



Configuring OSPF Retransmissions Limit

- [Restrictions For OSPF Retransmissions Limit, on page 1](#)
- [Information About OSPF Retransmissions Limit, on page 1](#)
- [Overview About OSPF Retransmissions Limit, on page 1](#)
- [How to Configure OSPF Retransmissions Limit, on page 2](#)
- [Configuration Examples for OSPF Retransmissions Limit, on page 2](#)
- [Additional References for OSPF Retransmissions Limit, on page 3](#)
- [Feature History for OSPF Retransmissions Limit, on page 3](#)

Restrictions For OSPF Retransmissions Limit

The limit to the number of retransmissions does not apply for update packets on nonbroadcast multiaccess (NBMA) point-to-multipoint direct circuits. In this situation, the dead timer is used to end communication with non-responding neighbors and thus stop the retransmissions.

Information About OSPF Retransmissions Limit

Overview About OSPF Retransmissions Limit

There is a limit to the number of retransmissions of database exchange and update packets for both demand and non-demand circuits. The retransmission of these packets stops once this retry limit is reached, thus preventing unnecessary use of the link in continual retransmission of the packets if, for some reason, a neighbor is not responding during adjacency forming.

The limit for both demand circuit and non-demand circuit retransmissions is 24.

The limit-retransmissions command allows you to either remove (disable) the limit or change the maximum number of retransmissions to be a number from 1 to 255.

Benefits

The limit-retransmissions command provides for backward compatibility for previous or other releases of Cisco IOS or other routers that do not have this feature.

How to Configure OSPF Retransmissions Limit

Setting OSPF Retransmission Limits

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **router ospf *process-ID***
4. **limit retransmissions** {[**dc** {*max-number* | **disable**}] [**non-dc** {*max-number* | **disable**}]}
5. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Device>enable	Enables privileged EXEC mode. <ul style="list-style-type: none">• Enter your password if prompted.
Step 2	configure terminal Example: Device#configure terminal	Enters global configuration mode.
Step 3	router ospf <i>process-ID</i> Example: Device(config)#router ospf 18	Configures OSPF routing process and enters OSPF router configuration mode.
Step 4	limit retransmissions {[dc { <i>max-number</i> disable }] [non-dc { <i>max-number</i> disable }]} Example: Device(config-router)#limit retransmissions dc 5	Sets the limit in the number of retransmissions of database exchange and update packets for both demand and non-demand circuits.
Step 5	end Example: Device(config-router)#end	Exits address router configuration mode and returns to privileged EXEC mode.

Configuration Examples for OSPF Retransmissions Limit

Example: Configuring OSPF Retransmissions Limit

The following is an example of configuring OSPF retransmissions limit.

```
router ospf 18
limit retransmissions dc 5
```

Additional References for OSPF Retransmissions Limit

Related Documents

Related Topic	Document Title
Configuring OSPF	<i>IP Routing: OSPF Configuration Guide</i>
OSPF Commands	<i>IP Routing: OSPF Command Reference</i>

Feature History for OSPF Retransmissions Limit

This table provides release and related information for the features explained in this module.

These features are available in all the releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Gibraltar 16.11.1	OSPF Retransmissions Limit	The OSPF Retransmissions Limit feature adds a limit to the number of retransmissions of database exchange and update packets for both demand and non-demand circuits.

Use the Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>.

