



DHCPv6 Server Configuration Mode Commands

The Dynamic Host Configuration Protocol (DHCP) for Internet Protocol Version 6 (IPv6) Server Configuration Mode is used to create and manage DHCPv6 server parameters to support DHCPv6-based address assignment.

Command Modes Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration

configure > **context** *context_name* > **dhcpv6-service** *service_name* > **dhcpv6-server**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcpv6-server) #
```



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

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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.

ipv6

Configures M/O flag for neighbor discovery protocol.

Product	GGSN P-GW SAEGW
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration configure > context <i>context_name</i> > dhcpv6-service <i>service_name</i> > dhcpv6-server Entering the above command sequence results in the following prompt: [<i>context_name</i>] <i>host_name</i> (config-dhcpv6-server)#
Syntax Description	ipv6 nd { managed-config-flag other-config-flag } nd { managed-config-flag other-config-flag } Configure M/O flag for neighbor discovery protocol. managed-config-flag : Configure M flag. other-config-flag : Configure O flag.
Usage Guidelines	Use this command to specify the M/O flag for neighbor discovery protocol.

Example

The following command configures the M flag for neighbor discovery protocol:

```
ipv6 nd managed-config-flag
```

preferred-lifetime

Configures the preferred lifetime for prefixes assigned by the DHCPv6 service.

Product

GGSN
P-GW
SAEGW

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration

configure > context *context_name* > **dhcpv6-service** *service_name* > **dhcpv6-server**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcpv6-server) #
```

Syntax Description

preferred-lifetime *pref_lifetime*
default preferred-lifetime

default

Returns the command to its default setting of 900.

pref_lifetime

Specifies the preferred lifetime (in seconds) for prefixes assigned by the DHCPv6 service.

pref_lifetime must be an integer value from 1 through 1932100.

Default: 900

Usage Guidelines

Use this command to specify the preferred lifetime for prefixes assigned by the DHCPv6 service.

Example

The following command configures the preferred lifetime for *1001* seconds:

```
preferred-lifetime 1001
```

prefix-delegation

Configures the lifetime parameters that can be used by a particular DHCPv6 service to allocate delegated prefixes.

Product

GGSN

Privilege

Security Administrator, Administrator

Command Modes	Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration configure > context <i>context_name</i> > dhcpv6-service <i>service_name</i> > dhcpv6-server Entering the above command sequence results in the following prompt: <pre>[context_name]host_name(config-dhcpv6-server)#</pre>
Syntax Description	prefix-delegation valid-lifetime <i>valid_lifetime</i> preferred-lifetime <i>pref_lifetime</i> valid-lifetime <i>valid_lifetime</i> Specifies the valid lifetime (in seconds) for prefixes for which the delegated prefix is valid. After this is exhausted, delegated prefix is deemed invalid. <i>pref_lifetime</i> must be an integer value from 1 through 1932100. Default: 900 preferred-lifetime <i>pref_lifetime</i> Specifies the preferred lifetime (in seconds) for which new connections can be established by these delegated prefixes. Once it is exhausted, no new connections can be made. <i>pref_lifetime</i> must be an integer value from 1 through 1932100. Default: 900
Usage Guidelines	Use this command to specify the valid and preferred lifetime for prefixes assigned by the DHCPv6 service for prefix delegation. Example The following command configures the valid lifetime to <i>1500</i> seconds and preferred lifetime to <i>1200</i> seconds for prefix delegation: <pre>prefix-delegation valid-lifetime 1500 preferred-lifetime 1200</pre>

rebind-time

Configures the rebind time for prefixes assigned by the DHCPv6 service.

Product	GGSN P-GW SAEGW
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration configure > context <i>context_name</i> > dhcpv6-service <i>service_name</i> > dhcpv6-server

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcpv6-server)#
```

Syntax Description

rebind-time *rebind_time*
default **rebind-time**

default

Returns the command to its default setting of 900.

rebind_time

Specifies the rebind time (in seconds) for prefixes assigned by the DHCPv6 service.

rebind_time must be an integer value from 1 through 1932100.

Default: 900

Usage Guidelines

Use this command to specify the rebind time for prefixes assigned by the DHCPv6 service.

Example

The following command configures the rebind time for *1001* seconds:

```
rebind-time 1001
```

renew-time

Configures the renewal time for prefixes assigned by the DHCPv6 service.

Product

GGSN
P-GW
SAEGW

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration

configure > **context** *context_name* > **dhcpv6-service** *service_name* > **dhcpv6-server**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcpv6-server)#
```

Syntax Description

renew-time *renewal_time*
default **renew-time**

default

Returns the command to its default setting of 900.

renewal_time

Specifies the renewal time (in seconds) for prefixes assigned by the DHCPv6 service.

renewal_time must be an integer value from 1 through 1932100.

Default: 900

Usage Guidelines

Use this command to specify the renewal time for prefixes assigned by the DHCPv6 service.

Example

The following command configures the renewal time for *1001* seconds:

```
renew-time 1001
```

valid-lifetime

Configures the valid lifetime for prefixes assigned by the DHCPv6 service.

Product

GGSN

P-GW

SAEGW

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Context Configuration > DHCPv6 Service Configuration > DHCPv6 Server Configuration

configure > context *context_name* > dhcpv6-service *service_name* > dhcpv6-server

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(config-dhcpv6-server) #
```

Syntax Description

valid-lifetime *valid_lifetime*

default valid-lifetime

default

Returns the command to its default setting of 900.

valid_lifetime

Specifies the valid lifetime (in seconds) for prefixes assigned by the DHCPv6 service.

valid_lifetime must be an integer value from 1 through 1932100.

Default: 900

Usage Guidelines

Use this command to specify the valid lifetime for prefixes assigned by the DHCPv6 service.

Example

The following command configures the valid lifetime for *1001* seconds:

```
valid-lifetime 1001
```

valid-lifetime