

# 知 华三S12508F-AF 对接华为设备bfd起不来

BFD 宣江明 2022-04-16 发表

## 组网及说明

华三华为设备直连

## 问题描述

两边配置好BFD之后无法正常up

## 过程分析

### 华为原始配置

```
ifd GYCI bind peer-ip 220.197.1.226 interface GigabitEthernet3/1/28 source-ip 220.197.1.225 auto
detect-multiplier 5
min-tx-interval 500
min-rx-interval 500
return
```

### 华三原始配置

```
Local Discr: 8006          Remote Discr: 131
Source IP: 2408:866A:401:202::14
Destination IP: 2408:866A:401:202::15
Session State: Up        Interface: N/A
[csw001&002.cn-guiyang-1-Ten-GigabitEthernet1/4/0/47]
[csw001&002.cn-guiyang-1-Ten-GigabitEthernet1/4/0/47]
[csw001&002.cn-guiyang-1-Ten-GigabitEthernet1/4/0/47]
[csw001&002.cn-guiyang-1-Ten-GigabitEthernet1/4/0/47]di th
#
interface Ten-GigabitEthernet1/4/0/47
port link-mode route
description TO-[NE5000E]-10GE1/1/1/18-gzgy-jygaW-64N3004IP
ip address 220.197.1.226 255.255.255.252
mirroring-group 1 mirroring-port both
ipv6 address 2408:866A:A00:F000::B/127
bfd min-transmit-interval 1000
bfd min-receive-interval 1000
#
return
```

debug BFD看两端的报文交互，看华为发的bfd报文已经超过2000ms了，两边的参数协商有问题。

```
*Apr 14 03:21:31:338 2022 csw001&002.cn-guiyang-1 BFD/7/DEBUG: -MDC=1-Chassis=1-Slot=4; [K]
]Recv from OAM:Ctrl packet, Src:220.197.1.225, Dst:220.197.1.226, Ver:1, Diag:0, Sta:1 P/F/C/A/D/
M:0/0/1/0/0/0, Mult:5 LD/RD:16400/0, Tx:2069ms, Rx:2069ms, E
```

```
*Apr 14 03:21:30:712 2022 csw001&002.cn-guiyang-1 BFD/7/DEBUG: -MDC=1; Send:Ctrl packet, Sr
c:220.197.1.226, Dst:220.197.1.225, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:800
8/0, Tx:1000ms, Rx:1000ms, EchoRx:0ms
```

```
*Apr 14 03:21:31:711 2022 csw001&002.cn-guiyang-1 BFD/7/DEBUG: -MDC=1; Send:Ctrl packet, Sr
c:220.197.1.226, Dst:220.197.1.225, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:800
8/0, Tx:1000ms, Rx:1000ms, EchoRx:0ms
```

```
*Apr 14 03:21:32:712 2022 csw001&002.cn-guiyang-1 BFD/7/DEBUG: -MDC=1; Send:Ctrl packet, Sr
c:220.197.1.226, Dst:220.197.1.225, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:800
8/0, Tx:1000ms, Rx:1000ms, EchoRx:0ms
```

```
*Apr 14 03:21:33:441 2022 csw001&002.cn-guiyang-1 BFD/7/DEBUG: -MDC=1-Chassis=1-Slot=4; [K]
]Recv:Ctrl packet, Src:220.197.1.225, Dst:220.197.1.226, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/
0, Mult:5 LD/RD:16400/0, Tx:2069ms, Rx:2069ms, EchoRx:0ms
```

## 解决方法

经确认现场两端的会话的直连属性不一样，华为的是直连的，我们的是非直连的，请现场修改配置，在静态路由绑定bfd的时候指定接口。可以参考如下配置：

华为CE68配置：

```
1 #
2 bfd dongcai-cm-01 bind peer-ip 10.225.4.202 vpn-instance CL-CM interface 10GE1/0/47.2031 source-ip 10.225.4
3   min-tx-interval 1000
4   min-rx-interval 1000
5 #
6 ip route-static vpn-instance CL-CM 117.184.x.x 255.255.255.192 10GE1/0/47.2031 10.225.4.202 track bfd-sessio
7 #
```

华三S68配置：

```
1 [H3C]dis cu int vlan 2031
2 #
3 interface Vlan-interface2031
4 ip binding vpn-instance YD3
5 ip address 10.225.4.202 255.255.255.252
6 bfd min-transmit-interval 1000
7 bfd min-receive-interval 1000
8 return
9 #
10 ip route-static vpn-instance YD3 0.0.0.0 0.0.0.0 Vlan-interface2031 10.225.4.201 bfd control-packet
11 #
```

