



CHAPTER 9

Service Control Engine Integration - Configuration

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Introduction

This chapter describes how to configure the DHCP Lease Query Login Event Generator (LEG) on the Service Control Engine (SCE) and the Command Line Interface (CLI).

- [Configuring the DHCP Lease Query LEG on the SCE, page 9-1](#)
- [Information About the DHCP Lease Query LEG CLI, page 9-2](#)

Configuring the DHCP Lease Query LEG on the SCE

The DHCP Lease Query LEG on the SCE is configured using the CLI.

Information About the DHCP Lease Query LEG CLI

- [Configuration CLI, page 9-2](#)
- [show CLI, page 9-3](#)

Configuration CLI

Use the CLI to configure the general LEG settings of the DHCP Lease Query LEG.

To enable the LEG:

```
SCE(config)# subscriber LEG dhcp-lease-query
```

To disable the LEG:

```
SCE(config)# no subscriber LEG dhcp-lease-query
```

To set the IP addresses of the DHCP servers (one or two addresses):

```
SCE(config)# subscriber LEG dhcp-lease-query servers STRING STRING
```

To reset the DHCP servers:

```
SCE(config)# no subscriber LEG dhcp-lease-query servers
```

To set the **session_timeout** configuration variable (see also [Information About Configuring the DHCP Lease Query LEG, page 8-2](#)):

```
SCE(config)# subscriber LEG dhcp-lease-query session-timeout DECIMAL
```

To set the session_timeout variable to the default value:

```
SCE(config)# default subscriber LEG dhcp-lease-query session_timeout
```

The failover criteria configuration variable defines the number of consecutive request failures (timeouts) that triggers a fail-over. Because the queries are not answered when the server fails, these queries time out. The consecutive timed-out queries are counted and when they reach this threshold, the second server is set as the active server. The default value is 3.

To set the fail_over_criteria:

```
SCE(config)# subscriber LEG dhcp-lease-query failover-criteria DECIMAL
```

To set the fail_over_criteria variable to the default value:

```
SCE(config)# default subscriber LEG dhcp-lease-query failover-criteria
```

The format of the subscriber ID can be set to binary or string. Setting the subscriber ID to binary indicates a binary string converted to an ASCII hexadecimal string. Setting it to string indicates an ASCII string. Use the ip-fallback parameter to set the IP to be the subscriber ID if the DHCP option is not found in the packet.

To set the subscriber ID option:

```
SCE(config)# subscriber LEG dhcp-lease-query sub-id-option STRING binary|string
[ip-fallback]
```

For example:

- subscriber LEG dhcp-lease-query sub-id-option 82:2 binary

This example uses DHCP option 82:2 for the subscriber ID, and its type is binary. No fallback is performed if the option is not found.

- subscriber LEG dhcp-lease-query sub-id-option 43:1 string ip-fallback

This example uses DHCP option 32:1 for the subscriber ID, and its type is string. The IP is used as the subscriber ID if the DHCP option is not found.

To set the subscriber ID option to the default value:

```
SCE(config)# default subscriber LEG dhcp-lease-query sub-id-option
```

For policy association, the LEG uses exactly the same file described in the [Configuring Policy Association](#) section. Set and load the configuration file with the following CLI (you must specify the full path and the file name):

```
SCE(config)# subscriber LEG dhcp-lease-query package-association-file STRING
```

The default package association configuration does not assign package information. To set the configuration back to the default configuration file:

```
SCE(config)# default subscriber LEG dhcp-lease-query package-association-file
```

To set all parameters of the DHCP lease query LEG to the default settings, use the following CLI:

```
SCE(config)# default subscriber LEG dhcp-lease-query
```

show CLI

To view the general configuration of the LEG, enter the following command:

```
SCE# show subscriber LEG dhcp-lease-query
```

To view the statistics counters of the LEG:

```
SCE# show subscriber LEG dhcp-lease-query counters
```

To reset the statistics counters of the LEG:

```
SCE# clear subscriber LEG dhcp-lease-query counters
```

■ show CLI