

问题描述

客户这边生产环境有一台5130星型连接三台路由器，三台路由器和交换机都在area0里面，三台路由器宣告了等价路由，但是发现V7这边等价路由没有进表显示，如下，LSDB里面有等价信息，看到type、area、cost都是一样的，

```
<HDF_SERVER_69>disp ospf lsdb
OSPF Process 10 with Router ID 10.1.15.69
Link State Database
Area: 0.0.0.0
Type LinkState ID AdvRouter Age Len Sequence Metric
Router 10.1.103.2 10.1.103.2 169 36 80000041 0
Router 10.1.104.2 10.1.104.2 1141 36 80000015 0
Router 10.1.15.69 10.1.15.69 173 60 8000018D 0
Network 10.1.103.1 10.1.15.69 169 32 80000003 0
Network 10.1.104.1 10.1.15.69 1342 32 80000005 0
Sum-Net 10.1.110.101 10.1.103.2 697 28 80000003 10
Sum-Net 10.1.110.101 10.1.104.2 982 28 8000000A 10
Sum-Net 10.1.110.100 10.1.104.2 232 28 8000000B 10
Sum-Net 10.1.110.100 10.1.103.2 110 28 80000031 10
Sum-Net 10.1.110.102 10.1.103.2 1607 28 80000003 10
Sum-Net 10.1.110.102 10.1.104.2 1352 28 8000000A 10
```

```
<HDF_SERVER_69>disp ospf lsdb summary 10.1.110.101
OSPF Process 10 with Router ID 10.1.15.69
Link State Database
Area: 0.0.0.0
Type : Sum-Net
LS ID : 10.1.110.101
Adv Rtr : 10.1.103.2
LS age : 726
Len : 28
Options : E
Seq# : 80000003
Checksum : 0x46b7
Net mask : 255.255.255.255
MTID 0 Metric: 10

Type : Sum-Net
LS ID : 10.1.110.101
Adv Rtr : 10.1.104.2
LS age : 1011
Len : 28
Options : E
---- More ---- Seq# : 8000000a
Checksum : 0x31c4
Net mask : 255.255.255.255
MTID 0 Metric: 10
```

但是路由表却没有进，如下是全局路由表查看ospf路由表，客户测试表示断开当前显示的另外一条会生效显示。

```
<HDF_SERVER_69>disp ospf routing
OSPF Process 10 with Router ID 10.1.15.69
Routing Table
Topology base (MTID 0)
Routing for network
Destination Cost Type NextHop AdvRouter Area
10.1.103.0/24 1 Transit 0.0.0.0 10.1.15.69 0.0.0.0
10.1.104.0/24 1 Transit 0.0.0.0 10.1.15.69 0.0.0.0
10.1.105.0/24 1 Stub 0.0.0.0 10.1.15.69 0.0.0.0
10.1.110.100/32 11 Inter 10.1.103.2 10.1.103.2 0.0.0.0
10.1.110.101/32 11 Inter 10.1.104.2 10.1.104.2 0.0.0.0
10.1.110.102/32 11 Inter 10.1.104.2 10.1.104.2 0.0.0.0
```

```

Destinations : 33      Routes : 33
Destination/Mask    Proto  Pre Cost    NextHop          Interface
0.0.0.0/0           Static 60 0           10.1.15.1        Vlan15
0.0.0.0/32          Direct 0 0           127.0.0.1        InLoop0
1.1.1.1/32          Direct 0 0           127.0.0.1        InLoop0
10.1.15.0/24        Direct 0 0           10.1.15.69       Vlan15
10.1.15.0/32        Direct 0 0           10.1.15.69       Vlan15
10.1.15.69/32       Direct 0 0           127.0.0.1        InLoop0
10.1.15.255/32      Direct 0 0           10.1.15.69       Vlan15
10.1.103.0/24       Direct 0 0           10.1.103.1       Vlan1103
10.1.103.0/32       Direct 0 0           10.1.103.1       Vlan1103
10.1.103.1/32       Direct 0 0           127.0.0.1        InLoop0
10.1.103.255/32     Direct 0 0           10.1.103.1       Vlan1103
10.1.104.0/24       Direct 0 0           10.1.104.1       Vlan1104
10.1.104.0/32       Direct 0 0           10.1.104.1       Vlan1104
10.1.104.1/32       Direct 0 0           127.0.0.1        InLoop0
10.1.104.255/32     Direct 0 0           10.1.104.1       Vlan1104
10.1.105.0/24       Direct 0 0           10.1.105.1       Vlan1105
10.1.105.0/32       Direct 0 0           10.1.105.1       Vlan1105
10.1.105.1/32       Direct 0 0           127.0.0.1        InLoop0
10.1.105.255/32     Direct 0 0           10.1.105.1       Vlan1105
---- More ----
10.1.106.0/24       Direct 0 0           10.1.106.1       Vlan1106
10.1.106.0/32       Direct 0 0           10.1.106.1       Vlan1106
10.1.106.1/32       Direct 0 0           127.0.0.1        InLoop0
10.1.106.255/32     Direct 0 0           10.1.106.1       Vlan1106
10.1.110.100/32     O_INTER 10 11          10.1.103.2       Vlan1103
10.1.110.101/32     O_INTER 10 11          10.1.104.2       Vlan1104
10.1.110.102/32     O_INTER 10 11          10.1.104.2       Vlan1104
127.0.0.0/8         Direct 0 0           127.0.0.1        InLoop0
127.0.0.0/32        Direct 0 0           127.0.0.1        InLoop0
127.0.0.1/32        Direct 0 0           127.0.0.1        InLoop0
127.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
224.0.0.0/4         Direct 0 0           0.0.0.0          NULL0
224.0.0.0/24        Direct 0 0           0.0.0.0          NULL0
255.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0

```

解决方法

当前设备不支持ECMP，等价路由当做普通路由处理，只让一条路由进表。