Chapter 52: Port & CPU Utilization Alarm

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Chapter 51 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 "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.

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** *interface-num*	
Enable(disable)port utilization alarm with port mode	[**undo**] **alarm all-packets**	
Configure alarm value	**alarm all-packets threshold** { **exceed** *thresold* | **normal** *thresold* }	

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** *thresold* | **unbusy** *thresold* }	

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*]	