



Event Notificator



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Used symbols



Important

Important — Indicates a risk to personal safety or potential damage to the router. Follow these instructions precisely to prevent injury or equipment damage.



Warning

Warning — Highlights conditions that may cause malfunction, loss of data, or unexpected behavior in specific situations. Read carefully before proceeding.



Info

Info — Provides helpful tips, context, or references that improve understanding but are not strictly required to complete the task.



Code Example



Code Example - Copy-pasteable configuration snippets or CLI commands.

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1. Description of the module

Warning

Important Notice Regarding Firmware Version 6.6.0 and above

- **Feature Integration:** As of router firmware version 6.6.0, the functionality of this Router App is now included as a standard feature. It can be accessed via *Configuration* → *Events*.
- **Recommendation:** On routers running version 6.6.0 or newer, it is strongly recommended to use the native firmware feature and uninstall this app to prevent potential conflicts.
- **Migration Advisory:** When transitioning from this app to the integrated feature, you must carefully review the new settings. Default values and available options may differ, and failing to adjust them could lead to unexpected reboot behavior.

Info

The Router App requires firmware 6.4.1 or higher.

The *Event Notificator* provides users with a method to receive notifications on selected events through email, SMS, and SNMP.

2. Web Interface

Once the installation of the module is complete, the module's GUI can be invoked by clicking the module name on the Router Apps page of router's web interface.

Left part of this GUI contains menu with Configuration menu section and Administration menu section. Administration menu section contains Test Event item and Return item, which switches back from the module's web page to the router's web configuration pages. The main menu of module's GUI is shown on Figure 2.

Configuration
Events
SMS
E-mail
SNMP
Administration
Test Event
Return

Figure 1: Menu

2.1 Configuration

2.1.1 Events

In the *Events* section you can enable whole module and select which traps will send e-mail notification to which Mail groups or SMS. Events itself are self explanatory.

Event Notificator Configuration							
<input type="checkbox"/> Module enabled							
Event	ID	SMS	SNMP trap	Mail group 1	Mail group 2	Mail group 3	Mail group 4
Configuration changed	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Password changed	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Login failed	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet cable 0 disconnected	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet cable 1 disconnected	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet cable 2 disconnected	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System rebooted	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test event triggered	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="button" value="Apply"/>							

Figure 2: Configuration

2.1.2 SMS

In the SMS section you can fill the data about device to better locate the origin of event and add 8 telephone numbers to which the notifications are send. Telephone number should be entered without spaces. The advantage of using SMS is that the event notification SMS can be sent when an ethernet cable is disconnected. To be able to send SMS, the option **Module enabled** in the Event menu section have to be checked.

Event Notificator Configuration	
Field:	Contents (max 128 characters each):
Device name	<input type="text" value="[unnamed device]"/>
Device location	<input type="text"/>
Device admin contact	<input type="text"/>
SMS recipients numbers:	
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 3: SMS

2.1.3 E-mail

In the e-mails section you can fill the data about device to better locate the origin of event and create up to 4 mail groups to which are notification send. Screenshot below is shortened with only 1 mail group just for quick example.

Event Notificator Configuration		
Note: for e-mail notifications to work, SMTP must be configured first – see Configuration -> Services -> SMTP, or the following link: SMTP configuration		
Field:	Contents (max 128 characters each):	Include in subject:
Device name	[unnamed device]	always included
Device location		<input type="checkbox"/>
Device admin contact		<input type="checkbox"/>
Device identification in subject: [unnamed device]		
Mail Group 1		

Apply

Figure 4: E-mails

2.1.4 SNMP

The SNMP configuration varies depending on the selected SNMP version. STMP server for sending Emails has to be properly configured in Configuration/Services/STMP for Email notification to work properly.

SNMP Version 1

Event Notificator Configuration	
Note: traps are sent with an unsigned integer value 1 with OID 1.3.6.1.4.1.30140.3.101.<event_id>.0. See event configuration page for event IDs.	
SNMP manager IPv4 address	<input type="text"/>
SNMP version	<input type="text" value="1"/>
Community	<input type="text" value="public"/>
<input type="button" value="Apply"/>	

Figure 5: SNMP version 1

Item	Description
SNMP manager IPv4 address	IP address of SNMP manager.
Community	String used as a form of security measure for controlling access to network management information

Table 1: SNMP version 1 configuration items description

SNMP version 2c

Event Notificator Configuration	
Note: traps are sent with an unsigned integer value 1 with OID 1.3.6.1.4.1.30140.3.101.<event_id>.0. See event configuration page for event IDs.	
SNMP manager IPv4 address	<input type="text"/>
SNMP version	2c ▼
PDU Type	Inform ▼
Community	public
<input type="button" value="Apply"/>	

Figure 6: SNMP version 2c

Item	Description
SNMP manager IPv4 address	IP address of SNMP manager.
PDU Type	Select PDU Type: <ul style="list-style-type: none"> • Inform - Confirmed delivery. • Trap - Unconfirmed notification.
Community	String used as a form of security measure for controlling access to network management information

Table 2: SNMP version 2c configuration items description

SNMP version 3

Event Notificator Configuration	
Note: traps are sent with an unsigned integer value 1 with OID 1.3.6.1.4.1.30140.3.101.<event_id>.0. See event configuration page for event IDs.	
SNMP manager IPv4 address	<input type="text"/>
SNMP manager IPv4 port	161
SNMP version	3 ▼
PDU Type	Inform ▼
Engine ID Payload Type	Lowest MAC address ▼
Engine ID Payload *	<input type="text"/>
Engine ID	800075BC0302ADFF00010!
Context Name *	<input type="text"/>
Username	admin
Authentication	none ▼
Authentication Password	<input type="text"/>
Privacy	none ▼
Privacy Password	<input type="text"/>
* can be blank	
<input type="button" value="Apply"/>	

Figure 7: SNMP version 3

Item	Description
SNMP manager IPv4 address	IP address of SNMP manager.
SNMP manager IPv4 port	Defines the communication port for monitoring and managing network devices over IPv4.
PDU Type	Select PDU Type: <ul style="list-style-type: none"> • Inform - Confirmed delivery. • Trap - Unconfirmed notification.
Engine ID Payload Type	Select Engine ID Payload Type: <ul style="list-style-type: none"> • Lowest MAC Address (default value) • ASCII Text • Hexadecimal Value
Engine ID Payload	When selected ASCII text of Hexadecimal Value in the Payload Type enter desired value for further identification of Engine
Engine ID	ID of the Engine with added payload used as a unique identifier for SNMP entities generated from values selected above. It helps in distinguishing between different SNMP entities within the same network, allowing for secure communication and message processing. The Engine ID is used as part of the SNMPv3 message header for authentication and privacy purposes.
Context Name <i>(optional)</i>	String used to differentiate between different logical subsets of managed objects within an SNMP entity. Each context can have its own set of managed objects and access control settings. Contexts help in organizing and isolating management data, improving scalability, security, and efficiency of SNMP-based management systems.
Username	Username used for authentication purposes
Authentication	Select authentication from the list below <ul style="list-style-type: none"> • none • SHA-512 • SHA-386 • SHA-256 • SHA-224 • SHA • MD5
Authentication Password	Password for authentication selected above.
Privacy	Choose privacy. Options are none , DES and AES .
Privacy Password	When the Privacy above is selected to be DES or AES, enter the password.

Table 3: SNMP configuration items description

2.2 Administration

2.2.1 Test Event

Here you can trigger the test event. After triggering the test event here, notifications should be sent out through all the channels configured on the previous pages. You can use this to test whether your configuration is correct. Note that you have to both enable the notification method in the Events page, and properly set up details in the *e-mail* page and/or the *SNMP* page first.

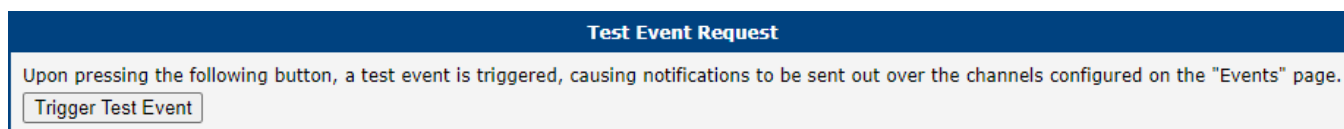


Figure 8: Test event

2.3 Troubleshooting

In case of any problems, check Status / System Log for any hints.

```
2024-05-03 07:23:59 dnsmasq[1215]: using nameserver 62.141.16.161#53
2024-05-03 07:58:30 https: user 'root' logged in from 192.168.1.42
2024-05-03 08:33:24 last message repeated 1 time
2024-05-03 08:33:32 https: user 'root' added user module 'event_notifier.v3.tgz'
2024-05-03 08:33:32 event_notifier[18277]: module disabled, not starting
2024-05-03 08:37:04 event_notifier[19143]: module disabled, not starting
2024-05-03 08:37:15 event_notifier[19202]: module disabled, not starting
2024-05-03 08:37:32 event_notifier[19286]: started
2024-05-03 08:37:32 event_notifier[19286]: Start too long after reboot to trigger reboot event
2024-05-03 09:26:00 https: user 'root' logged in from 192.168.1.42
```

Figure 9: Troubleshooting

3. Related Documents

You can obtain product-related documents on *Engineering Portal* at icr.advantech.com address.

To get your router's *Quick Start Guide*, *User Manual*, *Configuration Manual*, or *Firmware* go to the [Router Models](#) page, find the required model, and switch to the *Manuals* or *Firmware* tab, respectively.

The *Router Apps* installation packages and manuals are available on the [Router Apps](#) page.

For the *Development Documents*, go to the [Development](#) page.