

排除故障“OSPF邻居下来：许多重新传输”错误消息

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简介

本文描述如何排除故障OSPF-5-ADJCHG : ...下来邻居：许多重新传输开放最短路径优先(OSPF)错误消息。

错误消息消息说明

OSPF邻接断开，并且此错误消息生成：

```
%OSPF-5-ADJCHG: Process 1, Nbr 10.1.1.1 on TenGigabitEthernet2/1  
from FULL to DOWN, Neighbor Down: Too many retransmissions
```

此错误消息意味着OSPF信息包的重新传输发生，直到OSPF达到25重新传输其限制。那时，OSPF邻接断开，并且错误消息生成。

故障排除命令

输入detail命令的show ip ospf neighbor为了检查OSPF重新传输。这是从detail命令的show ip ospf neighbor的一示例输出：

```
Router#show ip ospf neighbor gigabitEthernet 0/1 detail  
Neighbor 10.100.100.1, interface address 10.1.1.1  
In the area 0 via interface GigabitEthernet0/1  
Neighbor priority is 0, State is LOADING, 5 state changes  
DR is 0.0.0.0 BDR is 0.0.0.0  
Options is 0x12 in Hello (E-bit L-bit )  
Options is 0x52 in DBD (E-bit L-bit O-bit)  
LLS Options is 0x1 (LR)  
Dead timer due in 00:00:33  
Neighbor is up for 00:02:06  
Index 1/1, retransmission queue length 0, number of  
retransmission 0
```

```
First 0x0(0)/0x0(0) Next 0x0(0)/0x0(0)
Last retransmission scan length is 0, maximum is 0
Last retransmission scan time is 0 msec, maximum is 0 msec
Number of retransmissions for last link state request
packet 25
Poll due in 00:00:03
```

或者，您能输入**show ip ospf retransmission-list**命令为了检查OSPF重新传输。此命令显示包含所有Link State Advertisement (LSA)等待再发送的列表。这是从**show ip ospf retransmission-list**命令的一示例输出：

```
Router# show ip ospf retransmission-list serial 0

OSPF Router with ID (192.168.1.12) (Process ID 1)

Neighbor 192.168.1.11, interface Serial0 address 172.16.1.11
Link state retransmission due in 3764 msec, Queue length 2
Type LS ID ADV RTR Seq NO Age Checksum
1 192.168.1.12 192.168.1.12 0x80000210 0 0xB196
```

可能的原因

这是可能导致错误消息的生成的某些可能的原因(这不是完整列表)：

- 有在链路的包丢失，造成OSPF信息包丢弃。
- **ip ospf mtu-ignore**命令配置。参考[ip ospf mtu-ignore命令](#)Cisco文档欲知更多信息。
- 有与最大传输单元(MTU)和OSPF信息包的大小涉及的问题。参考[包装技术说明](#)Cisco文档欲知更多信息的[OSPF、MTU和LSA](#)。