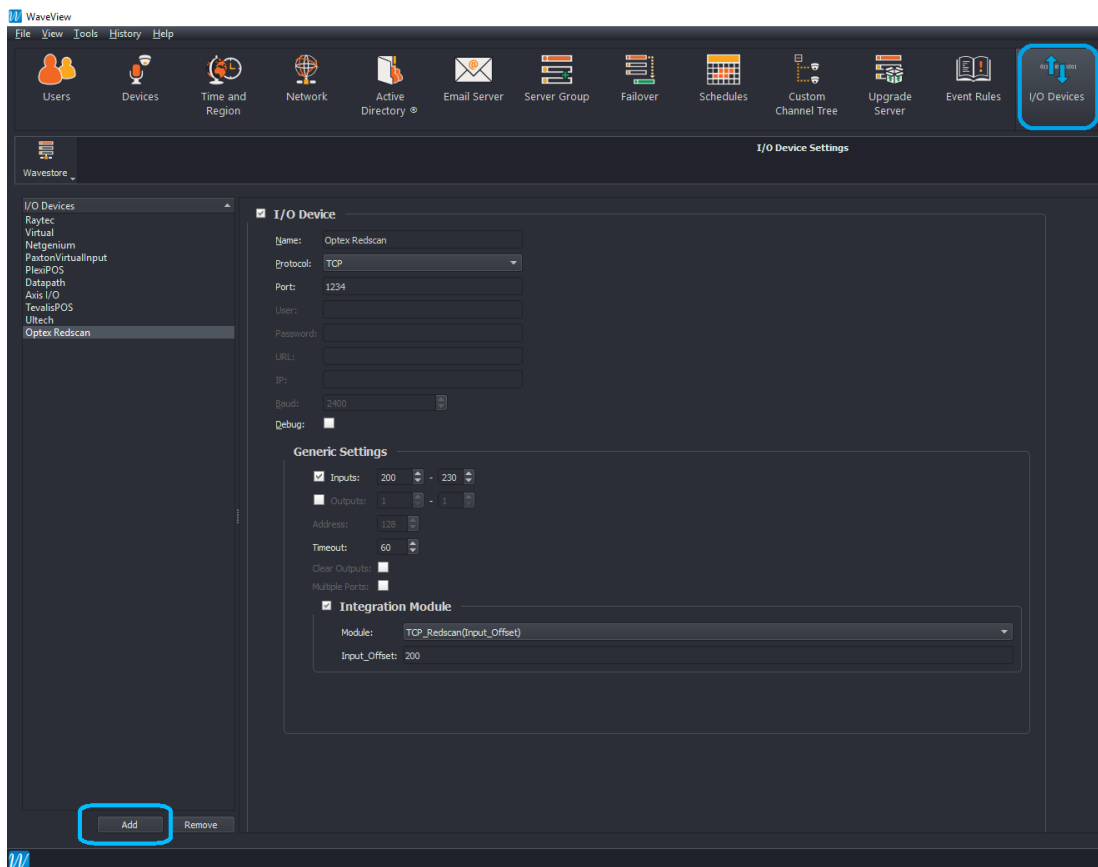
Ea	B2 + B1 + A2 Zones in Alarm	All zones in alarm
Eb	B2 + A1 + A2 Zones in Alarm	All zones in alarm
EB	B1 + A1 + A2 Zone in Alarm	All zones in alarm
AL	B2 + B1 + A1 + A2 Zone in Alarm	All zones in alarm
DQ	Distinguish Environment Output	heavy fog or rain Laser struggling to see
AR	Anti Rotation Output	Sensor has been rotated
AM	Anti Mask Output	Sensor in mask condition
TR	Trouble Output	Trouble output active - multiple causes e.g sensor fault
SO	Soiling of Window	Dirty on laser window
TA	Tamper Output	Tamper switch open
DM	Device monitoring "heartbeat"	When received Device is online

	4 ZONES	8 ZONES	Combi Codes
Input n 1	A1	A11	
Input n 2	-	A12	
Input n 3	A2	A21	
Input n 4	-	A22	
Input n 5	B1	B11	
Input n 6	-	B12	
Input n 7	B2	B21	
Input n 8	-	B22	
Input n 9			B1x and B2x
Input n 10			A1x and B2x
Input n 11			A1x and A2x
Input n 12			A1x and B2x
Input n 13			A2x and B1x
Input n 14			A2x and B2x
Input n 15			B2 + B1 + A1
Input n 16			B2 + B1 + A2
Input n 17			B2 + A1 + A2
Input n 18			B1 + A1 + A2
Input n 19			B2 + B1 + A1 + A2

Input n 20	DQ	DQ	
Input n 21	AR	AR	
Input n 22	AM	AM	
Input n 23	TR	TR	
Input n 24	SO	SO	
Input n 25	TA	TA	

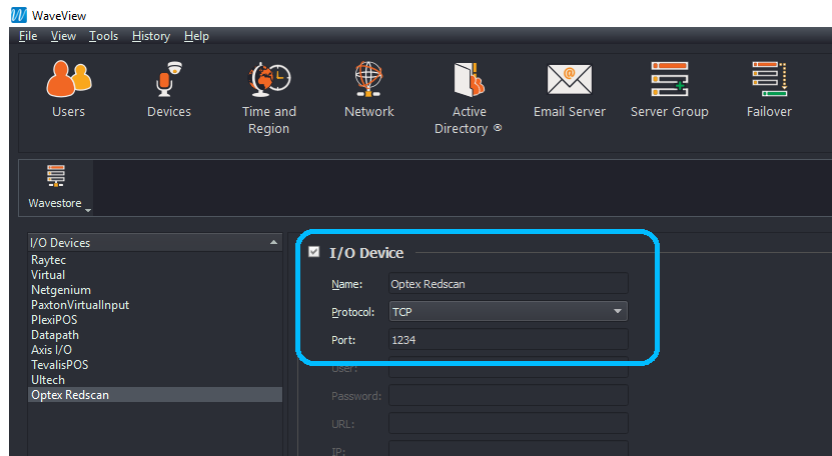
Setup the I/O Device

1. Connect to the Wavestore server with WaveView using an install level user account.
2. Go to View → Setup → I/O Devices
3. Add a new I/O Device



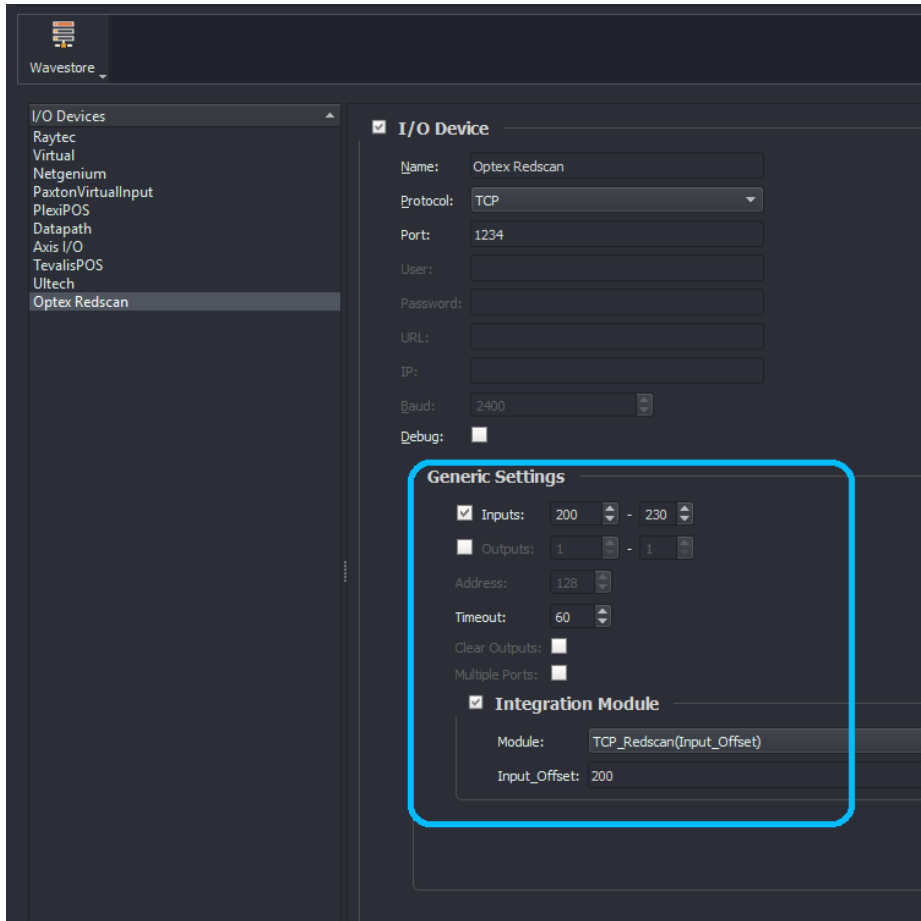
- Type a custom Name
- Select TCP Protocol

- Type the port you've set in the Redscan Manager (multiple system can be directed to multiple ports of one Wavestore server)



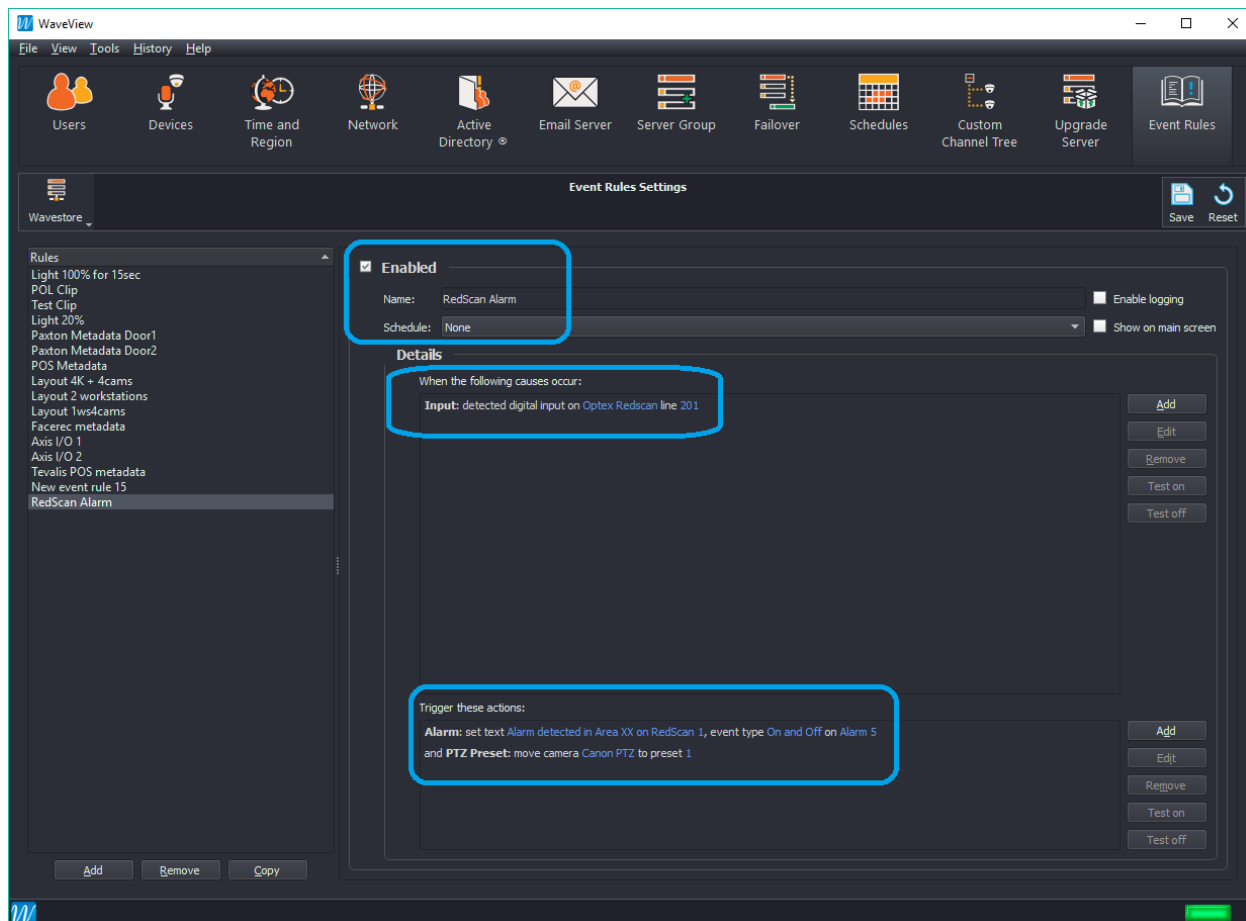
Under General Settings:

- Enable the Integration Module by checking the related checkbox
- Select from the dropdown menu TCP_Redscan(Input_Offset)
- Type the Appropriate offset to not overlap with other input alarms in the system. It is suggested to choose an offset of (total number of cameras in the system) +1
- Set "Serial Alarm In" to reserve the range of inputs for all the zones, counting 25 zones for each scanner. The first alarm needs to be appropriate with the selected offset, and the last alarm will be (number of scanners * 25 + offset)

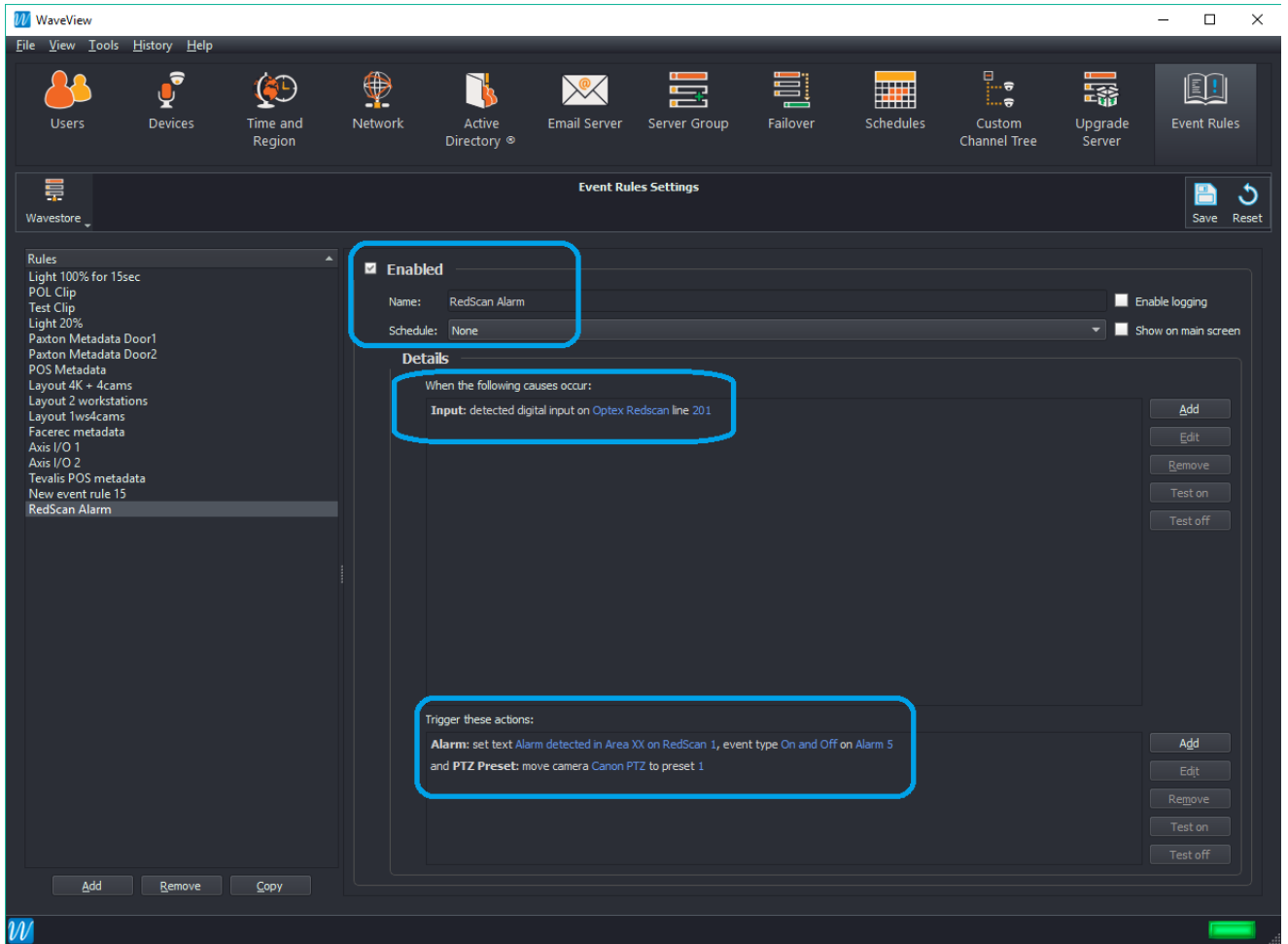


Setup the Event Rules

- Go to Event Rules
- Add a new Rule and type the name



- Select the cause as Input, assign the same source as the zone you are setting
- Select PTZ Preset as Action and assign it to the related camera preset



Create another event rule and associate all the inputs (zones) related to one camera to a single alarm (that's for playback purposes)

- Go to event Rules
- Add a new Rule and type the name
- Select the cause as Input, the source will be all the inputs (zones) belonging to one camera
- As action select Alarm on the related camera number.