



# DHCP Client Profile Configuration Mode Commands

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

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## Command Modes

Exec > Global Configuration > Context Configuration > DHCP Client Profile Configuration

**configure** > **context** *context\_name* > **dhcp-client-profile** *profile\_name*

Entering the above command sequence results in the following prompt:

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



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## Important

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

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## client-identifier

Configures the client-identifier which is sent to the external DHCP server.

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### Product

GGSN

P-GW

SAEGW

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### Privilege

Security Administrator, Administrator

**Command Modes** Exec > Global Configuration > Context Configuration > DHCP Client Profile Configuration

**configure > context** *context\_name* > **dhcp-client-profile** *profile\_name*

Entering the above command sequence results in the following prompt:

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

**Syntax Description** **client-identifier** { **imsi** | **msisdn** }  
**default client-identifier**

#### **default**

Specifies that the subscriber's IMSI be included in the client-identifier option of relevant DHCP messages.

#### **imsi**

Specifies that the subscriber's IMSI be included in the client-identifier option of relevant DHCP messages.



**Important** The **imsi** option is not supported in this release.

#### **msisdn**

Specifies that the subscriber's MSISDN be included in the client-identifier option of relevant DHCP messages.

**Usage Guidelines** Use this command to configure which information is included in the DHCP client-identifier option of DHCP messages to external DHCP servers.

#### **Example**

The following command specifies that a subscriber's MSISDN be included in the DHCP client-identifier option of DHCP messages to external DHCP servers:

```
client-identifier msisdn
```

## dhcpv6-client-unicast

Configures the client unicast address which is sent to the external DHCP server.

**Product** GGSN  
P-GW  
SAEGW

**Privilege** Security Administrator, Administrator

**Command Modes** Exec > Global Configuration > Context Configuration > DHCP Client Profile Configuration

**configure > context** *context\_name* > **dhcp-client-profile** *profile\_name*

Entering the above command sequence results in the following prompt:

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

**Syntax Description**

**dhcpv6-client-unicast**

**dhcpv6-client-unicast**

Enables client to send messages on unicast address towards the server.

**Usage Guidelines**

Use this command to send messages on unicast address towards the server.

**Example**

The following command specifies that messages are sent on unicast address to external DHCP servers:

**dhcpv6-client-unicast**

# disable

Disables the specified options on the DHCP client.

**Product**

GGSN  
P-GW  
SAEGW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > Global Configuration > Context Configuration > DHCP Client Profile Configuration

**configure** > **context** *context\_name* > **dhcp-client-profile** *profile\_name*

Entering the above command sequence results in the following prompt:

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

**Syntax Description**

**disable** { **dhcp-message-spray** | **rapid-commit-dhcpv4** | **rapid-commit-dhcpv6**  
| **user-class-option** }

**dhcp-message-spray**

Disables DHCP client from spraying a DHCP message to all configured DHCP servers in the PDN.

**rapid-commit-dhcpv4**

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

**rapid-commit-dhcpv6**

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

enable

**user-class-option**

Disables sending the "User\_Class\_Option" in the DHCPv6 messages from P-GW/GGSN to the external DHCPv6 server during DHCPv6 Prefix Delegation Setup.

**Usage Guidelines**

Use this command to disable options on the DHCP client.

**Example**

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

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

# enable

Enables the specified options on the DHCP client.

**Product**

GGSN  
P-GW  
SAEGW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > Global Configuration > Context Configuration > DHCP Client Profile Configuration

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

Entering the above command sequence results in the following prompt:

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

**Syntax Description**

```
enable { dhcp-message-spray | rapid-commit-dhcpv4 | rapid-commit-dhcpv6  
| user-class-option { imsi | msisdn } }
```

**dhcp-message-spray**

Enables DHCP client to spray a DHCP message to all configured DHCP servers in the PDN.

By default, this is disabled. With rapid commit, there can only be one server to which this can be sent.

**rapid-commit-dhcpv4**

Enables support of the rapid commit feature for DHCPv4 client functionality.

By default, this is enabled.

**rapid-commit-dhcpv6**

Enables support of the rapid commit feature for DHCPv6 client functionality.

By default, this is enabled.

**user-class-option { imsi | msisdn }**

Enables P-GW/GGSN to send USER\_CLASS\_OPTION in DHCPv6 messages to external DHCPv6 server during Prefix Delegation Setup.

**imsi**: Triggers sending the "User\_Class\_Option" with UE's IMSI in the DHCPv6 Request message from P-GW to the external DHCPv6 server during DHCPv6 Prefix Setup (for network behind UE).

**msisdn**: Triggers sending the "User\_Class\_Option" with UE's MSISDN in the DHCPv6 Request message from P-GW to the external DHCPv6 server during DHCPv6 Prefix Setup (for network behind UE).

By default, this is enabled.

**Usage Guidelines**

Use this command to enable options on the DHCP client.

**Example**

The following command enables support of the rapid commit feature for DHCPv6 client 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.

# request

Configures DHCP options which can be requested by the DHCP client.

<b>Product</b>	GGSN P-GW SAEGW
<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > Context Configuration > DHCP Client Profile Configuration <b>configure &gt; context <i>context_name</i> &gt; dhcp-client-profile <i>profile_name</i></b> Entering the above command sequence results in the following prompt: <code>[<i>context_name</i>]host_name(config-dhcp-client-profile)#</code>
<b>Syntax Description</b>	<b>[ default ] request dhcp-option { dns-address   netbios-server-address   sip-server-address }</b> <b>no { dns-address   netbios-server-address   sip-server-address }</b>  <b>default</b> Returns the command to its default setting.  <b>no</b> Disables a DHCP option requested by the DHCP client.  <b>dhcp-option { dns-address   netbios-server-address   sip-server-address }</b> The following DHCP options can be requested by the DHCP client: <ul style="list-style-type: none"> <li>• <b>dns-address</b>: request for DNS address</li> <li>• <b>netbios-server-address</b>: request for NetBIOS server address</li> <li>• <b>sip-server-address</b>: request for SIP server address</li> </ul>
<b>Usage Guidelines</b>	Use this command to enable/disable options which can be requested by the DHCP client.  <b>Example</b> The following command enables the DHCP client to request DNS address: <b>request dhcp-option dns-address</b>