DHCP Server Profile Configuration Mode Commands

The Dynamic Host Configuration Protocol (DHCP) Server Profile Configuration Mode is used to create and manage DHCP server profile parameters. DHCP server profiles are associated with APNs.

**Command Modes**

```
Exec > Global Configuration > Context Configuration > DHCP Server Profile Configuration
  configure > context context_name > dhcp-server-profile profile_name
```

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcp-server-profile)#
```

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

**Important**

- dhcpv6-server-preference, on page 1
- disable, on page 2
- enable, on page 3
- end, on page 4
- exit, on page 4
- process, on page 5

**dhcpv6-server-preference**

Specifies the waiting time for DHCPv6 client before response.

**Product**

- GGSN
- P-GW
- SAEGW

**Privilege**

Security Administrator, Administrator

**Command Modes**

```
Exec > Global Configuration > Context Configuration > DHCP Server Profile Configuration
```

DHCP Server Profile Configuration Mode Commands
configure > context context_name > dhcp-server-profile profile_name

Entering the above command sequence results in the following prompt:

[context_name]host_name(config-dhcp-server-profile) #

Syntax Description

dhcpv6-server-preference pref_value  
default dhcpv6-server-preference

default

Returns the command to its default setting of 0.

pref_value

Specifies the DHCP server preference value as an integer from 1 through 255. If a DHCP server responds with a preference value of 255, DHCPv6 client need not wait any longer.

Default: 0

Usage Guidelines

According to RFC-3315, DHCPv6 client should wait for a specified amount of time before considering responses to its queries from DHCPv6 servers. Use this command to specify the waiting time (DHCP server preference value) for DHCPv6 client before response.

Example

The following command sets the DHCP server preference value to 200:

dhcpv6-server-preference 200

disable

Disables the specified options on the DHCP server.

Product

GGSN
P-GW
SAEGW

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > DHCP Server Profile Configuration

configure > context context_name > dhcp-server-profile profile_name

Entering the above command sequence results in the following prompt:

[context_name]host_name(config-dhcp-server-profile) #

Syntax Description

disable { dhcpv6-server-reconf | dhcpv6-server-unicast | rapid-commit-dhcpv4 | rapid-commit-dhcpv6 }
**disable**

Disables support for reconfiguration messages from the DHCPv6 server.

**dhcpv6-server-unicast**

Disables server unicast option for DHCPv6 server.

**rapid-commit-dhcpv4**

Disables support of the rapid commit feature for DHCPv4 server functionality.

**rapid-commit-dhcpv6**

Disables support of the rapid commit feature for DHCPv6 server functionality.

**Usage Guidelines**

Use this command to disable options on the DHCP server.

**Example**

The following command disables support of the rapid commit feature for DHCPv6 server functionality:

```
disable rapid-commit-dhcpv6
```

**enable**

Enables the specified options on the DHCP server.

**Product**

- GGSN
- P-GW
- SAEGW

**Privilege**

- Security Administrator
- Administrator

**Command Modes**

```
Exec > Global Configuration > Context Configuration > DHCP Server Profile Configuration
```

```
configure > context context_name > dhcp-server-profile profile_name
```

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcp-server-profile)#
```

**Syntax Description**

```
enable { dhcpv6-server-reconf | dhcpv6-server-unicast | rapid-commit-dhcpv4
        | rapid-commit-dhcpv6 }
```

**dhcpv6-server-reconf**

Enables support for reconfiguration messages from the DHCPv6 server.

By default, this is disabled.
**dhcpv6-server-unicast**
Disables server unicast option for DHCPv6 server. 
By default, this is disabled.

**rapid-commit-dhcpv4**
Enables support of the rapid commit feature for DHCPv4 server functionality. 
By default, this is disabled.

**rapid-commit-dhcpv6**
Enables support of the rapid commit feature for DHCPv6 server functionality. 
By default, this is disabled; this is done to ensure that if there are multiple DHCPv6 servers in a network, with rapid-commit-option, they would all end up reserving resources for the UE.

**Usage Guidelines**
Use this command to enable options on the DHCP server.

**Example**
The following command enables support of the rapid commit feature for DHCPv6 server functionality:

```
enable rapid-commit-dhcpv6
```

**end**

Exits the current configuration mode and returns to the Exec mode.

**Product**
All

**Privilege**
Security Administrator, Administrator

**Syntax Description**
end

**Usage Guidelines**
Use this command to return to the Exec mode.

**exit**

Exits the current mode and returns to the parent configuration mode.

**Product**
All

**Privilege**
Security Administrator, Administrator

**Syntax Description**
exit

**Usage Guidelines**
Use this command to return to the parent configuration mode.
**process**

Configures what order the configuration options should be processed for a given client request.

**Product**
- GGSN
- P-GW
- SAEGW

**Privilege**
- Security Administrator, Administrator

**Command Modes**
- Exec > Global Configuration > Context Configuration > DHCP Server Profile Configuration
- configure > context context_name > dhcp-server-profile profile_name

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcp-server-profile)##
```

**Syntax Description**

```
process dhcp-option-from { AAA | LOCAL | PDN-DHCP } priority priority
default process dhcp-option-from
```

**default**

AAA (priority 1) is preferred over PDN-DHCP (priority 2) which is preferred over LOCAL (priority 3) configuration.

**dhcp-option-from { AAA | LOCAL | PDN-DHCP }**

For a given client request, configuration values can be obtained from the following:

- AAA
- LOCAL
- PDN-DHCP

**priority priority**

Specifies the priority for dhcp-option-from options.

*priority* is an integer from 1 through 3. 1 is the highest priority.

**Usage Guidelines**

Use this command to configure what order the configuration options should be processed for a given client request.

**Example**

The following command sets configuration options from a PDN DHCP server at the highest priority of 1 for a given client request:

```
process dhcp-option-from PDN-DHCP priority 1
```