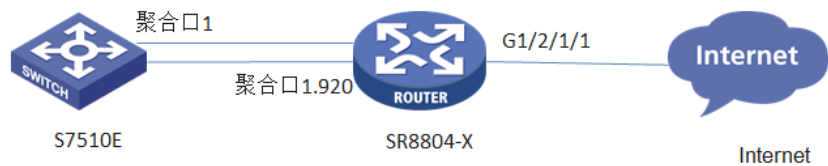


知 SR8804-X nat outbound不生效经验案例

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组网及说明



S7510E上的接口为vlan 920，SR8804-X的接口终结vlan 920

问题描述

SR8804-X作为出口设备，配置了nat outbound。从核心S7510E上ping SR8804-X的内网口能通，ping SR8804-X的外网口下一跳不通。SR8804-X带内网口源地址ping外网下一跳不通。

过程分析

查看配置，设备已经配置了引流策略

```
interface Route-Aggregation1.920
ip address 192.168.255.102 255.255.255.252
qos apply policy 1 inbound
vlan-type dot1q vid 920
#
interface Ten-GigabitEthernet1/4/0/2
port link-mode route
port link-aggregation group 1
#
interface Ten-GigabitEthernet2/4/0/2
port link-mode route
port link-aggregation group 1
#
interface GigabitEthernet1/2/1/1
port link-mode route
ip address 112.17.xx.xxx 255.255.255.224
nat outbound 2000
#
traffic classifier 1 operator and
if-match acl 2001
#
traffic behavior 1
redirect chassis 1 slot 2
#
qos policy 1 classifier 1 behavior 1
#
interface GigabitEthernet1/3/0/1
port link-mode route
ip address 10.101.0.1 255.255.248.0
qos apply policy 1 inbound
查看单板nat支持情况，支持
```

=====display device verbose=====				
Chassis	Slot No.	Brd Type	Brd Status	Software Version
1	0	SR05SRP1L1	Master	SR8800-CMW710-R7655P10
1	1	SR05SRP1L1	Standby	SR8800-CMW710-R7655P10
1	2	SPEX-1204	Normal	SR8800-CMW710-R7655P10
	Sub1	PIC-GP10L	Normal	
	Sub2	NONE	Absent	
	Sub3	NONE	Absent	
	Sub4	NONE	Absent	
1	3	SPC-GT48LA1	Normal	SR8800-CMW710-R7655P10
1	4	SPC-XP4LA1	Normal	SR8800-CMW710-R7655P10
1	5	SPC-XP4LA1	Normal	SR8800-CMW710-R7655P10
1	6	SFC-04B	Normal	SR8800-CMW710-R7655P10
1	7	SFC-04B	Normal	SR8800-CMW710-R7655P10
1	8	NONE	Absent	NONE
1	9	NONE	Absent	NONE
2	0	SR05SRP1L1	Standby	SR8800-CMW710-R7655P10
2	1	SR05SRP1L1	Standby	SR8800-CMW710-R7655P10
2	2	SPEX-1204	Normal	SR8800-CMW710-R7655P10
	Sub1	PIC-GP10L	Normal	
	Sub2	NONE	Absent	
	Sub3	NONE	Absent	
	Sub4	NONE	Absent	
2	3	SPC-GT48LA1	Normal	SR8800-CMW710-R7655P10
2	4	SPC-XP4LA1	Normal	SR8800-CMW710-R7655P10
2	5	SPC-XP4LA1	Normal	SR8800-CMW710-R7655P10
2	6	SFC-04B	Normal	SR8800-CMW710-R7655P10
2	7	SFC-04B	Normal	SR8800-CMW710-R7655P10
2	8	NONE	Absent	NONE
2	9	NONE	Absent	NONE

从S7510E上ping外网，查看SR8804-X上的会话，发现无任何会话信息

```
dis nat session verbose
```

```
dis session table ipv4 destination-ip 112.17.xx.xxx
```

显示的两个会话都为0

查看版本无相关软件bug

查看限制，内网口是SPC板，下发不了qos policy。设备会报错，但是命令行里显示正常。

```
[Bras_SR8804X_IRF-Route-Aggregation1.920]qos apply policy 1 inbound
```

```
%Sep 13 22:25:52:121 2018 Bras_SR8804X_IRF QOS/4/QOS_POLICY_APPLYIF_CBFAIL: -MDC=1-Chassis=1-Slot=4; Failed to apply classifier-behavior 1 in policy 1 to the inbound direction of interface Route-Aggregation1.920. Part of actions are not supported.
```

```
%Sep 13 22:25:51:665 2018 Bras_SR8804X_IRF QOS/4/QOS_POLICY_APPLYIF_CBFAIL: -MDC=1-Chassis=1-Slot=3; Failed to apply classifier-behavior 1 in policy 1 to the inbound direction of interface Route-Aggregation1.920. Part of actions are not supported.
```

```
%Sep 13 22:25:51:807 2018 Bras_SR8804X_IRF QOS/4/QOS_POLICY_APPLYIF_CBFAIL: -MDC=1-Chassis=2-Slot=4; Failed to apply classifier-behavior 1 in policy 1 to the inbound direction of interface Route-Aggregation1.920. Part of actions are not supported.
```

```
%Sep 13 22:25:52:467 2018 Bras_SR8804X_IRF QOS/4/QOS_POLICY_APPLYIF_CBFAIL: -MDC=1-Chassis=1-Slot=5; Failed to apply classifier-behavior 1 in policy 1 to the inbound direction of interface Route-Aggregation1.920. Part of actions are not supported.
```

```
%Sep 13 22:25:52:257 2018 Bras_SR8804X_IRF QOS/4/QOS_POLICY_APPLYIF_CBFAIL: -MDC=1-Chassis=2-Slot=3; Failed to apply classifier-behavior 1 in policy 1 to the inbound direction of interface Route-Aggregation1.920. Part of actions are not supported.
```

```
%Sep 13 22:25:52:191 2018 Bras_SR8804X_IRF QOS/4/QOS_POLICY_APPLYIF_CBFAIL: -MDC=1-Chassis=2-Slot=5; Failed to apply classifier-behavior 1 in policy 1 to the inbound direction of interface Route-Aggregation1.920. Part of actions are not supported.
```

设备带源地址ping公网口下一跳时，直接从本机cpu发出的icmp报文，不走nat出去所以没有nat会话，报文源地址是内网地址，对端没有路由所以不通。

解决方法

- 1、换其他接口板做qos引流。
- 2、使用SPC单板聚合的时候可以将qos policy下发在成员接口上，不能下发在聚合口下。