



client access rule through crl configure Commands

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client-access-rule

To configure rules that limit the remote access client types and versions that can connect via IPSec through the security appliance, use the **client-access-rule** command in group-policy configuration mode. To delete a rule, use the **no** form of this command.

To delete all rules, use the **no client-access-rule command** with only the priority argument. This deletes all configured rules, including a null rule created by issuing the **client-access-rule none** command.

When there are no client access rules, users inherit any rules that exist in the default group policy. To prevent users from inheriting client access rules, use the **client-access-rule none** command. The result of doing so is that all client types and versions can connect.

client-access-rule priority {permit | deny} type type version version | none

no client-access-rule *priority* [{**permit** | **deny**} **type** *type* **version** *version*]

Syntax Description	deny	Denie	Denies connections for devices of a particular type and/or version.						
	none	Allows no client access rules. Sets client-access-rule to a null value, thereby allowing no restriction. Prevents inheriting a value from a default or specified group policy.							
	permit Permits connections for devices of a particular type and/or version.								
	priority Determines the priority of the rule. The rule with the lowest integer has the highest priority. Therefore, the rule with the lowest integer that matches a client type and/or version is the rule that applies. If a lower priority rule contradicts, the security appliance ignores it.								
	type typeIdentifies device types via free-form strings, for example VPN 3002. A string must match exactly its appearance in the show vpn-sessiondb remote display, except that you can use the * character as a wildcard.								
	version version	must i	match exactly	e version via free its appearance you can use the	in the shov	v vpn-sessiond	lb remote		
Defaults	By default, there are no access rules.								
Command Modes	The following table s	shows the m	nodes in which	h you can enter	the comma	nd:			
			Firewall Mode		Security C	ontext			
						Multiple			
	Command Mode	Command Mode		Transparent	Single	Context	System		
	Group-policy config	uration	•	—	•	—	—		
Command History	Delesse	Modif	ication						
Command History	Release	moun	loution						

Usage Guidelines	Construct rules according to these caveats:
	• If you do not define any rules, the security appliance permits all connection types.
	• When a client matches none of the rules, the security appliance denies the connection. This means that if you define a deny rule, you must also define at least one permit rule, or the security appliance denies all connections.
	• For both software and hardware clients, type and version must match exactly their appearance in the show vpn-sessiondb remote display.
	• The * character is a wildcard, which you can use multiple times in each rule. For example, client-access-rule 3 deny type * version 3.* creates a priority 3 client access rule that denies all client types running release versions 3.x software.
	• You can construct a maximum of 25 rules per group policy.
	• There is a limit of 255 characters for an entire set of rules.
	• You can use n/a for clients that do not send client type and/or version.
Examples	The following example shows how to create client access rules for the group policy named FirstGroup. These rules permit VPN Clients running software version 4.1, while denying all VPN 3002 hardware clients:
	hostname(config)# group-policy <i>FirstGroup</i> attributes hostname(config-group-policy)# client-access-rule 1 d t VPN3002 v * hostname(config-group-policy)# client-access-rule 2 p * v 4.1

client (ctl-provider)

To specify clients allowed to connect to the Certificate Trust List provider, or to specify a username and password for client authentication, use the **client** command in CTL provider configuration mode. To remove the configuration, use the **no** form of this command.

client [[interface *if_name*] *ipv4_addr*] | [username user_name password password [encrypted]]

no client [[interface if_name] ipv4_addr] | [username user_name password password
 [encrypted]]

Syntax Description	encrypted Specifies encryption for the password.								
	interface if_name	Specifies th	ne interface allowe	ed to connec	t.				
	ipv4_addr	Specifies th	ne IP address of th	e client.					
	username user_name	Specifies th	ne username for cl	ient authenti	cation.				
	password passwordSpecifies the password for client authentication.								
Defaults	No default behavior or va	alues.							
Command Modes	The following table show	vs the modes in w	vhich you can ente	r the comma	and:				
		Firewall Mode		Security	Context				
					Multiple				
	Command Mode	Routed	Transparen	t Single	Context	System			
	CTL provider configurat	ion •	•	•	•				
Command History	Release Modification								
	8.0(2)	This command	was introduced.						
Usage Guidelines	Use the client command in CTL provider configuration mode to specify the clients allowed to connect to the CTL provider, and to set the username and password for client authentication. More than one command may be issued to define multiple clients. The username and password must match the CCM Administrator's username and password for the CallManager cluster.								
Examples	The following example shows how to create a CTL provider instance:								
	hostname(config)# ctl - hostname(config-ctl-pr hostname(config-ctl-pr hostname(config-ctl-pr hostname(config-ctl-pr	covider)# client covider)# client covider)# export	t interface insi t username CCMAd t certificate co	ministrator		XXXX encrypted			

Related Commands	1	
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Commands	Description					
ctl	Parses the CTL file from the CTL client and install trustpoints.					
ctl-provider	Configures a CTL provider instance in CTL provider mode.					
export	Specifies the certificate to be exported to the client					
service	Specifies the port to which the CTL provider listens.					
tls-proxy	Defines a TLS proxy instance and sets the maximum sessions.					

client (tls-proxy)

To configure trustpoints, keypairs, and cipher suites, use the client command in TLS proxy configuration mode. To remove the configuration, use the **no** form of this command.

client [cipher-suite cipher_suite] | [ldc [issuer ca_tp_name | key-pair key_label]]

no client [**cipher-suite** *cipher_suite*] | [**ldc** [**issuer** *ca_tp_name* | **key-pair** *key_label*]

Syntax Description	cipher-suite cipher_suite	suite cipher_suiteSpecifies the cipher suite. Options include des-sha1, 3des-sha1, aes128-sha1, aes256-sha1, or null-sha1.							
	issuer ca_tp_name	Specifies the lo	ocal CA trustpoi	int to issue	client dynamic	c certificates.			
	keypair key_label	Specifies the R	RSA keypair to b	e used by a	client dynamic	certificates.			
	Idc Specifies the local dynamic certificate issuer or keypair.								
Defaults	No default behavior or value	es.							
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			
	TLS proxy configuration	•	•	•	•				
	<u> </u>								
Command History	Release Modification 8.0(2) This command was introduced.								
	8.0(2) T		s miroduced.						
Usage Guidelines	Use the client command in TLS proxy configuration mode to control the TLS handshake parameters for the security appliance as the TLS client role in TLS proxy. This includes cipher suite configuration, or to set the local dynamic certificate issuer or keypair. The local CA to issue client dynamic certificates is defined by the crypto ca trustpoint command and the trustpoint must have proxy-ldc-issuer configured, or the default local CA server (LOCAL-CA-SERVER).								
	The keypair value must have been generated with the crypto key generate command.								
	For client proxy (the proxy acts as a TLS client to the server), the user-defined cipher suite replaces the default cipher suite, or the one defined by the ssl encryption command. You can use this command to achieve difference ciphers between the two TLS sessions. You should use AES ciphers with the CallManager server.								
Examples									

hostname(config-tlsp)# server trust-point ccm_proxy hostname(config-tlsp)# client ldc issuer ldc_server hostname(config-tlsp)# client ldc keypair phone_common

Related Commands	Commands	Description					
	ctl-provider	Defines a CTL provider instance and enters provider configuration m					
	server trust-point	Specifies the proxy trustpoint certificate to be presented during the TLS handshake.					
	show tls-proxy	Shows the TLS proxies.					
	tls-proxy	Defines a TLS proxy instance and sets the maximum sessions.					

client-firewall

To set personal firewall policies that the security appliance pushes to the VPN client during IKE tunnel negotiation, use the **client-firewall** command in group-policy configuration mode. To delete a firewall policy, use the **no** form of this command.

To delete all firewall policies, use the **no client-firewall** command without arguments. This deletes all configured firewall policies, including a null policy created by issuing the **client-firewall none** command.

When there are no firewall policies, users inherit any that exist in the default or other group policy. To prevent users from inheriting such firewall policies, use the **client-firewall none** command.

client-firewall none

client-firewall {opt | req} custom vendor-id *num* product-id *num* policy {AYT | CPP acl-in *acl* acl-out *acl*} [description *string*]

client-firewall {opt | req } zonelabs-integrity



When the firewall type is **zonelabs-integrity**, do not include arguments. The Zone Labs Integrity Server determines the policies.

client-firewall {opt | req} zonelabs-zonealarm policy {AYT | CPP acl-in acl acl-out acl }

client-firewall {opt | req} zonelabs-zonealarmorpro policy {AYT | CPP acl-in acl acl-out acl }

- client-firewall {opt | req} zonelabs-zonealarmpro policy {AYT | CPP acl-in acl acl-out acl }
- client-firewall {opt | req} cisco-integrated acl-in acl acl-out acl}

client-firewall {opt | req} sygate-personal

client-firewall {opt | req} sygate-personal-pro

client-firewall {opt | req} sygate-personal-agent

client-firewall {opt | req} networkice-blackice

client-firewall {opt | req} cisco-security-agent

Syntax Description	acl-in <acl></acl>	Provides the policy the client uses for inbound traffic.					
	acl-out <acl></acl>	Provides the policy the client uses for outbound traffic.					
	AYT	Specifies that the client PC firewall application controls the firewall policy. The security appliance checks to make sure the firewall is running. It asks, "Are You There?" If there is no response, the security appliance tears down the tunnel.					
	cisco-integrated	Specifies Cisco Integrated firewall type.					
	cisco-security-agent	Specifies Cisco Intrusion Prevention Security Agent firewall type.					
	СРР	Specifies Policy Pushed as source of the VPN Client firewall policy.					
	custom	Specifies Custom firewall type.					

	description <i><string></string></i>	Describes th	ne firewall.				
	networkice-blackice	Specifies Network ICE Black ICE firewall type.					
	none	Indicates that there is no client firewall policy. Sets a firewall policy with a null value, thereby disallowing one. Prevents inheriting a firewall policy from a default or specified group policy.					
	opt	Indicates an	optional firewa	ll type.			
	product-id	Identifies th	e firewall produ	ict.			
	req	Indicates a r	required firewal	l type.			
	sygate-personal	Specifies Sy	ygate Personal f	irewall type	е.		
	sygate-personal-pro	Specifies Sygate Personal Pro firewall type.					
	sygate-security-agent	Specifies Sygate Security Agent firewall type.					
	vendor-id	Identifies the firewall vendor.					
	zonelabs-integrity	nelabs-integrity Specifies Zone Labs Integrity Server firewall type.					
	zonelabs-zonealarm	Specifies Zone Labs Zone Alarm firewall type.					
	zonelabs-zonealarmorpro policy		to firewall type	2.			
	zonelabs-zonealarmpro policy	Specifies Zo	one Labs Zone A	Alarm Pro f	firewall type.		
	No default behavior or values.						
Defaults Command Modes	No default behavior or values. The following table shows the ma			1			
		odes in which		the comma	ontext		
	The following table shows the m	Firewall M	ode	Security C	ontext Multiple		
	The following table shows the mo			1	ontext	System	
	The following table shows the m	Firewall M	ode	Security C	ontext Multiple	System —	
Command Modes	The following table shows the main of the following table shows table shows the main of the following table shows tabl	Firewall M Routed	ode	Security C Single	ontext Multiple	System —	
Command Modes	The following table shows the me Command Mode Group-policy configuration Release Modifi	Firewall M Routed • cation	ode Transparent —	Security C Single	ontext Multiple	System —	
Command Modes	Command Mode Group-policy configuration Release Modifi 7.0(1) This contraction	Firewall M Routed • cation	ode Transparent — introduced.	Security C Single •	Context Multiple Context	System —	
Command Modes	Command Mode Group-policy configuration Release Modifi 7.0(1) This contraction	Firewall M Routed • cation	ode Transparent —	Security C Single •	Context Multiple Context	System 	
Command Modes	Command Mode Group-policy configuration Release Modifi 7.0(1) This contraction	Firewall M Routed • cation	ode Transparent — introduced.	Security C Single •	Context Multiple Context	System 	
Command Modes	Command Mode Group-policy configuration Release Modifi 7.0(1) This contraction	Firewall M Routed • cation ommand was onelabs-integ	ode Transparent — introduced. grity firewall typ	Security C Single •	Context Multiple Context	System 	
	Command Mode Group-policy configuration Release Modifi 7.0(1) This control of the policy 7.2(1) The policy	Firewall Market Routed Routed Cation ommand was onelabs-integ and can be con w to set a clie	ode Transparent 	Security C Single •	ed.		

client trust-point

To specify the proxy trustpoint certificate to be presented during TLS handshake when configuring the TLS Proxy for Cisco Unified Presence Server (CUPS), use the **client trust-point** command in tls-proxy configuration mode. To remove the proxy trustpoint certificate, use the **no** form of this command.

client trust-point proxy_trustpoint

no client trust-point [proxy_trustpoint]

Syntax Description	proxy_trustpoint S	pecifies the trustpo	int defined by th	e crypto ca	a trustpoint co	ommand.		
Defaults	No default behavior or va	lues.						
Command Modes	The following table show	s the modes in whic	ch you can enter	the comma	and:			
		Firewall N	lode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	TLS proxy configuration	•	•	•	•			
Command History		lodification he command was in	ntroduced.					
Usage Guidelines	The client trust-point command specifies the trustpoint and associated certificate that the securi appliance uses in the TLS handshake when the security appliance assumes the role of the TLS of The certificate must be owned by the security appliance (identity certificate). The certificate can be self-signed, enrolled with a certificate authority, or from an imported cred The client trust-point command has precedence over the global ssl trust-point command.							
Examples	The following example shows the use of the client trust-point command to specify the use "ent_y_proxy" in the TLS handshake with the TLS server. The handshake is likely to be or entity Y to entity X where the TLS server resides. The ASA functions as the TLS proxy the hostname(config-tlsp)# client trust-point ent_y_proxy							

Related Commands

Command	Description
client (tls-proxy)	Configures trustpoints, keypairs, and cipher suites for a TLS proxy instance.
server trust-point	Specifies the proxy trustpoint certificate to present during the TLS handshake when the security appliance assumes the role of the TLS server.
ssl trust-point	Specifies the certificate trustpoint that represents the SSL certificate for an interface.
tls-proxy	Configures a TLS proxy instance.

client-types (crypto ca trustpoint)

To specify the client connection types for which this trustpoint can be used to validate the certificates associated with a user connection, use the **client-types command** in crypto ca trustpoint configuration mode. To specify that the trustpoint cannot be used for the named connection, use the **no** form of the command.

[no] client-types {ssl | ipsec}

Syntax Description	ipsec Specifies that the Certificate Authority (CA) certificate and policy associated with the trustpoint can be used to validate IPSec connections.							
	ssl S	pecifies that the		hority (CA)	certificate and po			
Defaults	No default value or beha	vior.						
Command Modes	The following table sho	ws the modes i	n which you car	n enter the co	ommand:			
Command History								
		Firewall N	lode	Security Co				
					Multiple	Multiple		
	Command Mode	Routed	Transparent	Single	Context	System		
	Crypto ca trustpoint configuration	•	•	•	•			
	Release	Modification	1					
	8.0(2)	This comma	nd was introduc	ed.				
Usage Guidelines	When there are multiple can be configured for a client type and the othe	specific client	type. However,	one of the tr		1		
	If there is a trustpoint a type, the new trustpoint of the command clears	is not allowed	to be configured	l with the sau	me client-type se	tting. The no forn		
	Remote-access VPNs ca on deployment requiren							

Examples	The following example en designates it an SSL trust	ters crypto ca trustpoint configuration mode for trustpoint, central, and point:					
	hostname(config)# crypto ca trustpoint central hostname(config-ca-trustpoint)# client-types ssl hostname(config-ca-trustpoint)#						
	The following example enters crypto ca trustpoint configuration mode for trustpoint, checkin1, and designated it as an IPsec trustpoint.						
		co ca trustpoint checkin1 stpoint)# client-types ipsec stpoint)#					
Related Commands	Command	Description					
	crypto ca trustpoint	Enters trustpoint configuration mode					

crypto ca trustpoint	Enters trustpoint configuration mode.
id-usage	Specifies how the enrolled identity of a trustpoint can be used
ssl trust-point	Specifies the certificate trustpoint that represents the SSL certificate for an interface.

client-update

To issue a client-update for all active remote VPN software and hardware clients and security appliances configured as Auto Update clients, on all tunnel-groups or for a particular tunnel group, use the **client-update** command in privileged EXEC mode.

To configure and change client-update parameters at the global level, including VPN software and hardware clients and security appliances configured as Auto Update clients, use the **client-update** command in global configuration mode.

To configure and change client-update tunnel-group IPSec-attributes parameters for VPN software and hardware clients, use the **client-update** command in tunnel-group ipsec-attributes configuration mode.

If the client is already running a software version on the list of revision numbers, it does not need to update its software. If the client is not running a software version on the list, it should update.

To disable a client update, use the **no** form of this command.

Global configuration mode command:

client-update {enable | component {asdm | image} | device-id dev_string |
family family_name | type type } url url-string rev-nums rev-nums}

no client-update {enable | component {asdm | image} | device-id dev_string |
family family_name | type type } url url-string rev-nums rev-nums}

Tunnel-group ipsec-attributes mode command:

client-update type type url url-string rev-nums rev-nums

no client-update type type url url-string rev-nums rev-nums

Privileged EXEC mode command:

client-update {all | tunnel-group}

no client-update tunnel-group

all	(Available only in privileged EXEC mode.) Applies the action to all active remote clients in all tunnel groups. You cannot use the keyword all with the no form of the command.
component {asdm image}	The software component for security appliances configured as Auto Update clients.
device-id <i>dev_string</i>	If the Auto Update client is configured to identify itself with a unique string, specify the same string that the client uses. The maximum length is 63 characters.
enable	(Available only in global configuration mode). Enables remote client software updates.
family family_name	If the Auto Update client is configured to identify itself by device family, specify the same device family that the client uses. It can be asa, pix, or a text string with a maximum length of 7 characters.
	component {asdm image} device-id dev_string enable

rev-nums rev-nums	(Not available in privileged EXEC mode.) Specifies the software or firmware images for this client. For Windows, WIN9X, WinNT, and vpn3002 clients, enter up to 4, in any order, separated by commas. For security appliances, only one is allowed. The maximum length of the string is 127 characters.
tunnel-group	(Available only in privileged EXEC mode.) Specifies the name of a valid tunnel-group for remote client update.
type type	(Not available in privileged EXEC mode.) Specifies the operating systems of remote PCs or the type of security appliances (configured as Auto Update clients) to notify of a client update. The list comprises the following:
	• asa5505: Cisco 5505 Adaptive Security Appliance
	• asa5510: Cisco 5510 Adaptive Security Appliance
	• asa5520: Cisco 5520 Adaptive Security Appliance
	• asa5540: Cisco Adaptive Security Appliance
	linux: A Linux client
	• mac: MAC OS X client
	• pix-515: Cisco PIX 515 Firewall
	• pix-515e: Cisco PIX 515E Firewall
	• pix-525: Cisco PIX 525 Firewall
	• pix-535: Cisco PIX 535 Firewall
	• Windows: all windows-based platforms
	• WIN9X: Windows 95, Windows 98, and Windows ME platforms
	• WinNT: Windows NT 4.0, Windows 2000, and Windows XP platforms
	• vpn3002: VPN 3002 hardware client
	• A text string of up to 15 characters
url url-string	(Not available in privileged EXEC mode.) Specifies the URL for the software/firmware image. This URL must point to a file appropriate for this client. The maximum string length is 255 characters.

Defaults

No default behavior or values.

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

	Firewall Mode		Security Context			
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•		•	_		
Global configuration	•		•	_		
Tunnel-group ipsec-attributes configuration	•		•	_		

Command History	Release	Modification
	7.0(1)	This command was introduced.
	7.1(1)	Added tunnel-group ipsec-attributes configuration mode.
	7.2(1)	Added the component , device-id , and family keywords and their arguments to support the security appliance configured as an Auto Update server.
Usage Guidelines	In tunnel-group i remote-access tu	psec-attributes configuration mode, you can apply this attribute only to the IPSec nnel-group type.
	clients to which t the case of Windo For Windows clie Hardware Client	the command lets you enable the update; specify the types and revision numbers of the update applies; provide a URL or IP address from which to get the update; and, in pows clients, optionally notify users that they should update their VPN client version. Then the update occurs and the update occurs automatically, with no notification. When the client type is appliance, this security appliance acts as an Auto Update server.
	To configure the	client-update mechanism, do the following steps:
Step 1	In global configu	ration mode, enable client update by entering the command:
	hostname(config hostname(config)# client-update enable)#
Step 2	all clients of a pa to get the updated image. In addition of the specified re	ration mode, configure the parameters for the client update that you want to apply to rticular type. That is, specify the type of client and the URL or IP address from which d image. For Auto Update clients, specify the software component—ASDM or boot n, you must specify a revision number. If the user's client revision number matches one evision numbers, there is no need to update the client. This command configures the ameters for all clients of the specified type across the entire security appliance. For
	hostname(config hostname(config)# client-update type windows url https://support/updates/ rev-nums 4.6.1)#
	See the Examples client.	s section for an illustration of configuring a tunnel group for a VPN 3002 hardware
Note		clients and Auto Update clients, you must use the protocol "http://" or "https://" as the L. For the VPN3002 Hardware Client, you must specify protocol "tftp://" instead.
•		Windows clients and VPN3002 Hardware Clients, you can configure client update just anel-groups, rather than for all clients of a particular type. (See Step 3.)
Note		browser automatically start an application by including the application name at the end example: https://support/updates/vpnclient.exe.
Step 3	ipsec-ra tunnel gr	habled client update, you can define a set of client-update parameters for a particular roup. To do this, in tunnel-group ipsec-attributes mode, specify the tunnel-group name the URL or IP address from which to get the updated image. In addition, you must

specify a revision number. If the user's client revision number matches one of the specified revision numbers, there is no need to update the client; for example, to issue a client update for all Windows clients:

```
hostname(config)# tunnel-group remotegrp type ipsec-ra
hostname(config)# tunnel-group remotegrp ipsec-attributes
hostname(config-tunnel-ipsec)# client-update type windows url https://support/updates/
rev-nums 4.6.1
hostname(config-tunnel-ipsec)#
```

See the Examples section for an illustration of configuring a tunnel group for a VPN 3002 hardware client. VPN 3002 clients update without user intervention, and users receive no notification message.

Step 4 Optionally, you can send a notice to active users with outdated Windows clients that their VPN client needs updating. For these users, a pop-up window appears, offering the opportunity to launch a browser and download the updated software from the site specified in the URL. The only part of this message that you can configure is the URL. (See Step 2 or 3.) Users who are not active get a notification message the next time they log on. You can send this notice to all active clients on all tunnel groups, or you can send it to clients on a particular tunnel group. For example, to notify all active clients on all tunnel groups, you would enter the following command in privileged EXEC mode:

```
hostname# client-update all
hostname#
```

If the user's client revision number matches one of the specified revision numbers, there is no need to update the client, and users receive no notification message. VPN 3002 clients update without user intervention and users receive no notification message.



If you specify the client-update type as **windows** (specifying all Windows-based platforms) and later want to enter a client-update type of **win9x** or **winnt** for the same entity, you must first remove the windows client type with the **no** form of the command, then use new client-update commands to specify the new client types.

Examples

The following example, entered in global configuration mode, enables client update for all active remote clients on all tunnel groups:

hostname(config)# client-update enable
hostname#

The following example applies only to Windows (win9x, winnt, or windows). Entered in global configuration mode, it configures client update parameters for all Windows-based clients. It designates the revision number, 4.7 and the URL for retrieving the update, which is https://support/updates.

hostname(config)# client-update type windows url https://support/updates/ rev-nums 4.7
hostname(config)#

The following example applies only to VPN 3002 Hardware Clients. Entered in tunnel-group ipsec-attributes configuration mode, it configures client update parameters for the IPSec remote-access tunnel-group "salesgrp". It designates the revision number, 4.7 and uses the TFTP protocol for retrieving the updated software from the site with the IP address 192.168.1.1:

```
hostname(config)# tunnel-group salesgrp type ipsec-ra
hostname(config)# tunnel-group salesgrp ipsec-attributes
hostname(config-tunnel-ipsec)# client-update type vpn3002 url tftp:192.168.1.1 rev-nums
4.7
```

hostname(config-tunnel-ipsec)#

The following example shows how to issue a client update for clients that are Cisco 5520 Adaptive Security Appliances configured as Auto Update clients:

hostname(config)# client-update type asa5520 component asdm url http://192.168.1.114/aus/asdm501.bin rev-nums 7.2(1)

The following example, entered in privileged EXEC mode, sends a client-update notification to all connected remote clients in the tunnel group named "remotegrp" that need to update their client software. Clients in other groups do not get an update notification:

hostname# **client-update remotegrp** hostname#

Related Commands	Command	Description			
	clear configure client-update	Clears the entire client-update configuration.			
	show running-config client-update	Shows the current client-update configuration.			
	tunnel-group ipsec-attributes	Configures the tunnel-group ipsec-attributes for this group.			

clock set

To manually set the clock on the security appliance, use the **clock set** command in privileged EXEC mode.

clock set hh:mm:ss {month day | day month} year

Syntax Description	day	<i>day</i> Sets the day of the month, from 1 to 31. You can enter the day and month as april 1 or as 1 april , for example, depending on your standard date format.					
	<i>hh:mm:ss</i> Sets the hour, minutes, and seconds in 24-hour time. For example, set 20:54:00 for 8:54 pm.						
	month	Sets the month. Depending on your standard date format, you can enter the day and month as april 1 or as 1 april .					
	year	Sets the yea 2035.	ar using	four digits, for e	example, 20	004. The year r	ange is 1993 to
Defaults	No default behavior	or values.					
Command Modes	The following table	shows the modes	in whic	h you can enter	the comma	nd:	
		Fir	ewall N	lode	Security C	ontext	
						Multiple	
	Command Mode	Ro	uted	Transparent	Single	Context	System
	Privileged EXEC	•		•	•	—	•
Command History	Release	Modificatio	n				
	Preexisting This command was preexisting.						
Usage Guidelines	If you have not enter command is UTC. I timezone command clock set command	f you change the t l, the time automa	time zon tically a h the tin	e after you ente djusts to the new ne zone with the	r the clock v time zone	set command e. However, if gezone comman	using the clocl you enter the

command. To reset the clock, you need to set a new time for the clock set command.

Examples

The following example sets the time zone to MST, the daylight saving time to the default period in the U.S., and the current time for MDT to 1:15 p.m. on July 27, 2004:

```
hostname(config)# clock timezone MST -7
hostname(config)# clock summer-time MDT recurring
hostname(config)# exit
hostname# clock set 13:15:0 jul 27 2004
hostname# show clock
13:15:00.652 MDT Tue Jul 27 2004
```

The following example sets the clock to 8:15 on July 27, 2004 in the UTC time zone, and then sets the time zone to MST and the daylight saving time to the default period in the U.S. The end time (1:15 in MDT) is the same as the previous example.

```
hostname# clock set 20:15:0 jul 27 2004
hostname# configure terminal
hostname(config)# clock timezone MST -7
hostname(config)# clock summer-time MDT recurring
hostname# show clock
13:15:00.652 MDT Tue Jul 27 2004
```

Related Commands

Command	Description
clock summer-time	Sets the date range to show daylight saving time.
clock timezone	Sets the time zone.
show clock	Shows the current time.

clock summer-time

To set the date range for daylight saving time for the display of the security appliance time, use the **clock summer-time** command in global configuration mode. To disable the daylight saving time dates, use the **no** form of this command.

- **clock summer-time** zone **recurring** [week weekday month hh:mm week weekday month hh:mm] [offset]
- **no clock summer-time** [zone **recurring** [week weekday month hh:mm week weekday month hh:mm] [offset]]
- clock summer-time zone date {day month | month day} year hh:mm {day month | month day} year hh:mm [offset]
- **no clock summer-time** [zone **date** {day month | month day} year hh:mm {day month | month day} year hh:mm [offset]]

Syntax Description	date	Specifies the start and end dates for daylight saving time as a specific date in
		a specific year. If you use this keyword, you need to reset the dates every year.
	day	Sets the day of the month, from 1 to 31. You can enter the day and month as April 1 or as 1 April , for example, depending on your standard date format.
	hh:mm	Sets the hour and minutes in 24-hour time.
	month	Sets the month as a string. For the date command, you can enter the day and month as April 1 or as 1 April , for example, depending on your standard date format.
	offset	(Optional) Sets the number of minutes to change the time for daylight saving time. By default, the value is 60 minutes.
	recurring	Specifies the start and end dates for daylight saving time, in the form of a day and time of the month, and not a specific date in a year. This keyword lets you set a recurring date range that you do not need to alter yearly. If you do not specify any dates, the security appliance uses the default date range for the United States: from 2:00 a.m. on the second Sunday in March to 2:00 a.m. on the first Sunday in November.
	week	(Optional) Specifies the week of the month as an integer between 1 and 4 or as the words first or last . For example, if the day might fall in the partial fifth week, then specify last .
	weekday	(Optional) Specifies the day of the week: Monday , Tuesday , Wednesday , and so on.
	year	Sets the year using four digits, for example, 2004 . The year range is 1993 to 2035.
	zone	Specifies the time zone as a string, for example, PDT for Pacific Daylight Time. When the security appliance shows the daylight saving time according to the date range you set with this command, the time zone changes to the value you set here. See the clock timezone to set the base time zone to a zone other than UTC.

Defaults	The default offset is 60 minutes.							
	The default recurring date range is from 2:00 a.m. on the second Sunday in March to 2:00 a.m. on the first Sunday in November.							
Command Modes	The following table s	hows the modes in whic	ch you can enter	the comma	und:			
		Firewall N	Node	Security Context				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•	•		•		
Command History	Release	Modification						
	8.0(2)	The default recurri Sunday in March t		-				
Usage Guidelines	For the Southern Hen	nisphere, the security ap	opliance accepts t	he start mo	onth to be later	in the year thar		
-	the end month, for ex The following examp hostname(config)# c	nisphere, the security ap ample, from October to le sets the daylight savi	March.	· Australia:	:			
	the end month, for ex The following examp hostname(config)# c March 2:00 Some countries start	ample, from October to le sets the daylight savi	March. Ing date range for recurring last ecific date. In the	Australia: Sunday O following	example, dayl	last Sunday		
_	the end month, for ex The following examp hostname(config)# c March 2:00 Some countries start is configured to start	ample, from October to le sets the daylight savi clock summer-time PDT daylight saving on a spe	March. Ing date range for recurring last ecific date. In the .m. and end on O	following ctober 1, 2	: ectober 2:00 : example, dayl 2004, at 4 a.m.	l ast Sunday ight saving time		
Usage Guidelines Examples Related Commands	the end month, for ex The following examp hostname(config)# c March 2:00 Some countries start is configured to start	ample, from October to le sets the daylight savi clock summer-time PDT daylight saving on a spe on April 1, 2004, at 3 a	March. Ing date range for recurring last ecific date. In the .m. and end on O	following ctober 1, 2	: ectober 2:00 : example, dayl 2004, at 4 a.m.	l ast Sunday ight saving time		
Examples	the end month, for ex The following examp hostname(config)# c March 2:00 Some countries start is configured to start hostname(config)# c	ample, from October to le sets the daylight savi clock summer-time PDT daylight saving on a spe on April 1, 2004, at 3 a clock summer-time UTC	March. Ing date range for recurring last ecific date. In the .m. and end on O date 1 April 2	following ctober 1, 2	example, dayl 2004, at 4 a.m. 1 October 200	l ast Sunday ight saving time		
Examples	the end month, for ex The following examp hostname(config)# c March 2:00 Some countries start is configured to start hostname(config)# c Command	ample, from October to le sets the daylight savi clock summer-time PDT daylight saving on a spe on April 1, 2004, at 3 a clock summer-time UTC Description	March. ang date range for recurring last ecific date. In the .m. and end on O date 1 April 2 clock on the secu	following ctober 1, 2	example, dayl 2004, at 4 a.m. 1 October 200	l ast Sunday ight saving time		
Examples	the end month, for ex The following examp hostname(config)# c March 2:00 Some countries start is configured to start hostname(config)# c Command clock set	ample, from October to le sets the daylight savi clock summer-time PDT daylight saving on a spe on April 1, 2004, at 3 a clock summer-time UTC Description Manually sets the	March. Ing date range for recurring last ecific date. In the .m. and end on O date 1 April 2 clock on the secu	following ctober 1, 2	example, dayl 2004, at 4 a.m. 1 October 200	l ast Sunday ight saving time		

clock timezone

To set the time zone for the security appliance clock, use the **clock timezone** command in global configuration mode. To set the time zone back to the default of UTC, use the **no** form of this command. The **clock set** command or the time derived from an NTP server sets the time in UTC. You must set the time zone as an offset of UTC using this command.

clock timezone zone [-]hours [minutes]

no clock timezone [zone [-]hours [minutes]]

Syntax Description	zone	Specifies the time Time.	zone as a string,	for examp	le, PST for Pac	cific Standard		
	[-]hours	Sets the number of hours of offset from UTC. For example, PST is -8 hours.						
	<i>minutes</i> (Optional) Sets the number of minutes of offset from UTC.							
Defaults	No default behavior	or values.						
Command Modes	The following table	shows the modes in whi	ch you can enter	the comma	ind:			
		Firewall I	Vode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	n •	•	•		•		
Command History	Release Modification							
	Preexisting	This command wa	s preexisting.					
Usage Guidelines	To set daylight saving time, see the clock summer-time command. The following example sets the time zone to Pacific Standard Time, which is -8 hours from UTC: hostname(config)# clock timezone PST -8							
Examples								
Related Commands	Command	Description						
	clock set	Manually sets the	clock on the secu	urity applia	nce.			
	clock summer-tim	-						

Command	Description
ntp server	Identifies an NTP server.
show clock	Shows the current time.

cluster-ctl-file

To use trustpoints that are already created from an existing CTL file stored in Flash memory, use the **cluster-ctl-file** command in CTL file configuration mode. To remove the CTL file configuration so that you can create a new CTL file, use the **no** form of this command.

cluster-ctl-file filename_path

no cluster-ctl-file *filename_path*

Syntax Description	filename_path	Specifies the path an memory.	nd filename of the	CTL file st	ored on disk or	stored in Flash
Defaults	No default behavior	r or values.				
Command Modes	The following table	e shows the modes in wh	ich you can enter	the comma	ind:	
		Firewall	Mode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	CTL-file configura	tion •		•		
Command History	Release	Modification				
	8.0(4)	The command was	introduced.			
Usage Guidelines		d is configured, the Phon nts from that CTL file an	• •			•
Examples	Flash memory to in	nple shows the use of the stall the trustpoints from tl-file)# cluster-ctl	that file:		-	L file stored in
Related Commands	Command	Description				
	ctl-file (global)	Specifies the CTL f to parse from Flash		one Proxy	configuration of	or the CTL file

Command	Description
ctl-file (phone-proxy)	Specifies the CTL file to use for Phone Proxy configuration.
phone-proxy	Configures the Phone Proxy instance.

cluster encryption

To enable encryption for messages exchanged on the virtual load-balancing cluster, use the **cluster encryption** command in vpn load-balancing configuration mode. To disable encryption, use the **no** form of this command.

cluster encryption

no cluster encryption

N.
Note

VPN load balancing requires an active 3DES/AES license. The security appliance checks for the existence of this crypto license before enabling load balancing. If it does not detect an active 3DES or AES license, the security appliance prevents the enabling of load balancing and also prevents internal configuration of 3DES by the load balancing system unless the license permits this usage.

Syntax Description This command has no arguments or variables.

Defaults Encryption is disabled by default.

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

	Firewall N	lode	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Vpn load-balancing configuration	•	_	•		

 Release
 Modification

 7.0(1)
 This command was introduced.

Usage Guidelines

This command turns encryption on or off for messages exchanged on the virtual load-balancing cluster.

Before configuring the **cluster encryption** command, you must have first used the **vpn load-balancing** command to enter VPN load-balancing mode. You must also use the **cluster key** command to configure the cluster shared-secret key before enabling cluster encryption.



When using encryption, you must first configure the command **isakmp enable** *inside*, where *inside* designates the load-balancing inside interface. If ISAKMP is not enabled on the load-balancing inside interface, you will get an error message when you try to configure cluster encryption.

Examples	The following is an example of a VPN load-balancing command sequence that includes a cluster encryption command that enables encryption for the virtual load-balancing cluster:
	<pre>hostname(config)# interface GigabitEthernet 0/1</pre>
	hostname(config-if)# ip address 209.165.202.159 255.255.255.0
	hostname(config)# nameif test
	hostname(config)# interface GigabitEthernet 0/2
	hostname(config-if)# ip address 209.165.201.30 255.255.255.0
	hostname(config)# nameif foo
	hostname(config)# vpn load-balancing
	hostname(config-load-balancing)# interface lbpublic test
	hostname(config-load-balancing)# interface lbprivate foo
	hostname(config-load-balancing)# cluster ip address 209.165.202.224
	hostname(config-load-balancing)# cluster key 123456789
	hostname(config-load-balancing)# cluster encryption
	hostname(config-load-balancing)# participate

Related Commands

ıds	Command	Description
	cluster key	Specifies the shared-secret key for the cluster.
	vpn load-balancing	Enters VPN load-balancing mode.

cluster ip address

To set the IP address of the virtual load-balancing cluster, use the **cluster ip address** command in vpn load-balancing configuration mode. To remove the IP address specification, use the **no** form of this command.

cluster ip address ip-address

no cluster ip address [ip-address]

Syntax Description	ip-address	Tł	ne IP address that	you want to ass	ign to the v	virtual load-bal	ancing cluster.
Defaults	No default be	havior or value	s.				
Command Modes	The following	table shows th	ne modes in whic	h you can enter	the comma	ind:	
			Firewall M	ode	Security C	Context	
						Multiple	
	Command Mo	de	Routed	Transparent	Single	Context	System
	Vpn load-bal configuration	U U	•		•		
Command History	Release	Modificat	ion				
	7.0(1)	This com	mand was introdu	iced.			
Usage Guidelines		-	bad-balancing co o which the virtu		-	-	iguration mode
	The cluster ip virtual cluster		be on the same su	bnet as the inter	rface for w	hich you are co	onfiguring the
			nd, if you specify no cluster ip ad				atch the existing
Examples	-	· •	vs a VPN load-ba he IP address of	-	-		-
	hostname(con hostname(con hostname(con hostname(con hostname(con	<pre>fig-if)# ip a fig)# nameif fig)# interfa fig-if)# ip a fig)# nameif fig)# vpn loa</pre>	ce GigabitEther ddress 209.165. foo	202.159 255.2 met 0/2 201.30 255.25	5.255.0		

hostname(config-load-balancing)# interface lbprivate foo hostname(config-load-balancing)# cluster ip address 209.165.202.224 hostname(config-load-balancing)# participate

Related Commands

Command	Description
interface	Sets the interfaces of the device.
nameif	Assigns a name to an interface.
vpn load-balancing	Enters VPN load-balancing mode.

cluster key

To set the shared secret for IPSec site-to-site tunnel exchanges on the virtual load-balancing cluster, use the **cluster key** command in vpn load-balancing configuration mode. To remove this specification, use the **no** form of this command.

cluster key shared-secret

no cluster key [shared-secret]

Syntax Description	shared-secret	10	3- through 17-ch bad-balancing clus paces.					
Defaults	No default be	havior or valu	es.					
Command Modes	The following	table shows t	he modes in whic	h you can enter	the comma	and:		
			Firewall N	lode	Security (Context		
						Multiple		
	Command Mo	de	Routed	Transparent	Single	Context	System	
	Vpn load-bal	-	•		•			
Command History	Release	Modifica	tion					
	7.0(1)	This con	nmand was introd	uced.				
Usage Guidelines		-	oad-balancing co uster key comma		-	-	iguration mode.	
	You must use the cluster key command to configure the shared secret before enabling cluster encryption.							
			<i>nared-secret</i> in the ng configuration.	e no cluster key	form of th	e command, th	e shared secret	
Examples	-	-	ws a VPN load-ba	•	-		•	
	hostname(con hostname(con hostname(con	<pre>fig-if)# ip fig)# nameif fig)# interf fig-if)# ip fig)# nameif</pre>	ace GigabitEther address 209.165 foo	202.159 255.2!				

hostname(config-load-balancing) # interface lbpublic test hostname(config-load-balancing)# interface lbprivate foo hostname(config-load-balancing)# cluster ip address 209.165.202.224 hostname(config-load-balancing)# cluster key 123456789 hostname(config-load-balancing)# cluster encryption hostname(config-load-balancing)# participate

Related Commands

S	Command	Description
	vpn load-balancing	Enters vpn load-balancing mode.

cluster-mode

To specify the security mode of the cluster, use the **cluster-mode** command in phone-proxy configuration mode. To set the security mode of the cluster to the default mode, use the **no** form of this command.

cluster-mode [mixed | nonsecure]

no cluster-mode [mixed | nonsecure]

Syntax Description	mixed Specifies the cluster mode to be in mixed mode when configuring the Phone Proxy feature.							
	nonsecure Specifies the cluster mode to be in nonsecure mode when configuring the Phone Proxy feature.							
Defaults	The default cluster	mode is nons	secure.					
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		
	Command Mode		Routed	Transparent	Single	Context	System	
	Phone-proxy config	guration	•		•			
Command History	Release	Modifio	tion					
ommanu mistory	Release Modification 8.0(4) The command was introduced.							
Jsage Guidelines	When you are confi		•				and nonsecu	
	<pre>modes), you must also configure the LDC issuer in case some phones are configured to be in authenticated or encrypted mode: hostname(config)# crypto key generate rsa label ldc_signer_key modulus 1024 hostname(config)# crypto key generate rsa label phone_common modulus 1024 hostname(config)# tls-proxy my_proxy hostname(config-tlsp)# server trust-point internal_PP_myctl hostname(config-tlsp)# client ldc issuer ldc_server hostname(config-tlsp)# client ldc keypair phone_common</pre>							
	authenticated or end hostname(config)# hostname(config)# hostname(config)# hostname(config-t hostname(config-t	crypto key crypto key tls-proxy r lsp)# serve lsp)# clien	generate ra generate ra my_proxy r trust-poin t ldc issuen	sa label ldc_si sa label phone_ nt internal_PP_ r ldc_server	.gner_key _common mo _myctl	modulus 1024		

Related Commands	Command Description		
	phone-proxy	Configures the Phone Proxy instance.	
	tls-proxy	Configures the TLS proxy instance.	

cluster port

To set the UDP port for the virtual load-balancing cluster, use the **cluster port** command in vpn load-balancing configuration mode. To remove the port specification, use the **no** form of this command.

cluster port port

no cluster port [port]

Syntax Description	<i>port</i> The UDP port that you want to assign to the virtual load-balancing cluster.							
Defaults	The default cluster port is 9023. The following table shows the modes in which you can enter the command:							
Command Modes								
		Firewall Mode		Security Context				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Vpn load-balancing configuration	•		•		—		
Command History	Release Modification							
	7.0(1)This command was introduced.							
Usage Guidelines	You must first use the vpn load-balancing command to enter vpn load-balancing configuration mode.							
	You can specify any valid UDP port number. The range is 1-65535. If you specify a value for <i>port</i> in the no cluster port form of the command, the port number specified must match the existing configured port number.							
Examples	The following example shows a VPN load-balancing command sequence that includes a cluster port address command that sets the UDP port for the virtual load-balancing cluster to 9023:							
	<pre>hostname(config)# interface GigabitEthernet 0/1 hostname(config-if)# ip address 209.165.202.159 255.255.255.0 hostname(config)# nameif test hostname(config)# interface GigabitEthernet 0/2 hostname(config-if)# ip address 209.165.201.30 255.255.255.0 hostname(config)# nameif foo hostname(config)# vpn load-balancing hostname(config-load-balancing)# interface lbpublic test hostname(config-load-balancing)# interface lbprivate foo hostname(config-load-balancing)# cluster ip address 209.165.202.224 hostname(config-load-balancing)# cluster port 9023</pre>							

hostname(config-load-balancing)# participate

Related Commands	Command	Description	
	vpn load-balancing	Enters VPN load-balancing mode.	

command-alias

To create an alias for a command, use the **command-alias** command in global configuration mode. To remove the alias, use the **no** form of this command. When you enter the command alias, the original command is invoked. You might want to create command aliases to provide shortcuts for long commands, for example.

command-alias mode command_alias original_command

no command-alias mode command_alias original_command

Syntax Description	mode	Specifies the command mode in which you want to create the command alias, for example exec (for user and privileged EXEC modes), configure , or interface .							
	command_alias	Specifies the new 1	name you want f	or an existi	ng command.				
	original_command	Specifies the existing command or command with its keywords for which you want to create the command alias.							
Defaults	By default, the following	ng user EXEC mode a	liases are config	ured:					
	h for help								
	lo for logout								
	p for ping								
	s for show	s for show							
command Modes	The following table sho	ows the modes in whic	ch you can enter	the comma	ınd:				
Command Modes	The following table sho	ows the modes in whic Firewall N		the comma					
Command Modes	The following table sho			1					
Command Modes	The following table sho			Security C	Context	System			
ommand Modes		Firewall N	1ode	Security C	Context Multiple	System •			
	Command Mode	Firewall N Routed	Node Transparent	Security C Single	Context Multiple Context	-			
Command Modes	Command Mode Global configuration Release	Firewall N Routed • Modification	Node Transparent •	Security C Single	Context Multiple Context	-			
	Command Mode Global configuration	Firewall N Routed •	Node Transparent •	Security C Single	Context Multiple Context	-			
ommand History	Command Mode Global configuration Release	Firewall N Routed • Modification This command was	Node Transparent • s introduced.	Security C Single •	Context Multiple Context •	•			
	Command Mode Global configuration Release 7.0(1) You can create an alias	Firewall N Routed • Modification This command was for the first part of an	Iode Transparent • s introduced. sy command and	Security C Single •	Context Multiple Context •	• keywords and			

For example, the **lo** command alias displays along with other privileged EXEC mode commands that start with "lo," as follows:

hostname# lo?
*lo=logout login logout

You can use the same alias in different modes. For example, you can use "happy" in privileged EXEC mode and configuration mode to alias different commands, as follows:

```
hostname(config)# happy?
```

```
configure mode commands/options:
    *happy="username crichton password test"
```

```
exec mode commands/options:
 *happy=enable
```

To list only commands and omit aliases, begin your input line with a space. Also, to circumvent command aliases, use a space before entering the command. In the following example, the alias happy is not shown, because there is a space before the happy? command.

```
hostname(config)# alias exec test enable
hostname(config)# exit
hostname# happy?
ERROR: % Unrecognized command
```

As with commands, you can use CLI help to display the arguments and keywords that can follow a command alias.

You must enter the complete command alias. Shortened aliases are not accepted. In the following example, the parser does not recognize the command hap as indicating the alias happy:

```
hostname# hap
% Ambiguous command: "hap"
```

Examples

The following example shows how to create a command alias named "**save**" for the **copy running-config startup-config** command:

hostname(config)# command-alias exec save copy running-config startup-config
hostname(config)# exit
hostname# save

Source filename [running-config]? Cryptochecksum: 50d131d9 8626c515 0c698f7f 613ae54e

2209 bytes copied in 0.210 secs hostname#

Related Commands

Command	Description
clear configure command-alias	Clears all non-default command aliases.
show running-config command-alias	Displays all non-default command aliases configured.

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command-queue

To specify the maximum number of MGCP commands that are queued while waiting for a response, use the **command-queue** command in mgcp-map configuration mode. To remove the configuration, use the **no** form of this command.

command-queue *limit*

no command-queue limit

			_						
Syntax Description	limit	<i>limit</i> Specifies the maximum number of commands to queue, from 1 to 2147483647.							
Defaults	This command is di	sabled by de	fault.						
	The default for the	MGCP comm	and queue i	s 200.					
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			
	Command Mode		Routed	Transparent	Single	Context	System		
	Mgcp-map configu	ration	•	•	•	•			
Command History	Release	Modifi	cation						
Commanu History	7.0(1)								
Usage Guidelines	Use the command - queued while waitir is 200. When the lir queue for the longer	ng for a respo nit has been 1	nse. The ran	ge of allowed va	lues is from	n 1 to 4294967	295. The default		
Examples	The following exam	ple limits the	e MGCP con	nmand queue to	150 comma	unds:			
	hostname(config)# hostname(config-m			150					
Related Commands	Commands	Descri	ption						
	debug mgcp	Enable	es the display	of debug inform	nation for 1	MGCP.			
	mgcp-mapDefines an MGCP map and enables MGCP map configuration mode.								

Commands	Description
show mgcp	Displays MGCP configuration and session information.
timeout	Configures the idle timeout after which an MGCP media or MGCP PAT xlate connection will be closed.

compatible rfc1583

To restore the method that is used to calculate the summary route costs per RFC 1583, use the **compatible rfc1583** command in router configuration mode. To disable RFC 1583 compatibility, use the **no** form of this command.

compatible rfc1583

no compatible rfc1583

Syntax Description This command has no arguments or keywords.

Defaults This command is enabled by default.

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

	Firewall N	lode	Security Context			
Command Mode			Single	Multiple	Multiple	
	Routed	Transparent		Context	System	
Router configuration	•		•		_	

Command History	Release	Modification
Preexisting		This command was preexisting.

Usage Guidelines Only the **no** form of this command appears in the configuration.

Examples The following example shows how to disable RFC 1583-compatible route summary cost calculation: hostname(config-router)# no compatible rfc1583 hostname(config-router)#

Related Commands	Command	Description				
	router ospf	Enters router configuration mode.				
	show running-config router	Displays the commands in the global router configuration.				

compression

To enable compression for SVC connections and WebVPN connections, use the **compression** command from global configuration mode. To remove the command from the configuration, use the **no** form of the command.

compression {all | svc | http-comp}

no compression {all | svc | http-comp}

Syntax Description	all	Specifies ena	bling all	available comp	pression tec	hniques.			
	svc	Specifies com	pression	n for SVC conn	ections.	•			
	http-comp Specifies compression for WebVPN connections.								
Defaults	The default is <i>all</i> . Al	ll available comp	ression t	echniques are e	nabled.				
Command Modes	The following table	shows the modes	in whicl	n you can enter	the comma	ind:			
		Fir	ewall M	ode	Security (Context			
						Multiple			
	Command Mode	Ro	uted	Transparent	Single	Context	System		
	Global configuration	n •			•				
Command History	Release	Modification							
	7.1(1)	This comman	d was in	troduced.					
Usage Guidelines	For SVC connections the svc compression	-		•	-	-			
	For example, if you enter the svc compression command for a certain group from group policy webvpn mode, and then you enter no compression command from global configuration mode, you override the svc compression command settings that you configured for the group.								
	Conversely, if you turn compression back on with the compression command from global configuration mode, any group settings take effect, and those settings ultimately determine the compression behavior.								
	If you disable comp Active connections r		_	ression comma	nd, only ne	w connections	are affected.		
Examples	In the following example.	mple, compressio	on is turn	ed on for SVC	connection	s:			
	<pre>hostname(config)#</pre>	compression svo	:						
	In the next example, compression is disabled for SVC and WebVPN connections:								

hostname(config) # no compression svc http-comp

Related Commands	Command	Description
	show webvpn svc	Displays information about the SVC installation.
	svc	Enables or requires the SVC for a specific group or user.
	svc compression	Enables compression of http data over an SVC connection for a specific group or user.

config-register

To set the configuration register value that is used the next time you reload the security appliance, use the **config-register** command in global configuration mode. To set the value back to the default, use the **no** form of this command. This command is only supported on the ASA 5500 adaptive security appliance. The configuration register value determines which image to boot from as well as other boot parameters.

config-register *hex_value*

no config-register

Syntax Description	hex_valueSets the configuration register value as a hexadecimal number from 0x0 to 0xFFFFFFFF. This number represents 32 bits and each hexadecimal character represents 4 bits. Each bit controls a different characteristic. However, bits 32 through 20 are either reserved for future use, cannot be set by the user, or are not currently used by the security appliance; therefore, you can ignore the three characters that represent those bits, because they are always set to 0. The relevent bits are represented by 5 hexadecimal characters: 0xnnnn.						
	You do not need to include preceding 0s. You do need to include For example, 0x2001 is equivalent to 0x02001; but 0x10000 re zeros. See Table 8-1 for more information about available valu relevant bits.						
Defaults	The default value is 0x1,	which boots from th	e local image ar	nd startup c	onfiguration.		
Command Modes	The following table show:	s the modes in whic	h you can enter	the comma	nd:		
		Firewall N	lode	Security C	ontext		
					Multiple		
	Command Mode	Routed	Transparent	Single	Multiple Context	System	
	Command Mode Global configuration	Routed •	Transparent •	Single •		System •	
	Global configuration	•		-			
Command History	Global configuration Release	• Modification	•	-			
Command History	Global configuration	•	•	-			

from the TFTP server and to boot from the local image, the security appliance boots from the TFTP server. Because this value also stipulates that if the TFTP boot fails, the security appliance should boot directly into ROMMON, then the action that specifies to boot from the default image is ignored.

A value of 0 means no action unless otherwise specified.

Table 8-1 lists the actions associated with each hexadecimal character; choose one value for each character:

Table 8-1 **Configuration Register Values**

Prefix	Hexadecimal Chara	cter Numbers 4, 3, 2, 1,	and	0	
0x	0	0	0 ¹	0 ²	0 ²
	1	2		1	1
	Disables the 10 second ROMMON countdown during startup. Normally, you can press Escape during the countdown to	If you set the security appliance to boot from a TFTP server, and the boot fails, then this value boots directly into ROMMON.		Boots from the TFTP server image as specified in the ROMMON Boot Parameters (which is the same as the boot system tftp command,	Boots the image specified by the first boot system <i>local_flash</i> command. If that image does not load, the security appliance tries to boot each image specified by subsequent boot system commands until it boots successfully.
	enter ROMMON.	KOMMON.		if present). This value	3, 5, 7, 9
				takes precedence over a value set for character 1.	Boots the image specified by a particular boot system <i>local_flash</i> command. Value 3 boots the image specified in the first boot system command, value 5 boots the second image, and so on.
					If the image does not boot successfully, the security appliance does not attempt to fall back to other boot system command images (this is the difference between using value 1 and value 3). However, the security appliance has a failsafe feature that in the event of a boot failure attempts to boot from any image found in the root directory of internal Flash memory. If you do not want the failsafe feature to take effect, store your images in a different directory than root.
				4 ³	2, 4, 6, 8
				Ignores the startup configuration and loads the default configuration.	From ROMMON, if you enter the boot command without any arguments, then the security appliance boots the image specified by a particular boot system <i>local_flash</i>
				5	command. Value 3 boots the image specified
				Performs both actions above.	in the first boot system command, value 5 boots the second image, and so on. This value does not automatically boot an image.

1. Reserved for future use.

2. If character numbers 0 and 1 are not set to automatically boot an image, then the security appliance boots directly into ROMMON.

3. If you disable password recovery using the service password-recovery command, then you cannot set the configuration register to ignore the startup configuration.

	The configuration register value is not replicated to a standby unit, but the following warning is displayed when you set the configuration register on the active unit:
	WARNING The configuration register is not synchronized with the standby, their values may not match.
	You can also set the configuration register value in ROMMON using the confreg command.
Examples	The following example sets the configuration register to boot from the default image: hostname(config)# config-register 0x1

Related Commands	Command	Description
	boot	Sets the boot image and startup configuration.
	service password-recovery	Enables or disables password recovery.

configure factory-default

To restore the configuration to the factory default, use the **configure factory-default** command in global configuration mode. The factory default configuration is the configuration applied by Cisco to new security appliances. This command is supported on all platforms except for the PIX 525 and PIX 535 security appliances.

configure factory-default [ip_address [mask]]

Syntax Description	<i>ip_address</i> Sets the IP address of the management or inside interface, instead of using the default address, 192.168.1.1. See the "Usage Guidelines" sections for more information about which interface is configured for your model.						
	mask Sets the subnet mask of the interface. If you do not set a mask, the security appliance uses the mask appropriate for the IP address class.						
Defaults	The default IP address and mask are 192.168.1.1 and 255.255.255.0.						
Command Modes	The following table	shows the mod	les in whic	ch you can enter	the comma	ınd:	
			Firewall N	Node	Security (Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Global configuration	l	•	—	•		
Command History	Release 7.2(1)			configuration was	s added for	the ASA 5505	adaptive
Usage Guidelines	For the PIX 515/515 configuration automa ASDM, with which appliance, the factor security appliance is	ntically config you can then c y default conf	ures an int complete yoi iguration a	terface for managour configuration utomatically con	gement so your and you	you can connec ASA 5505 adap	et to it using tive security
	This command is ava addresses for interfa This command is als configuration does n	ces, and settin o only availab	g the inter le in single	face IP address i e context mode;	s one of the a security a	e actions this c appliance with	ommand takes. a cleared
	This command clear	s the current r	unning cor	nfiguration and th	nen configu	ures several con	mmands.
	If you set the IP add subnet you specify. S that you specify.						

After you restore the factory default configuration, save it to internal Flash memory using the **write memory** command. The **write memory** command saves the running configuration to the default location for the startup configuration, even if you previously configured the **boot config** command to set a different location; when the configuration was cleared, this path was also cleared.



This command also clears the **boot system** command, if present, along with the rest of the configuration. The **boot system** command lets you boot from a specific image, including an image on the external Flash memory card. The next time you reload the security appliance after restoring the factory configuration, it boots from the first image in internal Flash memory; if you do not have an image in internal Flash memory, the security appliance does not boot.

To configure additional settings that are useful for a full configuration, see the setup command.

ASA 5505 Adaptive Security Appliance Configuration

The default factory configuration for the ASA 5505 adaptive security appliance configures the following:

- An inside VLAN 1 interface that includes the Ethernet 0/1 through 0/7 switch ports. If you did not set the IP address in the **configure factory-default** command, then the VLAN 1 IP address and mask are 192.168.1.1 and 255.255.255.0.
- An outside VLAN 2 interface that includes the Ethernet 0/0 switch port. VLAN 2 derives its IP address using DHCP.
- The default route is also derived from DHCP.
- All inside IP addresses are translated when accessing the outside using interface PAT.
- By default, inside users can access the outside with an access list, and outside users are prevented from accessing the inside.
- The DHCP server is enabled on the security appliance, so a PC connecting to the VLAN 1 interface receives an address between 192.168.1.2 and 192.168.1.254.
- The HTTP server is enabled for ASDM and is accessible to users on the 192.168.1.0 network.

The configuration consists of the following commands:

```
interface Ethernet 0/0
  switchport access vlan 2
  no shutdown
interface Ethernet 0/1
   switchport access vlan 1
   no shutdown
interface Ethernet 0/2
  switchport access vlan 1
  no shutdown
interface Ethernet 0/3
  switchport access vlan 1
  no shutdown
interface Ethernet 0/4
  switchport access vlan 1
  no shutdown
interface Ethernet 0/5
  switchport access vlan 1
  no shutdown
interface Ethernet 0/6
  switchport access vlan 1
  no shutdown
interface Ethernet 0/7
   switchport access vlan 1
```

```
no shutdown
interface vlan2
  nameif outside
   no shutdown
   ip address dhcp setroute
interface vlan1
   nameif inside
   ip address 192.168.1.1 255.255.255.0
   security-level 100
   no shutdown
global (outside) 1 interface
nat (inside) 1 0 0
http server enable
http 192.168.1.0 255.255.255.0 inside
dhcpd address 192.168.1.2-192.168.1.254 inside
dhcpd auto_config outside
dhcpd enable inside
logging asdm informational
```

ASA 5510 and Higher Adaptive Security Appliance Configuration

The default factory configuration for the ASA 5510 and higher adaptive security appliance configures the following:

- The management Management 0/0 interface. If you did not set the IP address in the **configure factory-default** command, then the IP address and mask are 192.168.1.1 and 255.255.255.0.
- The DHCP server is enabled on the security appliance, so a PC connecting to the interface receives an address between 192.168.1.2 and 192.168.1.254.
- The HTTP server is enabled for ASDM and is accessible to users on the 192.168.1.0 network.

The configuration consists of the following commands:

```
interface management 0/0
    ip address 192.168.1.1 255.255.255.0
    nameif management
    security-level 100
    no shutdown
asdm logging informational 100
asdm history enable
http server enable
http 192.168.1.0 255.255.255.0 management
dhcpd address 192.168.1.2-192.168.1.254 management
dhcpd lease 3600
dhcpd ping_timeout 750
dhcpd enable management
```

PIX 515/515E Security Appliance Configuration

The default factory configuration for the PIX 515/515E security appliance configures the following:

- The inside Ethernet1 interface. If you did not set the IP address in the **configure factory-default** command, then the IP address and mask are 192.168.1.1 and 255.255.255.0.
- The DHCP server is enabled on the security appliance, so a PC connecting to the interface receives an address between 192.168.1.2 and 192.168.1.254.
- The HTTP server is enabled for ASDM and is accessible to users on the 192.168.1.0 network.

The configuration consists of the following commands:

```
interface ethernet 1
    ip address 192.168.1.1 255.255.255.0
    nameif management
```

```
security-level 100
no shutdown
asdm logging informational 100
asdm history enable
http server enable
http 192.168.1.0 255.255.255.0 management
dhcpd address 192.168.1.2-192.168.1.254 management
dhcpd lease 3600
dhcpd ping_timeout 750
dhcpd enable management
```

Examples

The following example resets the configuration to the factory default, assigns the IP address 10.1.1.1 to the interface, and then saves the new configuration as the startup configuration:

```
hostname(config)# configure factory-default 10.1.1.1 255.255.255.0
Based on the inside IP address and mask, the DHCP address
pool size is reduced to 253 from the platform limit 256
WARNING: The boot system configuration will be cleared.
The first image found in disk0:/ will be used to boot the
system on the next reload.
Verify there is a valid image on disk0:/ or the system will
not boot.
Begin to apply factory-default configuration:
Clear all configuration
...
hostname(config)#
hostname(config)# copy running-config startup-config
```

Related Commands	Command	Description
	boot system	Sets the software image from which to boot.
	clear configure	Clears the running configuration.
	copy running-config startup-config	Copies the running configuration to the startup configuration.
	setup	Prompts you to configure basic settings for the security appliance.
	show running-config	Shows the running configuration.

configure http

To merge a configuration file from an HTTP(S) server with the running configuration, use the **configure http** command in global configuration mode. This command supports IPv4 and IPv6 addresses.

configure http[s]://[user[:password]@]server[:port]/[path/]filename

Syntax Description	:password	(Optional) For HT	TP(S) authentica	tion, speci	fies the passwo	ord.		
	:port	(Optional) Specifi default is 443.	es the port. For H	ITTP, the d	lefault is 80. Fo	or HTTPS, the		
	@	(Optional) If you enter a name and/or a password, precedes the server IP address with an at sign (@).						
	filename	Specifies the configuration filename.						
	http[s]	Specifies either HTTP or HTTPS.						
	path	(Optional) Specifies a path to the filename.						
	server	Specifies the server IP address or name. For IPv6 server addresses, if you specify the port, then you must enclose the IP address in brackets so that the colons in the IP address are not mistaken for the colon before the port number. For example, enter the following address and port:						
		[fe80::2e0:b6ff:						
	user	(Optional) For HT	TP(S) authentica	tion, speci	fies the userna	me.		
Command Modes	The following table sh	ows the modes in whi	-	the comma				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•	•	•	•		
Command History	Release	Modification						
	Preexisting	This command wa	s preexisting.					
Usage Guidelines								
Usage Guidelines	A merge adds all comr any conflicting comma the new commands are	nds with the new vers	ions. For example	e, if a comn	nand allows mu	ltiple instances,		

This command is the same as the **copy http running-config** command. For multiple context mode, that command is only available in the system execution space, so the **configure http** command is an alternative for use within a context.

Examples The following example copies a configuration file from an HTTPS server to the running configuration: hostname(config)# configure https://user1:pa\$\$w0rd@10.1.1.1/configs/newconfig.cfg

Related Commands	Command	Description
	clear configure	Clears the running configuration.
	configure memory	Merges the startup configuration with the running configuration.
conf	configure net	Merges a configuration file from the specified TFTP URL with the running configuration.
	configure factory-default	Adds commands you enter at the CLI to the running configuration.
	show running-config	Shows the running configuration.

configure memory

To merge the startup configuration with the running configuration, use the **configure memory** command in global configuration mode.

configure memory

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 Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Global configuration	•	•	•	•	•

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines A merge adds all commands from the new configuration to the running configuration, and overwrites any conflicting commands with the new versions. For example, if a command allows multiple instances, the new commands are added to the existing commands in the running configuration. If a command allows only one instance, the new command overwrites the command in the running configuration. A merge never removes commands that exist in the running configuration but are not set in the new configuration.

If you do not want to merge the configurations, you can clear the running configuration, which disrupts any communications through the security appliance, and then enter the **configure memory** command to load the new configuration.

This command is equivalent to the **copy startup-config running-config** command.

For multiple context mode, a context startup configuration is at the location specified by the **config-url** command.

 Examples
 The following example copies the startup configuration to the running configuration:

 hostname(config)# configure memory

Related Commands

Command	Description
clear configure	Clears the running configuration.
configure http	Merges a configuration file from the specified HTTP(S) URL with the running configuration.
configure net	Merges a configuration file from the specified TFTP URL with the running configuration.
configure factory-default	Adds commands you enter at the CLI to the running configuration.
show running-config	Shows the running configuration.

configure net

To merge a configuration file from a TFTP server with the running configuration, use the **configure net** command in global configuration mode. This command supports IPv4 and IPv6 addresses.

configure net [server:[filename] | :filename]

	<i>:filename</i> Specifies the path and filename. If you already set the filename using tftp-server command, then this argument is optional.							
		If you specify the t tftp-server comma filename as a direc file under the direc	and, the security a ctory, and adds th	appliance tr	eats the tftp-se	erver command		
		To override the tftp and filename. The directory, but is an double slash (//) in tftpboot directory, filename path.	slash indicates the absolute path. The front of the file	hat the path he URL ge name path.	n is not relative nerated for this If the file you	to the tftpboot s file includes a want is in the		
		If you specified the TFTP server address using the tftp-server comyou can enter the filename alone preceded by a colon (:).						
	server:	Sets the TFTP server IP address or name. This address overrides the address you set in the tftp-server command, if present. For IPv6 server addresses, you must enclose the IP address in brackets so that the colons in the IP address are not mistaken for the colon before the filename. For example, enter the following address:						
	[fe80::2e0:b6ff:fe01:3b7a]							
		The default gatewa	•	-	curity interface	e; however, you		
		can set a uniferent	interface name u	ising the tf	t p-server com	mand.		
Defaults	No default behavior or		interface name u	using the tf	t p-server comi	mand.		
Defaults Command Modes	No default behavior or The following table sho	values. ows the modes in whic	ch you can enter		-	mand.		
	-	values.	ch you can enter		nd: Context	mand.		
	The following table sho	values. ows the modes in whic Firewall N	ch you can enter Node	the comma	ind: Context Multiple			
	The following table sho	values. ows the modes in whic Firewall N Routed	ch you can enter Node Transparent	the comma Security (Single	ontext Context Multiple Context	System		
	The following table sho	values. ows the modes in whic Firewall N	ch you can enter Node	the comma	ind: Context Multiple			
	The following table sho	values. ows the modes in whic Firewall N Routed	ch you can enter Node Transparent	the comma Security (Single	ontext Context Multiple Context	System		

Usage Guidelines A merge adds all commands from the new configuration to the running configuration, and overwrites

any conflicting commands with the new versions. For example, if a command allows multiple instances, the new commands are added to the existing commands in the running configuration. If a command allows only one instance, the new command overwrites the command in the running configuration. A merge never removes commands that exist in the running configuration but are not set in the new configuration.

This command is the same as the **copy tftp running-config** command. For multiple context mode, that command is only available in the system execution space, so the **configure net** command is an alternative for use within a context.

Examples

The following example sets the server and filename in the **tftp-server** command, and then overrides the server using the **configure net** command. The same filename is used.

hostname(config)# tftp-server inside 10.1.1.1 configs/config1
hostname(config)# configure net 10.2.2.2:

The following example overrides the server and the filename. The default path to the filename is /tftpboot/configs/config1. The /tftpboot/ part of the path is included by default when you do not lead the filename with a slash (/). Because you want to override this path, and the file is also in tftpboot, include the tftpboot path in the **configure net** command.

hostname(config)# tftp-server inside 10.1.1.1 configs/config1
hostname(config)# configure net 10.2.2.2:/tftpboot/oldconfigs/config1

The following example sets the server only in the **tftp-server** command. The **configure net** command specifies only the filename.

hostname(config)# tftp-server inside 10.1.1.1
hostname(config)# configure net :configs/config1

Related Commands	Command	Description
	configure http	Merges a configuration file from the specified HTTP(S) URL with the running configuration.
	configure memory	Merges the startup configuration with the running configuration.
	show running-config	Shows the running configuration.
	tftp-server	Sets a default TFTP server and path for use in other commands.
	write net	Copies the running configuration to a TFTP server.

configure terminal

To configure the running configuration at the command line, use the **configure terminal** command in privileged EXEC mode. This command enters global configuration mode, which lets you enter commands that change the configuration.

configure terminal

show running-config

Syntax Description	This command has no arguments or keywords.					
Defaults	No default behavior or values.					
Command Modes	The following table sh	lows the modes in w	hich you can enter	the comma	und:	
		Firewa	l Mode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Privileged EXEC	•	•	•	•	•
Command History	Release	Modification				
	Preexisting	This command	was preexisting.			
Examples	The following example hostname# configure hostname(config)#	2	guration mode:			
Related Commands	Command	Description				
	clear configure	Clears the runni	ng configuration.			
	configure http	Merges a config running configu	uration file from th	ne specified	HTTP(S) UR	L with the
	configure memory		up configuration w			
	configure net	Merges a config configuration.	uration file from th	ne specified	I TFTP URL w	ith the running

Shows the running configuration.

config-url

To identify the URL from which the system downloads the context configuration, use the **config-url** command in context configuration mode.

config-url url

Syntax Description	url	Sets the context configuration URL. All remote URLs must be accessible from the admin context. See the following URL syntax:
		• disk0:/[path/]filename
		For the ASA 5500 series adaptive security appliance, this URL indicates the internal Flash memory. You can also use flash instead of disk0 ; they are aliased.
		• disk1:/[path/]filename
		For the ASA 5500 series adaptive security appliance, this URL indicates the external Flash memory card.
		• flash:/[path/]filename
		This URL indicates the internal Flash memory.
		• ftp: //[user[:password]@]server[:port]/[path/]filename[; type= xx]
		The type can be one of the following keywords:
		- ap —ASCII passive mode
		- an—ASCII normal mode
		- ip—(Default) Binary passive mode
		- in—Binary normal mode
		 http[s]://[user[:password]@]server[:port]/[path/]filename
		• tftp: //[user[:password]@]server[:port]/[path/]filename[; int= interface_name]
		Specify the interface name if you want to override the route to the server address.
Defaults	No default behavior	or values.
Command Modes	The following table	shows the modes in which you can enter the command:

	Firewall Mod	de Security Con		text	
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Context configuration	•	•	—	—	•

Command History	Release	Modification			
	7.0(1)	This command was introduced.			
Usage Guidelines	When you add a	context URL, the system immediately loads the context so that it is running.			
 Note	appliance must a configuration mig config-url comm	e-interface command(s) before you enter the config-url command. The security ssign interfaces to the context before it loads the context configuration; the context ght include commands that refer to interfaces (interface , nat , global). If you enter the nand first, the security appliance loads the context configuration immediately. If the any commands that refer to interfaces, those commands fail.			
	The filename doe	es not require a file extension, although we recommend using ".cfg".			
	The admin conte	xt file must be stored on the internal Flash memory.			
	to these servers u	a context configuration from an HTTP or HTTPS server, you cannot save changes back using the copy running-config startup-config command. You can, however, use the and to copy the running configuration to a TFTP server.			
	-	not retrieve the context configuration file because the server is unavailable, or the file t, the system creates a blank context that is ready for you to configure with the terface.			
	To change the URL, reenter the config-url command with a new URL.				
	the same URL al new commands f same, no changes effect of the merg results. If the run configuration wa the configuration	liance merges the new configuration with the current running configuration. Reentering so merges the saved configuration with the running configuration. A merge adds any from the new configuration to the running configuration. If the configurations are the soccur. If commands conflict or if commands affect the running of the context, then the ge depends on the command. You might get errors, or you might have unexpected uning configuration is blank (for example, if the server was unavailable and the s never downloaded), then the new configuration is used. If you do not want to merge s, you can clear the running configuration, which disrupts any communications through then reload the configuration from the new URL.			
Examples	-	ample sets the admin context to be "administrator," creates a context called on the internal Flash memory, and then adds two contexts from an FTP server:			
	hostname(config hostname(config hostname(config	<pre>g) # admin-context administrator g) # context administrator g-ctx) # allocate-interface gigabitethernet0/0.1 g-ctx) # allocate-interface gigabitethernet0/1.1 g-ctx) # config-url flash:/admin.cfg</pre>			
	hostname(config hostname(config	<pre>g-ctx)# context test g-ctx)# allocate-interface gigabitethernet0/0.100 int1 g-ctx)# allocate-interface gigabitethernet0/0.102 int2 g-ctx)# allocate-interface gigabitethernet0/0.110-gigabitethernet0/0.115</pre>			
	hostname(config	<pre>g-ctx)# config-url ftp://user1:passw0rd@10.1.1.1/configlets/test.cfg</pre>			
		g-ctx)# context sample g-ctx)# allocate-interface gigabitethernet0/1.200 int1 g-ctx)# allocate-interface gigabitethernet0/1.212 int2			

hostname(config-ctx)# allocate-interface gigabitethernet0/1.230-gigabitethernet0/1.235
int3-int8
hostname(config-ctx)# config-url ftp://user1:passw0rd@10.1.1.1/configlets/sample.cfg

Related	Commands
---------	----------

Command	Description
allocate-interface	Allocates interfaces to a context.
context	Creates a security context in the system configuration and enters context configuration mode.
show context	Shows a list of contexts (system execution space) or information about the current context.

console timeout

To set the idle timeout for a console connection to the security appliance, use the **console timeout** command in global configuration mode. To disable, use the **no** form of this command.

console timeout *number*

no console timeout [number]

Syntax Description	<i>number</i> Specifies the idle time in minutes (0 through 60) after which the console session ends.					
Defaults	The default timeout is 0,	which means the	console session wi	ll not time	out.	
Command Modes	The following table show	rs the modes in w	hich you can enter	the comma	nd:	
		Firewa	ll Mode	Security C	ontext	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Global configuration	•	•	•	•	•
						·
ommand History	Release Modification					
	Preexisting	This command	was preexisting.			
Jsage Guidelines	The console timeout con configuration mode user s the Telnet or SSH timeou The no console timeout of means that the console w	session to the sec its; these access i command resets	urity appliance. The nethods maintain th	e console ti neir own tin	meout comma neout values.	nd does not alte
xamples	The following example sl hostname(config)# cons		he console timeout	to 15 minu	ites:	
Related Commands	Command		Description			
	clear configure console		Restores the defau	lt console o	connection set	tings.
	clear configure timeout		Restores the defau	lt idle time	durations in th	e configuration
	show running-config co	ncolo timoout	Displays the idle t	• • • •		

content-length

To restrict HTTP traffic based on the length of the HTTP message body, use the **content-length** command in http-map configuration mode. To remove this command, use the **no** form of this command.

content-length { min bytes [max bytes] | max bytes] } action {allow | reset | drop} [log]

no content-length { min bytes [max bytes] | max bytes] } action {allow | reset | drop} [log]

Syntax Description	action	Specifies the action	n taken when a r	nessage fai	ls this inspecti	on.
	allowAllows the message.					
	bytesSpecifies the number of bytes. The permitted range is 1 to 65535 for option and 1 to 50000000 for the max option.					35 for the min
	drop	Closes the connect	ion.			
	log (Optional) Generates a syslog.					
	max	(Optional) Specifie	s the maximum	content ler	igth allowed.	
	min	Specifies the minin	num content len	gth allowed	1.	
	reset	Sends a TCP reset	message to clier	nt and serve	er.	
Delaults	This command is disabled	by default.				
	The following table shows			the comma	Context	
		the modes in whic		1		
		the modes in whic		Security (Context	System
	The following table shows	the modes in whic	lode	Security (Context Multiple	System —
	The following table shows	the modes in whic Firewall N Routed	lode Transparent	Security (Single	Context Multiple Context	System —
Command Modes	The following table shows Command Mode Http-map configuration	the modes in whic Firewall N Routed	lode Transparent	Security (Single	Context Multiple Context	System —
Defaults Command Modes	The following table shows Command Mode Http-map configuration Release	the modes in whic Firewall N Routed •	lode Transparent •	Security (Single	Context Multiple Context	System —

Examples

The following example restricts HTTP traffic to messages 100 bytes or larger and not exceeding 2000 bytes. If a message is outside this range, the security appliance resets the TCP connection and creates a syslog entry.

hostname(config)# http-map inbound_http hostname(config-http-map)# content-length min 100 max 2000 action reset log hostname(config-http-map)# exit

Related Commands Co

Commands	Description
class-map	Defines the traffic class to which to apply security actions.
http-map	Defines an HTTP map for configuring enhanced HTTP inspection.
debug appfw	Displays detailed information about traffic associated with enhanced HTTP inspection.
inspect http	Applies a specific HTTP map to use for application inspection.
policy-map	Associates a class map with specific security actions.

context

To create a security context in the system configuration and enter context configuration mode, use the **context** command in global configuration mode. To remove a context, use the **no** form of this command. In context configuration mode, you can identify the configuration file URL and interfaces that a context can use.

context name

no context name [noconfirm]

Syntax Description	name	Sets the name as a string up to 32 characters long. This name is case sensitive, so you can have two contexts named "customerA" and "CustomerA," for example. You can use letters, digits, or hyphens, but you cannot start or end the name with a hyphen.
		"System" or "Null" (in upper or lower case letters) are reserved names, and cannot be used.
	noconfirm	(Optional) Removes the context without prompting you for confirmation. This option is useful for automated scripts.

Defaults No default behavior or values.

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

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

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

Usage Guidelines If you do not have an admin context (for example, if you clear the configuration) then the first context you add must be the admin context. To add an admin context, see the **admin-context** command. After you specify the admin context, you can enter the **context** command to configure the admin context.

You can only remove a context by editing the system configuration. You cannot remove the current admin context using the **no** form of this command; you can only remove it if you remove all contexts using the **clear configure context** command.

Examples The following example sets the admin context to be "administrator," creates a context called "administrator" on the internal Flash memory, and then adds two contexts from an FTP server:

```
hostname(config)# admin-context administrator
hostname(config)# context administrator
hostname(config-ctx)# allocate-interface gigabitethernet0/0.1
hostname(config-ctx)# allocate-interface gigabitethernet0/1.1
hostname(config-ctx)# config-url flash:/admin.cfg
hostname(config-ctx)# context test
hostname(config-ctx)# allocate-interface gigabitethernet0/0.100 int1
hostname(config-ctx)# allocate-interface gigabitethernet0/0.102 int2
hostname(config-ctx)# allocate-interface gigabitethernet0/0.110-gigabitethernet0/0.115
int3-int8
hostname(config-ctx)# config-url ftp://user1:passw0rd@10.1.1.1/configlets/test.cfg
hostname(config-ctx)# context sample
hostname(config-ctx)# allocate-interface gigabitethernet0/1.200 int1
hostname(config-ctx)# allocate-interface gigabitethernet0/1.212 int2
hostname(config-ctx)# allocate-interface gigabitethernet0/1.230-gigabitethernet0/1.235
int3-int8
hostname(config-ctx)# config-url ftp://user1:passw0rd@10.1.1.1/configlets/sample.cfg
```

Related Commands

Command	Description
allocate-interface	Assigns interfaces to a context.
changeto	Changes between contexts and the system execution space.
config-url Specifies the location of the context configuration.	
join-failover-group Assigns a context to a failover group.	
show context	Shows context information.

сору

To copy a file from one location to another, use the **copy** command in privileged EXEC mode.

copy [/noconfirm | /pcap] {*url* | running-config | startup-config} {**running-config** | startup-config | *url*}

Syntax Description	/noconfirm	Copies the file without a confirmation prompt.
/pcap		Specifies the defaults of the preconfigured TFTP server. See the tftp-server command to configure a default TFTP server.
	running-config	Specifies the running configuration stored in memory.

Specifies the startup configuration stored in flash memory. The startup
configuration for single mode or for the system in multiple context mode is a hidden
file in flash memory. From within a context, the location of the startup
configuration is specified by the config-url command. For example, if you specify
an HTTP server for the config-url command and then enter the copy
startup-config running-config command, the security appliance copies the startup
configuration from the HTTP server using the admin context interface.

Specifies the source or destination file to be copied. Not all combinations of source and destination URLs are allowed. For example, you cannot copy from a remote server to another remote server; this command is used to copy files between local and remote locations. In a context, you can copy the running or startup configuration to a TFTP or FTP server using the context interfaces, but you cannot copy from a server to the running or startup configuration. See the **startup-config** keyword for other options. To download from a TFTP server to the running context configuration, use the **configure net** command.

Use the following URL syntax:

• cache:/[path/]filename]

This option indicates the cache memory in the file system.

• **capture:**/[*path*/]*filename*]

This option indicates the output in the capture buffer.

• **disk0:**/[path/]filename]

This option is only available for the ASA 5500 series adaptive security appliance, and indicates the internal Flash memory. You can also use **flash** instead of **disk0**; they are aliased.

• **disk1:**/[path/]filename]

This option is only available for the ASA 5500 series adaptive security appliance, and indicates the external Flash memory card.

• **flash:**/[path/]filename]

This option indicates the internal flash card. For the ASA 5500 series adaptive security appliance, **flash** is an alias for **disk0**.

• **smb:**/[*path*/]*filename*]

This option indicates the local file system on a UNIX server. The Server Message Block file-system protocol is used in LAN managers and similar network operating systems to package data and exchange information with other systems.

• **ftp:**//[user[:password]@]server[:port]/[path/]filename[;**type=**xx]

The type can be one of the following keywords:

- ap—ASCII passive mode
- an—ASCII normal mode
- ip—(Default) Binary passive mode
- in—Binary normal mode
- http[s]://[user[:password]@]server[:port]/[path/]filename]
- system:/[path/]filename]

This option indicates the system memory in the file system.

tftp://[user[:password]@]server[:port]/[path/]filename[;int=interface_name]

Specify the interface name using the **nameif interface** command if you want to override the route to the server address.

The pathname cannot contain spaces. If a pathname has spaces, set the path in the **tftp-server** command instead of in the **copy tftp** command.

url

Defaults This command has no default settings.

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

Command Mode	Firewall Mode		Security Context		
	Routed		Single	Multiple	
		Transparent		Context	System
Privileged EXEC	•	•	•	•	•

Command History	Release	Modification
	7.0(1)	This command was introduced.
	7.2(1)	Added support for DNS names.
	8.0(2)	Added the smb: URL option

Usage Guidelines When you copy a configuration to the running configuration, you merge the two configurations. A merge adds any new commands from the new configuration to the running configuration. If the configurations are the same, no changes occur. If commands conflict or if commands affect the running of the context, then the effect of the merge depends on the command. You might get errors, or you might have unexpected results.

Examples The following example shows how to copy a file from the disk to a TFTP server in the system execution space:

hostname(config)# copy disk0:my_context/my_context.cfg
tftp://10.7.0.80/my_context/my_context.cfg

The following example shows how to copy a file from one location on the disk to another location on the disk. The name of the destination file can be either the name of the source file or a different name.

hostname(config)# copy disk0:my_context.cfg disk:my_context/my_context.cfg

The following example shows how to copy an ASDM file from a TFTP server to the internal Flash memory:

hostname(config)# copy tftp://10.7.0.80/asdm700.bin disk0:asdm700.bin

The following example shows how to copy the running configuration in a context to a TFTP server:

hostname(config)# copy running-config tftp://10.7.0.80/my_context/my_context.cfg

The copy command supports DNS names as well as IP addresses as shown in this version of the preceding example:

hostname(config)# copy running-config tftp://www.example.com/my_context.cfg

Related Commands

Command Description	
configure net	Copies a file from a TFTP server to the running configuration.
copy capture	Copies a capture file to a TFTP server.
tftp-server	Sets the default TFTP server.
write memory	Saves the running configuration to the startup configuration.
write net Copies the running configuration to a TFTP server.	

copy capture

To copy a capture file to a server, use the copy capture command in privileged EXEC mode.

copy [/noconfirm] [/pcap] capture: [context_name/]buffer_name url

Syntax Description	/noconfirm	Copies the file without a confirmation prompt.
	/рсар	Copies the packet capture as raw data.
	buffer_name	Unique name that identifies the capture.
	context_name/	Copies a packet capture defined in a security context.
	url	Specifies the destination to copy the packet capture file. See the following URL syntax:
		• disk0:/[path/]filename
		This option is only available for the ASA 5500 series adaptive security appliance, and indicates the internal Flash card. You can also use flash instead of disk0 ; they are aliased.
		• disk1:/[path/]filename
		This option is only available for the ASA 5500 series adaptive security appliance, and indicates the external Flash card.
		• flash:/[path/]filename
		This option indicates the internal Flash card. For the ASA 5500 series adaptive security appliance, flash is an alias for disk0 .
		• ftp: //[user[:password]@]server[:port]/[path/]filename[; type= xx]
		The type can be one of the following keywords:
		- ap —ASCII passive mode
		- an—ASCII normal mode
		- ip—(Default) Binary passive mode
		- in—Binary normal mode
		 http[s]://[user[:password]@]server[:port]/[path/]filename
		 tftp://[user[:password]@]server[:port]/[path/]filename[;int=interface_na me]
		Specify the interface name if you want to override the route to the server address.
		The pathname cannot contain spaces. If a pathname has spaces, set the path in the tftp-server command instead of in the copy tftp command.

Defaults

This command has no default settings.

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

	Firewall Mode		Security Context		
Command Mode	Routed	Transparent	Single	Multiple	
				Context	System
Privileged EXEC	•	•	•	_	•

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

Examples

The following example shows the prompts that are provided when you enter the **copy capture** command without specifying the full path:

```
hostname(config)# copy capture:abc tftp
Address or name of remote host [171.68.11.129]?
Source file name [username/cdisk]?
copying capture to tftp://171.68.11.129/username/cdisk:
[yes|no|again]? y
!!!!!!!!!!!!
```

You can specify the full path as follows:

hostname(config)# copy capture:abc tftp:171.68.11.129/tftpboot/abc.cap

If the TFTP server is already configured, the location or filename can be unspecified as follows:

hostname(config)# tftp-server outside 171.68.11.129 tftp/cdisk
hostname(config)# copy capture:abc tftp:/tftp/abc.cap

Command	Description
capture	Enables packet capture capabilities for packet sniffing and network fault isolation.
clear capture	Clears the capture buffer.
show capture	Displays the capture configuration when no options are specified.
	capture clear capture

cpu profile activate

To start CPU profile collection information, use the **cpu profile activate** command in privileged EXEC mode.

cpu profile activate *n*-samples

Syntax Description	n-samples	Allocates memory and 1000 is the def		mber of san	nples. Values a	re 1 to 100000,
Defaults	No default behavior or	values.				
Command Modes	The following table sho	ws the modes in whic	h you can enter	the comma	ind:	
		Firewall M	lode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Privileged EXEC	•	•	•	•	•
Command History	Release Modification					
Jsage Guidelines	The show cpu profile c display information that information displayed b	can be collected and	used by the TAC	to aid in tro	oubleshooting	
zamples	The following example					
	hostname # cpu profile Activated CPU profili		5.			
	Use the show cpu profi	le command to see the	e results.			
	Note Executing the sl will display the	how cpu profile comi progress.	mand while the	cpu profile	e activate com	mand is runnin
	hostname# show cpu pr CPU profiling started		Fri Sep 1 200	6 CPU prof	iling current	ly in

Once it is complete, the **show cpu profile** command output will provide the results. Copy this information and provide to the TAC to be decoded.

hostname# show cpu profile CPU profiling started: 07:54:40.888 PDT Fri Sep 1 2006 Profiling finished, 5000 samples: 00c483f5 00115283 002199d3 001151d1 002199e5 00116258 002199fc 00115230 0021984e 002198f6 00c48496 00219803 004a55b1 002198b1 00c484d9 00c48472 00116258 00c48401 002199f3 00c48401 00c484b2 004a5580 0011520a 002198b4 00116258 00219807 0011520a 00116258 002198a9 00116258 00219a2e 00112009 0021989c 00fff023 008be861 0011525e 002198be 0021984e 00115277 00219807 002199d0 00114a6d 002198af 0011520a 00115260 00115274 004a55a6 00c48472 00c48472 00c48496 002199f9 002198ad 00c484c4 004a55a6 00115260 002198f4 0011528e 002198e0 00c484bb 00c48496 00c484a6 002199f3 00219810 001161d6 .

Related Commands	Command	Description
	show cpu profile	Displays the cpu profile activation information for use with the TAC.

crashinfo console disable

To read, write, and configure crash write to flash, use the **crashinfo console disable** command in global configuration mode.

crashinfo console disable

no crashinfo console disable

Syntax Description	disable Suppresses console output in the event of a crash.							
Defaults	This command has no de	fault settings.						
Command Modes	The following table show	vs the modes in whi	ch you can enter	the comma	ınd:			
		Firewall	Mode	Security (Context			
				-	Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•	•		•		
Command History	Release	Modification						
	7.0(4) Support for this command was introduced.							
Usage Guidelines	This command lets you s sensitive information tha conjunction with this con examined after the device saved to flash and should	t is not appropriate nmand, you should e reboots. This com	for viewing by al also ensure crash mand effects outp	ll users con ainfo is wri	nected to the d tten to flash, w	levice. In hich can be		
						cheaps, which is		
Examples	<pre>hostname(config)# cras</pre>	shinfo console dia	sable			cheaps, which is		
	hostname(config)# cras	shinfo console dia				cheaps, which is		
		Description		FIPS config	guration inforn	-		
Examples Relatedommands	Command	Description Clears the s NVRAM.	ystem or module l disablea policy-ch		-	nation stored in		

Command	Description
show crashinfo console	Reads, writes, and configures crash write to flash.
show running-config fips	Displays the FIPS configuration that is running on the security appliance.

crashinfo force

To force the security appliance to crash, use the **crashinfo force** command in privileged EXEC mode.

crashinfo force [page-fault | watchdog]

Syntax Description	page-fault	(Optiona	l) Forces a c	rash of the secu	rity applian	ce as a result o	of a page fault.
	watchdog	(Optiona	l) Forces a c	rash of the secur	ity applianc	e as a result of	watchdogging.
Defaults	The security appli	ance saves the	crash inform	nation file to flas	sh memory	by default.	
Command Modes	The following tabl	le shows the mo	odes in whic		the comma		
				loue	Security	Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Privileged EXEC		•	•	•		•
Command History	Release Preexisting	Modifi		preexisting.			
Usage Guidelines	You can use the cr is nothing that diff crashinfo force w after the crash dun	ferentiates a rea atchdog comm	al crash from and (becaus	a crash resultin	ig from the	crashinfo fore	e page-fault or
<u> </u>	Do not use the cra crashes the securit				ronment. Tl	ne crashinfo for	rce command
Examples	The following example shows the warning that displays when you enter the crashinfo force page-fault command:						
	WARNING: This co		rce the XXX	K to crash and	reboot.		
	If you enter a carri security appliance character is interpr	crashes and rel	oads; any of	these responses	are interpre	eted as confirm	ation. Any other

Related Commands	clear crashinfo	Clears the contents of the crash information file.
	crashinfo save disable	Disables crash information from writing to flash memory.
	crashinfo test	Tests the ability of the security appliance to save crash information to a file in Flash memory.
	show crashinfo	Displays the contents of the crash information file.

crashinfo save disable

To disable crash information from writing to Flash memory, use the **crashinfo save** command in global configuration mode. To allow the crash information to be written to Flash memory, and return to the default behavior, use the **no** form of this command.

crashinfo save disable

no crashinfo save disable

Syntax Description This command has no default arguments or keywords.

Defaults The security appliance saves the crash information file to Flash memory by default.

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

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

Command History	Release	Modification
	7.0(1)	The crashinfo save enable command was deprecated and is no longer a valid
		option. Use the no crashinfo save disable command instead.

Usage Guidelines

Crash information writes to Flash memory first, and then to your console.

Note If the security appliance crashes during startup, the crash information file is not saved. The security appliance must be fully initialized and running first, before it can save crash information to Flash memory.

Use the **no crashinfo save disable** command to re-enable saving the crash information to Flash memory.

Examples hostname(config)# crashinfo save disable

Related Commands	clear crashinfo	Clears the contents of the crash file.
	crashinfo force	Forces a crash of the security appliance.

crashinfo test	Tests the ability of the security appliance to save crash information to a file in Flash memory.
show crashinfo	Displays the contents of the crash file.

crashinfo test

To test the ability of the security appliance to save crash information to a file in flash memory, use the **crashinfo test** command in privileged EXEC mode.

crashinfo test

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 Mode Security			Context		
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•		•	

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines If a previous crash information file already exists in flash memory, that file is overwritten.



Entering the **crashinfo test** command does not crash the security appliance.

Examples

The following example shows the output of a crash information file test. hostname# crashinfo test

Related Commands	clear crashinfo	Deletes the contents of the crash file.		
	crashinfo force	Forces the security appliance to crash.		
	crashinfo save disable	Disables crash information from writing to Flash memory.		
	show crashinfo	Displays the contents of the crash file.		

crl

To specify CRL configuration options, use the crl command in crypto ca trustpoint configuration mode.

crl {required | optional | nocheck}

Syntax Description	required	The required CRL must be available for a peer certificate to be validated.						
	optional	The security appliance can still accept the peer certificate if the required CRL is not available.						
	nocheck	Directs the security appliance not to perform CRL checking.						
Defaults	The default value is noc	heck.						
Command Modes	The following table shows the modes in which you can enter the command: Firewall Mode Security Context							
		Fire		lode	Security Context			
	Command Mode	Rout	ed	Transparent	Single	Multiple Context	System	
	Crypto ca trustpoint configuration	•			•	—		
Command History	Release Modification							
	7.0(1)This command was introduced.							
	7.2(1)This command was deprecated. The following permutations of the revocation-check command replace it.							
	• revocation-check crl none replaces crl optional							
	 revocation-check crl replaces crl required revocation-check none replaces crl nocheck 							
Examples	The following example e that a CRL be available	• •	-	-		-	ral, and requires	
	hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# crl required hostname(ca-trustpoint)#							
Related Commands	Command		De	escription				
	clear configure crypto	ca trustpoint	Re	emoves all trustr	ooints.			
	crypto ca trustpoint		Er	ters trustpoint s	ubmode.			
	crl configure			Enters crl configuration mode.				

crl configure

To enter CRL configuration mode, use the crl configure command in crypto ca trustpoint configuration mode.

crl configure

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 M	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 ex	g example enters crl configuration mode within trustpoint central:			

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

Related Commands	Command	Description		
	clear configure crypto ca trustpoint	Removes all trustpoints.		
	crypto ca trustpoint	Enters trustpoint configuration mode.		