



# iVSEC

INTELLIGENT VIDEO SECURITY

<https://ivsecurity.com.au/support/manuals/>  
HTTP WEBHOOK API FEATURE

## ABOUT THIS DOCUMENT

Some of the iVSEC camera and NVR range have the ability to use the HTTP Webhook API, so that other network devices can be interacted with when a specific alert is triggered by an event or schedule.

This could be anything from a door lock relay, a web relay, Shelly device, or even an IP controllable light.

All instruction contained within this document are using the Web Interface, though similar steps are performed using the NVR Interface.

Cameras with this feature start at the following and include the later revisions :

[NC323XD](#), [NC323ADX](#), [NC512ADX](#), [NC512XD](#), [NC528XD](#), [NC531XD](#), [NC531ADX](#), [NC542ADX](#), [NC543ADX](#), [NC544ADX](#), [NC691XB](#)

## GETTING STARTED

To adjust these settings, you will have the following:

- LCD monitor and USB mouse connected to iVSEC recorder.
- Laptop (if you are logging into recorder using a web browser).
- iVSEC X mobile app installed and your iVSEC recorder added to the app.
- IP Controllable device that can accept either POST or GET requests.

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# HTTP Event Push – SETUP

- 1 Open the **Remote Settings** of the Camera and navigate to the **Event** section.  
Select the **Event Push Platform** option.
- 2 Click the **Enable** toggle to allow the feature to work.
- 3 Fill out the **Name** so you know what you will be controlling.
- 4 Select the **Protocol** that you will be using, for the examples in this document we will be using **HTTP**.
- 5 If **HTTPS** is being used, then the **Username** and **Password** need to be filled out. These are the ones used to access the IP Device.
- 6 This is where you will need to enter the **Server Address** (Domain or IP Address) for the IP Device.
- 7 The **Port Number** used to talk to the Server Address needs to be entered here.
- 8 The **API Command** is the syntax that goes after the **Server Address**, examples will be listed later.
- 9 Depending on the Method that the IP Device needs, you will choose either GET or POST.
- 10 The **Interval** determines the time between the **Event Push** being able to be triggered. This prevents the Event Push being triggered constantly.

The screenshot shows the 'Event Push Platform' configuration page. At the top, a navigation menu includes 'Event', 'Setup | Alarm |', and 'Event Push'. The main interface has tabs for 'Onvif', 'RTMP', 'Event Push Platform' (selected), and 'Manual Push'. The configuration fields are as follows:

- Enable:** A toggle switch is turned on, labeled with a green circle '2'.
- Name:** An empty text input field, labeled with a green circle '3'.
- Protocol:** Radio buttons for 'HTTP' (selected), 'HTTPS', and 'UDP', labeled with a green circle '4'.
- Username:** An empty text input field, labeled with a green circle '5'.
- Password:** An empty text input field.
- Server Address:** A text input field containing '192.168.1.168 or example.com', labeled with a green circle '6'.
- Port Number:** A dropdown menu, labeled with a green circle '7'.
- API Command:** An empty text input field, labeled with a green circle '8'.
- Method:** A dropdown menu showing 'GET', labeled with a green circle '9'.
- Interval:** A dropdown menu showing 'OFF', labeled with a green circle '10'.

At the bottom, there are 'Save' and 'Refresh' buttons.

## HTTP Event Push – Example 1 – SH-SHELLYDIM

If you were to enter <http://192.168.85.151/light/0?turn=toggle> in a browser, then then relay 1 toggle its state from on to off, or off to on. There are other functions that the [SH-SHELLYDIM](#) can perform, though we will be using this as the example.

Visit <https://shelly.guide/webhooks-https-requests/> for more information.

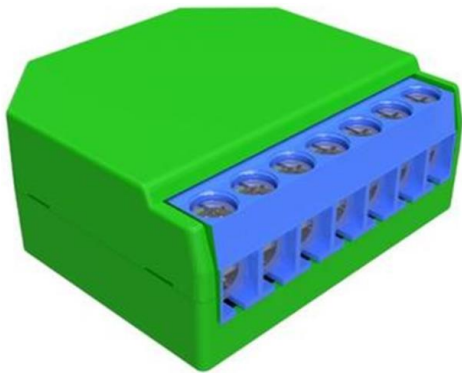
In the example we are using the **Protocol**, and as such a **Username** and **Password** are not required.

Our **Server Address** is [192.168.85.151](http://192.168.85.151), using the default **Port** [80](#) for communication.

The **URL** is going to be everything after the **Port**, though it should be noted that if Port [80](#) is to be used then the **Port** number may not be specified.

In this example the **API Command** will be [light/0?turn=toggle](http://192.168.85.151/light/0?turn=toggle).

As the SH-SHELLYDIM accepts only POST requests for this application, then POST is the required **Method**.



Onvif	RTMP	Event Push Platform	Manual Push
Enable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name	<input type="text" value="ShellyDimmerSettings"/>		
Protocol	<input checked="" type="radio"/> HTTP	<input type="radio"/> HTTPS	<input type="radio"/> UDP
Username	<input type="text"/>		
Password	<input type="text"/>		
Server Address	<input type="text" value="192.168.85.151"/>		
Port Number	<input type="text" value="80"/>		
API Command	<input type="text" value="light/0?turn=toggle"/>		
Method	<input type="text" value="POST"/>		
Interval	<input type="text" value="OFF"/>		
<input type="button" value="Save"/>		<input type="button" value="Refresh"/>	

## HTTP Event Push – Example 2 – 2N9137411E

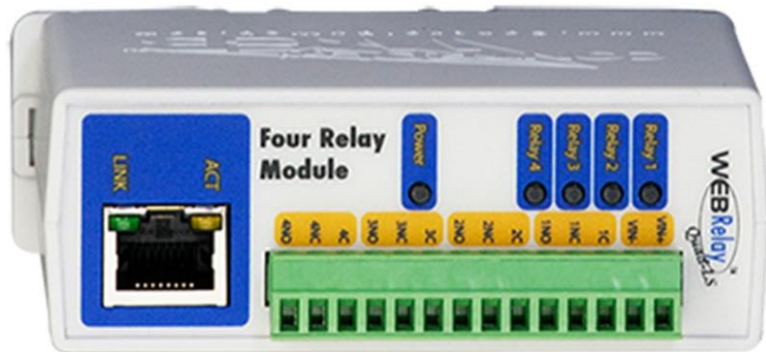
If you were to enter `http://192.168.85.160:80/state.xml?relay1State=2` in a browser, then relay 1 would turn on for 5 seconds and then off. There are other functions that the [2N9137411E](#) can perform, though we will be using this as the example. Visit <https://wiki.2n.com/hip/inte/latest/en/6-access-control/webrelay> for more information.

In the example we are using the **Protocol**, and as such a **Username** and **Password** are not required.

Our **Server Address** is `192.168.85.160`, using the default **Port** `80` for communication.

The **URL** is going to be everything after the **Port**, though it should be noted that if Port `80` is to be used then the **Port** number may not be specified. In this example the **API Command** will be `state.xml?relay1State=2`.

As the 2N9137411E accepts only GET requests for this application, then GET is the required **Method**.



Onvif	RTMP	Event Push Platform	Manual Push
Enable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name	<input type="text" value="WebRelaySettings"/>		
Protocol	<input checked="" type="radio"/> HTTP <input type="radio"/> HTTPS <input type="radio"/> UDP		
Username	<input type="text"/>		
Password	<input type="text"/>		
Server Address	<input type="text" value="192.168.85.160"/>		
Port Number	<input type="text" value="80"/>		
API Command	<input type="text" value="state.xml?relay1State=2"/>		
Method	<input type="text" value="GET"/>		
Interval	<input type="text" value="OFF"/>		
<input type="button" value="Save"/>		<input type="button" value="Refresh"/>	

## HTTP Event Push – Example 3 – AX9155211C

If you were to set the HTTP API Services on the AX9155211C to have a connection type to Unsecure (TCP) and then proceed to enter <http://192.168.85.90/api/switch/ctrl?switch=1&action=trigger> in a browser, then then switch 1 will be triggered for a predetermined amount of time (5 seconds). There are other functions that the [AX9155211C](#) can perform, though we will be using this as the example.

In the example we are using the **Protocol**, and as such a **Username** and **Password** are not required.

Our **Server Address** is [192.168.85.190](#), using the default **Port** [80](#) for communication.

The **URL** is going to be everything after the **Port**, though it should be noted that if Port [80](#) is to be used then the **Port** number may not be specified. In this example the **API Command** will be [api/switch/ctrl?switch=1&action=trigger](#).

As the AX9155211C can accept only POST requests when HTTP API Services are set to Unsecure, then POST is the required **Method**.



Onvif	RTMP	Event Push Platform	Manual Push
Enable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Name	<input type="text" value="2NIPVersoSettings"/>		
Protocol	<input checked="" type="radio"/> HTTP <input type="radio"/> HTTPS <input type="radio"/> UDP		
Username	<input type="text"/>		
Password	<input type="text"/>		
Server Address	<input type="text" value="192.168.85.90"/>		
Port Number	<input type="text" value="80"/>		
API Command	<input type="text" value="api/switch/ctrl?switch=1&amp;action=trigger"/>		
Method	<input type="text" value="POST"/>		
Interval	<input type="text" value="OFF"/>		
<input type="button" value="Save"/>		<input type="button" value="Refresh"/>	

## HTTP Event Push – ALARM – Enabling

- 1 Navigate to the **AI** section.  
Select the **Alarm** option.
- 2 Select the **FD (Face Detection)** tab and  
down at the very bottle toggle the **Enable**  
feature to on for **Event Push**.
- 3 Once set, click the **Save** button and the  
camera/device will send the Event Push that  
you have set up every time the  
camera/NVR detects a face.

The screenshot shows the configuration interface for the AI Alarm section. At the top, there is a navigation menu with 'AI' selected, and sub-menus for 'Setup', 'Recognition', 'Alarm', and 'Statistics'. Below this is a tabbed interface with 'FD', 'FR', 'AD', 'LPR', 'PD&VD', 'PID', 'LCD', and 'SOD'. The 'FD' tab is active. The settings are as follows:

Setting	Value/Status
Latch Time	5 S
Post Recording	5 S
Send Email	Off
FTP Picture Upload	Off
FTP Video Upload	Off
Cloud Picture	Off
Cloud Video	Off
Alarm Out	Off
Enable Record	On
Event push	On

At the bottom, there are three buttons: 'Save', 'Schedule', and 'Refresh'. A green circle with the number '2' is positioned next to the 'Event push' toggle, and a green circle with the number '3' is positioned next to the 'Save' button.

## HTTP Manual Push - Setup

When using the iVSEC X App, or viewing the NVR or camera directly via the web or NVR interface, you are able to trigger one of two Manual Push Events.

This is filled out the **EXACT** same way as the previous examples for the Event Push Platforms.

There is an extra feature here which is the **TEST** function, for POST 1 or POST 2.

You can even use the **TEST** to confirm the API command being sent works prior to adding it to the Event Push Platform.

You will see the message **Success !** if the device triggers properly and sends back a HTTP Status Code indicating that everything executed correctly.

You will see the message **Error !** in three different instances :

1. If the device is unreachable because of network issues or wrong network address.
2. If the API command being sent is invalid or has a syntax error.
3. If the device triggers properly and does **not** send back any HTTP Status Code.

The screenshot shows the 'Manual Push' configuration page. It features two columns of settings. The left column includes an 'Enable' toggle (checked), 'Protocol' radio buttons (HTTP selected), and input fields for 'Username', 'Password', 'Server Address' (192.168.85.152), 'Port Number' (80), 'Method' (POST), and 'POST1' (relay/0?turn=on) with a 'Test' button. The right column has the same 'Protocol' radio buttons, and input fields for 'Username', 'Password', 'Server Address' (192.168.85.152), 'Port Number' (80), 'Method' (POST), and 'POST2' (relay/0?turn=off) with a 'Test' button. At the bottom left are 'Save' and 'Refresh' buttons.



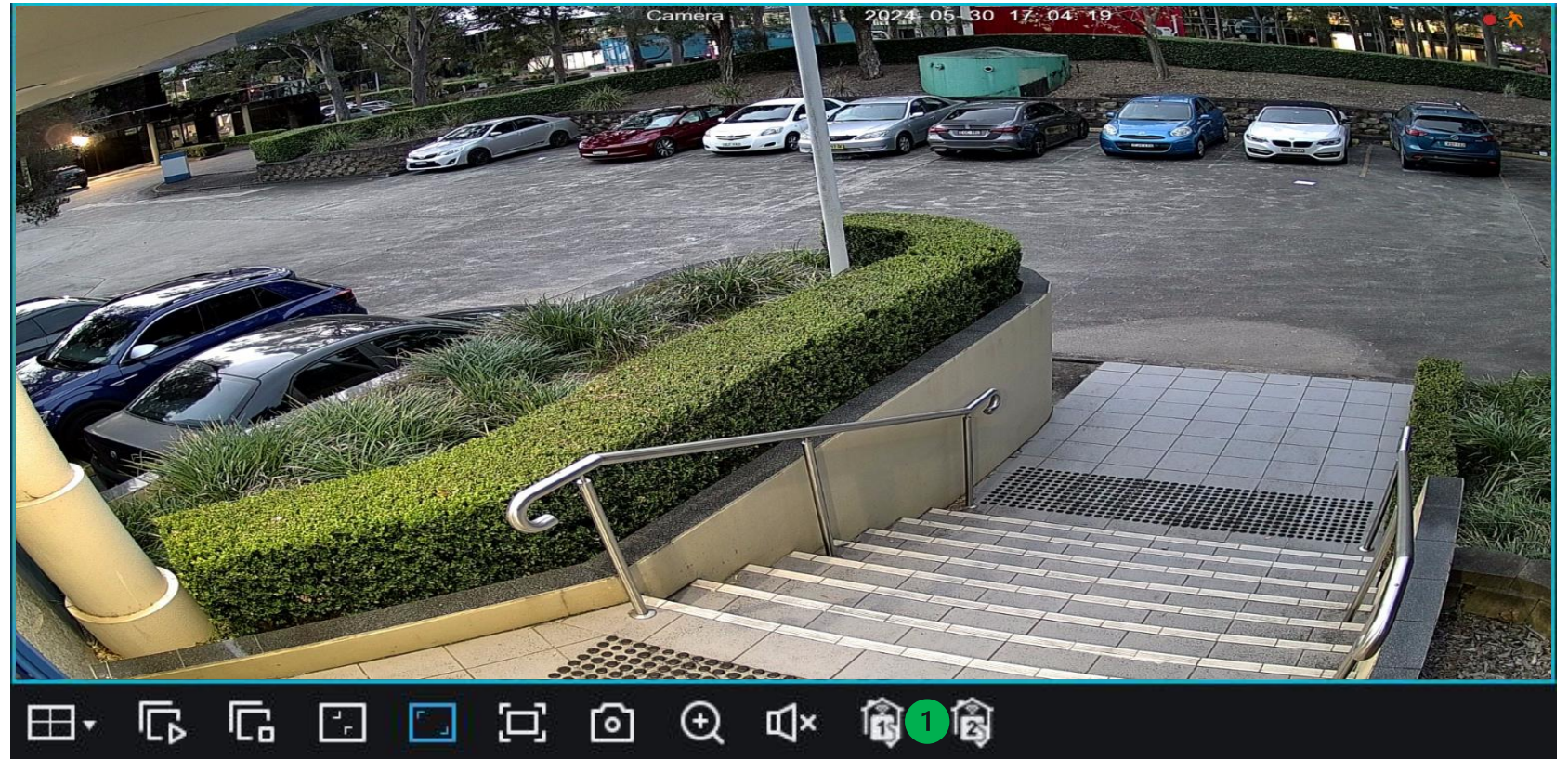
## HTTP Manual Push – Triggering – From NVR/Camera

If you would like to trigger one of the two Manual Push Events, log into the NVR or camera via the web interface of NVR interface.

In Live View, click on the camera you are interested in triggering the event for and a light blue box will surround the camera.

- 1 Two icons will appear at the bottom of the screen, with the numbers 1 & 2 on them.

Clicking these will trigger the corresponding Manual Push Event that has been set up previously.



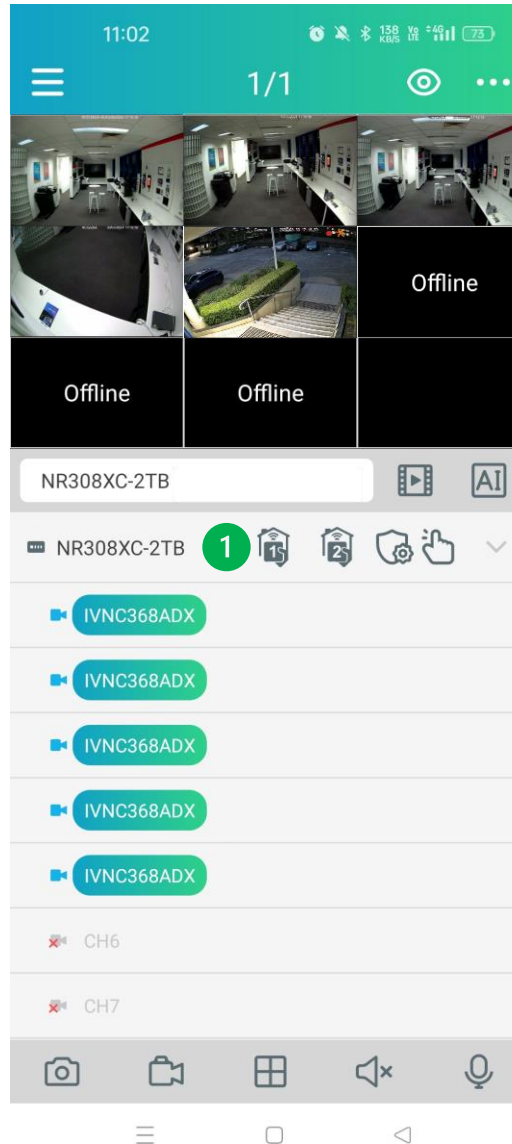
## HTTP Manual Push – Triggering – From iVSEC X App

If you would like to trigger one of the two Manual Push Events, open up the latest version of the iVSEC X App.

In Live View, click on the NVR you are interested in triggering the event for and it will expand showing all the cameras.

- 1 Two icons will appear at the side of the screen, with the numbers 1 & 2 on them.

Clicking these will trigger the corresponding Manual Push Event that has been set up previously.





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