Laborbericht - NVS - 5CHIF

Name: Juri Schreib | **Datum:** 2017-01-09

Ziel: Erfüllung der Aufgabenstellung

Monitroing (RSPAN) Configuration

Switch RSPAN_SRC

```
Switch#show monitor
Session 1
---------
Type                   : Local Session
Description            : -
Source Ports           :
    Both               : Fa0/10
Destination Ports      : Fa0/5
    Encapsulation      : Native
           Ingress     : Disabled


Session 3
---------
Type                   : Remote Destination Session
Description            : -
Source Ports           :
    RX Only            : Fa0/10
Dest RSPAN VLAN        : 5


Switch#show run | include monitor
monitor session 1 source interface Fa0/10
monitor session 1 destination interface Fa0/5
monitor session 3 source interface Fa0/10 rx
monitor session 3 destination remote vlan 5 reflector-port Fa0/6
Switch#
```

Switch RSPAN_DEST

```
Switch>en
Switch#show monitor
Session 5
---------
Type                   : Remote Source Session
Description            : -
Source RSPAN VLAN      : 5
Destination Ports      : Fa0/1
    Encapsulation      : Native
           Ingress     : Disabled


Session 7
---------
Type                   : Remote Source Session
Description            : -
Source RSPAN VLAN      : 5
Destination Ports      : Fa0/2
    Encapsulation      : Native
           Ingress     : Disabled


Switch#show run | include monitor
monitor session 5 destination interface Fa0/1
monitor session 5 source remote vlan 5
monitor session 7 destination interface Fa0/2
monitor session 7 source remote vlan 5
Switch#
```

Monitoring Simulieren

Ping Kommando testen

Sniffer 2

Service	● On	○ Off
Incoming Packets	● Port0	○ Port1
Buffer Size	———————[ ]———————	256

ICMP
ICMP
ICMP
ICMP
ICMP
ICMP
ICMP

Ethernet II

0	4	8		14	19 Bytes
PREAMBLE: 101010...1011		DEST MAC: 0050.0F5A.31C7		SRC MAC: 0002.173B.97C4	
TYPE: 0x800		DATA (VARIABLE LENGTH)			FCS: 0x0

IP

0	4	8	16	19	31 Bits
4	IHL	DSCP: 0x0		TL: 28	
ID: 0x1			0x0	0x0	
TTL: 255		PRO: 0x1		CHKSUM	
SRC IP: 1.1.10.10					
DST IP: 1.1.10.20					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x2		SEQ NUMBER: 1	

Clear

Sniffer 1

Sniffer1

| Physical | Config | GUI | Attributes |

Service	● On	○ Off
Incoming Packets	● Port0	○ Port1

Buffer Size ————————————————————————————[ ]——————————— 256

| ICMP |
| ICMP |
| ICMP |
| ICMP |

Ethernet II

0	4	8		14	19 Bytes
PREAMBLE: 101010...1011		DEST MAC: 0050.0F5A.31C7		SRC MAC: 0002.173B.97C4	
TYPE: 0x800	DATA (VARIABLE LENGTH)				FCS: 0x0

IP

0	4	8	16	19	31 Bits
4	IHL	DSCP: 0x0		TL: 28	
ID: 0x1			0x0	0x0	
TTL: 255	PRO: 0x1		CHKSUM		
SRC IP: 1.1.10.10					
DST IP: 1.1.10.20					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

ICMP

0	8	16	31 Bits
TYPE: 0x8	CODE: 0x0	CHECKSUM	
ID: 0x2		SEQ NUMBER: 1	

Clear

┌─ Event List Filters - Visible Events ─────────────────

ICMP, LLDP

| Edit Filters | Show All/None |

☐ Top

Sniffer 0

Sniffer0

| Physical | Config | GUI | Attributes |

Service	⊙ On	○ Off
Incoming Packets	⊙ Port0	○ Port1
Buffer Size		512

ICMP
ICMP
ICMP
ICMP

Ethernet II

```
0       4       8               14          19 Bytes
```

PREAMBLE: 101010...1011	DEST MAC: 0050.0F5A.31C7	SRC MAC: 0002.173B.97C4

TYPE: 0x800	DATA (VARIABLE LENGTH)	FCS: 0x0

IP

```
0    4    8        16   19              31 Bits
```

4	IHL	DSCP: 0x0		TL: 28	
ID: 0x1			0x0	0x0	
TTL: 255		PRO: 0x1		CHKSUM	
SRC IP: 1.1.10.10					
DST IP: 1.1.10.20					
OPT: 0x0				0x0	
DATA (VARIABLE LENGTH)					

ICMP

```
0          8        16              31 Bits
```

TYPE: 0x8	CODE: 0x0	CHECKSUM
ID: 0x2		SEQ NUMBER: 1

Clear

Event List Filters - Visible Events

ICMP, LLDP

Edit Filters	Show All/None

☐ Top

Die Übertragenen Pakete wurden von allen Sniffern empfangen

http://nvs.schreib.at/NVS/5CHIF_20170109_Schreib/