

# Push Notifications Technical Note

P/N 1073265-EN • REV B • ISS 27FEB18

## Subject

This technical note describes how to set up and use the push notification feature in TVRmobile. Push notifications are supported by TVRmobile version 3.0 and higher for Android and iOS.

## What is a push notification?

The push notifications feature lets TVRmobile notify a user of new messages or events even when the user is not actively using TVRmobile.

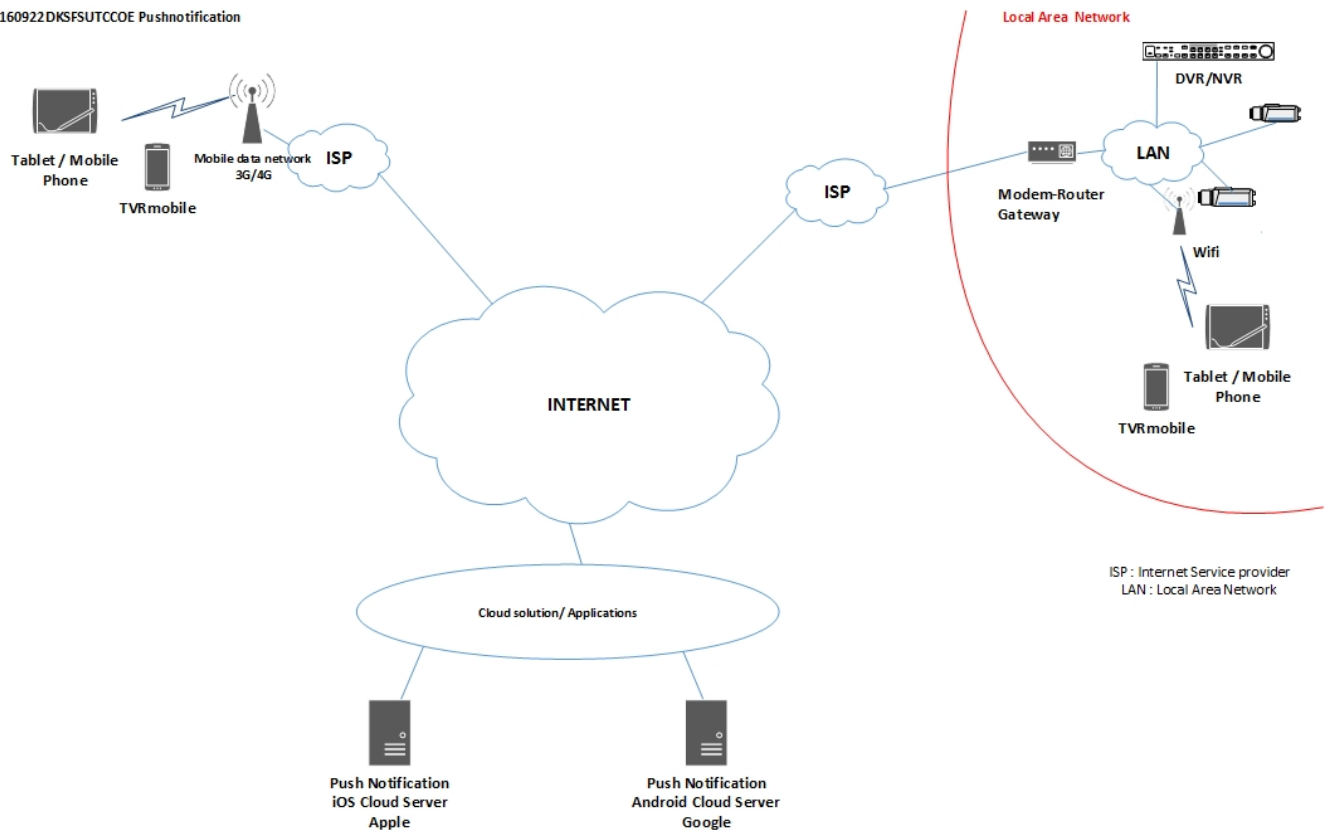
In TVRmobile events can be received from the recorder and these events can be shown as a push notification to the user.

## What recorders support push notifications?

- TVN 10 (FW 2.1)
- TVN 21 (FW 3.1)
- TVR 12HD (FW 1.2)
- TVR 15HD (FW 1.0)
- TVR 44HD (FW 1.2)
- TVR 45HD (FW 1.0)
- TVN 22 (FW 1.0)
- TVN 71 (FW 1.0e)

# What is needed to receive push notifications in TVRmobile?

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The recorder needs to be connected to the internet to be able to use push notifications.

Even when the phone or tablet is used via Wi-Fi on the same LAN as the recorder, this internet connection is needed.

The reason is that push notifications need to use the Android or Apple Notification Center for sending the messages to the mobile application.

## What network settings are needed in the recorder and the local network?

In the recorder a user needs to setup the default gateway address and the DNS address.

The default gateway address can be the IP address of the router.

The DNS address can be the DNS of the ISP or you can also use the Google DNS address (8.8.8.8).

**Network Settings**

**NIC Settings**

NIC Type: 10M/100M/1000M Self-adaptive

IPv4 Address: 192.168.44.160  Enable DHCP

IPv4 Subnet Mask: 255.255.0.0

IPv4 Default Gateway: 192.168.222.1

IPv6 Address: fe80::c256:e3ff:fe40:cd3a

IPv6 Default Gateway:

IPv6 Default Gateway:

MAC Address: c0:56:e3:40:cd:3a

MTU: 1500 Bytes

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**DNS Server**

Preferred DNS Server: 8.8.8.8

Alternate DNS Server:

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**More Settings**

Server Port: 8000

HTTP Port: 80

Multicast IP:

RTSP Service Port: 554

Enable Telnet

Caution: Device will reboot automatically after changing and saving new server port setting.

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**Bandwidth Limit**

Total Bandwidth Limit: 204800 Kbps

As well as the DNS and default gateway settings, the user will need to also set up port forwarding for the following ports:

- HTTP port (default: 80) (\*)
- RTSP port (default: 554) (\*)
- Server port (default: 8000)

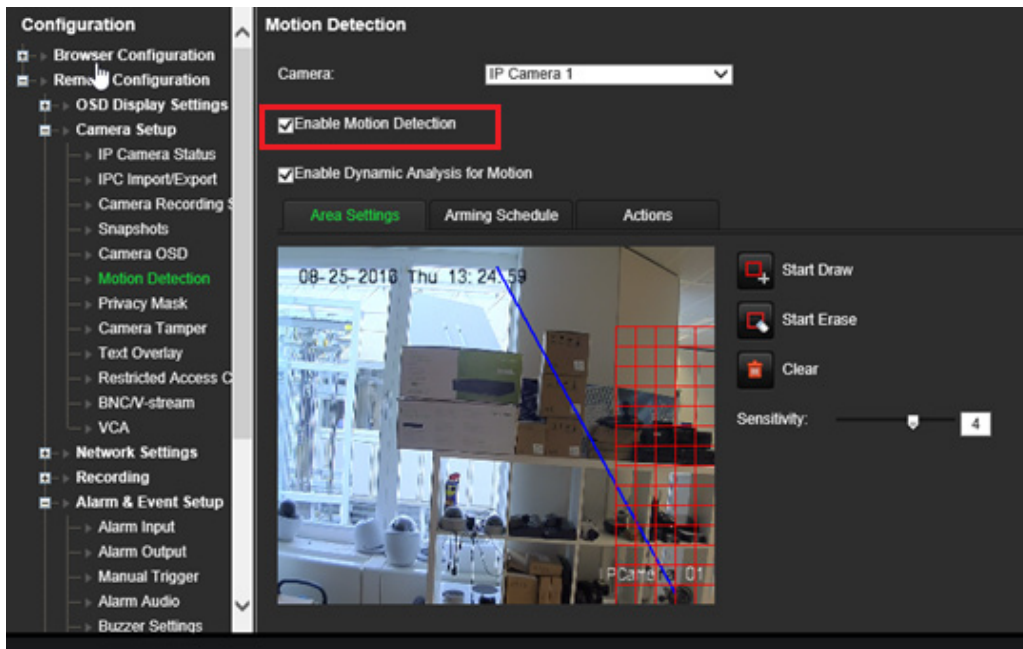
(\*) Some ISPs block the use of port 80 and/or 554. When these ports are blocked, use a port number higher than 1024.

## How to set up push notifications in the recorder?

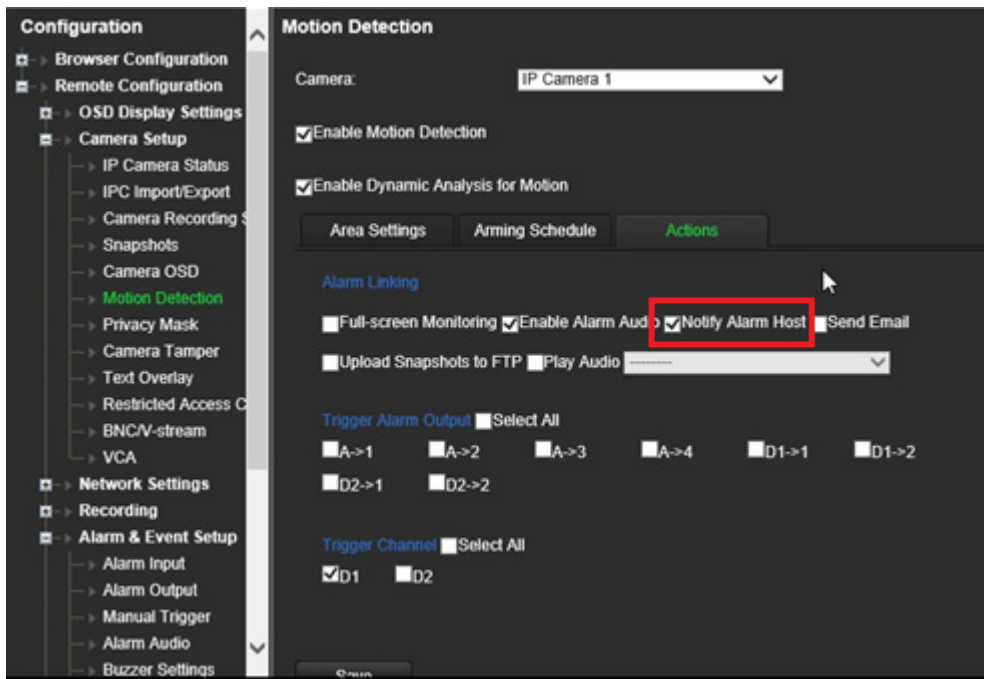
As an example we will set up push notifications for motion detection.

Steps to follow:

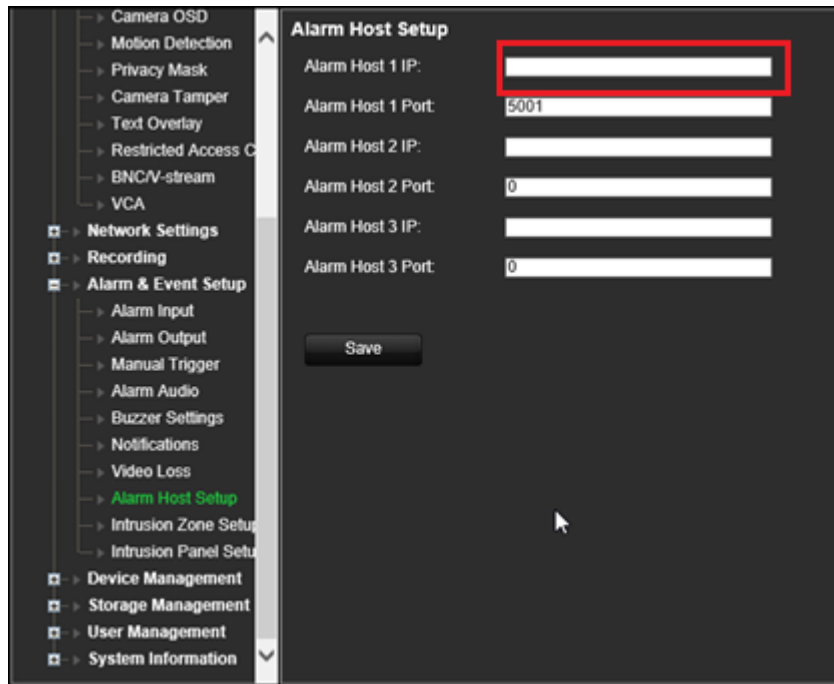
1. Set up motion detection for a camera



2. Select Notify Alarm Host as an action for motion detection.



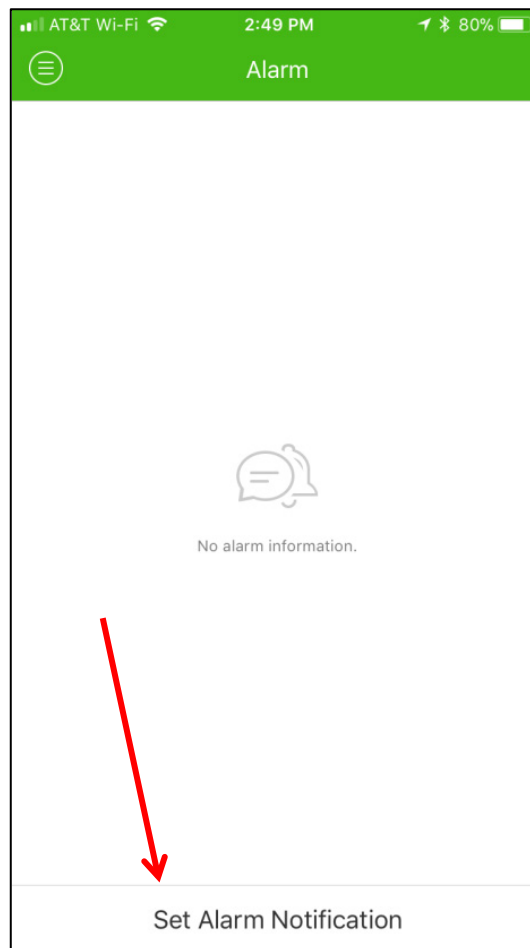
3. The user does not need to enter a destination address in the Alarm Host setup window.



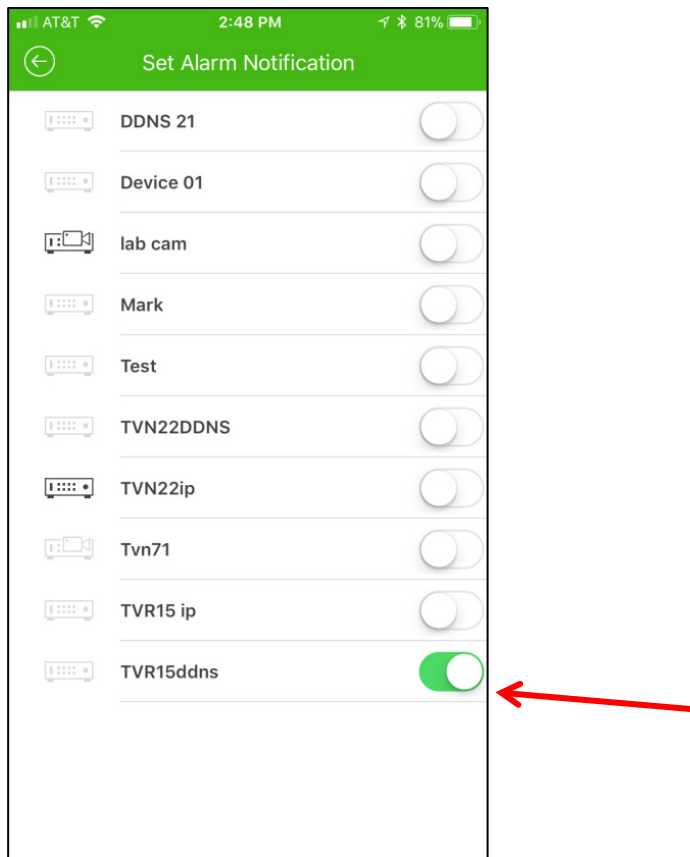
## Setup

In TVRmobile, the user needs to add the recorder.

1. In the main menu, tap **Alarm** and then tap **Set Alarm Notification**.

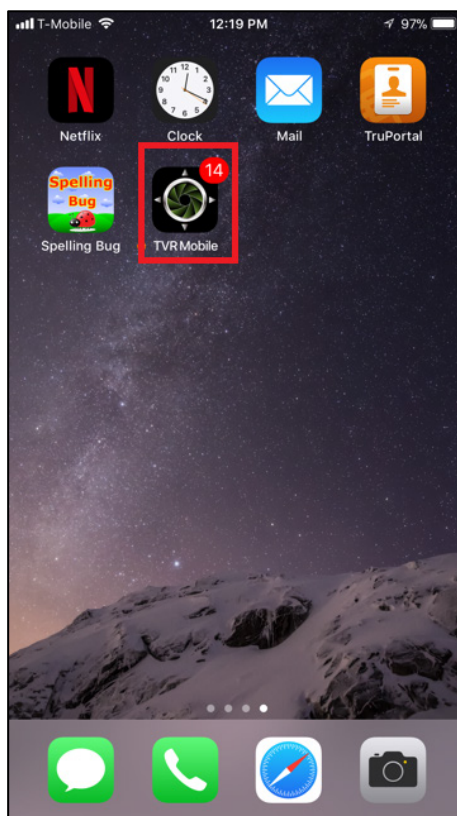


2. Slide the button to the right to enable the push notification function for the recorder.

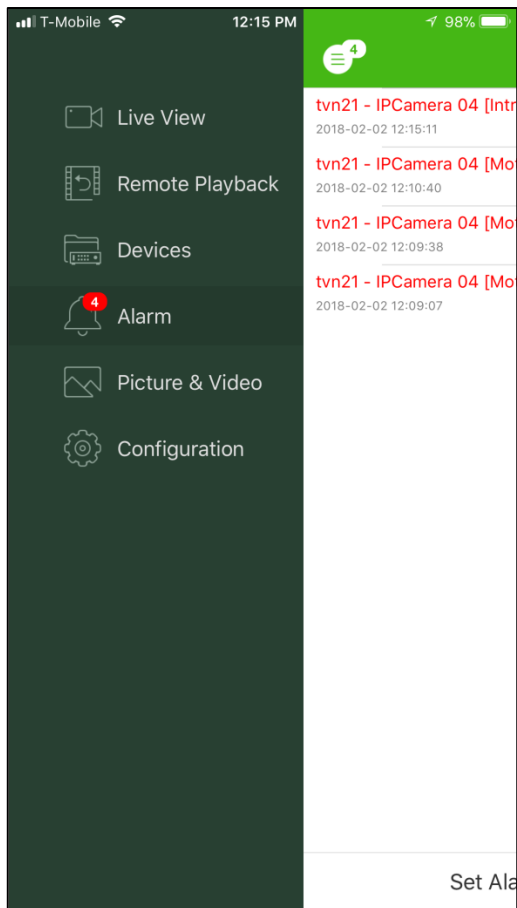


## Display push notifications

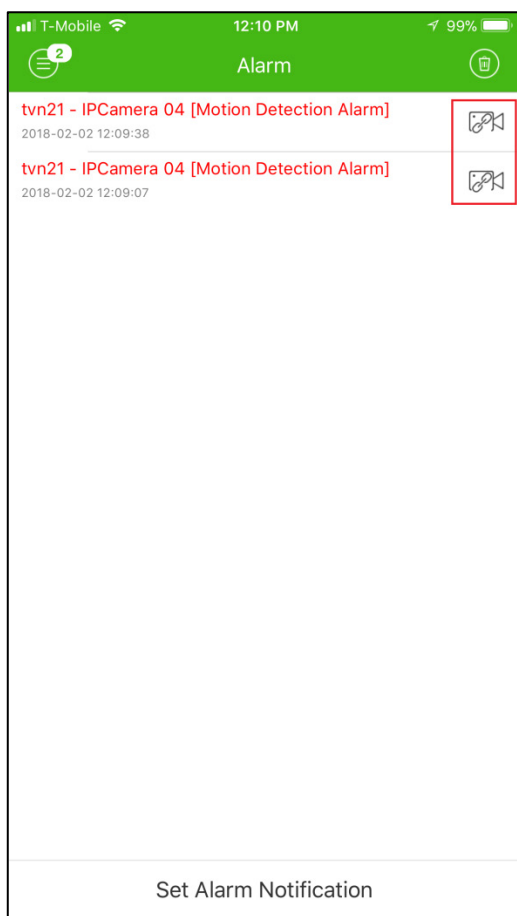
1. When motion detection is detected, a red dot appears in the left upper corner of the app icon with the number of triggers that have been detected. Tap the TVRMobile app icon.



2. Tap Alarm. A list of events appears.



3. Tap the camera icon next to an event.



4. Tap **Live View** or **Remote Playback** to view live or recorded video of the event.

