

Push Notifications Technical Note

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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.

Which 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 11 (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. This is because push notifications need to use the Android or Apple Notification Center for sending messages to the mobile application.

Which network settings are needed in the recorder and the local network?

In the recorder, a user needs to set up 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
DNS Server -	
Preferred DNS Server:	8.8.8.8
Alternate DNS Server:	
More Settings -	
Server Port:	8000
HTTP Port:	80
Multicast IP:	
RTSP Service Port:	554
Enable Telnet	
Caution: Device will reboo	t automatically after changing and saving new server port setting.
Roodwidth Limit	
Total Bandwidth Limit	204800 Kbps
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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 ports 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.

Configuration	Motion Detection	
Browser Configuration Remote Configuration	Camera: IP Camera 1	<u>~</u>
□ → OSD Display Settings ■ → Camera Setup	Enable Motion Detection	
IP Camera Status IPC Import/Export	Enable Dynamic Analysis for Motion	
Camera Recording S	Area Settings Arming Schedule Actions	
-> Camera OSD	Alarm Linking	k
- > Privacy Mask	Full-screen Monitoring CEnable Alarm Audo Notify Ala	Irm Host Send Email
— ⊢ Camera Tamper — ⊨ Text Overlay	Upload Snapshots to FTP Play Audio	×
Restricted Access C BNCA/-stream	Trigger Alarm Output Select All	
-> VCA	■A>1 ■A>2 ■A>3 ■A>4	D1->1 D1->2
D Network Settings D Recording	□ D2->1 □ D2->2	
Alarm & Event Setup	Trigger Channel Select All	
- > Alarm Input	⊠ D1 ■ D2	
-> Manual Trigger		
- > Alarm Audio		
- Buzzer Settings	Onun	

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

- > Camera OSD	Alarm Host Setup	
→ Privacy Mask	Alarm Host 1 IP:	
-> Camera Tamper	Alarm Host 1 Port	5001
	Alarm Host 2 IP:	
BNC/V-stream	Alarm Host 2 Port	0
G → VCA	Alarm Host 3 IP:	
□-> Recording	Alarm Host 3 Port	0
Alarm & Event Setup → Alarm Input		
> Alarm Output	Save	
→ Alarm Audio		
→ Buzzer Settings Notifications		
- > Video Loss		
- > Alarm Host Setup		
> Intrusion Zone Setur		*
Intrusion Panel Setu		
B -> Storage Management		
D -> User Management		
□-> System Information		

Setup

- In TVRMobile, the user needs to add the recorder.
- 1. In the main menu, tap Alarm and then tap Set Alarm Notification.

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	Alarm	
	Ð	
	No alarm information.	
Se	t Alarm Notificat	ion

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

-) Set Alarm Notification
DDNS 21
Device 01
Iab cam
IIIII Mark
Test
TVN22DDNS
TVN22ip
Tvn71
TVR15 ip
TVR15ddns

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.

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Ē	Alarm	
tvn21 - IPCamera 2018-02-02 12:09:38	04 [Motion Detection Alarm]	691
tvn21 - IPCamera 2018-02-02 12:09:07	04 [Motion Detection Alarm]	
	Set Alarm Notification	

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



Note: The alarm linkage is not available for events from physical alarm inputs or events that are reported by intrusion panels.