

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.

Command Modes

The ISAKMP Configuration Mode is used to configure Internet Security Association Key Management 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

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

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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.

Once the D-H exchange between the system and the security gateway has been successfully completed, **Usage Guidelines** 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

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

Syntax Description	exit
Usage Guidelines	Use this command to return to the parent configuration mode.
group	
	Configures the Oakely group (also known as the Diffie-Hellman [D-H] group) in which the D-H exchange occurs.
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	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.
	- Specifies the Oakley group that determine the length of the base prime numbers that are used during the key

Security Administrator, Administrator

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

I

	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.
	md5
	Specifies that the hash protocol is Message Digest 5 truncated to 96 bits.
	sha1
	Specifies that the hash protocol is Secure Hash Algorithm-1 truncated to 96 bits. This is the default setting for this command.
Usage Guidelines	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:
	hash md5
lifetime	
	Configures the lifetime of the IKE Security Association (SA).
Product	PDSN
	НА

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	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	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