

知 某局点S12504G-AF配置DRNI Keepalive无法正常建立

ADDC方案 刘倩 2022-09-29 发表

组网及说明

组网不涉及

告警信息

不涉及

问题描述

现场方案组网开局，S12504G-AF（R7624P12）的DRNI配置后出现keepalive状态down，主设备上Keepalive报文debug只有发没有收。

=====display drni keepalive=====

Neighbor keepalive link status (cause): Down (Local Rx timeout)

Neighbor is alive for: N/A

Keepalive packet transmission status:

Sent: Successful

Received: Failed

Last received keepalive packet information:

Source IP address: N/A

Time: N/A

Action: N/A

过程分析

(1) 在O2设备上debug drni keepalive报文只有发没有收，但是流统结果显示Keepalive报文已经到交换机了。

```
<GZXY-805-BIZ-12504-2>*Jun  7 18:06:57:454 2022 GZXY-805-BIZ-12504-2 DRNI/7/ KplvPacket: -MDC=1; Keepalive packet with length 51 was sent.
```

```
19 00 19 00 00 33 00 00 01 00 04 0a 64 2f c7 c4
```

```
26 00 00 01 00 0a 08 18 43 e8 80 00 a0 69 d9 44
```

```
ca 00 02 00 ff ff ff 00 02 00 00 00 00 00 00 ff
```

```
0c 01 02
```

```
*Jun  7 18:06:58:454 2022 GZXY-805-BIZ-12504-2 DRNI/7/KplvPacket: -MDC=1; Keepalive packet with length 51 was sent.
```

```
*Jun  7 18:06:59:454 2022 GZXY-805-BIZ-12504-2 DRNI/7/KplvPacket: -MDC=1; Keepalive packet with length 51 was sent.
```

```
*Jun  7 18:07:00:454 2022 GZXY-805-BIZ-12504-2 DRNI/7/KplvPacket: -MDC=1; Keepalive packet with length 51 was sent.
```

```
*Jun  7 18:07:01:454 2022 GZXY-805-BIZ-12504-2 DRNI/7/KplvPacket: -MDC=1; Keepalive packet with length 51 was sent.
```

(2) 进一步排查看交换机上UDP端口6402,6403,6404在占用，当前设备版本Keepalive报文默认占用6400端口号，6400是属于可用端口号的第一个，但是当前版本并未将6400预留出给Keepalive报文使用。6402等当前被占用说明6400之前也被占用过，只是当前已释放，虽然释放了但是无法直接启用该端口号。

```
<GZXY-805-BIZ-12504-2>dis udp
```

Local Addr:port	Foreign Addr:port	Slot	Cpu	PCB
0.0.0.0:161	0.0.0.0:0	4	0	0xffffffffffa3
0.0.0.0:6402	0.0.0.0:0	4	0	0xffffffffffa2
0.0.0.0:6403	0.0.0.0:0	4	0	0xffffffffffa5
0.0.0.0:6404	0.0.0.0:0	4	0	0x000000000222141

```
Distributed relay keepalive parameters:
```

```
Destination IP address: 14.9.1.12
```

```
Source IP address: 14.9.1.13
```

```
Keepalive UDP port : 6400
```

```
Keepalive VPN name : auto-online-mlag
```

解决方法

1. 指定keepalive报文端口号，保持本地和对端端口号一致。

```
drni keepalive ip destination xxxx source xxxx udp-port xxx
```

