

Chapter-52

Port & CPU Utilization Alarm



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Chapter 52 Port & CPU Utilization Alarm

52.1 Port & CPU Utilization Alarm Overview

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 “exceeds”, it triggers congestion alarm.

Normal: when port bandwidth utilization less “exceeds”, 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.

52.2 Configure Port & CPU Utilization Alarm

52.2.1 Port & CPU Utilization Alarm Configuration List

Configuration Task	Description	Detailed Configuration
Configure Port Utilization Alarm	Required	52.2.2
Configure CPU Utilization Alarm	Required	52.2.3
Display and Debugging Device Utilization Alarm	Optional	52.2.4

52.2.2 Configure 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.

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enable(disable)port utilization alarm with system mode	[undo] alarm all-packets	
Enter port configuration	interface ethernet <i>interface-num</i>	
Enable(disable)port utilization alarm with port mode	[undo] alarm all-packets	
Configure alarm value	alarm all-packets threshold { exceed <i>thresold</i> normal <i>thresold</i> }	

52.2.3 Configure 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%.

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enable(disable) CPU utilization alarm	[undo] alarm cpu	
Configure congestion value	alarm cpu threshold { busy <i>thresold</i> unbusy <i>thresold</i> }	

52.2.4 Display and Debugging Device Utilization Alarm

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

Operation	Command	Remarks
Display the enable status and alarm value of CPU utilization alarm	display alarm cpu	
Display port utilization in system mode	display alarm all-packets	
Display port utilization and value in port mode	display alarm all-packets interface [ethernet interface-num]	