

SNMP configuration



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InfiMONITOR polles devices via the **SNMP** protocol. Therefore each device in the network should have SNMP agent running and configured to perform the devices management and monitoring.

How to add new device to monitoring network

By default, "**SNMP Agent**" and "**SNMP Trap**" are disabled.

Make necessary changes to the device configuration to perform monitoring with **InfiMONITOR**: enable "**SNMP Agent**" and configure the "**SNMP Trap**" parameters.

There are two ways:

1. Via the **CLI** command line interface (this option is faster)
2. Via the **WANFlex** web-interface.

Via the CLI

Access the device via the **Telnet** or **SSH** protocols and execute the following commands (replace USERNAME and PASSWORD with the desired values):

```
snmpd user USERNAME add pass PASSWORD security authNoPriv accessRights readWrite class admin
```



NOTE

Only protected mode "**authNoPriv**" is supported by **InfiMONITOR**

Start "**SNMP Agent**" and save the configuration

```
snmpd start  
config save
```

In order to start and configure "**SNMP Agent**" simultaneously for all **CPEs** connected to the **BS** (including **BS** too), on the **BS** execute the following commands

```
mint rf5.0 rcmd -all -self "snmpd user USERNAME add pass PASSWORD security authNoPriv accessRights  
readWrite class admin"  
mint rf5.0 rcmd -all -self "snmpd start"  
mint rf5.0 rcmd -all -self "config save"
```

In order to enable "**SNMP Trap**" simultaneously for all **CPE** s connected to the **BS** (including **BS** too), on the **BS** execute the following commands (replace "**IP ADDRESS**" with the **InfiMONITOR IP-address**)

```
mint rf5.0 rcmd -all -self "trapd start"
mint rf5.0 rcmd -all -self "trapd dst IP ADDRESS:162/v2"
mint rf5.0 rcmd -all -self "trapd type topoGroup enable"
mint rf5.0 rcmd -all -self "trapd type radioGroup enable"
mint rf5.0 rcmd -all -self "trapd type mintGroup enable"
mint rf5.0 rcmd -all -self "trapd type ospfGroup enable"
mint rf5.0 rcmd -all -self "trapd type linkEvent enable"
mint rf5.0 rcmd -all -self "trapd typetrapdColdStartEvent enable"
mint rf5.0 rcmd -all -self "trapd type snmpdAuthenticationFailureEvent enable"
mint rf5.0 rcmd -all -self "trapd type syslog enable"
mint rf5.0 rcmd -all -self "config save"
```

Configure the agent IP-address separately, for each device (replace "IP ADDRESS" with the device IP-address value)

```
trapd agent IP ADDRESS
config save
```

Via the web-interface



NOTE

You can use the Web-interface "Command Line" section for running the commands mentioned above.

Login to the device via Web-interface. Go to the "Basic Setting" page and then to the "SNMP" menu. Click the "Access" option



Figure - SNMP menu

Select the "Start **SNMP**" checkbox (in order to enable "SNMP Agent") and unselect the "Version 1 enable" checkbox (in order to disable the **SNMPv1** version, which is enabled in the default configuration). Click the «Add **SNMPv3 User**» button and insert the authentication data to access the device via the **SNMP** protocol into the "User Name" and "Password" fields. Leave the rest of the parameters intact:

▼ SNMP

▼ Access

☒ Start SNMP:
 ☐ Version 1 enable:
 Community:
 Contact:
 Location:

User Name	Password	Security
<input type="text"/>	<input type="text"/>	Authorization No Privacy ▼

▶ Traps

▶ QoS Options

▶ Traffic Shaping

▶ Extra Commands

Figure - SNMP Access setting

Click the "Traps" option in the "SNMP" menu, where are following fields:

- "Enable *SNMP traps*" - traps enable/disable, select the checkbox
- "Agent *IP*" - set the device *IP*-address
- "Destination" - the **InfimONITOR** *IP*-address and *UDP*-port, which the "*SNMP Trap*" processing subsystem use for reception by default 162:
 - "V2" - *SNMP* v2 enable/disable, select the checkbox
 - "Traps groups" - select the checkboxes for all traps groups, to be transmitted by the device into the "*SNMP Trap*" processing subsystem.

▼ SNMP

► Access

▼ Traps

Help Enable SNMP Traps: ☒ Agent IP: . . . X Transport: IP ▼

Destination: . . . : X + V2 ☒

topoGroup <input checked="" type="checkbox"/>	
topoEvent	<input checked="" type="checkbox"/>
newNeighborEvent	<input checked="" type="checkbox"/>
lostNeighborEvent	<input checked="" type="checkbox"/>

radioGroup <input checked="" type="checkbox"/>	
radioFreqChanged	<input checked="" type="checkbox"/>
radioBandChanged	<input checked="" type="checkbox"/>

mintGroup <input checked="" type="checkbox"/>	
mintRetries	<input checked="" type="checkbox"/>
mintBitrate	<input checked="" type="checkbox"/>
mintSignalLevel	<input checked="" type="checkbox"/>

ospfGroup <input checked="" type="checkbox"/>	
ospfNBRState	<input checked="" type="checkbox"/>
ospfVirtNBRState	<input checked="" type="checkbox"/>
ospfIFState	<input checked="" type="checkbox"/>
ospfVirtIFState	<input checked="" type="checkbox"/>
ospfConfigError	<input checked="" type="checkbox"/>

others <input checked="" type="checkbox"/>	
linkEvent	<input checked="" type="checkbox"/>
trapdColdStartEvent	<input checked="" type="checkbox"/>
snmpdAuthenticationFailureEvent	<input checked="" type="checkbox"/>
syslog	<input checked="" type="checkbox"/>

Clone Remove Clear

Figure - SNMP Traps configuration

Finalize the configuration, click the "Apply" button.