

Configuring OSPF Retransmissions Limit

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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. 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. This feature module describes the change in how the Open Shortest Path First (OSPF) protocol handles retransmissions.

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	Enables privileged EXEC mode.	
	Example:	• Enter your password if prompted.	
	Device>enable		
Step 2	configure terminal	Enters global configuration mode.	
	Example:		
	Device#configure terminal		
Step 3	router ospf process-ID	Configures OSPF routing process and enters OSPF router	
	Example:	configuration mode.	
	Device(config) #router ospf 18		
Step 4	limit retransmissions{[dc {max-number disable}]	Sets the limit in the number of retransmissions of database	
	[non-dc {max-number disable}]}	exchange and update packets for both demand and non-demand circuits.	
	Example:		
	Device(config-router)#limit retransmissions dc 5		
Step 5	end	Exits address router configuration mode and returns to	
	Example:	privileged EXEC mode.	
	Device(config-router)#end		

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	IP Routing: OSPF Configuration Guide
OSPF Commands	IP Routing: OSPF Command Reference

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.

Feature History for OSPF Retransmissions Limit