Rujje

How to optimize the stuck of camera monitoring screen?

I. Applicable Scenario

When a large number of cameras are being monitored, the monitoring video screen may be stuck. In order to improve the video fluency, we can optimize the switch configuration to enable port isolation and storm control.

II. Network Topology



III. Configuration Points

In layer 2 networking, the NVR connects to port1 of the NBS core switch, and all the access switches are RG-ES200 Series switches. The port isolation should be configured on both NBS core switches and ES access switches.

2 The storm control should also be configured on both NBS core switches and ES access switches.



Configure Port Isolation.

Notice

If this function is incorrectly configured, the network may be disconnected. Please perform the remote operations with caution.

(1) NBS5100/5200 series switches configurations.

Log in to the Web page of the switch by using the default IP address 10.44.77.200/24 of the switch, and select **Security>Port Protection > Batch Edit** to enable the **Port Protection**. Selecting all ports except the port connecting to NVR and the uplink port, and then save the Settings.



	Port Protection		🖉 Batch Edit
Port	IP-MAC Binding	Action	
Gi1	IP Source Guard Anti-ARP Spoofing		
Gi2			
Gi3			
Gi4			
Gi5			
Gi6			
Gi7			
Rujje Rcycc Local Device(NBS Curren	ly in Local Device mode.	English ~ _ O Ruijie Cloud _ 鼹 Download App 📢	လှု Network Setup 🕞 Log Out
Switch Hostname: Ruijie NBS5200- Software Ver: ReyeeOS 1.86.1929 Ha	SN: G1RH15Q00447B IP: 192.168.111.5 rdware Ver: 1.01 DNS: 192.168.111.1	MAC: 54:16:51:76:EA:8F	(U) Reboot

After the configuration is complete, all interfaces cannot access each other except the port 1 and the uplink port. All other interfaces can access the port 1 and the uplink port, thus

reducing useless information exchange between surveillance

cameras.



(2) ES200 series switches configurations.

Log in to the web page of the switch and select **Switch** Settings > Port Isolation to enable the port isolation.

Notice

The interface connecting to the core switch (select 9 here) needs to use the uplink interface in the prompt, because after port isolation is enabled, the downlink interface cannot communicate with each other, and the uplink interface can communicate with all interfaces.

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▲ System Settings	1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 7 8 9 1 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Monitoring ~ -	Collapse	
	Port Isolation	
Switch Settings A	Downlink ports (1-8) will be isolated from each other. Port 9 is an uplink port and will not be isolated (Packets will be forwarded only between the uplink port and the downlink	
Port Settings	ports).	
Port Mirroring	Status	
Port Isolation		
Static MAC		
Search MAC		
MAC List		
DHCP Snooping		
VLAN Settings $~\sim$		
QoS Settings \sim		
PoE Settings		Ţ



Configure Storm Control.

A broadcast storm on a switch affects data communication on the switch. Generally, cameras generate a large number of broadcast packets. You can limit the broadcast and forwarding speed of interfaces to reduce the impact.

(1) NBS5100/5200 series switches configuration.

Log in to the web page of the switch, choose **Security** > **Storm Control > Batch Edit**, and select By Traffic Volume. The value is the actual traffic value. The limit parameter can be adjusted according to the actual situation. (You can first set the parameter as 10M for one camera and then set the superposition configuration based on the number of cameras in one interface (5 cameras: 10*5=50M). If the

improvement effect is not obvious after the configuration,

you can adjust the value appropriately.)





Currently in Local Device(NBS > Currently in Local Device)	evice mode.	English ~ Ruijie Cloud 騣 Download App _ ♠ Network S	ietup 🕞 Log Out
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Port List	DHCP Snooping Storm Control	之 Batch Edit 道 Del	lete Selected
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Total 0 10/page \checkmark < 1 \rightarrow Go to page 1	IP Source Guard Anti-ARP Spoofing		
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(2) ES200 series switches configuration.

Log in to the web page of the switch, choose **QoS Settings** > **Storm Control**, set the type to **Broadcast**, select ports 1–2 connected to the camera, enable storm control, and set the rate to 10, indicating that the broadcast forwarding is limited to 10 M/s.

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Homepage	1 2 3 4 5 6 7 8 9							
System Settings 🛛 🗸	Collapse							
Monitoring ~	Storm Control							
		Туре	Port	Status	Rate(Mbit/sec)			
Switch Settings 🛛 🗠		Broadcast 🗸	Port 1 × Port 2 ×	Enablec 🗸	10 (1-1000M)			
VLAN Settings \sim			Sa	/е				
QoS Settings ^	Туре	Broadcast(Mbit/sec)	Unknown Unica	st(Mbit/sec)	Unknown Multicast(Mbit/sec)			
·	Port 1	Disabled	Disab	ed	Disabled			
Port Rate	Port 2	Disabled	Disab	ed	Disabled			
	Port 3	Disabled	Disab	ed	Disabled			
Storm Control	Port 4	Disabled	Disab	ed	Disabled			
	Port 5	Disabled	Disab	ed	Disabled			
PoE Settings	Port 6	Disabled	Disab	ed	Disabled			
	Port 7	Disabled	Disab	ed	Disabled			
	Port 8	Disabled	Disab	ed	Disabled			
	Port 9	Disabled	Disab	ed	Disabled			





After the configuration is complete, you can continue to observe the monitoring screen.



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