

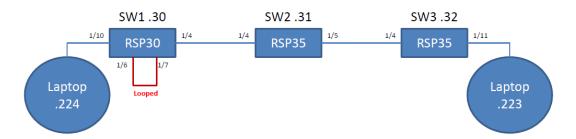
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HiOS: HTML- How to use RSPAN John M - 2024-02-16 - HiOS

This guide is designed to assist in the configuration of RSPAN on the layer 2 switches. The configurations can be used in a 2 switch RSPAN network using SW1 and SW3 switch configurations. If the network is larger than 3 switches us the SW2 configuration in all the switches between the start and end switches.

## **Network Topology**

Switch 1 will be the switch that is doing the port mirroring. In this setup port 10 is being mirrored to port 6, port 6 is looped back to port 7 on VLAN 10, (it is important to turn RSTP off on ports 6 and 7 of switch 1), VLAN 10 is then forwarded across the uplinks to switch 3 port 11 where the mirrored packets can be monitored. Note: the loop connection should be connected after switch 1 is fully configured.



Switch Configuration:

## SW1

The VLANs will need to be configured as T for the uplink port and – for the looped ports in the comm vlan. Spanning tree needs to be disabled on the looped ports. Port mirroring needs to be enabled, the destination port selected, the source port enabled with the TX/RX selected for the type, and the RSPAN VLAN ID and the Destination VLAN ID need to be configured. See Screen shots below for reference.

VL	.AN Configura	tion													
	VLAN ID	Status	Creation time	Name	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11
	1	other	05s	default	U	U	U	т	U		-	U	U	U	U
	10	permanent	09s					т							

Cooping	Trees	Dort	
Spanning	rree	Pon	

_	—				
	CIST	Guards			
	Port	STP active	Port state	Port role	Port path cost
	1/1	V	disabled	disabled	0
	1/2	V	disabled	disabled	0
	1/3	1	disabled	disabled	0
	1/4	1	forwarding	root	200,000
	1/5		disabled	disabled	0
	1/6		manualFwd	disabled	0
	1/7		manualFwd	disabled	0
	1/8	8	disabled	disabled	0
	1/9	1	disabled	disabled	0
	1/10	9	forwarding	designated	200,000
	1/11	9	disabled	disabled	0

ort Mirroring						
Operation	Destinatio	on port		VLAN mirroring		RSPAN
	Primary port	t 1/6	•	Source VLAN ID	0	Source VLAN ID
⊙ On ) Off	Allow manag	gement				VLAN ID
						Destination VLAN
Source port	Enabled	Туре				
1/1	0	none				
1/2		none				
1/3		none				
1/4		none				
1/5	0	none				
1/6		none				
1/7		none				
1/8		none				
1/9		none				
1/10	8	txrx				
1/11	0	none				

## SW2

The VLANs will need to be configured as T for the uplink ports. In the Port mirroring tab RSPAN VLAN ID needs to be configured. See Screen shots below for reference

VLAN Configu	ration														
VLAN ID	Status	Creation time	Name	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8		1/9	1/10	1/11
1	other	05s	default	U	U	U	T	Т	U	U	U		U	U	U
10	permanent	09s			· ·	-	-	т	-	•	-		-	-	
Port Mirro	ring														
Operation	1 D	Destination port			VLAN m	irroring				RSPAN					
	Pr	imary port		-	•	Source VL	AN ID	0			Source VL	AN IC		0	
OOn ⊙	) Off All	ow manageme	ent (								VLAN ID			10	
											Destination	n VLA	NID	0	
Source	port En	abled	Туре												
1/1	0		none												
1/2			none												
1/3			none												
1/4			none												
1/5	0		none												
1/6			none												
1/7			none												
1/8			none												
1/9	0		none												
1/10	0		none												
1/11			none												

## SW3

Finally use the screen shots to as a guide for switch 3 configuration of VLANs and port mirroring/RSPAN The VLANs will need to be configured as T for the uplink port and – for the destination port in the comm vlan. Port mirroring needs to be enabled, the destination port selected, and the RSPAN Source VLAN ID and the VLAN ID need to be configured. See Screen shots below for reference.

LAN Configu	andiaoni														
VLAN ID	Status	Creation time	Name	1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/	/8	1/9	1/10	1/11
1	other	05s	default	U	U	U	т	U	U	U	U		U	U	
10	permane	nt 09s		-											
Port Mirro	oring														
Operatio	n	Destination port			VLAN mi	irroring				RSPA	N				
		Primary port		1/11	-	Source VL	AN ID	0			Source	VLAN ID		10	
⊚ On (	) Off	Allow management								VLAN ID			10		
											Destina	ation VLAN	I ID	0	
Source	port	Enabled	Туре												
1/1		0	none												
1/2		0	none												
1/3			none												
1/4															
		0	none												
1/5															
		0	none												
1/6			none none												
1/6			none none none												
□ 1/6 □ 1/7			none none none none												
1/6 1/7 1/8			none none none none none												