Chapter 13: Remote-loop-detect

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Chapter 13 Remote-loop-detect

13.1 Remote-loop-detect Overview

The device is connected with the client. If there is a loop in the client network, which will affectthe entire network. Remote-loop-detect is to solve this problem. After the Remote-loop-detectisenabled on the Switch port, the Switch periodically sends a detection message. If the client network has a loop, the Switch receives the detection message from the Switch. In this case, the Switch considers that the client network exists loop, and the port connected to the client port according to the treatment strategy placed discarding or shutdown.

Some people may ask, the spanning tree can also be remote loop detection, why need Remote-loop-detect? This is because if the client network also has equipment to open spanning tree, the client network topology change easily affects the network of the room. Thegeneral networking is to connect the client port which does not open the spanning tree, with remote-loop-detect alternative.

13.2Configure Remote-loop-detect

13.2.1 Enable Remote-loop-detect

Operation	Command	Remarks
Enter the global configuration mode.	**system-view**	
Enable remote-loop-detect	stp remote-loop-detect interface [ethernet [interface-list]]	
Disable remote-loop-detect	undo stp remote-loop-detect interface [ethernet [interface-list]]	
Enter the interface configuration mode.	interface { { ethernet interface-num } | interface-name }	
Enable remote-loop-detect	stp remote-loop-detect	
Disable remote-loop-detect	undo stp remote-loop-detect	

13.2.2 Configure the Processing Policy

When Remote-loop-detects the existence of loop, there are two ways: one is discardingthe port, the other is the port shutdown, and then periodically restores the port; the default usediscarding.

Operation	Command	Remarks

Enter the global configuration mode.	**system-view**	
Configure the processing policy	**stp remote-loop-detect action** { shutdown | discarding }	Discarding by default

13.2.3 Configure the Interval Timer

Operation	**Command**	**Remarks**
Enter the global configuration mode.	**system-view**	
Configure the processing policy	**stp remote-loop-detect interval-time** *interval-time*	5s by default

13.2.4 Configure the Recovery Timer

When Remote-loop-detects that a loop exists and the shutdown command is used, the shutdown port periodically recovers the corresponding port. The default recovery period is 20 seconds and can be modified as needed. If it is configured as 60s, it means that it will not be automatically restored. User needs to manually run the shutdown / no shutdown command onthe port. The port can re-linkup.

Operation	**Command**	**Remarks**
Enter the global configuration mode	**system-view**	
Configure the shutdown processing policy	**stp remote-loop-detect action shutdown**	
Configure the recovery time of the port	**stp remote-loop-detect recover-time** *recover-time*	

13.2.5 Display Remote-loop-detect Configuration

Operation	**Command**	**Remarks**
Display remote-loop-detect Configuration	**display stp remote-loop-detect interface** [ethernet [interface-list]]	