

eigrp log-neighbor-changes through export webvpn webcontent Commands

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eigrp log-neighbor-changes

To enable the logging of EIGRP neighbor adjacency changes, use the **eigrp log-neighbor-changes** command in router configuration mode. To turn off this function, use the **no** form of this command.

eigrp log-neighbor-changes

no eigrp log-neighbor-changes

Syntax Description	This command has no arguments or keywords.
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Defaults This command is enabled by de	fault.
---	--------

Command Modes The following table shows the modes in which you can enter the command:

	Firewall M	ode	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Router configuration	•		•	•	_

Command History	Release	Modification
	8.0(2)	This command was introduced.
	9.0(1)	Multiple context mode is supported.

Usage Guidelines The **eigrp log-neighbor-changes** command is enabled by default; only the **no** form of the command appears in the running configuration.

Examples The following example disables the logging of EIGRP neighbor changes:

hostname(config)# router eigrp 100
hostname(config-router)# no eigrp log-neighbor-changes

Related Commands	Command	Description
	eigrp log-neighbor-warnings	Enables logging of neighbor warning messages.
	0 0 0	
	router eigrp	Enters router configuration mode for the EIGRP routing process.
	show running-config	Displays the commands in the global router configuration.
	router	

eigrp log-neighbor-warnings

eigrp log-neighbor-warnings

Γ

To enable the logging of EIGRP neighbor warning messages, use the **eigrp log-neighbor-warnings** command in router configuration mode. To turn off this function, use the **no** form of this command.

eigrp log-neighbor-warnings [seconds]

no eigrp log-neighbor-warnings

Syntax Description	seconds	(Optional) The tim warning messages. not logged if they o	Valid values are	from 1 to 6	-	-				
Defaults	This command is enabled by default. All neighbor warning messages are logged.									
Command Modes	The following table show	vs the modes in whic	h you can enter	the comma	ind:					
		Firewall N	lode	Security (Context					
					Multiple					
	Command Mode	Routed	Transparent	Single	Context	System				
	Router configuration	•		•	•					
Command History	Release Modification									
	8.0(2) This command was introduced.									
	9.0(1)Multiple context mode is supported.									
Usage Guidelines	The eigrp log-neighbor - appears in the running co		is enabled by d	efault; only	the no form o	f the command				
Examples	The following example disables the logging of EIGRP neighbor warning messages:									
	hostname(config)# router eigrp 100 hostname(config-router)# no eigrp log-neighbor-warnings									
	The following example 1 5-minute (300 seconds) i		warning messa	ges and rep	eats the warnin	ng messages in				
	hostname(config)# rout hostname(config-router		nbor-warnings	300						

Related Commands	Command	Description
	eigrp log-neighbor-messages	Enables the logging of changes in EIGRP neighbor adjacencies.
	router eigrp	Enters router configuration mode for the EIGRP routing process.
	show running-config router	Displays the commands in the global router configuration.

eigrp router-id

Γ

To specify router ID used by the EIGRP routing process, use the **eigrp router-id** command in router configuration mode. To restore the default value, use the **no** form of this command.

eigrp router-id *ip-addr*

no eigrp router-id [*ip-addr*]

Syntax Description	ip-addr			lress (dotted-dec s the router ID.	imal) form	at. You cannot	use 0.0.0.0 or				
Defaults	If not specified, the hig	If not specified, the highest-level IP address on the ASA is used as the router ID.									
Command Modes	The following table sho	ows the mo	odes in whic	h you can enter	the comma	nd:					
			Firewall N	lode	Security 0	ontext					
						Multiple					
	Command Mode		Routed	Transparent	Single	Context	System				
	Router configuration		•	_	•	•					
				,			·				
Command History	Release Modification										
	8.0(2)	8.0(2)This command was introduced.									
	9.0(1)	Multipl	e context m	ode is supported	1.						
Usage Guidelines	If the eigrp router-id command is not configured, EIGRP automatically selects the highest I on the ASA to use as the router ID when an EIGRP process is started. The router ID is not change the EIGRP process is removed using the no router eigrp command or unless the router ID is configured with the eigrp router-id command.										
	The router ID is used to identify the originating router for external routes. If an external route is received with the local router ID, the route is discarded. To prevent this, use the eigrp router-id command to specify a global address for the router ID.										
	A unique value should	be configu	red for each	EIGRP router.							
Examples	The following example configures 172.16.1.3 as a fixed router ID for the EIGRP routing process: hostname(config)# router eigrp 100										
	<pre>hostname(config-router)# eigrp router-id 172.16.1.3</pre>										

Related Commands	Command	Description
	router eigrp	Enters router configuration mode for the EIGRP routing process.
	show running-config router	Displays the commands in the global router configuration.

eigrp stub

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To configure the EIGRP routing process as a stub routing process, use the **eigrp stub** command in router configuration mode. To remove EIGRP stub routing, use the **no** form of this command.

eigrp stub [receive-only] | {[connected] [redistributed] [static] [summary]}

no eigrp stub [receive-only] | {[connected] [redistributed] [static] [summary]}

Syntax Description	aannaatad	(Ontio	nol) Advanti	an composted re	utaa			
Syntax Description	connected		-	ses connected ro ASA as a receiv		i ah han		
	receive-only	· 1	1			e		
	redistributed			ses routes redist		n other routing	g protocols.	
	static	· 1		ses static routes.				
	summary	(Optio	onal) Adverti	ses summary rou	ites.			
Defaults	Stub routing is not er	nabled.						
Command Modes	The following table s	shows the m	odes in whic	h you can enter	the comma	nd:		
			Firewall N	lode	Security C	ontext		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Router configuration	1	•	_	•	•	—	
Command History	Release Modification							
	8.0(2)	This c	ommand was	introduced.				
	9.0(1)							
Usage Guidelines	Use the eigrp stub command to configure the ASA as a stub where the ASA directs all IP traffic to a distribution router.							
	Using the receive-only keyword restricts the ASA from sharing any of its routes with any other router in the autonomous system; the ASA only receives updates from the EIGRP neighbor. You cannot use any other keyword with the receive-only keyword.							
	You can specify one of these keywords is use keyword are sent.				•	•	•	
	The connected keyword permits the EIGRP stub routing process to send connected routes. If the connected routes are not covered by a network statement, it may be necessary to redistribute connected							

routes with the redistribute command under the EIGRP process.

The **static** keyword permits the EIGRP stub routing process to send static routes. Without the configuration of this option, EIGRP will not send any static routes, including internal static routes that normally would be automatically redistributed. You must still redistribute static routes using the **redistribute static** command. The **summary** keyword permits the EIGRP stub routing process to send summary routes. You can create summary routes manually with the **summary-address eigrp** command or automatically with the **auto-summary** command enabled (this command is enabled by default).

The **redistributed** keyword permits the EIGRP stub routing process to send routes redistributed into the EIGRP routing process from other routing protocols. If you do you configure this option, EIGRP does not advertise redistributed routes.

```
Examples
```

The following example uses the **eigrp stub** command to configure the ASA as an EIGRP stub that advertises connected and summary routes:

```
hostname(config)# router eigrp 100
hostname(config-router)# network 10.0.0.0
hostname(config-router)# eigrp stub connected summary
```

The following example uses the **eigrp stub** command to configure the ASA as an EIGRP stub that advertises connected and static routes. Sending summary routes is not permitted.

```
hostname(config)# router eigrp 100
hostname(config-router)# network 10.0.0.0
hostname(config-router)# eigrp stub connected static
```

The following example uses the **eigrp stub** command to configure the ASA as an EIGRP stub that only receives EIGRP updates. Connected, summary, and static route information is not sent.

```
hostname(config)# router eigrp 100
hostname(config-router)# network 10.0.0.0 eigrp
hostname(config-router)# eigrp stub receive-only
```

The following example uses the **eigrp stub** command to configure the ASA as an EIGRP stub that advertises routes redistributed into EIGRP from other routing protocols:

```
hostname(config)# router eigrp 100
hostname(config-router)# network 10.0.0.0
hostname(config-router)# eigrp stub redistributed
```

The following example uses the **eigrp stub** command without any of the optional arguments. When used without arugments, the **eigrp stub** commands advertises connected and static routes by default.

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```
hostname(config)# router eigrp 100
hostname(config-router)# network 10.0.0.0
hostname(config-router)# eigrp stub
```

Related Commands	Command	Description
	router eigrp	Clears the EIGRP router configuration mode commands from the running configuration.
	show running-config router eigrp	Displays the EIGRP router configuration mode commands in the running configuration.

eject

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To support the removal of an ASA external compact flash device, use the **eject** command in user EXEC mode.

eject [/noconfirm] disk1:

Syntax Description	disk1:	<i>disk1:</i> Specifies the device to eject.							
	/noconfirm	-	you do not neec ash device from	to confirm dev the ASA.	ice remova	l before physic	cally removing		
Defaults	No default be	haviors or value	s.						
Command Modes	The following	g table shows the	e modes in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security (Context			
						Multiple			
	Command Mo	ode	Routed	Transparent	Single	Context	System		
	User EXEC		•	•	•	•	•		
Command History									
	Release Modification 8.0(2) This command was introduced.								
lsage Guidelines	The eject command allows you to safely remove a compact flash device from an ASA 5500 series. The following example shows how to use the eject command to shut down <i>disk1</i> gracefully before the								
	<pre>device is physically removed from the ASA: hostname# eject /noconfig disk1: It is now safe to remove disk1: hostname# show version Cisco Adaptive Security Appliance Software Version 8.0(2)34 Compiled on Fri 18-May-07 10:28 by juser System image file is "disk0:/cdisk.asa"</pre>								
	Config file at boot was "startup-config" wef5520 up 5 hours 36 mins								
	<pre>wef5520 up 5 hours 36 mins Hardware: ASA5520, 512 MB RAM, CPU Pentium 4 Celeron 2000 MHz Internal ATA Compact Flash, 256MB Slot 1: Compact Flash has been ejected! It may be removed and a new device installed. BIOS Flash M50FW016 @ 0xffe00000, 2048KB <more></more></pre>								

Related Commands	Command	Description
	show version	Displays information about the operating system software.

email

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To include the indicated e-mail address in the Subject Alternative Name extension of the certificate during enrollment, use the **email** command in crypto ca-trustpoint configuration mode. To restore the default setting, use the **no** form of this command.

email address

no email

Syntax Description	address	<i>address</i> Specifies the e-mail address. The maximum length is 64 characters.								
Defaults	The default setting is no	t set.								
Command Modes	The following table sho	ws the modes in whic	ch you can enter	the comma	und:					
		Firewall N	lode	Security (Context					
					Multiple					
	Command Mode	Routed	Transparent	Single	Context	System				
	Crypto ca-trustpoint configuration	•	•	•						
Command History	Release Modification									
	7.0(1)This command was introduced.									
Examples	The following example includes the e-mail addr hostname(config)# cry hostname(ca-trustpoin hostname(ca-trustpoin	ess user 1@user.net i pto ca-trustpoint t)# email user1@us	n the enrollment							
Related Commands	Command	Description	ustraint aanfiau	notion mod						
	crypto ca-trustpoint	Enters crypto ca-tr	ustpoint configu	ration mod	e.					

enable

To enter privileged EXEC mode, use the **enable** command in user EXEC mode.

enable [level]

Syntax Descriptionlevel(Optional) The privilege level between 0 and 15. Not used with enable
authentication (the aaa authentication enable console command).

Defaults Enters privilege level 15 unless you are using enable authentication (using the **aaa authentication enable console** command), in which case the default level depends on the level configured for your username.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode Security (ontext	
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
User EXEC	•	•	•	•	•	

 Release
 Modification

 7.0(1)
 This command was introduced.

Usage Guidelines The default enable password is blank. See the **enable password** command to set the password.

Without enable authentication, when you enter the **enable** command, your username changes to enable_*level*, where the default level is 15. With enable authentication (using the **aaa authentication enable console** command), the username and associated level are preserved. Preserving the username is important for command authorization (the **aaa authorization command** command, using either local or TACACS+).

Levels 2 and above enter privileged EXEC mode. Levels 0 and 1 enter user EXEC mode. To use levels in between, enable local command authorization (the **aaa authorization command LOCAL** command) and set the commands to different privilege levels using the **privilege** command. TACACS+ command authorization does not use the privilege levels configured on the ASA.

See the **show curpriv** command to view your current privilege level.

Enter the disable command to exit privileged EXEC mode.

Examples

The following example enters privileged EXEC mode:

hostname> **enable** Password: **Pa\$\$w0rd** hostname# The following example enters privileged EXEC mode for level 10:

hostname> **enable 10** Password: **Pa\$\$w0rd10** hostname#

Related Commands

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Command	Description
enable password	Sets the enable password.
disable	Exits privileged EXEC mode.
aaa authorization command	Configures command authorization.
privilege	Sets the command privilege levels for local command authorization.
show curpriv	Shows the currently logged in username and the user privilege level.

enable (webvpn)

To enable WebVPN or e-mail proxy access on a previously configured interface, use the **enable** command. For WebVPN, use this command in webvpn configuration mode. For e-mail proxies (IMAP4S. POP3S, and SMTPS), use this command in the applicable e-mail proxy configuration mode. To disable WebVPN on an interface, use the **no** form of the command.

enable ifname

no enable

Syntax Description	<i>ifname</i> Identifies the previously configured interface. Use the nameif command to configure interfaces.							
Defaults	WebVPN is disabled	by default.						
Command Modes	The following table :	shows the modes in whi	ch you can enter	the comma	nd:			
		Firewall I	Aode	Security C	ontext			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Imap4s configuratio	n •		•		_		
	Pop3s configuration	•		•				
	Smtps configuration	•		•				
	Webvpn configuration							
Command History	Release	Modification						
	7.0(1)	This command wa	s introduced.					
Examples	hostname(config)# hostname(config-we The following examp hostname(config)#	<pre>bbvpn)# enable Outside ple shows how to config</pre>						

enable (cluster group)

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To enable clustering, use the **enable** command in cluster group configuration mode. To disable clustering, use the **no** form of this command.

enable [as-slave | noconfirm]

no enable

Syntax Description	as-slave	for in no po	(Optional) Enables clustering without checking the running configuration for incompatible commands and ensures that the slave joins the cluster with no possibility of becoming the master in any current election. Its configuration is overwritten with the one synced from the master unit.					
	noconfirm	 (Optional) When you enter the enable command, the ASA scans the running configuration for incompatible commands for features that are not supported with clustering, including commands that may be present in the default configuration. You are prompted to delete the incompatible commands. If you respond No, then clustering is not enabled. Use the noconfirm keyword to bypass the confirmation and delete incompatible commands automatically. 						
Command Default	No default behavi	or or values.						
Command Modes	The following tab	le shows the n	nodes in whic	h you can enter	the comma	nd:		
			Firewall N	ode	Security C	ontext		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Cluster group cor	ifiguration	•	•	•		•	
Command History	Cluster group cor	-	• fication	•	•	—	•	
Command History		Modif			•		•	

Note If you disable clustering, all data interfaces are shut down, and only the management interface is active. If you want to remove the unit from the cluster entirely (and thus want to have active data interfaces), you need to remove the entire cluster group configuration.

Examples

The following example enables clustering and removes incopatible configuration:

```
hostname(config)# cluster group cluster1
hostname(cfg-cluster)# enable
INFO: Clustering is not compatible with following commands:
policy-map global_policy
class inspection_default
inspect skinny
policy-map global_policy
class inspection_default
inspect sip
Would you like to remove these commands? [Y]es/[N]o:Y
INFO: Removing incompatible commands from running configuration...
Cryptochecksum (changed): f16b7fc2 a742727e e40bc0b0 cd169999
INFO: Done
```

Related Commands	Command	Description				
	clacp system-mac	When using spanned EtherChannels, the ASA uses cLACP to negotiate the EtherChannel with the neighbor switch.				
	cluster group	Names the cluster and enters cluster configuration mode.				
	cluster-interface	Specifies the cluster control link interface.				
	cluster interface-mode	Sets the cluster interface mode.				
	conn-rebalance	Enables connection rebalancing.				
	console-replicate	Enables console replication from slave units to the master unit.				
	health-check	Enables the cluster health check feature, which includes unit health monitoring and interface health monitoring.				
	key	Sets an authentication key for control traffic on the cluster control link.				
	local-unit	Names the cluster member.				
	mtu cluster-interface	Specifies the maximum transmission unit for the cluster control link interface.				
	priority (cluster group)	Sets the priority of this unit for master unit elections.				

enable gprs

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To enable GPRS with RADIUS accounting, use the **enable gprs** command in radius-accounting parameter configuration mode. To disable this command, use the **no** form of this command.

enable gprs

no enable gprs

Syntax Description	This command has no arguments	or keywords.
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Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context		
			Single	Multiple	
Command Mode	Routed	Transparent		Context	System
Radius-accounting parameter configuration	•	•	•	•	—

Command History	Release	Modification
	7.2(1)	This command was introduced.

Usage GuidelinesThis command is accessed by using the inspect radius-accounting command. The ASA checks for the
3GPP VSA 26-10415 in the Accounting-Request Stop messages to correctly handle secondary PDP
contexts. This option is disabled by default. A GTP license is required to enable this feature.

Examples The following example shows how to enable GPRS with RADIUS accounting: hostname(config)# policy-map type inspect radius-accounting ra

hostname(config-pmap)# parameters hostname(config-pmap-p)# enable gprs

Related Commands	Commands	Description
	inspect	Sets inspection for RADIUS accounting.
	radius-accounting	
	parameters	Sets parameters for an inspection policy map.

enable password

To set the enable password for privileged EXEC mode, use the **enable password** command in global configuration mode. To remove the password for a level other than 15, use the **no** form of this command.

enable password password [level level] [encrypted]

no enable password level level

Syntax Description	encrypted	saved in passwo to anotl enable Normal	(Optional) Specifies that the password is in encrypted form. The password is saved in the configuration in encrypted form, so you cannot view the original password after you enter it. If for some reason you need to copy the password to another ASA but do not know the original password, you can enter the enable password command with the encrypted password and this keyword. Normally, you only see this keyword when you enter the show running-config enable command.							
	level level	(Optior	(Optional) Sets a password for a privilege level between 0 and 15.							
	password	special	Sets the password as a case-sensitive string of 3 to 32 alphanumeric and special characters. You can use any character in the password except a question mark or a space.							
Defaults	The default passw	ord is blank. Th	ne default le	vel is 15.						
Command Modes	The following tab	le shows the mo	odes in whic	h you can enter	the comma	ınd:				
			Firewall N	lode	Security C	Context				
						Multiple				
	Command Mode		Routed	Transparent	Single	Context	System			
	Global configurat	tion	•	•	•	•	•			
Command History	Release Modification									
	7.0(1)	This co	mmand was	s introduced.						
Usage Guidelines	The default passw do not enter any te For multiple conte for each context. To use privilege le authorization con different privilege authorization, the set. See the show	ext for the <i>pass</i> ext mode, you can evels other than mmand comma levels using the enable levels ar	<i>word</i> argum an create an the default o nd and spec e privilege e ignored, a	ent. You cannot r enable passwor of 15, configure ify the LOCAL command. If you and you have acc	emove the d for the sy local comm keyword), a do not con ress to level	level 15 passw ystem configur hand authorizat and set the con nfigure local c l 15 regardless	ord. ation as well as ion (see the aaa mmands to ommand			

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Levels 2 and above enter privileged EXEC mode. Levels 0 and 1 enter user EXEC mode.

Examples The following example sets the enable password to Pa\$\$w0rd:

hostname(config)# enable password Pa\$\$w0rd

The following example sets the enable password to Pa\$\$w0rd10 for level 10:

hostname(config)# enable password Pa\$\$w0rd10 level 10

The following example sets the enable password to an encrypted password that you copied from another ASA:

hostname(config)# enable password jMorNbK0514fadBh encrypted

Related Commands	Command	Description
	aaa authorization command	Configures command authorization.
	enable	Enters privileged EXEC mode.
	privilege	Sets the command privilege levels for local command authorization.
	show curpriv	Shows the currently logged in username and the user privilege level.
	show running-config enable	Shows the enable passwords in encrypted form.

encryption

To specify the encryption algorithm in an IKEv2 security association (SA) for AnyConnect IPsec connections, use the **encryption** command in ikev2 policy configuration mode. To remove the command and use the default setting, use the **no** form of this command:

encryption [des | 3des | aes | aes-192 | aes-256 | aes-gcm | aes-gcm-192 | aes-gcm-256 | null]

no encryption [des | 3des | aes | aes-192 | aes-256 | aes-gcm | aes-gcm-192 | aes-gcm-256 | null]

Syntax Description	des	des Specifies 56-bit DES-CBC encryption for ESP.							
	3des	(Defa	ult) Specifies	the triple DES	encryption	algorithm for I	ESP.		
	aes	Speci	ifies AES with	h a 128-bit key e	ncryption f	for ESP.			
	aes-192	Speci	ifies AES with	h a 192-bit key e	ncryption f	for ESP.			
	aes-256	aes-256 Specifies AES with a 256-bit key encryption for ESP.							
	aes-gcm	aes-gcm Specifies AES-GCM algorithm for IKEv2 encryption.							
	aes-gcm-192	Speci	ifies AES-GC	M algorithm for	IKEv2 enc	ryption.			
	aes-gcm-256	Speci	ifies AES-GC	M algorithm for	IKEv2 enc	cryption.			
	null		se null integr ption algorith	ity algorithm if A nm.	AES-GCM/	GMAC is cont	figured as the		
Defaults	The default is 3DES								
lsage Guidelines	An IKEv2 SA is a ke entering the crypto encryption algorithm	ikev2 polic							
	When OSPFv3 encry while the IPsec tunn sa commands to dete	yption is ena lel is config	ured. Use the	show crypto so	ckets, shov	v ipsec policy,	and show ip		
ommand Modes	When OSPFv3 encry while the IPsec tunn	yption is ena lel is config ermine the u	ured. Use the nderlying IPs nodes in whic	show crypto so ec tunnel status a ch you can enter	ckets, show and to confi the comma	v ipsec policy, rm that process	and show ips		
command Modes	When OSPFv3 encry while the IPsec tunn sa commands to dete	yption is ena lel is config ermine the u	ured. Use the nderlying IPs	show crypto so ec tunnel status a ch you can enter	ckets, show and to confi	v ipsec policy, rm that process	and show ips		
ommand Modes	When OSPFv3 encry while the IPsec tunn sa commands to dete	yption is ena lel is config ermine the u	ured. Use the nderlying IPs nodes in whic	show crypto so ec tunnel status a ch you can enter	ckets, show and to confi the comma	v ipsec policy, rm that process	and show ips		
command Modes	When OSPFv3 encry while the IPsec tunn sa commands to dete	yption is ena lel is config ermine the u	ured. Use the nderlying IPs nodes in whic	show crypto so ec tunnel status a ch you can enter	ckets, show and to confi the comma Security C	v ipsec policy, rm that process and: Context	and show ips		
command Modes	When OSPFv3 encry while the IPsec tunn sa commands to dete The following table	yption is ena lel is config ermine the u shows the r	ured. Use the nderlying IPs nodes in whic Firewall N	show crypto so ec tunnel status a ch you can enter lode	ckets, show and to confi the comma Security C	v ipsec policy, rm that process and: Context Multiple	and show ips sing is occurri		
	When OSPFv3 encry while the IPsec tunn sa commands to dete The following table	yption is ena lel is config ermine the u shows the r uration	ured. Use the nderlying IPs nodes in whic Firewall N Routed	show crypto so ec tunnel status a ch you can enter lode	ckets, show and to confi the comma Security C Single	v ipsec policy, rm that process and: Context Multiple	and show ips sing is occurri		
Command Modes	When OSPFv3 encry while the IPsec tunn sa commands to dete The following table Command Mode Ikev2-policy config	yption is ena tel is config ermine the u shows the r uration Modi	ured. Use the nderlying IPs nodes in whic Firewall N Routed •	show crypto so ec tunnel status a ch you can enter node Transparent 	ckets, show and to confi the comma Security C Single	v ipsec policy, rm that process and: Context Multiple	and show ips sing is occurri		

Examples

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The following example enters ikev2-policy configuration mode and sets the encryption to AES-256: hostname(config)# crypto ikev2 policy 1 hostname(config-ikev2-policy)# encryption aes-256

Related Commands	Command	Description
	group	Specifies the Diffie-Hellman group in an IKEv2 SA for AnyConnect IPsec connections.
	integrity	Specifies the ESP integrity algorithm in an IKEv2 SA for AnyConnect IPsec connections.
	prf	Specifies the pseudo-random function in an IKEv2 SA for AnyConnect IPsec connections.
	lifetime	Specifies the SA lifetime for the IKEv2 SA for AnyConnect IPsec connections.

endpoint

To add an endpoint to an HSI group for H.323 protocol inspection, use the **endpoint** command in hsi group configuration mode. To disable this feature, use the **no** form of this command.

endpoint ip_address if_name

no endpoint *ip_address if_name*

Syntax Description	<i>if_name</i> The interface through which the endpoint is connected to the ASA.								
	<i>ip_address</i> The IP address of the endpoint to add. A maximum of ten endpoints per HSI group is allowed.								
Defaults	No default beha	No default behavior or values.							
Command Modes	The following ta	able shows the	e modes in whic	h you can enter	the comma	ınd:			
			Firewall N	lode	Security (Context			
						Multiple			
	Command Mode)	Routed	Transparent	Single	Context	System		
	Hsi-group conf	iguration	•	•	•	•			
Command History	Release Modification								
Command History	Release Modification 7.2(1) This command was introduced.								
	7.2(1)								
Examples	The following example shows how to add endpoints to an HSI group in an H.323 inspection policy map:								
	hostname(confi hostname(confi hostname(confi	g-h225-map-h	si-grp)# endp						
Related Commands	Command	Descr	ription						
	class-map	Creat	es a Layer 3/4 c	class map.					
	hsi-group	Creat	es an HSI group).					
	hsi	Adds	an HSI to the H	ISI group.					
	policy-map	Creat	es a Layer 3/4 p	oolicy map.					
	show running- policy-map	show running-config Display all current policy map configurations. policy-map							

endpoint-mapper

endpoint-mapper

Γ

To configure endpoint mapper options for DCERPC inspection, use the **endpoint-mapper** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

endpoint-mapper [epm-service-only] [lookup-operation [timeout value]]

no endpoint-mapper [epm-service-only] [lookup-operation [timeout value]]

Syntax Description	epm-service-only	Specifies to enforce endoint mapper service during binding.						
	lookup-operation	Specifies to enable lookup operation of the endpoint mapper service.						
	timeout value	imeout <i>value</i> Specifies the timeout for pinholes from the lookup operation. The range is from 0:0:1 to 1193:0:0.						
Defaults	No default behavior or	values.						
Command Modes	The following table sho	ows the mod	es in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security (Context		
		-				Multiple		
	Command Mode	1	Routed	Transparent	Single	Context	System	
	Parameters configurati	on	•	•	•	•	—	
Command History	Release Modification							
	7.2(1) This	s command v	was introd	uced.				
Examples	The following example hostname(config)# po hostname(config-pmap hostname(config-pmap	licy-map ty)# paramete	pe inspe ers	ct dcerpc dcerp	pc_map	a DCERPC po	licy map:	
Related Commands	Command	Description	1					
	class	-		name in the po	licy map.			
	class-map typeCreates an inspection class map to match traffic specific to an application.inspect							
	policy-map	Creates a L	layer 3/4 p	olicy map.				
	show running-config Display all current policy map configurations. policy-map							

enforcenextupdate

To specify how to handle the NextUpdate CRL field, use the **enforcenextupdate** command in ca-crl configuration mode. To permit a lapsed or missing NextUpdate field, use the **no** form of this command.

enforcenextupdate

no enforcenextupdate

Syntax Description	This command	has no arguments	or keywords.
--------------------	--------------	------------------	--------------

Defaults The default setting is enforced (on).

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context			
			Single	Multiple	Multiple	
Command Mode	Routed	Transparent		Context	System	
Ca-crl configuration	•	•	•	•	•	

Command History	Release	Modification
7.0(1)		This command was introduced.

Usage Guidelines If set, this command requires CRLs to have a NextUpdate field that has not yet lapsed. If not used, the ASA allows a missing or lapsed NextUpdate field in a CRL.

Examples The following example enters crypto ca-crl configuration mode and requires CRLs to have a NextUpdate field that has not expired for the trustpoint central:

hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# crl configure hostname(ca-crl)# enforcenextupdate hostname(ca-crl)#

Related Commands	Command	Description
	cache-time	Specifies a cache refresh time in minutes.
	crl configure	Enters ca-crl configuration mode.
	crypto ca trustpoint	Enters crypto ca-trustpoint configuration mode.

enrollment-retrieval

To specify the time in hours that an enrolled user can retrieve a PKCS12 enrollment file, use the **enrollment-retrieval** command in local crypto ca-server configuration mode. To reset the time to the default number of hours (24), use the **no** form of this command.

enrollment-retrieval timeout

no enrollment-retrieval

Syntax Description	timeout Specia	fies the numb	per of hours user	s have to re	etrieve an issue	d certificate			
	from the local CA enrollment web page. Valid timeout values range from 1								
	to 720) hours.							
Defaults		C 1	1 1	1.1. 6 0.4.1					
Delduits	By default, the PKCS12 enrollm	ient me is su	freu and retrieva	Die 10f 24 I	iours.				
Command Modes	The following table shows the n	nodes in whic	ch vou can enter	the comma	nd.				
	The following tuble shows the h	ioues in which	in you can enter	the commu	ind.				
		Firewall N	lode	Security (Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Crypto ca-server configuration	•		•					
Command History		ication							
	8.0(2) This c	command was	s introduced.						
Usage Guidelines	A PKCS12 enrollment file conta								
	server and is available for retrieval from the enrollment web page for the time period specified with the enrollment-retrieval command.								
	When a user is marked as allowed to enroll, that user has the amount of time to enroll with that password								
	specified in the otp expiration command. Once the user enrolls successfully, a PKCS12 file is								
	generated, stored, and a copy is returned through the enrollment web page. The user can return for another copy of the file for any reason (such as when a download fails while trying enrollment) for the								
	command time period specified				fine trying chi	onnient) for the			
Note	This time is independent from the	ne OTP expir	ation period.						
Examples	The following example specifies	that a PKC	S12 enrollment f	ile is availa	ble for retrieve	al from the local			
Examples	CA server for 48 hours after the			110 15 availa		in monit the local			

hostname(config)# crypto ca server

ſ

hostname(config-ca-server)# enrollment-retrieval 48
hostname(config-ca-server)#

The following example resets the retrieval time back to the default of 24 hours:

```
hostname(config)# crypto ca server
hostname(config-ca-server)# no enrollment-retrieval
hostname(config-ca-server)#
```

Related Commands

Command	Description				
crypto ca server	Provides access to ca-server configuration mode commands, which allow you to configure and manage the local CA.				
OTP expiration	Specifies the duration in hours that an issued one-time password for the CA enrollment page is valid.				
smtp from-address	Specifies the e-mail address to use in the E-mail From: field for all e-mails generated by the CA server.				
smtp subject	Specifies the text appearing in the subject field of all e-mails generated by the local CA server.				
subject-name-default	Specifies a generic subject-name DN to be used along with the username in all user certificates issued by a CA server.				

enrollment retry count

Γ

To specify a retry count, use the **enrollment retry count** command in crypto ca-trustpoint configuration mode. To restore the default setting of the retry count, use the **no** form of the command.

enrollment retry count number

no enrollment retry count

Syntax Description	<i>number</i> The maximum number of attempts to send an enrollment request. The valid values are 0, and 1-100 retries.								
Defaults	The default setting for the	e <i>number</i> argument	is 0 (unlimited).						
Command Modes	The following table show	s the modes in whic	h you can enter	the comma	ind:				
		Firewall N	lode	Security C	ontext				
					Multiple	1			
	Command Mode	Routed	Transparent	Single	Context	System			
	Crypto ca-trustpoint configuration	•	•	•	•				
Command History	Release Modification								
	7.0(1)	7.0(1)This command was introduced.							
Usage Guidelines	After requesting a certificate, the ASA waits to receive a certificate from the CA. If the ASA does not receive a certificate within the configured retry period, it sends another certificate request. The ASA repeats the request until either it receives a response or reaches the end of the configured retry period. This command is optional and applies only when automatic enrollment is configured.								
Examples	The following example en configures an enrollment					nt central, and			
	hostname(config)# cryp hostname(ca-trustpoint hostname(ca-trustpoint)# enrollment ret							
Related Commands	Command	Description							
	crypto ca trustpoint	Enters crypto ca-tr	ustpoint configu	ration mod	e				

Command	Description
default enrollment	Returns enrollment parameters to their defaults.
enrollment retry period	Specifies the number of minutes to wait before resending an enrollment request.

enrollment retry period

Γ

To specify a retry period, use the **enrollment retry period** command in crypto ca trustpoint configuration mode. To restore the default setting of the retry period, use the **no** form of the command.

enrollment retry period minutes

no enrollment retry period

Syntax Description	minutesThe number of minutes between attempts to send an enrollment request. The valid range is 1- 60 minutes.								
Defaults	The default setting is 1 n	ninute.							
Command Modes	The following table show		-						
		Firewall N	lode	Security C					
	Command Mode	Routed	Transparent	Single	Multiple Context	System			
	Crypto ca-trustpoint configuration	•	•	•	•	•			
Command History	Release Modification								
Jsage Guidelines	After requesting a certifi receive a certificate with is optional and applies or	n the specified retry	period, it sends	another cer					
Examples	The following example enters crypto ca-trustpoint configuration mode for the trustpoint central, and configures an enrollment retry period of 10 minutes within the trustpoint central:								
	<pre>hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# enrollment retry period 10 hostname(ca-trustpoint)#</pre>								
Related Commands	Command	Description							
	crypto ca trustpoint	Enters crypto ca-tr	ustpoint configu	ration mod	e.				
	default enrollmentReturns all enrollment parameters to their system default values.								
	uerault enronnent	Keturns an emonn	ient parameters	to their sys	tem default va	lues.			

enrollment terminal

To specify cut and paste enrollment with this trustpoint (also known as manual enrollment), use the **enrollment terminal** command in crypto ca-trustpoint configuration mode. To restore the default setting of the command, use the **no** form of the command.

enrollment terminal

no enrollment terminal

Syntax Description This command has no arguments or keywords.

Defaults The default setting is off.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context			
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Crypto ca-trustpoint configuration	•	•	•	•		

```
        Release
        Modification

        7.0(1)
        This command was introduced.
```

Examples

The following example enters crypto ca-trustpoint configuration mode for the trustpoint central, and specifies the cut-and-paste method of CA enrollment for the trustpoint central:

hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# enrollment terminal hostname(ca-trustpoint)#

Related Commands	Command	Description
	crypto ca trustpoint	Enters crypto ca-trustpoint configuration mode.
	default enrollment	Returns enrollment parameters to their defaults.
	enrollment retry count	Specifies the number of retries to attempt to send an enrollment request.
	enrollment retry period	Specifies the number of minutes to wait before resending an enrollment request.
	enrollment url	Specifies automatic enrollment (SCEP) with this trustpoint and configures the URL.

enrollment url

Γ

To specify automatic enrollment (SCEP) to enroll with this trustpoint and to configure the enrollment URL, use the **enrollment url** command in crypto ca-trustpoint configuration mode. To restore the default setting of the command, use the **no** form of the command.

enrollment url url

no enrollment url

Syntax Description	<i>url</i> Specifies the name of the URL for automatic enrollment. The maximum length is 1K characters (effectively unbounded).									
Defaults	The default setting is off.	The default setting is off.								
Command Modes	The following table show		•	the comma	ind:					
		Firewall N	lode	Security (
					Multiple					
	Command Mode	Routed	Transparent	Single	Context	System				
	Crypto ca-trustpoint configuration	•	•	•	•	•				
Command History Examples	Release Modification									
	7.0(1)This command was introduced.									
	The following example enters crypto ca-trustpoint configuration mode for the trustpoint central, and specifies SCEP enrollment at the URL https://enrollsite for trustpoint central: hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# enrollment url https://enrollsite									
		hostname(ca-trustpoint)#								
Related Commands	Command	Description								
	crypto ca trustpoint	Enters crypto ca-trustpoint configuration mode.								
	default enrollment	Returns enrollment parameters to their defaults.								
	enrollment retry count	Specifies the numb	per of retries to a	attempt to s	end an enrollm	ient request.				
	enrollment retry period	Specifies the numb request.	per of minutes to	wait befor	e resending an	enrollment				
	enrollment terminal	Specifies cut-and-	baste enrollment	with this t	rustpoint.					

enrollment-retrieval

To specify the time in hours that an enrolled user can retrieve a PKCS12 enrollment file, use the **enrollment-retrieval** command in local ca-server configuration mode. To reset the time to the default number of hours (24), use the **no** form of this command.

enrollment-retrieval timeout

no enrollment-retrieval

Syntax Description	<i>timeout</i> Specifies the number of hours users have to retrieve an issued certificate from the local CA enrollment web page. Valid timeout values range from 1 to 720 hours.						
Defaults	By default, the PKCS12	2 enrollme	nt file is sto	red and retrieva	ble for 24 h	nours.	
Command Modes	The following table sho	ows the mo	des in whic	h you can enter	the comma	ind:	
			Firewall M	lode	Security C	Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Ca-server configuration	n	•	—	•	—	—
			-				
Command History							
Usage Guidelines	server and is available f	for retrieva					
	When a user is marked a specified by the otp exj generated, stored, and a another copy of the file	Routed Transparent Single Context System ca-server configuration • - • - - telease Modification 0(2) This command was introduced. PKCS12 enrollment file contains an issued certificate and key pair. The file is stored on the local CA erver and is available for retrieval from the enrollment web page for the time period specified with the norollment-retrieval command. . Aber a user is marked as allowed to enroll, that user has the amount of time to enroll with that password becified by the otp expiration command. Once the user enrolls successfully, a PKCS12 file is enerated, stored, and a copy is returned through the enrollment web page. The user can return for nother copy of the file for any reason (such as when a download fails while trying enrollment) for the me period specified in the enrollment-retrieval command. his time is independent from the OTP expiration period. his time is independent from the OTP expiration period.					
Note	This time is independer	nt from the	OTP expira	ation period.			
Examples	The following example CA server for 48 hours hostname(config)# cry	after the c	ertificate is		ile is availa	ble for retrieva	al from the local

hostname(config-ca-server)# enrollment-retrieval 48
hostname(config-ca-server)#

The following example resets the retrieval time back to the default of 24 hours:

```
hostname(config)# crypto ca server
hostname(config-ca-server)# no enrollment-retrieval
hostname(config-ca-server)#
```

Related Commands

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Command	Description
crypto ca server	Provides access to ca-server configuration mode commands, which allow you to configure and manage the local CA.
OTP expiration	Specifies the duration in hours that an issued one-time password for the CA enrollment page is valid.
smtp from-address	Specifies the e-mail address to use in the E-mail From: field for all e-mails generated by the CA server.
smtp subject	Specifies the text appearing in the subject field of all e-mails generated by the local CA server.
subject-name-default	Specifies a generic subject-name DN to be used along with the username in all user certificates issued by a CA server.

eool

To define an action when the End of Options List (EOOL) option occurs in a packet with IP Options inspection, use the **eool** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

eool action {allow | clear}

no eool action {allow | clear}

Syntax Description	allow	allow Instructs the ASA to allow a packet containing the End of Options List IP option to pass.							
	clear Instructs the ASA to clear the End of Options List IP option from a packet and then allow the packet to pass.								
Defaults	By default. IP	Options inspect	ion, drops pack	sets containing t	he End of (Options List IP	option.		
	25 0010010, 11	opuons inspect	,				option		
Command Modes	The following	table shows the	modes in whic	ch you can enter	the comma	and:			
			Firewall N	lode	Security (Context			
						Multiple			
	Command Mode	de	Routed	Transparent	Single	Context	System		
	Parameters co	onfiguration	•	•	•	•	—		
Command History	Release Modification								
	8.2(2)This command was introduced.								
Usage Guidelines	This command can be configured in an IP Options inspection policy map.								
	You can configure IP Options inspection to control which IP packets with specific IP options are allowed through the ASA. Configuring this inspection instructs the ASA to allow a packet to pass or to clear the specified IP options and then allow the packet to pass.								
		ptions List option d of a list of opt		•	•		-		
Examples	The following example shows how to set up an action for IP Options inspection in a policy map:								
	hostname(con hostname(con hostname(con	fig)# policy-ma fig-pmap)# para fig-pmap-p)# ec fig-pmap-p)# nc fig-pmap-p)# rc	ameters ool action all op action all	low ow	ip-options	s_map			

Γ

Related Commands	Command	Description
	class	Identifies a class map name in the policy map.
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.
	policy-map	Creates a Layer 3/4 policy map.
	show running-config policy-map	Display all current policy map configurations.

eou allow

To enable clientless authentication in a NAC Framework configuration, use the **eou allow** command in global configuration mode. To remove the command from the configuration, use the **no** form of this command.

eou allow {audit | clientless | none}

no eou allow {audit | clientless | none}

Syntax Description	audit	audit Performs clientless authentication.							
	clientless	clientless Performs clientless authentication.							
	none	Disables clientless	authentication.						
Defaults	The default configuration	on contains the eou a	l low clientless co	onfiguratio	n.				
Command Modes	The following table sho		-	1					
		Firewall N	lode	Security (Context Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Global configuration	•		•					
Command History	Release Modification								
	ReleaseModification7.2(1)This command was introduced.								
	$\frac{7.2(1)}{8.0(2)}$ Added the audit option.								
Usage Guidelines	The ASA uses this command only if both of the following are true:The group policy is configured to use a NAC Framework NAC policy type.A host on the session does not respond to EAPoUDP requests.								
Examples	The following example enables the use of an ACS to perform clientless authentication: hostname(config)# eou allow clientless hostname(config)# The following example shows how to configure the ASA to use an audit server to perform clientless authentication: hostname(config)# eou allow audit hostname(config)#								
Γ

The following example shows how to disable the use of an audit server:

hostname(config)# no eou allow clientless
hostname(config)#

Related Commands	Command	Description
	debug eou	Enables logging of EAP over UDP events to debug NAC Framework messaging.
	eou clientless	Changes the username and password to be sent to the ACS for clientless authentication in a NAC Framework configuration.
	show vpn-session.db	Displays information about VPN sessions, including NAC results.

eou clientless

To change the username and password to be sent to the Access Control Server for clientless authentication in a NAC Framework configuration, use the **eou clientless** command in global configuration mode. To use the default value, use the **no** form of this command.

eou clientless username username password password

no eou clientless username username password password

Syntax Description	password	Enter to change th authentication for	-					
	<i>password</i> Enter the password configured on the Access Control Server to support clientless hosts. Enter 4-32 ASCII characters.							
	username Enter to change the username sent to the Access Control Server to obtain clientless authentication for a remote host that does not respond to EAPoUDP requests.							
	username	Enter the usernam Enter 1-64 ASCII question marks (?)	characters, ex	cluding leading	and trailing	spaces, pound	l signs (#),	
Defaults	The default	value for both the u	username and j	password attribu	tes is clien	tless.		
Command Modes	The followi	ng table shows the		-				
			Firewall N	lode	Security C			
	Command N	Ando	Routed	Transparent	Single	Multiple Context	System	
					Unigit	OUNICAL	oystom	
	Global con		•		•	_		
Command History		figuration						
Command History	Global con	figuration Mod	•			_		
	Global con Release 7.2(1)	figuration Mod	• ification command was	s introduced.	•			
	Global con Release 7.2(1) This comma	figuration Mod This	• ification command was	s introduced.	•	lientless auther	ntication.	
	Global con Release 7.2(1) This comma • An Acc	figuration Mod This and is effective only	• ification command was y if all of the for is configured	s introduced. ollowing are true on the network t	•	lientless authe	ntication.	
	Global con Release 7.2(1) This comma • An Acc • Clientle	figuration Mod This and is effective only cess Control Server	• ification command was y if all of the for is configured s enabled on the	s introduced. ollowing are true on the network t	•	lientless auther	ntication.	
	Global con Release 7.2(1) This comma • An Acc • Clientle • NAC is	figuration Mod This and is effective only cess Control Server ess authentication is	• ification command was y if all of the for is configured s enabled on the ASA.	s introduced. ollowing are true on the network t ne ASA.	• e: o support c		ntication.	
Command History Usage Guidelines Examples	Global con Release 7.2(1) This comma • An Acc • Clientle • NAC is This comma	figuration Mod This and is effective only cess Control Server ess authentication is configured on the .	• ification command was y if all of the for is configured s enabled on the ASA. the Framework	s introduced. ollowing are true on the network t ne ASA. k implementation	• o support c n of Cisco I	NAC.	ntication.	

hostname(config)#

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The following example changes the username for clientless authentication to the default value, clientless:

hostname(config) # no eou clientless username
hostname(config) #

The following example changes the password for clientless authentication to secret:

hostname(config)# eou clientless password secret
hostname(config)#

The following example changes the password for clientless authentication to the default value, clientless:

hostname(config) # no eou clientless password
hostname(config) #

Related Commands	Command	Description
	eou allow	Enables clientless authentication in a NAC Framework configuration.
	debug eou	Enables logging of EAP over UDP events to debug NAC Framework messaging.
	debug nac	Enables logging of NAC Framework events.

eou initialize

To clear the resources assigned to one or more NAC Framework sessions and initiate a new, unconditional posture validation for each of the sessions, use the **eou initialize** command in privileged EXEC mode.

eou initialize {**all** | **group** *tunnel-group* | **ip** *ip-address*}

all	Revalidates all NAC Framework sessions on this ASA
group	Revalidates all NAC Framework sessions assigned to a tunnel group.
ір	Revalidates a single NAC Framework session.
ip-address	IP address of the remote peer end of the tunnel.
tunnel-group	Name of the tunnel group used to negotiate parameters to set up the tunnel.
	group ip ip-address

Defaults

No default behavior or values.

Command Modes

		Firewal	Mode	Security (Context			
					Multiple			
	Command Mode Privileged EXEC	Routed	Routed Transparent	Single	Context	System		
		•		•		_		
Command History	Release Modification							
	7.2(1)	This command w	vas introduced.					
	disrupt user traffic.	C default ACL is effective during the revalidations, so the s This command does not affect peers that are exempt from ies only to the Framework implementation of Cisco NAC.						
Examples	The following exam	ple initializes all NAC	Framework sessio	ns:				
	hostname# eou init hostname	cialize all						
	The following exam	ple initializes all NAC	Framework session	ns assigned	to the tunnel g	group named tg1		
	hostname# eou init hostname	tialize group tgl						

The following example initializes the NAC Framework session for the endpoint with the IP address 209.165. 200.225:

hostname# eou initialize 209.165.200.225
hostname

Related Commands

Γ

Command	Description
eou revalidate	Forces immediate posture revalidation of one or more NAC Framework sessions.
reval-period	Specifies the interval between each successful posture validation in a NAC Framework session.
sq-period	Specifies the interval between each successful posture validation in a NAC Framework session and the next query for changes in the host posture.
show vpn-session.db	Displays information about VPN sessions, including NAC results.
debug nac	Enables logging of NAC Framework events.

eou max-retry

To change the number of times the ASA resends an EAP over UDP message to the remote computer, use the **eou max-retry** command in global configuration mode. To use the default value, use the **no** form of this command.

eou max-retry retries

no eou max-retry

Syntax Description		imits the number mer expirations. I			*	retransmission		
Defaults	The default value is 3.							
Command Modes	The following table shows t	he modes in whic	h you can enter	the comma	und:			
		Firewall N	lode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	—	•	—			
Commond Illiotom	Deleges M							
Command History		lodification his command was	·					
Usage Guidelines	This command is effective of	only if all of the f	ollowing are true	e:				
	An Access Control Serv	ver is configured	on the network t	o support c	lientless authe	ntication.		
	• Clientless authentication is enabled on the ASA.							
	• NAC is configured on the second sec	ne ASA.						
	This command applies only	to the Frameworl	c implementatio	n of Cisco	NAC.			
Examples	The following example limi	ts the number of I	EAP over UDP	retransmiss	ions to 1:			
	hostname(config)# eou max hostname(config)#	k-retry 1						
	The following example char	iges the number of	of EAP over UD	P retransmi	issions to its de	efault value, 3:		
	hostname(config)# no eou hostname(config)#	max-retry						

Γ

Related Commands	eou timeout	Changes the number of seconds to wait after sending an EAP over UDP message to the remote host in a NAC Framework configuration.
	sq-period	Specifies the interval between each successful posture validation in a NAC Framework session and the next query for changes in the host posture.
	debug eou	Enables logging of EAP over UDP events to debug NAC Framework messaging.
	debug nac	Enables logging of NAC Framework events.
	show vpn-session.db	Displays information about VPN sessions, including NAC results.

eou port

To change the port number for EAP over UDP communication with the Cisco Trust Agent in a NAC Framework configuration, use the **eou port** command in global configuration mode. To use the default value, use the **no** form of this command.

eou port port_number

no eou port

Syntax Description	port_numberPort number on the client endpoint to be designated for EAP over UDP communications. This number is the port number configured on the Cisco Trust Agent. Enter a value in the range of 1024 to 65535.					
Defaults	The default value is	21862.				
Command Modes	The following table	shows the modes in wh	ich you can enter	the comma	and:	
		Firewall	Mode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Global configuratio	n •	—	•		_
Command History	Release	Modification				
	7.2(1)	This command w	as introduced.			
Usage Guidelines	This command appli	ies only to the Framewo	ork implementatio	n of Cisco	NAC.	
Examples	The following exam	ple changes the port nu	mber for EAP ove	er UDP con	nmunication to	62445:
	<pre>hostname(config)# hostname(config)#</pre>	eou port 62445				
	The following exam	ple changes the port nu	mber for EAP ove	r UDP com	munication to	its default value
	hostname(config)# hostname(config)#	no eou port				

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Related Commands	debug eou	Enables logging of EAP over UDP events to debug NAC Framework messaging.
	eou initialize	Clears the resources assigned to one or more NAC Framework sessions and initiates a new, unconditional posture validation for each of the sessions.
	eou revalidate	Forces immediate posture revalidation of one or more NAC Framework sessions.
	show vpn-session.db	Displays information about VPN sessions, including VLAN mapping and NAC results.
	show vpn-session_summary.db	Displays the number IPsec, Cisco AnyConnect, and NAC sessions, including VLAN mapping session data.

eou revalidate

To force immediate posture revalidation of one or more NAC Framework sessions, use the **eou revalidate** command in privileged EXEC mode.

eou revalidate {all | group tunnel-group | ip ip-address}

all	Revalidates all NAC Framework sessions on this ASA
group	Revalidates all NAC Framework sessions assigned to a tunnel group.
ір	Revalidates a single NAC Framework session.
ip-address	IP address of the remote peer end of the tunnel.
tunnel-group	Name of the tunnel group used to negotiate parameters to set up the tunnel.
	group ip ip-address

Defaults No default behavior or values.

Command Modes

	Firewall N	Firewall Mode Secur		urity Context		
Command Mode	Routed	Transparent	Single	Multiple		
				Context	System	
Privileged EXEC	•	_	•	_		

Command History	Kelease	Modification	
	7.2(1)	This command was introduced.	

Use this command if the posture of the peer or the assigned access policy (that is, the downloaded ACL, if any) has changed. The command initiates a new, unconditional posture validation. The posture validation and assigned access policy that were in effect before you entered the command remain in effect until the new posture validation succeeds or fails. This command does not affect peers that are exempt from posture validation.

This command applies only to the Framework implementation of Cisco NAC.

Examples The following example revalidates all NAC Framework sessions: hostname# eou revalidate all hostname The following example revalidates all NAC Framework sessions assigned to the tunnel group named tg-1:

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hostname# **eou revalidate group tg-1** hostname

The following example revalidates the NAC Framework session for the endpoint with the IP address 209.165. 200.225:

hostname# eou revalidate ip 209.165.200.225
hostname

Γ

Command	Description
debug eou	Enables logging of EAP over UDP events to debug NAC Framework messaging.
eou initialize	Clears the resources assigned to one or more NAC Framework sessions and initiates a new, unconditional posture validation for each of the sessions.
eou timeout	Changes the number of seconds to wait after sending an EAP over UDP message to the remote host in a NAC Framework configuration.
reval-period	Specifies the interval between each successful posture validation in a NAC Framework session.
sq-period	Specifies the interval between each successful posture validation in a NAC Framework session and the next query for changes in the host posture.

eou timeout

To change the number of seconds to wait after sending an EAP over UDP message to the remote host in a NAC Framework configuration, use the **eou timeout** command in global configuration mode. To use the default value, use the **no** form of this command.

eou timeout {hold-period | retransmit} seconds

no eou timeout {hold-period | retransmit}

Syntax Description	hold-period	Maximum time to wait after sending EAPoUDP messages equal to the number of EAPoUDP retries. The eou initialize or eou revalidate command also clears this timer. If this timer expires, the ASA initiates a new EAP over UDP association with the remote host.						
	retransmitMaximum time to wait after sending an EAPoUDP message. A response from the remote host clears this timer. The eou initialize or eou revalidate command also clears this timer. If the timer expires, the ASA retransmits the EAPoUDP message to the remote host.secondsNumber of seconds for the ASA to wait. Enter a value in the range of 60 to 86400 for the hold-period attribute, or the range of 1 to 60 for the retransmit attribute.							
							Defaults	The default value of the
	The default value of the	retransmit option is	3.					
Command Modes	The following table shows the modes in which you can enter the command:							
		Firewall N	lode	Security C	Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration • — • — —							
	Release Modification							
Command History	Release	Modification						
Command History	Release 7.2(1)	Modification This command was	s introduced.					
Command History Usage Guidelines		This command was		n of Cisco	NAC.			
	7.2(1)	This command was	k implementation			ssociation to 120		

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The following example changes the wait period before initiating a new EAP over UDP association to its default value:

hostname(config)# no eou timeout hold-period
hostname(config)#

The following example changes the retransmission timer to 6 seconds:

hostname(config)# eou timeout retransmit 6
hostname(config)#

The following example changes the retransmission timer to its default value:

hostname(config)# no eou timeout retransmit
hostname(config)#

Related Commands	Command	Description
	debug eou	Enables logging of EAP over UDP events to debug NAC Framework messaging.
	eou max-retry	Changes the number of times the ASA resends an EAP over UDP message to the
		remote computer.

erase

To erase and reformat the file system, use the **erase** command in privileged EXEC mode. This command overwrites all files and erases the file system, including hidden system files, then reinstalls the file system.

erase [disk0: | disk1: | flash:]

Syntax Description	disk0:	(Optiona	al) Specifies	the f, followed b	y a colon.		
	disk1:	(Optiona colon.	al) Specifies	the external, cor	npact Flash	memory card	, followed by a
	flash:		al) Specifies	the internal Flas	h memory,	followed by a	colon.
			/ I		<i>,</i>	J	
		Caution	Erasing the flash memory also removes the licensing information which is stored in flash memory. Save the licensing information before erasing the flash memory.				
		On the A	ASA 5500 set	ries, the flash ke	eyword is al	iased to disk0	: .
Defaults	No default beahviors	s or values.					
Command Modes	The following table	shows the m	odes in whic	h you can enter	the comma	nd:	
			Firewall N	lode	Security C	ontext	
						Multiple	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Command Mode Privileged EXEC		Routed	Transparent •	Single •	-	System •
Command History		Modifi		-	-	-	
Command History	Privileged EXEC		•	•	-	-	
Command History Usage Guidelines	Privileged EXEC Release	This c erases all d	• ication ommand was ata in the flat	• s introduced.	•	Context	•
	Privileged EXEC Release 7.0(1) The erase command	This c erases all da location tabl files (exclud	• ication ommand was ata in the fla- le to the devi	• s introduced. sh memory using ce.	• g the OxFF	Context	• en rewrites an

Examples

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The following example erases and reformats the file system: hostname# erase flash:

Related Commands	Command	Description
	delete	Removes all visible files, excluding hidden system files.
	format	Erases all files (including hidden system files) and formats the file system.

esp

To specify parameters for ESP and AH tunnels for IPsec Pass-Through inspection, use the **esp** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

{esp | ah} [per-client-max num] [timeout time]

no {**esp** | **ah**} [**per-client-max** *num*] [**timeout** *time*]

	esp Specifies parameters for the ESP tunnel.							
	ah Specifies parameters for the AH tunnel.							
	per-client-max <i>num</i> Specifies the maximum number of tunnels from one client.							
	timeout time	timeout timeSpecifies the idle timeout for the ESP tunnel.						
efaults	This command is disabl	This command is disabled by default.						
ommand Modes	The following table sho	ws the modes in whic	ch you can enter	the comma	nd:			
		Firewall N	Node	Security C	ontext			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Parameters configuration	on •	•	•	•			
	i di diffettero comiguiation	-	•					
ommand History		ification						
Command History	Release Mod							

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Related Commands	Command	Description			
	class Identifies a class map name in the policy map.				
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.			
	policy-map	Creates a Layer 3/4 policy map.			
	show running-config policy-map	Display all current policy map configurations.			

established

To permit return connections on ports that are based on an established connection, use the **established** command in global configuration mode. To disable the **established** feature, use the **no** form of this command.

- established est_protocol dest_port [source_port] [permitto protocol port [-port]] [permitfrom protocol port[-port]]
- **no established** *est_protocol dest_port* [*source_port*] [**permitto** *protocol port* [*-port*]] [**permitfrom** *protocol port*[*-port*]]

Syntax Description	est_protocol	Specifies the IP protocol (UDP or TCP) to use for the established connection lookup.
	dest_port	Specifies the destination port to use for the established connection lookup.
	permitfrom	(Optional) Allows the return protocol connection(s) originating from the specified port.
	permitto	(Optional) Allows the return protocol connections destined to the specified port.
	port [-port]	(Optional) Specifies the (UDP or TCP) destination port(s) of the return connection.
	protocol	(Optional) IP protocol (UDP or TCP) used by the return connection.
	source_port	(Optional) Specifies the source port to use for the established connection lookup.

Defaults

The defaults are as follows:

- dest_port—0 (wildcard)
- *source_port*—0 (wildcard)

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	Node	Security Context		
		Transparent		Multiple	
Command Mode	Routed		Single	Context	System
Global configuration	•	•	•	•	_

 Release
 Modification

 7.0(1)
 The keywords to and from were removed from the CLI. Use the keywords permitto and permitfrom instead.

Usage Guidelines

The established command lets you permit return access for outbound connections through the ASA. This command works with an original connection that is outbound from a network and protected by the ASA and a return connection that is inbound between the same two devices on an external host. The established command lets you specify the destination port that is used for connection lookups. This

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addition allows more control over the command and provides support for protocols where the destination port is known, but the source port is unknown. The **permitto** and **permitfrom** keywords define the return inbound connection.

Caution

We recommend that you always specify the **established** command with the **permitto** and **permitfrom** keywords. Using the **established** command without these keywords is a security risk because when connections are made to external systems, those system can make unrestricted connections to the internal host involved in the connection. This situation can be exploited for an attack of your internal systems.

Examples

The following set of examples shows potential security violations could occur if you do not use the **established** command correctly.

This example shows that if an internal system makes a TCP connection to an external host on port 4000, then the external host could come back in on any port using any protocol:

hostname(config) # established tcp 4000 0

You can specify the source and destination ports as $\mathbf{0}$ if the protocol does not specify which ports are used. Use wildcard ports (0) only when necessary.

hostname(config)# established tcp 0 0

Note

To allow the **established** command to work correctly, the client must listen on the port that is specified with the **permitto** keyword.

You can use the **established** command with the **nat 0** command (where there are no **global** commands).

Note

You cannot use the **established** command with PAT.

The ASA supports XDMCP with assistance from the established command.

Caution

Using XWindows system applications through the ASA may cause security risks.

XDMCP is on by default, but it does not complete the session unless you enter the **established** command as follows:

hostname(config)# established tcp 6000 0 permitto tcp 6000 permitfrom tcp 1024-65535

Entering the **established** command enables the internal XDMCP-equipped (UNIX or ReflectionX) hosts to access external XDMCP-equipped XWindows servers. UDP/177-based XDMCP negotiates a TCP-based XWindows session, and subsequent TCP back connections are permitted. Because the source port(s) of the return traffic is unknown, specify the *source_port* field as 0 (wildcard). The *dest_port* should be 6000 + n, where *n* represents the local display number. Use this UNIX command to change this value:

hostname(config)# setenv DISPLAY hostname:displaynumber.screennumber

The **established** command is needed because many TCP connections are generated (based on user interaction) and the source port for these connections is unknown. Only the destination port is static. The ASA performs XDMCP fixups transparently. No configuration is required, but you must enter the **established** command to accommodate the TCP session.

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The following example shows a connection between two hosts using protocol A destined for port B from source port C. To permit return connections through the ASA and protocol D (protocol D can be different from protocol A), the source port(s) must correspond to port F and the destination port(s) must correspond to port E.

hostname(config)# established A B C permitto D E permitfrom D F

The following example shows how a connection is started by an internal host to an external host using TCP destination port 6060 and any source port. The ASA permits return traffic between the hosts through TCP destination port 6061 and any TCP source port.

hostname(config)# established tcp 6060 0 permitto tcp 6061 permitfrom tcp 0

The following example shows how a connection is started by an internal host to an external host using UDP destination port 6060 and any source port. The ASA permits return traffic between the hosts through TCP destination port 6061 and TCP source port 1024-65535.

hostname(config)# established udp 6060 0 permitto tcp 6061 permitfrom tcp 1024-65535

The following example shows how a local host starts a TCP connection on port 9999 to a foreign host. The example allows packets from the foreign host on port 4242 back to local host on port 5454.

hostname(config)# established tcp 9999 permitto tcp 5454 permitfrom tcp 4242

Related Commands	Command	Description
	clear configure established	Removes all established commands.
	show running-config established	Displays the allowed inbound connections that are based on established connections.

exceed-mss

Γ

To allow or drop packets whose data length exceeds the TCP maximum segment size (MSS) set by the peer during a three-way handshake, use the **exceed-mss** command in tcp-map configuration mode. To remove this specification, use the **no** form of this command.

exceed-mss {allow | drop}

no exceed-mss {allow | drop}

Syntax Description	allow Allows packets that exceed the MSS. This setting is the default.						
	drop Drops packets that exceed the MSS.						
Defaults	Packets are allowed by de	efault.					
Command Modes	The following table show	s the modes in whic	ch you can enter	the comma	and:		
		Firewall N	Node	Security (Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Tcp-map configuration	•	•	•	•		
0	Delegas						
Command History	Release Modification						
	7.0(1)This command was introduced.7.2(4)/8.0(4)The default was changed from drop to allow .						
Usage Guidelines	The tcp-map command is class of traffic using the c commands. Apply the new service-policy commands	class-map command w TCP map using th	d and customize	the TCP in	spection with	tcp-map	
	Use the tcp-map comman tcp-map configuration mo size set by the peer during	nd to enter tcp-map ode to drop TCP pac	kets whose data				
Examples	The following example denotes the fo	map tmap p)# exceed-mss dr s-map cmap match port tcp e cy-map pmap	qo	excess of M	ISS:		

hostname(config-pmap)# set connection advanced-options tmap hostname(config)# service-policy pmap global

Related Commands Command		Description
	class	Specifies a class map to use for traffic classification.
	policy-map	Configures a policy; that is, an association of a traffic class and one or more actions.
	set connection advanced-options	Configures advanced connection features, including TCP normalization.
	tcp-map	Creates a TCP map and allows access to tcp-map configuration mode.

exempt-list

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To add an entry to the list of remote computer types that are exempt from posture validation, use the **exempt-list** command in nac-policy-nac-framework configuration mode. To remove an entry from the exemption list, use the **no** form of this command and name the operating system and ACL in the entry to be removed.

exempt-list os "os-name" [disable | filter acl-name [disable]]

no exempt-list os "os-name" [disable | filter acl-name [disable]]

Synta Description	acl-name		of the ACL p the filter ke	present in the ASA	A configura	tion. When spe	ecified, it must	
	disable	Perfo	rms one of tw	vo functions, as f	follows:			
		• If you enter it after the "os-name," the ASA ignores the exemption, and applies NAC posture validation to the remote hosts that are running that operating system.						
			•	after the <i>acl-nan</i> ssign the ACL to			rating system,	
	filter			filter the traffic <i>ne</i> . The filter / <i>ac</i>			ng system	
	05	Exem	pts an operati	ing system from	posture va	lidation.		
	os name	-		name. Quotation or example, "Wi			if the name	
	No default behavior of The following table s		nodes in whic	ch you can enter	the comma	·		
				-	1	nd:		
Defaults Command Modes			nodes in whic	-	the comma	nd: Context		
				-	Security C	nd:	System	
	The following table s	shows the n	Firewall N	lode	Security C	nd: Context Multiple	System —	
Command Modes	The following table s Command Mode Nac-policy-nac-fram	shows the n	Firewall M Routed	lode	Security C Single	nd: Context Multiple	System —	
	The following table s Command Mode Nac-policy-nac-fram configuration	shows the n nework Modif	Firewall N Routed •	lode Transparent —	Security C Single	nd: Context Multiple	System —	

Usage Guidelines When the command specifies an operating system, it does not overwrite the previously added entry to the exception list; enter the command once for each operating system and ACL that you want to exempt. The no exempt-list command removes all exemptions from the NAC Framework policy. Specifying an entry when issuing the **no** form of the command removes the entry from the exemption list. To remove all entries from the exemption list associated with this NAC policy, use the **no** form of this command without specifying additional keywords. Examples The following example adds all hosts running Windows XP to the list of computers that are exempt from posture validation: hostname(config-group-policy)# exempt-list os "Windows XP" hostname(config-group-policy) The following example exempts all hosts running Windows XP and applies the ACL acl-1 to traffic from those hosts: hostname(config-nac-policy-nac-framework) # exempt-list os "Windows XP" filter acl-1 hostname(config-nac-policy-nac-framework) The following example removes the same entry from the exemption list: hostname(config-nac-policy-nac-framework)# no exempt-list os "Windows XP" filter acl-1 hostname(config-nac-policy-nac-framework) The following example removes all entries from the exemption list:

hostname(config-nac-policy-nac-framework)# no exempt-list
hostname(config-nac-policy-nac-framework)

Relatedommands	Command	Description
	debug nac	Enables logging of NAC Framework events.
	nac-policy	Creates and accesses a Cisco NAC policy, and specifies its type.
	nac-settings	Assigns a NAC policy to a group policy.
	show vpn-session.db	Displays information about VPN sessions, including NAC results.
	show vpn-session_summary.db	Displays the number of IPsec, Cisco AnyConnect, and NAC sessions.

To exit the current configuration mode, or to logout from privileged or user EXEC modes, use the **exit** command.

exit

Syntax Description This command has no arguments or keywords.

Defaults

No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security C	ontext	
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
User EXEC	•	•	•	•	•

Command History	Release	Modification
	7.0(1)	This command was introduced.

Usage Guidelines You can also use the key sequence **Ctrl+Z** to exit global configuration (and higher) modes. This key sequence does not work with privileged or user EXEC modes.

When you enter the **exit** command in privileged or user EXEC modes, you log out from the ASA. Use the **disable** command to return to user EXEC mode from privileged EXEC mode.

Examples

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The following example shows how to use the **exit** command to exit global configuration mode, then log out from the session:

hostname(config)# exit
hostname# exit

Logoff

The following example shows how to use the **exit** command to exit global configuration mode, then use the **disable** command to exit privileged EXEC mode:

hostname(config)# exit
hostname# disable
hostname#

Related Commands	Command	Description
	quit	Exits a configuration mode or logs out of the privileged or user EXEC modes.

expiry-time

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To configure an expiration time for caching objects without revalidating them, use the **expiry-time** command in cache configuration mode. To remove the expiration time from the configuration and reset it to the default value, use the **no** form of this command.

expiry-time time

no expiry-time

Syntax Description		<i>time</i> The amount of time in minutes that the ASA caches objects without revalidating them.						
Defaults	The default is 1 minute.							
Command Modes	The following table shows	the modes in whic	h you enter the	command:				
		Firewall N	lode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Cache configuration	•	_	•		_		
Command History	Release Modification							
	7.1(1)	This command was	s introduced.					
Usage Guidelines	The expiration time is the a it. Revalidation consists of			ASA caches	s an object with	nout revalidating		
Examples	The following example she hostname(config)# webvp hostname(config-webvpn) hostname(config-webvpn-	n # cache cache)#expiry-ti	-	with a value	e of 13 minutes			
Related Commands	hostname(config-webvpn-	cache) # Description						
	cache		on cache configu	ration mod	e.			
	cache-compressed	1	/ebVPN cache c					
	disable	Disables cacl		r				

Command	Description
Imfactor	Sets a revalidation policy for caching objects that have only the last-modified timestamp.
max-object-size	Defines the maximum size of an object to cache.
min-object-size	Defines the minimum sizze of an object to cache.

export

Γ

To specify the certificate to be exported to the client, use the **export** command in ctl-provider configuration mode. To remove the configuration, use the **no** form of this command.

export certificate trustpoint_name

no export certificate [trustpoint_name]

Syntax Description	certificate <i>trustpoint_name</i> Specifies the certificate to be exported to the client.						
Defaults	No default behavior or values.						
Command Modes	The following table shows the	modes in whic	h you can enter	the comma	nd:		
		Firewall N	lode	Security C	ontext		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Ctl-provider configuration	•	•	•			
Command History	Release Modification 8.0(2) This command was introduced.						
Jsage Guidelines	Use the export command in ct the client. The trustpoint name added to the CTL file compose	is defined by t	he crypto ca tru			-	
Examples	The following example shows hostname(config)# ctl-provide	how to create a der my_ctl er) # client i:	a CTL provider i	e 172.23.4			
Related Commands	hostname(config-ctl-provide hostname(config-ctl-provide hostname(config-ctl-provide	er)# export c	ertificate ccm_		password XX	XXXX encrypt	

	•
ctl	Parses the CTL file from the CTL client and install trustpoints.
ctl-provider	Configures a CTL provider instance in ctl-provider configuration mode.
client	Specifies clients allowed to connect to the CTL provider and the username and password for client authentication.

Commands	Description
service	Specifies the port to which the CTL provider listens.
tls-proxy	Defines a TLS proxy instance and sets the maximum sessions.

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export webvpn AnyConnect-customization

To export a customization object that customizes the AnyConnect client GUI, use the **export webvpn AnyConnect-customization** command in privileged EXEC mode:

export webvpn AnyConnect-customization type type platform platform name name

Syntax Description	name	The name that ident	tifies the cust	omization object	t. The maxin	mum number is	s 64 characters.	
	type	The type of custom	ization:					
	• binary—An executable that replaces the AnyConnect GUI.							
	• transform—A transform that customizes the MSI.							
	<i>url</i> Remote path and filename to export the XML customization object, in the form							
		URL/filename (the	maximum nu	mber is 255 cha	racters).			
Defaults	No default	behavior or values.						
Command Modes	The feller			1	41			
Command Wodes	The follow	ving table shows the m	lodes in whic	n you can enter	the comma	nd:		
			Firewall N	lode	Security C	ontext		
						Multiple		
	Command	Mode	Routed	Transparent	Single	Context	System	
	Privileged	EXEC	•	_	•		_	
Command History	Release	Modifica	ation					
ooniniana mistory	Release Would call of the second se							
	9.0(1) Support for multiple context mode was added.							
		11	1					
Usage Guidelines	GUI scree	nnect customization o ns for AnyConnect cli XML tags is created a	ent users. Wl	nen you export a		•		
	The XML file created by the customization object named <i>Template</i> contains empty XML tags, and provides the basis for creating new customization objects. This object cannot be changed or deleted from cache memory, but can be exported, edited, and imported back into the ASA as a new customization object.							
	The conter	nt of Template is the sa	ame as the in	itial DfltCustom	ization obje	ect state.		
	The content of <i>Template</i> is the same as the initial DfltCustomization object state. For a complete list of resource files used the AnyConnect GUI and their filenames, see the <i>AnyConnect VPN Client Administrator Guide</i> .							

Examples	The following example exports the Cisco logo used on the AnyConnect GUI:				
-	tftp://209.165.200.225/	'ustomization object 'DfltCustomization' was exported to			
Related Commands	Command	Description			
	import webvpn customization	Imports an XML file to cache memory as a customization object .			
	revert webvpn customization	Removes a customization object from cache memory.			
	show import webvpn customization	Displays information about customization objects resident in cache memory.			

export webvpn customization

Γ

To export a customization object that customizes screens visible to Clientless SSL VPN users, use the **export webvpn customization** command in privileged EXEC mode.

export webvpn customization name url

Syntax Description	name	The name that identifies the customization object. The maximum number is 64 characters.					
	url		d filename to expo ame (the maximur				
Defaults	No default behavior	or values.					
Command Modes	The following table s	shows the modes in	which you can ent	er the comm	and:		
		Firew	all Mode	Security	Context		
					Multiple		
	Command Mode	Route	d Transpare	nt Single	Context	System	
	Privileged EXEC	•		•			
	<u> </u>						
Command History	Release 8.0(2)	Modification This command v	· · · · · · · · · · · · · · · · · · ·				
Usage Guidelines	A customization obje to Clientless SSL VF languages. When you URL that you specify	N users, including l export a customiza	ogin and logout sc	reens, the po	ortal page, and	available	
	The XML file created by the customization object named <i>Template</i> contains empty XML tags, and provides the basis for creating new customization objects. This object cannot be changed or deleted from cache memory, but can be exported, edited, and imported back into the ASA as a new customization object.						
	The content of <i>Template</i> is the same as the initial DfltCustomization object state.						
	You can export a cus changes to the XML command.						
Examples	The following examp resulting XML file n hostname# export w	amed dflt_custom:		-			

!!!!!!!!!!!!!!!!INFO: Customization object 'DfltCustomization' was exported to
tftp://10.86.240.197/dflt_custom
hostname#

Related Commands	Command	Description
	import webvpn customization	Imports an XML file to cache memory as a customization object .
	revert webvpn customization	Removes a customization object from cache memory.
	show import webvpn customization	Displays information about customization objects resident in cache memory.

export webvpn plug-in

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To export a plug-in from the flash device of the ASA, enter the **export webvpn plug-in** command in privileged EXEC mode.

import webvpn plug-in protocol protocol URL

Syntax Description	protocol	• rdp				
		The Remote Desktop Protocol plug-in lets the remote user connect to a computer running Microsoft Terminal Services. Cisco redistributes this plug-in without any changes. The web site containing the original is http://properjavardp.sourceforge.net/.				
		• ssh,telnet				
		The Secure Shell plug-in lets the remote user establish a secure channel to a remote computer, or lets the remote user use Telnet to connect to a remote computer. Cisco redistributes this plug-in without any changes. The web site containing the original is http://javassh.org/.				
		\wedge				
		CautionThe export webvpn plug-in protocol ssh,telnet URL command exports both the SSH and Telnet plug-ins. Do not enter this command once for SSH and once for Telnet. When typing the ssh,telnet string, do not insert a space.				
		• vnc				
		The Virtual Network Computing plug-in lets the remote user use a monitor, keyboard, and mouse to view and control a computer with remote desktop sharing turned on. Cisco redistributes this plug-in without any changes. The web site containing the original is http://www.tightvnc.com/.				
	URL	Path to the remote device.				
Defaults	No default behav	or or values.				

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security C	Context		
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC mode	•	—	•	_	_	

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Command History	Release	Modification
	8.0(2)	This command was introduced.
Usage Guidelines	Exporting a plug- URL.	in does not remove it from flash. Exporting creates a copy of the plug-in at the specified
Examples	e	mmand exports the RDP plugin: t webvpn plug-in protocol rdp tftp://209.165.201.22/plugins/rdp-plugin.jar

Relatedommands	Command	Description
	import webvpn plugin	Imports a specified plug-in from a local device to the ASA flash.
	revert webvpn plug-in protocol	Removes the specified plug-in from the flash device of the ASA.
	show import webvpn plug-in	Lists the plug-ins present on the flash device of the ASA.

export webvpn mst-translation

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To export a Microsoft transform (MST) that translates the AnyConnect installer program, use the **export webvpn mst-translation** command in privileged EXEC mode:

export webvpn mst-translation component language language URL

Syntax Description	component The component to which this MST applies. The only valid choice is AnyConnect.						
	<i>language</i> The language code of the MST exported. Use the code in the same format that the browser requires.						
	URL	The remote path a maximum number			sform to, ir	n the form URI	<i>Ifilename</i> (the
Defaults	No default h	behavior or values.					
Jonung		chavior of values.					
Command Modes	The followin	ng table shows the	modes in whic	h you can enter	the comma	ınd:	
			Firewall N	lode	Security C	Context	
						Multiple	
	Command N	lode	Routed	Transparent Si	Single	Context	System
	privileged E	EXEC	•	—	•		
Command History	Release	Modifi	cation				
	8.0(2) This command was introduced.						
Usage Guidelines	program. Th alters the ins	AnyConnect client the ASA uses transfor stallation, but leave screens and do not	orms to transla s the original s	te the messages ecurity-signed N	displayed I ISI intact.	by the installer	. The transform
	Each language has its own transform. You can edit a transform with a transform editor such as Orca, and make changes to the message strings. Then you import the transform to the ASA. When the user downloads the client, the client detects the preferred language of the computer (the locale specified during installation of the operating system) and applies the appropriate transform.						
	downloads t	he client, the client	-	eferred language		-	
	downloads t during insta We currently	he client, the client	ting system) a for 30 language	eferred language nd applies the ap es. These transfo	opropriate t rms are ava	transform.	ale specified
	downloads t during insta We currently on the AnyC	he client, the client llation of the opera y offer transforms f	ting system) a for 30 language vare download	eferred language nd applies the ap es. These transfo page at cisco.co	opropriate t rms are ava	transform.	ale specified

Examples The following example exports the English language transform as AnyConnect_Installer_English: hostname# export webvpn mst-translation AnyConnect language es tftp://209.165.200.225/AnyConnect_Installer_English

Related Commands	Command	Description
	import webvpn customization	Imports an XML file to cache memory as a customization object .
	revert webvpn customization	Removes a customization object from cache memory.
	show import webvpn customization	Displays information about customization objects resident in cache memory.

Cisco ASA Series Command Reference

export webvpn translation-table

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To export a translation table used to translate terms displayed to remote users establishing SSL VPN connections, use the **export webvpn translation-table** command in privileged EXEC mode.

export webvpn translation-table translation_domain {language | template} url

Syntax Description	language	Specifies the name of a previously imported translation table. Enter the value in the manner expressed by your browser language options.						
	translation_domain		rea and associated i			available		
		translation doma						
	url	Specifies the URL of the object.						
Defaults	No default behavior or	values.						
Command Modes	The following table sh	lows the modes in w	hich you can enter	the comma	ind:			
		Firewal	l Mode	Security (Context			
				-	Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	rivileged EXEC	•		•		_		
Command History	Release Modification							
	8.0(2)	This command wa	s introduced.					
Usage Guidelines	The ASA provides lan	guage translation fo						
-	browser-based, clientle VPN Client users.		-	-	•			
-	browser-based, clientle	ess SSL VPN connect nd its messages that the <i>translation_don</i>	are visible to remo	e user inter ote users ha	rface displayed s its own trans	to AnyConnec		
J	browser-based, clientle VPN Client users. Each functional area a which are specified by	ess SSL VPN connect nd its messages that the <i>translation_don</i> anslated.	are visible to remo	e user inter ote users ha le 20-1 sho	rface displayed is its own trans ws the translati	to AnyConnec lation domain, ion domains and		
J	browser-based, clientle VPN Client users. Each functional area a which are specified by	ess SSL VPN connect nd its messages that the <i>translation_don</i> anslated.	ctions, as well as th are visible to remo <i>nain</i> argument. Table	e user inter ote users ha le 20-1 sho	rface displayed is its own trans ws the translati	to AnyConnec lation domain, ion domains and		
·	browser-based, clientle VPN Client users. Each functional area a which are specified by the functional areas tra	ess SSL VPN connect nd its messages that the <i>translation_dom</i> anslated. Table 20-1 Tran	ctions, as well as th are visible to remo <i>aain</i> argument. Tabl aslation Domains a ranslated	te user inter ote users ha le 20-1 sho	rface displayed is its own trans ws the translati	to AnyConnec lation domain, on domains and cted		
J	browser-based, clientle VPN Client users. Each functional area a which are specified by the functional areas tra Translation Domain	ess SSL VPN connect nd its messages that the <i>translation_don</i> anslated. Table 20-1 Tran Functional Areas T Messages displaye Client.	ctions, as well as th are visible to remo <i>aain</i> argument. Tabl aslation Domains a ranslated	te user inter ote users ha le 20-1 sho and Function face of the	rface displayed s its own trans ws the translati mal Areas Affe Cisco AnyCon	to AnyConnec lation domain, ion domains and cted nect VPN		

Cisco ASA Series Command Reference

Translation Domain	Functional Areas Translated
customization	Messages on the login and logout pages, portal page, and all the messages customizable by the user.
plugin-ica	Messages for the Citrix plug-in.
plugin-rdp	Messages for the Remote Desktop Protocol plug-in.
plugin-telnet,ssh	Messages for the Telnet and SSH plug-in.
plugin-vnc	Messages for the VNC plug-in.
PortForwarder	Messages displayed to Port Forwarding users.
url-list	Text that user specifies for URL bookmarks on the portal page.
webvpn	All the layer 7, AAA, and portal messages that are not customizable.

A translation template is an XML file in the same format as the translation table, but has all the translations empty. The software image package for the ASA includes a template for each domain that is part of the standard functionality. Templates for plug-ins are included with the plug-ins and define their own translation domains. Because you can customize the login and logout pages, portal page, and URL bookmarks for clientless users, the ASA generates the customization and url-list translation domain templates dynamically, and the template automatically reflects your changes to these functional areas.

Exporting a previously-imported translation table creates an XML file of the table at the URL location. You can view a list of available templates and previously-imported tables using the **show import webvpn translation-table** command.

Download a template or translation table using the **export webvpn translation-table** command, make changes to the messages, and import the translation table using the **import webvpn translation-table** command.

Examples

The following example exports a template for the translation domain *customization*, which is used to translate the login and logout pages, portal page, and all the messages customizable and visible to remote users establishing clientless SSL VPN connections. The ASA creates the XML file with the name *Sales*:

The following example exports a previously imported translation table for the Chinese language named zh, an abbreviation compatible with the abbreviation specified for Chinese in the Internet Options of the Microsoft Internet Explorer browser. The ASA creates the XML file with the name *Chinese*:

Related Commands	Command	Description		
	import webvpn translation-table	Imports a translation table.		

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revert	Removes translation tables from cache memory.
show import webvpn translation-table	Displays information about imported translation tables.

export webvpn url-list

To export a URL list to a remote location, use the **export webvpn url-list** command in privileged EXEC mode.

export webvpn url-list name url

Syntax Description	name	The name th	nat identifies the	URL list. The m	aximum in	umber is 64 ch	aracters.	
	<i>url</i> The remote path to the source of the URL list. The maximum number is 255 characte						255 characters	
Defaults	No default be	ehavior or value	·8.					
Command Modes	The following table shows the modes in which you can enter the command:							
			Firewall N	lode	Security (ontext		
						Multiple		
	Command M		Routed	Transparent	Single	Context	System	
	Privileged EXEC	XEC	•		•			
Command History	Release Modification							
	8.0(2) This command was introduced.							
Usage Guidelines	No URL lists are present in WebVPN by default.							
	An object, Template, is available for downloading with the export webvpn url-list command. The Template object cannot be changed or deleted. The contents of the Template object can be edited and saved as a custom URL list, and imported with the import webvpn url-list command to add a custom URL list.							
		g a previously imported URL list creates an XML file of the list at the URL location. You can t of available templates and previously imported tables using the show import webvpn url-list d.						
Examples	The following example exports a URL list, servers:							
Examples	The followin	g example expo	orts a URL list, <i>se</i>	ervers:				

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Related Commands	Command	Description		
	import webvpn url-list	Imports a URL list.		
revert webvpn url-list show import webvpn url-list		Removes URL lists from cache memory.		
		Displays information about imported URL lists.		

export webvpn webcontent

To export previously imported content in flash memory that is visible to remote Clientless SSL VPN users, use the **export webvpn webcontent** command in privileged EXEC mode.

export webvpn webcontent source url destination url

Syntax Description	destination url	<i>destination url</i> The URL to export to. The maximum number is 255 characters.							
	source urlThe URL in the ASA flash memory in which the content resides. The maxim number is 64 characters.					The maximum			
Defaults	No default behavio	or or values.							
Command Modes	The following tabl	e shows the m	nodes in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security Context				
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Privileged EXEC		•		•				
Command History	Release	Release Modification							
	8.0(2) This command was introduced.								
Usage Guidelines	Content exported with the webcontent option is content visible to remote clientless users. This includes previously imported help content visible on the clientless portal and logos used by customization objects								
	You can see a list of content available for export by entering a question mark (?) after the export webvpn webcontent command. For example:								
	hostname# export webvpn webcontent ?								
	Select webconten /+CSCOE+/help/ /+CSCOU+/cisco	en/app-acces	s-hlp.inc						
Examples	The following example exports the file <i>logo.gif</i> , using TFTP, to 209.165.200.225, as the filename <i>logo_copy.gif</i> :								
	<pre>hostname# export webvpn webcontent /+CSCOU+/logo.gif tftp://209.165.200.225/logo_copy.gif !!!!* Web resource `/+CSCOU+/logo.gif' was successfully initialized</pre>								

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Related Commands	Command	Description			
	import webvpn webcontent	Imports content visible to Clientless SSL VPN users.			
revert webvpn webcontent show import webvpn webcontent		Removes content from flash memory.			
		Displays information about imported content.			

export webvpn webcontent

