

# 排除“OSPF邻居关闭：重新传输过多”错误消息

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## 简介

本文档介绍如何对OSPF-5-ADJCHG进行故障排除：...邻居关闭：重新传输的开放最短路径优先(OSPF)错误消息太多。

## 错误消息说明

OSPF邻接关系断开，并生成以下错误消息：

```
%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数据包的重新传输会一直持续到OSPF达到其25次重新传输的限制。此时，OSPF邻接关系会断开，并生成错误消息。

## 故障排除命令

输入show ip ospf neighbor detail命令以检查OSPF重新传输。以下是show ip ospf neighbor detail命令的输出示例：

```
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，您可以输入**show ip ospf retransmission-list**命令以检查OSPF重新传输。此命令显示包含等待再次发送的所有链路状态通告(LSA)的列表。以下是**show ip ospf retransmission-list**命令的输出示例：

```
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

以下是可能导致生成错误消息的一些可能原因（此列表不完整）：

- 链路上存在丢包现象，导致OSPF数据包被丢弃。
- 已配置**ip ospf mtu-ignore**命令。有关详细信息，[请参阅IP OSPF MTU-Ignore命令Cisco文档](#)。
- 存在与最大传输单位(MTU)和OSPF数据包大小相关的问题。有关详细信息，[请参阅OSPF、MTU和LSA打包技术说明Cisco文档](#)。