

Port Utilization Alarm

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Chapter1 Configuring Port Utilization Alarm

1.1 Brief Introduction to Device Utilization Alarm

The device utilization alarm is used to monitor port bandwidth, CPU occupation and alarm when congestion in order to administrator aware the running status between the network and device.

- Exceed: when port bandwidth utilization over “exceed”, it triggers congestion alarm.
- Normal: when port bandwidth utilization less “exceed”, it triggers recover alarm CPU utilization alarm also can set two trigger values, details as below:
- Busy: when CPU utilization over “busy”, it triggers alarm of CPU busyness
- Unbusy: when CPU utilization less “busy”, it triggers alarm of CPU idle Notes, all alarms will show in the list of Syslog.

1.2 Configuring Device Utilization Alarm

1.2.1 Configuring Port Utilization Alarm

Using below commands to configure port utilization. Enable port utilization in system and port mode by default. The “exceed” value equals 850M, the “normal” value equals 600M.

Table 1-1 configuring port utilization alarm

Operation	Command	Remark
Enter global configuration mode	configure terminal	-
Enable(disable)port utilization alarm with system mode	(no)alarm all-packets	required
Enter port configuration	interface ethernet <i>interface-num</i>	-
Enable(disable)port utilization alarm with port mode	(no)alarm all-packets	Required
Configure alarm value	alarm all-packets threshold {exceed <i>threshold</i> normal <i>threshold</i> }	Optional

1.2.2 Configuring CPU Utilization Alarm

Using below commands to configure CPU utilization. Enable CPU utilization by default. The “busy” value equals 90%, the “unbusy” value equals 60%

Table 1-2 configuring CPU utilization alarm

Operation	Command	Remark
Enter global configuration mode	configure terminal	-
Enable(disable) CPU utilization alarm	alarm cpu	Required
Configure congestion value	alarm cpu threshold {busy <i>thresold</i> unbusy <i>thresold</i> }	optional

1.2.3 Displaying and Debugging Device Utilization Alarm

After finishing above configuration, you can show configuration by below commands.

Table 1-3 displaying and debugging device utilization alarm

Operation	Command	Remark
Display the enable status and alarm value of CPU utilization alarm	show alarm cpu	Perform either of the commands
Display port utilization in system mode	show alarm all-packets	Perform either of the commands
Display port utilization and value in port mode	show alarm all-packets interface [ethernet <i>interface-num</i>]	Perform either of the commands