



# Crypto Template IKEv2-Vendor Configuration Mode Commands

The Crypto Template IKEv2-Vendor Configuration Mode is used to configure an IKEv2 IPsec policy for a vendor. It includes most of the IPsec parameters and IKEv2 dynamic parameters for cryptographic and authentication algorithms.

## Command Modes

Exec > Global Configuration > Context Configuration > Crypto Template IKEv2-Vendor Configuration

**configure > context *context\_name* > crypto template *template\_name* ikev2-vendor**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(cfg-crypto-tmpl-ikev2-vendor) #
```



## Important

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

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## configuration-payload

This command is used to configure mapping of the configuration payload attributes for a crypto vendor template.

## Product

All IPsec-related services

## Privilege

Security Administrator

## Command Modes

Exec > Global Configuration > Context Configuration > Crypto Template IKEv2-Vendor Configuration

**configure > context** *context\_name* > **crypto template** *template\_name* **ikev2-vendor**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(cfg-crypto-tmpl1-ikev2-vendor) #
```

---

### Syntax Description

```
configuration-payload private-attribute-type { imei integer | p-cscf-v4
v4_value | p-cscf-v6 v6_value }
remove configuration-payload private-attribute-type { imei | p-cscf-v4 |
p-cscf-v6 }
```

#### **remove**

Removes mapping of the configuration payload attributes.

#### **private-attribute-type**

Defines the private payload attribute.

#### **imei** *integer*

Defines an International Mobile Equipemnt Identity number. Default value is 16391.

*integer* must be an integer from 16384 to 32767.

#### **p-cscf-v4** *v4\_value*

Defines the IPv4 pcsf payload attribute value. Default value is 16384.

*v4\_value* is an integer from 16384 to 32767.

#### **p-cscf-v6** *v6\_value*

Defines IPv6 pcsf payload attribute value. Default value is 16390.

*v6\_value* is an integer from 16384 to 32767.

---

### Usage Guidelines

Use this command to configure mapping of the configuration payload attributes for a crypto vendor template.

#### **Example**

The following command configures the mapping of the configuration payload attributes p-cscf-v6 to 17001.

```
configuration-payload private-attribute-type p-cscf-v6 17001
```

## do show

Executes all **show** commands while in Configuration mode.

---

### Product

All

---

### Privilege

Security Administrator, Administrator

---

**Syntax Description**    **do show**

---

**Usage Guidelines**    Use this command to run all Exec mode **show** commands while in Configuration mode. It is not necessary to exit the Config mode to run a **show** command.

The pipe character | is only available if the command is valid in the Exec mode.



**Caution**

There are some Exec mode **show** commands which are too resource intensive to run from Config mode. These include: **do show support collection**, **do show support details**, **do show support record** and **do show support summary**. If there is a restriction on a specific **show** command, the following error message is displayed:

```
Failure: Cannot execute 'do show support' command from Config mode.
```

---

## 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.

## ikev2-ikesa

Configures parameters for the IKEv2 IKE Security Associations within this vendor template.

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**Product**    All IPsec-related services

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**Privilege**    Security Administrator

**Command Modes**

Exec > Global Configuration > Context Configuration > Crypto Template IKEv2-Vendor Configuration  
**configure > context** *context\_name* > **crypto template** *template\_name* **ikev2-vendor**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(cfg-crypto-tmpl1-ikev2-vendor)#
```

**Syntax Description**

```
ikev2-ikesa { fragmentation | ignore-rekeying-requests | mobike [ cookie-challenge ] | rekey [ disallow-param-change ] | transform-set list name1 [ name2 [ name3 [ name4 [ name5 [ name6 ] ] ] ] ] }  

remove ikev2-ikesa { fragmentation | ignore-rekeying-requests | mobike | rekey | transform-set list }
```

**remove**

Disables a previously enabled ikev2-ikesa configuration.

**fragmentation**

Enables IKESA fragmentation (Tx) and re-assembly (Rx).

Default: IKESA fragmentation and re-assembly is allowed.

**ignore-rekeying-requests**

Ignores received IKE\_SA Rekeying Requests.

**mobike [ cookie-challenge ]**

IKEv2 Mobility and Multihoming Protocol (MOBIKE) allows the IP addresses associated with IKEv2 and tunnel mode IPsec Security Associations to change. A mobile Virtual Private Network (VPN) client could use MOBIKE to keep the connection with the VPN gateway active while moving from one address to another. Similarly, a multi-homed host could use MOBIKE to move the traffic to a different interface if, for instance, the one currently being used stops working. Default: Disabled

**cookie-challenge:** Use this keyword to enable the return routability check. The Gateway performs a return routability check when MOBIKE is enabled along with this keyword. A return routability check ensures that the other party can receive packets at the claimed address. Default: Disabled

**rekey [ disallow-param-change ]**

Specifies if IKESA rekeying should occur before the configured lifetime expires (at approximately 90% of the lifetime interval). Default is not to re-key.

The **disallow-param-change** option prevents changes in negotiation parameters during rekey.

**transform-set list**

Specifies the name of a context-level configured IKEv2 IKE Security Association transform set.

*name1* through *name6* must be an existing IKEv2 IKESA Transform Set expressed as an alphanumeric string of 1 through 127 characters.

The transform set is a space-separated list of IKEv2-IKESA SA transform sets to be used for deriving IKEv2 IKE Security Associations from this crypto template. A minimum of one transform-set is required; maximum configurable is six.

**Usage Guidelines**

Use this command to configure parameters for the IKEv2 IKE Security Associations within this vendor template.

**Example**

The following command enables IKESA fragmentation and re-assembly:

```
ikev2-ikesa fragmentation
```

The following command configures the IKEv2 IKESA list, consisting of transform sets named *ikesa43* and *ikesa326*:

```
ikev2-ikesa transform-set list ikesa43 ikesa326
```

# keepalive

Configures keepalive or dead peer detection for security associations used within this vendor template.

**Product**

All products supporting IPsec

**Privilege**

Security Administrator

**Command Modes**

Exec > Global Configuration > Context Configuration > Crypto Template IKEv2-Vendor Configuration

```
configure > context context_name > crypto template template_name ikev2-vendor
```

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(cfg-crypto-tmp1-ikev2-vendor) #
```

**Syntax Description**

```
keepalive [ interval seconds [ timeout timeout_seconds [ num-retry retry_seconds ] ] ]
```

```
{ no | remove } keepalive
```

**no**

Disables keepalive messaging.

**remove**

Removes previously configured keepalive messaging.

**interval sec**

Specifies the duration (in seconds) after which the next keepalive request is sent.

*sec* must be an integer from 10 through 3600.

Default: 3600 seconds

**timeout timeout\_seconds**

Specifies the duration (in seconds) after which keepalive times out.

*timeout\_seconds* must be an integer from 10 through 3600. Default: 10

**num-retry *retry\_seconds***

Specifies the total number of times to resend the keepalive request after timing out.

*retry\_seconds* must be an integer from 1 through 100. Default: 2

**Usage Guidelines**

Use this command to set parameters associated with determining the availability of peer servers.

**Example**

The following command sets a keepalive interval to three minutes (**180** seconds) with a timeout value of 1 minute (**60** seconds):

```
keepalive interval 180 timeout 60
```

## payload

Creates a new, or specifies an existing, crypto template vendor payload, and enters the Crypto Template IKEv2 Vendor Payload Configuration Mode.

**Product**

All Security Gateway products

**Privilege**

Security Administrator

**Command Modes**

Exec > Global Configuration > Context Configuration > Crypto Template IKEv2-Vendor Configuration

**configure > context *context\_name* > crypto template *template\_name* ikev2-vendor**

Entering the above command sequence results in the following prompt:

```
[context_name]host_name(cfg-crypto-tmpl1-ikev2-vendor)#
```

**Syntax Description**

[ **remove** ] **payload** *payload\_name*

**no**

Removes a previously configured crypto template IKEv2 vendor payload.

**vendor\_payload**

*vendor\_payload* must be an alphanumeric string of 1 through 127 characters.

**Usage Guidelines**

Use this command to create a new or enter an existing crypto template IKEv2 vendor payload. The payload mechanism is a means of associating parameters for the Security Association (SA) being negotiated.

Crypto Template IKEv2 Vendor Payload Configuration Mode commands are defined in the *Crypto Template IKEv2-Vendor Payload Configuration Mode Commands* chapter.

**Example**

The following command configures a crypto template IKEv2 vendor payload called *payload5* and enters the Crypto Template IKEv2 Vendor Payload Configuration Mode:

```
payload payload5
```

payload