



# 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)#
```



## Important

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

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## dhcpv6-server-preference

Specifies the waiting time for DHCPv6 client before response.

## Product

GGSN

P-GW

SAEGW

## Privilege

Security Administrator, Administrator

## Command Modes

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```
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) #
```

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### 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

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### 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.

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### Product

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### Privilege

Security Administrator, Administrator

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### 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 }
```

**dhcpv6-server-reconf**

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.

**end****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.

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## Product

GGSN  
P-GW  
SAEGW

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## Privilege

Security Administrator, Administrator

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## 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.

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## 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
```

process