

MIPv6 HA Service Configuration Mode Commands

The MIPv6 HA Service Configuration Mode is used to create and manage Mobile IPv6 (MIPv6) access privileges.

Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration **Command Modes configure** > **context** *context_name* > **mipv6ha-service** *service_name* Entering the above command sequence results in the following prompt: [context name]host name(config-mipv6ha-service)# C) Important The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s). C) Important For information on common commands available in this configuration mode, refer to the Common Commands chapter. • aaa accounting, on page 1 • bind, on page 2 • default, on page 4 • refresh-advice-option, on page 5 • refresh-interval-percent, on page 5 • reg-lifetime, on page 6 • sequence-number-validate, on page 7 • setup-timeout, on page 7 • simul-bindings, on page 8 • timestamp-replay-protection tolerance, on page 9

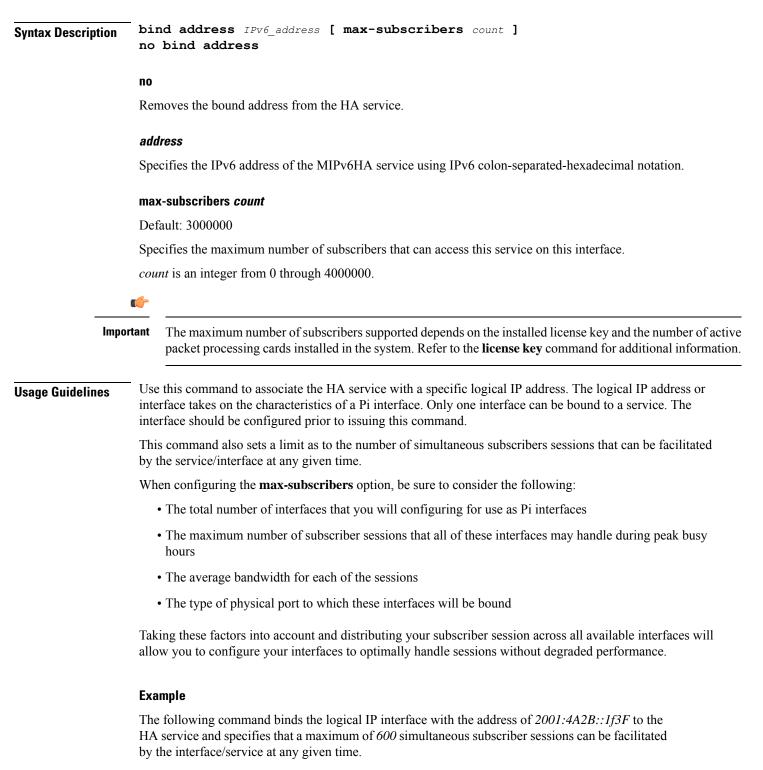
aaa accounting

Configures the sending of subscriber session AAA accounting by the Home Agent (HA) service.

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	[no] aaa accounting
	no
	Disables AAA accounting for the HA service.
Usage Guidelines	Enabling the HA service will send all accounting data (start, stop, and interim) to the configured AAA servers. The default is AAA accounting enabled.
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Impo	In order for this command to function properly, AAA accounting must be enabled for the context in which the HA service is configured using the aaa accounting subscriber radius command.
	AAA accounting for the HA service can be disabled using the no version of the command.
	Example
	The following command disables AAA accounting for the HA service:
	no aaa accounting
bind	
	Designates the address of the MIPv6HA service and specifies the maximum number of subscribers that can access this service over the interface.
Product	PDSN
	НА
<u></u>	Security Administrator, Administrator
Privilege	Security Administrator, Administrator
Command Modes	 Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration

Entering the above command sequence results in the following prompt:

[context_name]host_name(config-mipv6ha-service)#



bind address 2001:4A2B::1f3F max-subscribers 600

The following command disables a binding that was previously configured:

no bind address

default

	Restore default values assigned for specified parameter.
Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	<pre>default { aaa refresh-advice-option refresh-interval-percent reg-lifetime sequence-number-validate setup-timeout simul-bindings subscriber timestamp-replay-protection }</pre>
	aaa
	Restores the AAA setting configured by the aaa command to its default of enabled.
	refresh-advice-option
	Restores the refresh-advice-option setting to its default of disabled.
	refresh-interval-percent
	Restores the refresh-interval-percent setting to its default of 75.
	reg-lifetime
	Restores the Mobile IP session registration lifetime setting configured by the reg-lifetime command to its default: 600 seconds.
	sequence-number-validate
	Restores the sequence-number-validate setting to its default of enabled.
	setup-timeout
	Restore the maximum amount of time allowed for setting up a session to the default: 60 seconds.
	simul-bindings
	Restores the simultaneous bindings setting to its default: 1.
	subscriber
	Configures settings for the default subscriber.

	timestamp-replay-protection
	Restores the timestamp-replay-protection scheme according to RFC 4285.
Usage Guidelines	After the system has been modified from its default values, this command is used to set or restore specific parameters to their default values.
	Example
	The following command is used to return the simultaneous bindings setting parameter to it's default value:

default simul-bindings

refresh-advice-option

Configures inclusion of refresh advice option in the Binding Acknowledgement sent by the Home Agent (HA).

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	refresh-advice-option
Usage Guidelines	Includes the refresh advice option in the binding acknowledgements sent by the home agent. Default is disabled.

refresh-interval-percent

Configures the percentage of the granted lifetime to be used in the refresh interval mobility option in the Binding Acknowledgement sent by the Home Agent (HA).

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context context_name > mipv6ha-service service_name</pre>

	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	refresh-interval-percent value
	value
	value represents a percentage expressed as an integer from 1 through 99. Default is 75.
Usage Guidelines	Use this command to configure the amount of the granted lifetime to be used in the refresh interval mobility option in the Binding Acknowledgement sent by the Home Agent (HA).
	Example
	The following command sets the refresh-interval-percent value to 50%:

```
refresh-interval-percent 50
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reg-lifetime

Specifies the longest registration lifetime that the HA service will be allowed in any Registration Request message from the mobile node.

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	reg-lifetime time no reg-lifetime
	no
	Sets the registration lifetime to infinite.
	time
	Specifies the registration lifetime in seconds. <i>time</i> is an integer from 1 through 262140. Default is 600.
Usage Guidelines	Use to limit a mobile nodes' lifetime. If the mobile node requests a shorter lifetime than what is specified, it is granted. However, Per RFC 2002, should a mobile node request a lifetime that is longer than the maximum allowed by this parameter, the HA service will respond with the value configured by this command as part of the Registration Reply.

Example

The following command configures the registration lifetime for the HA service to be 2400 seconds:

reg-lifetime 2400

The following command configures an infinite registration lifetime for MIPv6 calls:

no reg-lifetime

sequence-number-validate

Configures sequence number validation of the received MIPV6 control packet by the Home Agent (HA) according to RFC 3775.

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	sequence-number-validate
Usage Guidelines	Use this command to enable sequence number validation of the received MIPV6 control packet by the Home Agent (HA) as per RFC 3775. Default is enabled.

setup-timeout

	The maximum amount of time allowed for session setup.
Product	PDSN
	HA
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	setup-timeout seconds

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	seconds
	Default: 60 seconds
	The maximum amount of time (in seconds) to allow for setup of a session expressed as an integer from 1 through 1000000. Default is 60 seconds.
Usage Guidelines	Use this command to set the maximum amount of time allowed for setting up a session.

Example

To set the maximum time allowed for setting up a session to 5 minutes (300 seconds), enter the following command:

setup-timeout 300

simul-bindings

Specifies the maximum number of "care-of" addresses that can be simultaneously bound for the same user as identified by NAI and Home address.

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	simul-bindings number
	number
	Configures maximum number of "care of" addresses that can be simultaneously bound for the same user as identified by their NAI and home address. <i>number</i> is an integer from 1 through 3. Default is 1.
Usage Guidelines	Per RFC 2002, the HA service creates a mobile binding record (MBR) for each subscriber session it is facilitating. Each MBR is associated with a care-of address. As the mobile node roams, it is possible that the session will be associated with a new care-of address.

Example

The following command configures the service to support up to 2 addresses per subscriber:

simul-bindings 2

timestamp-replay-protection tolerance

Designates timestamp replay protection scheme as per RFC 4285.

Product	PDSN
	HA
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > MIPv6HA Service Configuration
	<pre>configure > context_name > mipv6ha-service service_name</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-mipv6ha-service)#
Syntax Description	timestamp-replay-protection toleranceseconds
	tolerance seconds
	Defines the acceptable difference in timing (between timestamps) before rejecting packet, in seconds. <i>seconds</i> must be an integer from 0 through 65535. The default is 7.
Usage Guidelines	Use this command to define the acceptable difference in timing (between timestamps) before rejecting packet.

MIPv6 HA Service Configuration Mode Commands