

# 知 H3C交换机和华为BFD控制报文方式对接会话起不来

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组网及说明

不涉及

## 问题描述

两边交换机通过光纤直连，静态路由结合BFD控制报文方式对接，bfd会话状态一直是down，无法UP。两端互联地址是1.25和1.26

华为配置：

```
interface xxx  
#  
bfd n xxx bind peer-ip xxx .1.25 source-ip xxx 1.26 auto  
#
```

华三配置：

```
ip route-static X.X.1.24 30 Vlan-interface3400 X.X.1.26 bfd control-packet
```

BFD会话状态是down

```
display bfd session  
Total Session Num: 2      Up Session Num: 0      Init Mode: Active  
IPv4 session working in control packet mode:  
LD/RD      SourceAddr      DestAddr      State      Holdtime      Interface  
4097/0      .1.25           .1.26         Down       /             Vlan3400
```

## 过程分析

debug收发也都有

```
Send:Ctrl packet, Src: [REDACTED], 1.25, Dst: [REDACTED], 1.26, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:4097/0, Tx:1000ms, Rx:1000ms, EchoRx:0ms
Create send timer[1000ms] success, LD:4097
[K]Recv from OAM:Ctrl packet, Src: [REDACTED], 1.26, Dst: [REDACTED], 1.25, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:3 LD/RD:16388/4097, Tx:14409ms, Rx:14409ms, EchoRx:0ms
[K]Recv:Ctrl packet, Src: [REDACTED], 1.26, Dst: [REDACTED], 1.25, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:3 LD/RD:16388/4097, Tx:14409ms, Rx:14409ms, EchoRx:0ms
```

## 解决方法

两端交换机BFD的会话属性不一样，华为是非直连的，我们的是直连的，需要两端修改成相同的模式之后会话可以正常

(静态路由后面跟的接口参数去掉即为非直连模式)

```
dis bfd session verbose  
Total Session Num: 2  Up Session Num: 0  Init Mode: Active
```

```
IPv4 session working in control packet mode:  
Local Discr: 4097      Remote Discr: 0  
Source IP: [REDACTED].1.25  Destination IP: [REDACTED].1.26  
Session State: Down   Interface: Vlan-interface3400  
Min Tx Inter: 400ms   Act Tx Inter: 1000ms  
Min Rx Inter: 400ms   Detect Inter: 5000ms  
Rx Count: 0           Tx Count: 4599  
Connect Type: Direct  Running Up for: 00:00:00  
Hold Time: 0ms       Auth mode: None  
Detect Mode: Async   Slot: 3  
Protocol: STATIC  
Version: 1  
Diag Info: No Diagnostic
```

直连模式



