

DHCPv6 Bulk-Lease Query

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The Dynamic Host Configuration Protocol for IPv6 (DHCPv6) bulk-lease query feature allows a client to request information about DHCPv6 bindings. This functionality adds new query types and allows the bulk transfer of DHCPv6 binding data through TCP.

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Information About DHCPv6 Bulk-Lease Query

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DHCPv6 Bulk-Lease Query

DHCPv6 supports bulk-lease query that allows a client to request information about DHCPv6 bindings. This functionality adds new query types and allows the bulk transfer of DHCPv6 binding data through TCP

Bulk-lease query is enabled by default if the DHCPv6 relay agent is enabled. Bulk-lease query is triggered at the relay agent startup to retrieve binding information lost because of a reload. If a DHCPv6 relay



destination is configured on an interface, bulk-lease query is performed by the IPv6 address of the interface on which DHCPv6 relay is enabled. Bulk-lease query is a separate process from the relay agent process.

How to Configure DHCPv6 Bulk-Lease Query

Configuring DHCPv6 Bulk-Lease Query Parameters, page 2

Configuring DHCPv6 Bulk-Lease Query Parameters

The DHCPv6 Bulk-Lease Query feature is enabled automatically when the DHCPv6 relay agent is enabled.

SUMMARY STEPS

- 1. enable
- 2. configure terminal
- **3.** ipv6 dhcp-relay bulk-lease {data-timeout seconds | retry number} [disable]
- 4. end

DETAILED STEPS

	Command or Action	Purpose	
Step 1	enable	Enables privileged EXEC mode.	
		Enter your password if prompted.	
	Example:		
	Router> enable		
Step 2	configure terminal	Enters global configuration mode.	
	Example:		
	Router# configure terminal		
Step 3	ipv6 dhcp-relay bulk-lease {data-timeout seconds retry number} [disable]	Configures bulk-lease query parameters.	
	Example:		
	Router(config)# ipv6 dhcp-relay bulk-lease data-timeout 60		
Step 4	end	Returns to privileged EXEC mode.	
	Example:		
	Router(config)# end		

Configuration Examples for DHCPv6 Bulk-Lease Query

• Example: Configuring DHCPv6 Bulk-Lease Query Parameters, page 3

Example: Configuring DHCPv6 Bulk-Lease Query Parameters

Router# show ipv6 dhcp relay binding Prefix: 2001:DB8::/64 (FastEthernet0/0) DUID: 0003000101020304053F IAID: N/A lifetime: 1187303 expiration: 00:52:00 UTC May 2 2010 Learnt via Bulk Lease Query Prefix: 2001:DB8:0:1::/64 (FastEthernet0/0) DUID: 00030001010203040540 IAID: N/A lifetime: 1187303 expiration: 00:52:00 UTC May 2 2010 Learnt via Bulk Lease Query Prefix: 2001:DB8:0:2::/64 (FastEthernet0/0) DUID: 00030001010203040541 TATD: N/A lifetime: 1187303 expiration: 00:52:00 UTC May 2 2010 Learnt via Bulk Lease Query Prefix: 2001:DB8:0:3::/64 (FastEthernet0/0) DUID: 00030001010203040542 IAID: N/A lifetime: 1187303 expiration: 00:52:00 UTC May 2 2010 Learnt via Bulk Lease Query Prefix: 2001:DB8:0:4::/64 (FastEthernet0/0) DUID: 00030001010203040543 IAID: N/A lifetime: 1187303 expiration: 00:52:00 UTC May 2 2010 Learnt via Bulk Lease Query

Additional References

Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	IPv6 Configuration Guide
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
IPv6 commands	Cisco IOS IPv6 Command Reference
Cisco IOS IPv6 features	Cisco IOS IPv6 Feature Mapping

Standards and RFCs

Standard/RFC	Title	
RFCs for IPv6	IPv6 RFCs	

MIBs

MIB	MIBs Link
	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:
	http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for DHCPv6 Bulk-Lease Query

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1 Feature Information for DHCPv6 Bulk-Lease Query

Feature Name	Releases	Feature Information
DHCPv6 Bulk-Lease Query	12.2(58)SE	Cisco IOS DHCPv6 relay agent supports bulk-lease query in accordance with RFC 5460.
	15.1(1)S	
		The following commands were introduced or modified: ipv6 dhcp-relay bulk-lease , show ipv6 dhcp relay binding .

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