

ISAKMP Configuration Mode Commands

Modification(s) to an existing ISAKMP policy configuration will not take effect until the related security association has been cleared. Refer to the clear crypto security-association command described in the Exec *Mode* (A–C) *Commands* chapter for more information. The ISAKMP Configuration Mode is used to configure Internet Security Association Key Management **Command Modes** Protocol (ISAKMP) policies that are used to define Internet Key Exchange (IKE) security associations (SAs). Exec > Global Configuration > Context Configuration > ISAKMP Configuration **configure** > **context** context name > **isakmp policy** policy number 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. • authentication, on page 1 • encryption, on page 2 • group, on page 3 • hash, on page 4 • lifetime, on page 5 authentication

Configures the ISAKMP policy authentication mode.

Product	PDSN
	НА
	GGSN
Privilege	Security Administrator, Administrator

Command Modes	Exec > Global Configuration > Context Configuration > ISAKMP Configuration
	<pre>configure > context context_name > isakmp policy policy_number</pre>
Syntax Description	authentication preshared-key [default no] authentication
	default authentication
	Restores the default setting of this parameter. This command is enabled by default.
	no authentication
	Disables the preshared key authentication mode.
	preshared-key
	Specifies that the policy will be authenticated through the use of the pre-shared key.
Usage Guidelines	When the system is configured to use ISAKMP-type crypto maps for establishing IPSec tunnels, this command is used to indicate that the policy will be authenticated through the use of the pre-shared key configured in the ISAKMP crypto map.
	Example
	The following command sets policy authentication mode to use a pre-shared key:
	authentication preshared-key

encryption

Configures the encryption protocol to use to protect subsequent IKE SA negotiations.

Product	PDSN
	НА
	GGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > ISAKMP Configuration
	<pre>configure > context context_name > isakmp policy policy_number</pre>
Syntax Description	encryption { 3des-cbc aes-cbc-128 aes-cbc-256 des-cbc } [default no] encryption
	default encryption

Restores the default setting of this parameter.

no encryption

Removes a previously configured encryption type.

3des-cbc

Specifies that the encryption protocol is Triple Data Encryption Standard (3DES) in chain block (CBC) mode.

aes-cbc-128

Specifies that the encryption protocol is Advanced Encryption Standard (AES) in CBC mode with a 128-bit key.

aes-cbc-256

Specifies that the encryption protocol is Advanced Encryption Standard (AES) in CBC mode with a 256-bit key.

des-cbc

Specifies that the encryption protocol is DES in CBC mode. This is the default setting.

Usage Guidelines Once the D-H exchange between the system and the security gateway has been successfully completed, subsequent IKE SA negotiations will be protected using the protocol specified by this command.

Example

The following command sets the IKE encryption method to 3des-cbc:

encryption 3des-cbc

group

	Configures the Oakely group (also known as the Diffie-Hellman [D-H] group) in which the D-H exchange occurs.
Product	PDSN
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Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > ISAKMP Configuration
	<pre>configure > context context_name > isakmp policy policy_number</pre>
Syntax Description	group { 1 2 5 } [default no] group

	default group
	Restores the default setting of this parameter.
	no group
	Removes a previously configured group.
	{1 2 5}
	Default: 1
	Specifies the number of the Oakley group. The following groups are allowed:
	 1: Enables Oakley Group 1 using a 768-bit modp as defined in RFC 2409. 2: Enables Oakley Group 2, using a 1024-bit modp as defined in RFC 2409.
	• 5: Enables Oakley Group 5, using a 1536-bit modp as defined in RFC 3526.
Usage Guidelines	Specifies the Oakley group that determine the length of the base prime numbers that are used during the key exchange process.
	Example
	The following command sets the group to 5 which specifies 1536-bit base prime numbers:
	group 5

hash

	Configures the IKE hash protocol to use during IKE SA negotiations.
Product	PDSN
	НА
	GGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > ISAKMP Configuration
	<pre>configure > context context_name > isakmp policy policy_number</pre>
Syntax Description	hash { md5 sha1 } [default no] hash
	default
	Restores the default setting of this parameter.

no

Removes a previously configured hash algorithm.

hash md5

	md5 Specifies that the hash protocol is Message Digest 5 truncated to 96 bits.
Usage Guidelines	 sha1 Specifies that the hash protocol is Secure Hash Algorithm-1 truncated to 96 bits. This is the default setting for this command. Use this command to configure the hash algorithm used during key negotiation.
	Example Set the hash algorithm to Message-Digest 5 by entering the following command:

lifetime

	Configures the lifetime of the IKE Security Association (SA).
Product	- PDSN
	НА
	GGSN
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > ISAKMP Configuration
	<pre>configure > context_name > isakmp policy policy_number</pre>
Syntax Description	lifetime seconds default lifetime
	default lifetime
	Restores the default setting of this parameter.
	seconds
	Default: 86400
	The number of seconds for the SA to live. seconds must be an integer from 60 to 86400.
Usage Guidelines	Use this command to set the time that an ISAKMP SA will be valid. The lifetime is negotiated with the peer and the lowest configured lifetime duration is used.
	Example
	The following command sets the SA lifetime to 100 seconds:

lifetime 100