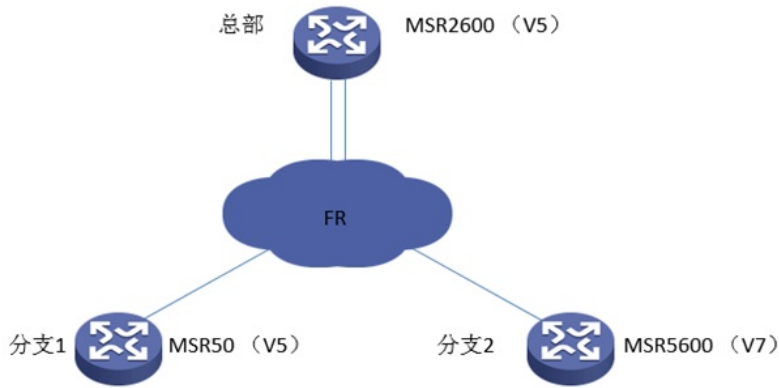


## 知 MSR路由器V7和MSR路由器V5通过帧中继网络无法建立OSPF邻居经验案例

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总部一台MSR2600 (V5版本) 通过帧中继网络分别和分支1的 MSR50(V5版本)、分支2的MSR56(V7版本)建立OSPF邻居, 相同配置的情况下MSR26和分支2的MSR56设备无法建立OSPF邻居, 但是和分支1的V5设备是能够建立的。



MSR26的配置:

```
ospf 1
area 0.0.0.248
network 10.10.251.112 0.0.0.7
area 0.0.1.44
network 10.10.251.120 0.0.0.7
```

```
interface Serial 1/2/2 //连接MSR56, 不能建立起来ospf邻居
fr dlcil 101
ip address 10.10.251.121 255.255.255.248
ospf network-type p2p
```

```
interface Serial 1/2/1 //连接MSR50, 可以建立起来ospf邻居
fr dlcil 100
ip address 10.10.251.113 255.255.255.248
ospf network-type p2p
```

MSR56的配置:

```
ospf 1
area 0.0.1.44
network 10.10.251.120 0.0.0.7
```

```
interface Serial 1/2/2
fr dlcil 101
ip address 10.10.251.124 255.255.255.248
ospf network-type p2p
```

V5产品: broadcast属性是在map下的, 对于动态创建的map, 天然就具备broadcast属性。

例如:

```
#
interface Serial5/0:0.1
fr dlcil 100
ip address 10.10.251.113 255.255.255.248
ospf network-type p2p
#
return
[3020-Serial5/0:0.1]
[3020-Serial5/0:0.1]dis fr map int s5/0:0.1
Map statistics for interface Serial5/0:0.1 (DCE, MP)
```

```
DLCI = 100, IP INARP 10.10.251.116, Serial5/0:0.1
create time = 2015/07/07 11:17:49, status = ACTIVE
encapsulation = ietf, vlink = 3, broadcast
```

对于V7设备，broadcast属性是在PVC下的，对于静态PVC（dce侧，配置fr dlcI），需要配置broadcast才具备广播属性，对于动态PVC（dte侧不用配置dlci，动态学习dce侧的pvc），天然具有广播属性。

例如：

DCE侧：

```
interface Serial1/2/2
link-protocol fr
fr interface-type dce
fr dlci 101
broadcast
ip address 10.10.251.121 255.255.255.248
ospf network-type p2p
#
return
[MSR5600-Serial1/2/2]dis fr pvc int s1/2/2
PVC information for interface Serial1/2/2/2 (DCE, physically
up)
  DLCI: 101  Type: Static  Interface: Serial1/2/2  //静态PVC，所以需要在fr dlci 101下配置broadcast
后，才能具备广播属性
  Encapsulation: IETF  Broadcast
  Creation time: 2015/07/07 10:57:23  Status: Active
  Input: 159 packets, 11392 bytes, 0 dropped
  Output: 138 packets, 9914 bytes, 0 dropped
[MSR5600-Serial1/2/2]
```

DTE侧：

```
interface Serial1/2/2
link-protocol fr
ip address 10.10.251.124 255.255.255.248
ospf network-type p2p
#
return
[HP-3044-Serial1/2/2]dis fr pvc int s1/2/2
PVC information for interface Serial1/2/2 (DTE, physically
up)
  DLCI: 101  Type: Dynamic  Interface: Serial1/2/2  //动态PVC，天然具备广播属性，不需要在fr dlci *
下配置broadcast
  Encapsulation: IETF  Broadcast
  Creation time: 2015/07/07 10:51:45  Status: Active
  Input: 138 packets, 9956 bytes, 0 dropped
  Output: 159 packets, 11392 bytes, 0 dropped
```

在V7设备配置Broadcast广播属性解决问题。