



## cache through clear compression Commands

### cache

To enter cache mode and set values for caching attributes, enter the **cache** command in webvpn configuration mode. To remove all cache related commands from the configuration and reset them to their default values, enter the **no** version of this command.

cache

no cache

**Defaults** Enabled with default settings for each cache attribute.

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

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

Command History	Release	Modification
	7.1(1)	This command was introduced.

Usage Guidelines Caching stores frequently reused objects in the system cache, which reduces the need to perform repeated rewriting and compressing of content. It reduces traffic between WebVPN and both the remote servers and end-user browsers, with the result that many applications run much more efficiently.

**Examples** The following

The following example shows how to enter cache mode:

hostname(config)# webvpn hostname(config-webvpn)# cache hostname(config-webvpn-cache)#

Related Commands	Command	Description
	cache-static-content	Caches content not subject to rewriting.
	disable	Disables caching.
	expiry-time	Configures the expiration time for caching objects without revalidating them.
	Imfactor	Sets a revalidation policy for caching objects that have only the last-modified timestamp.
	max-object-size	Defines the maximum size of an object to cache.
	min-object-size	Defines the minimum sizze of an object to cache.

### cache-fs limit

To limit the size of the cache file system used to store images that the adaptive security appliance downloads to remote PCs, use the **cache-fs limit** command from webvpn configuration mode. Use the **no** form of this commandto return to the default value.

cache-fs limit {size}

**no cache-fs limit** {*size*}

Syntax Description	<i>size</i> Size limit of the cache file system, from 1 to 32 MB.						
Syntax Description	<u></u>	5126 11		ine me system, i		2 MD.	
Defaults	The default value is	s 20 MB.					
Command Modes	The following table	e shows the n	nodes in whic	h you can enter	the comma	nd:	
			Firewall <b>N</b>	lode	Security C	ontext	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Webvpn configurat	tion	•		•		
Command History							
	8.0(2)		nmand was ii				
	8.0(3)	This coi	nmand was d	eprecated.			
Usage Guidelines	<b>nes</b> The adaptive security appliance expands package files containing images and files for the Cisco AnyConnect VPN Client and Cisco Secure Desktop (CSD) in cache memory for downlor remote PCs. For the adaptive security appliance to successfully expand the package files, there enough cache memory to store the images and files.					downloading to	
	If the adaptive security appliance detects there is not enough cache memory to expand a package, it displays an error message to the console. The following example shows an error message reported after an attempt to install an AnyConnect VPN Client image package with the <b>svc image</b> command: hostname(config-webvpn)# <b>svc image disk0:/vpn-win32-Release-2.0-k9.pkg</b> ERROR: File write error (check disk space) ERROR: Unable to load SVC image - extraction failed						ge reported after
	If this occurs when memory remaining global configuratio	and the size of	of any previou	sly installed pac	kages with	the dir cache:/	
Examples	The following exam stc) use approximation				sdesktop) a	nd the CVC im	age (located in

hostname(config-webvpn)# **dir cache:/** Directory of cache:/ 0 drw- 0 17:06:55 Nov 13 2006 sdesktop 0 drw- 0 16:46:54 Nov 13 2006 stc 5435392 bytes total (4849664 bytes free) The next example limits the cache size to 6 MB:

hostname(config-webvpn)# cache-fs limit 6

 Related Commands
 Command
 Description

 dir cache:/
 Displays the contents of cache memory, including the total cache memory reserved and the remaining amount of cache memory.

 show run webvpn
 Displays the current WebVPN configuration, including any SSL VPN client or CSD images installed that may consume cache memory.

 show webvpn csd
 Displays the CSD version and installation status.

 show webvpn svc
 Displays the name and versions of installed SSL VPN package files.

#### Cisco ASA 5500 Series Command Reference

### cache-time

To specify in minutes how long to allow a CRL to remain in the cache before considering it stale, use the **cache-time** command in crl configure configuration mode, which is accessible from crypt ca trustpoint configuration mode. To return to the default value, use the **no** form of this command.

cache-time refresh-time

no cache-time

Syntax Description	<i>refresh-time</i> Specifies the number of minutes to allow a CRL to remain in the cache. The range is 1 - 1440 minutes. If the NextUpdate field is not present in the CRL, the CRL is not cached.								
Defaults	The default setting is 60	) minutes.							
Command Modes	The following table sho	ws the modes in wh	ich you can enter	the comma	und:				
		Firewall	Mode	Security (	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Crl configure configura	•	•	•	•	•			
Command History	Release Modification								
· · · · · · · · · · · · · · · · · · ·	7.0	This command w	as introduced.						
Examples	The following example minutes for trustpoint constraint (configure) # hostname(ca-trustpoint hostname(ca-crl) # cac hostname(ca-crl) #	entral: crypto ca trustpo at)# crl configure		specifies a	cache time ref	fresh value of 10			
Related Commands	Command	Description							
	crl configure	Enters crl configu	ration mode.						
	crypto ca trustpoint	Enters trustpoint	configuration mo	de.					
	enforcenextupdate	Specifies how to	<b>enforcenextupdate</b> Specifies how to handle the NextUpdate CRL field in a certificate.						

### call-agent

To specify a group of call agents, use the **call-agent** command in MGCP map configuration mode, which is accessible by using the **mgcp-map** command. To remove the configuration, use the **no** form of this command.

call-agent ip\_address group\_id

**no call-agent** *ip\_address* group\_id

	· 11						
Syntax Description	ip_address		ess of the gat		21.15.102.6		
	group_id	group_id The ID of the call agent group, from 0 to 2147483647.					
Defaults	This command	is disabled by do	efault.				
Command Modes	The following t	able shows the r	nodes in whic	ch you can enter	the comma	nd:	
			Firewall N	lode	Security (	Context	
						Multiple	
	Command Mode	e	Routed	Transparent	Single	Context	System
	Global configu	ration	•	•	•	•	
	- <del> </del>						
Command History	<b>Release</b> 7.0(1)		fication command was				
Usage Guidelines	The call agent g the one a gatew with the same g	group informatio ay sends a comm <i>roup_id</i> belong t	n is used to op nand to) so tha to the same gr	up of call agents ben connections at any of the call oup. A call agen 67295. The <i>ip_a</i>	for the call agents can t may belor	agents in the g send the respond to more than	roup (other than onse. Call agents one group. The
Examples	<pre>the call agent. The following example allows call agents 10.10.11.5 and 10.10.11.6 to control gateway 10.10.10.115, and allows call agents 10.10.11.7 and 10.10.11.8 to control both gateways 10.10.10.116 and 10.10.10.117: hostname(config'# mgcp-map mgcp_inbound hostname(config-mgcp-map)# call-agent 10.10.11.5 101 hostname(config-mgcp-map)# call-agent 10.10.11.6 101 hostname(config-mgcp-map)# call-agent 10.10.11.7 102 hostname(config-mgcp-map)# gateway 10.10.10.115 101</pre>						

hostname(config-mgcp-map)# gateway 10.10.10.117 102

**Related Commands** 

Commands	Description
debug mgcp	Enables the display of debug information for MGCP.
mgcp-map	Defines an MGCP map and enables MGCP map configuration mode.
show mgcp	Displays MGCP configuration and session information.

### call-duration-limit

To configure the call duration for an H.323 call, use the **call-duration-limit** command in parameters configuration mode, which is accessible from policy-map configuration mode. To disable this feature, use the **no** form of this command.

call-duration-limit *hh:mm:ss* 

no call-duration-limit *hh:mm:ss* 

Syntax Description	<i>hh:mm:ss</i> Specifies the duration in hours, minutes, and seconds.								
Defaults	No default behavior	or values.							
command Modes	The following table s	shows the m	odes in whic	h you can enter	the comma	ind:			
			Firewall N	lode	Security (	Context			
					Multiple				
	Command Mode		Routed	Transparent	Single	Context	System		
	Parameters configura	ation	•	•	•	•	—		
xamples	<ul> <li>This command was introduced.</li> <li>The following example shows how to configure the call duration for an H.323 call: hostname(config)# policy-map type inspect h323 h323_map hostname(config-pmap)# parameters</li> </ul>								
Related Commands	hostname(config-pm	Descript		limit 0:1:0					
	class			name in the po	licy map.				
	class-map type inspect	Creates a	an inspection	n class map to ma	atch traffic	specific to an	application.		
	policy-map	Creates a	a Layer 3/4 p	oolicy map.					
	show running-confi policy-map	<b>show running-config</b> Display all current policy map configurations. <b>policy-map</b>							

### call-home

To enter call home configuration mode, use the call-home command in global configuration mode.

call-home

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

**Command Default** 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
Global configuration	•	•	•		•

Command History	Release	Modification
	8.2(2)	This command was introduced.

### **Usage Guidelines** After you enter the **call-home** command, the prompt changes to hostname(cfg-call-home)#, and you have access to the Call Home configuration commands as follows:

• **[no] alert-group {group name | all}**—Enables/disables Smart Call Home group. The default is enabled for all alert-groups. Supported Modes: single mode and system context in multimode, routed/transparent.

**group name:** syslog, diagnostic, environment, inventory, configuration, snapshot, threat, telemetry, test.

• **[no] contact-e-mail-addr e-mail-address**—Specifies the customer contact e-mail address. This field is required. Supported Modes: single mode and system context in multimode, routed/transparent

Supported Modes: single mode and system context in multimode, routed/transparent. **e-mail-address:** a customer e-mail address up to 127 characters.

- [no] contact-name contact name—Specifies the customer name. Supported Modes: single mode and system context in multimode, routed/transparent. e-mail-address: a customer name up to 127 characters.
- copy profile src-profile-name dest-profile-name—Copies the content of an existing profile (src-profile-name) to a new profile (dest-profile-name).
   Supported Modes: single mode and system context in multimode, routed/transparent.
   src-profile-name: an existing profile name up to 23 characters.
   dest-profile-name: a new profile name up to 23 characters.

- rename profile src-profile-name dest-profile-name—Changes the name of an existing profile. Supported Modes: single mode and system context in multimode, routed/transparent. src-profile-name: an existing profile name up to 23 characters. dest-profile-name: a new profile name up to 23 characters.
- **no configuration all**—Clears the Smart Call-home configuration. Supported Modes: single mode and system context in multimode, routed/transparent.
- [no] customer-id customer-id-string—Specifies the customer ID. Supported Modes: single mode and system context in multimode, routed/transparent. customer-id-string: a customer ID up to 64 characters. This field is required for XML format messages.
- [no] event-queue-size queue\_size—Specifies event queue size. Supported Modes: single mode and system context in multimode, routed/transparent. queue-size: the number of events from 5-10. The default is 10.
- [no] mail-server ip-address | name priority 1-100 all—Specifies the SMTP mail server. Customers can specify up to five mail servers. At least one mail server is required for using e-mail transport for Smart Call Home messages. Supported Modes: single mode and system context in multimode, routed/transparent.
   ip-address: IPv4 or IPv6 address of the mail server. name: the hostname of the mail server.
   1-100: the priority of the mail server. The lower the number, the higher the priority.
- [no] phone-number phone-number-string—Specifies the customer phone number. This field is optional.

Supported Modes: single mode and system context in multimode, routed/transparent. **phone-number-string:** the phone number .

• [no] rate-limit msg-count—Specifies the number of messages Smart Call Home can send per minute.

Supported Modes: single mode and system context in multimode, routed/transparent. **msg-count:** the number of messages per minute. The default value is 10.

- [no] sender { from e-mail-address | reply-to e-mail-address }—Specifies the from/reply-to e-mail address of an e-mail message. This field is optional.
   Supported Modes: single mode and system context in multimode, routed/transparent.
   e-mail-address: the from/reply-to e-mail address.
- [no] site-id site-id-string—Specifies the customer site ID. This field is optional. Supported Modes: single mode and system context in multimode, routed/transparent. site-id-string: a site ID to identify the location of the customer.
- **[no] street-address street-address**—Specifies the customer address. This field is optional. Supported Modes: single mode and system context in multimode, routed/transparent. **street-address:** a free-format string up to 255 characters.
- **[no] alert-group-config environment**—Enters environment group configuration mode. Supported Modes: single mode and system context in multimode, routed/transparent.
- **[no] threshold {cpu | memory} low-high**—Specifies the environmental resource threshold. Supported Modes: single mode and system context in multimode, routed/transparent. **low, high:** 0-100. The default is 85-90.
- **[no] alert-group-config snapshot**—Enters snapshot group configuration mode. Supported Modes: single mode and system context in multimode, routed/transparent. **system, user:** To run the CLI in sysem or user context (available only in multimode).

• [no] add-command "cli command" [{system | user}] — Specifies CLI commands to capture in the snapshot group.

Supported Modes: single mode and system context in multimode, routed/transparent. **cli command:** CLI command to be executed.

**system, user:** To run the CLI in system or user context (available only in multimode). If both the system and user are not specified, the CLI will be run in both the system and user contexts. The default is the user context.

- [no] profile profile-name | no profile all—Creates/deletes/edits a profile. Enters profile configuration mode and changes the prompt to hostname(cfg-call-home-profile)#. Supported Modes: single mode and system context in multimode, routed/transparent. profile-name: a profile name up to 20 characters.
- **[no] active**—Enables/disables a profile. The default is enabled. Supported Modes: single mode and system context in multimode, routed/transparent.
- no destination address {e-maile-mail | http} all | [no] destination {address {e-mail | http}
   e-mail-address | http-url [msg-format short-text | long-text | xml] | message-size-limit max-size
   | preferred-msg-format short-text | long-text | xml | transport-method e-mail |
   http}—Configures destination, message size, message format, and transport method for the Smart
   Call Home message receiver. The default message format is XML, and the default enabled transport
   method is e-mail.

Supported Modes: single mode and system context in multimode, routed/transparent. e-mail-address: the e-mail address of the Smart Call Home receiver, up to 100 characters. http-url: HTTP/HTTPS URL.

max-size: the maximum message size in bytes. 0 means no limit. The default is 5 MB.

- [no] subscribe-to-alert-group alert-group-name [severity{catastrophic | disaster | emergencies | alert | critical | errors | warning | notifications | informational | debugging}]—Subscribes to events of a group with a specified severity level. Supported Modes: single mode and system context in multimode, routed/transparent. alert-group-name: syslog, diagnostic, environment, or threat.
- [no] subscribe-to-alert-group syslog [{severity{catastrophic | disaster | emergencies | alert | critical | errors | warning | notifications | informational | debugging} | message start [-end]}]—Subscribes to syslogs with a severity level or message ID. Supported Modes: single mode and system context in multimode, routed/transparent. start-[end]: one syslog message ID or a range of syslog message IDs.
- [no] subscribe-to-alert-group inventory [periodic {daily | monthly day\_of\_month | weekly day\_of\_week [hh:mm]]—Subscribes to inventory events.
   Supported Modes: single mode and system context in multimode, routed/transparent.
   day\_of\_month: day of a month, 1-31.
   day\_of\_week: day of a week, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.
   hh, mm: hours and minutes of a day, in 24-hour time.
- [no] subscribe-to-alert-group configuration [export full | minimum] [periodic {daily | monthly day\_of\_month | weekly day\_of\_week [hh:mm]]—Subscribes to configuration events. Supported Modes: single mode and system context in multimode, routed/transparent. full: configuration to export running-config, startup-config, feature list, number of elements in an access list, and the context name in multimode.
   minimum: configuration to export-only feature list, number of elements in an access list, and the context name in multimode.
   day\_of\_month: day of a month, 1-31.

**day\_of\_week:** day of a week, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday. **hh, mm:** hours and minutes of a day, in 24-hour time.

- [no] subscribe-to-alert-group telemetry periodic {hourly | daily | monthly day\_of\_month | weekly day\_of\_week [hh:mm]—Subscribes to telemetry periodic events. Supported Modes: single mode and system context in multimode, routed/transparent. day\_of\_month: day of a month, 1-31. day\_of\_week: day of a week, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday. hh, mm: hours and minutes of a day, in 24-hour time.
- [no] subscribe-to-alert-group <snapshot> periodic {
   interval minutes | hourly [mm>] | daily | monthly day\_of\_month |weekly day\_of\_week
   [hh:mm]}—Subscribes to snapshot periodic events.
   Supported Modes: single mode and system context in multimode, routed/transparent.
   minutes: interval in minutes.

day\_of\_month: day of a month, 1-31.

**day\_of\_week:** day of a week, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday. **hh, mm:** hours and minutes of a day, in 24-hour time.



```
Note
```

Call-home HTTPS messages can *only* be sent over a specified source interface on the VRF using the **ip http client source-interface** command, independent of the **vrf** command described here.

#### Examples

The following example show how to configure contact information:

```
hostname(config)# call-home
hostname(cfg-call-home)# contact-e-mail-addr username@example.com
hostname(cfg-call-home)# customer-id Customer1234
hostname(cfg-call-home)# phone-number +1-800-555-0199
hostname(cfg-call-home)# site-id Site1
hostname(cfg-call-home)# street-address "1234 Any Street, Any city, Any state, 12345"
```

The following example shows how to configure the Call Home message rate-limit threshold:

```
hostname(config)# call-home
hostname(cfg-call-home)# rate-limit 50
```

The following example shows how to set the Call Home message rate-limit threshold to the default setting:

```
hostname(config)# call-home
hostname(cfg-call-home)# default rate-limit
```

The following example shows how to create a new destination profile with the same configuration settings as an existing profile:

```
hostname(config)# call-home
hostname(cfg-call-home)# copy profile profile1 profile1a
```

The following example shows how to configure the general e-mail parameters, including a primary and secondary e-mail server:

```
hostname(config)# call-home
hostname(cfg-call-home)# mail-server smtp.example.com priority 1
hostname(cfg-call-home)# mail-server 192.168.0.1 priority 2
hostname(cfg-call-home)# sender from username@example.com
hostname(cfg-call-home)# sender reply-to username@example.com
```

# Related Commands Command Description alert-group Enables an alert group. profile Enters Call Home profile configuration mode. show call-home Displays Call Home configuration information.

### call-home reporting anonymous

To enable anonymous reporting, use the **call-home reporting anonymous** command in configuration mode. To disable anonymous reporting, use the **no** form of this command.

call-home reporting anonymous

no call-home reporting anonymous

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

Defaults	By default, anonymous reporting is not enabled.
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**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security C	ontext		
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Global configuration	•	•	•	_	•	

Command History	Release	Modification
	8.2(5)	We introduced this command.

**Usage Guidelines** This command enables the Anonymous Reporting feature and creates a new anonymous profile. Entering this command creates a trust point and installs a certificate that is used to verify the identity of the Cisco web server.

#### **Examples** The following example enables anonymous reporting: hostname(config)# call-home reporting anonymous

#### Related Commands

Command	Description
call home	Enters call-home submode.
call-home test	Tests whether or not anonymous reporting was enabled.
service call-home	Enables the Call Home service.

### call-home send

To execute a CLI command and e-mail the command output, use the **call-home send** command in privileged EXEC mode.

call-home send cli command [email email] [service-number service number]

Syntax Description	cli command	Specifies a	CLI comman	d to be executed	. The comm	nand output is	sent by e-mail.	
	email email	-	pecified, the o	ess to which the command output		-		
	<b>service-number</b> Specifies an active TAC case number to which the command output pertains. This number is required only if no e-mail address (or a TAC e-mail address) is specified, and will appear in the e-mail subject line.							
Defaults	No default behavio	or or values.						
Command Modes	The following tabl	e shows the m			1			
			Firewall N	lode	Security C			
	Command Mode		Routed	Transparent	Single	Multiple Context	System	
	Privileged EXEC		•	•	•	•	•	
Command History	Release	Modif	ication					
	8.2(2)	This c	command was	s introduced.				
Usage Guidelines	This command cau command must be for all modules.	-				•	-	
Usage Guidelines	command must be	enclosed in qu put is then ser mand output is	uotes (""), an nt by e-mail to s sent to the C	d can be any <b>run</b> o the specified e Cisco TAC at atta	n or <b>show</b> c -mail addre ach@cisco.	ommand, inclu ess. If no e-mai	iding commands	
Usage Guidelines Examples	command must be for all modules. The command outp specified, the comm	enclosed in qu put is then ser mand output is le service num mple shows he	uotes (""), an nt by e-mail to s sent to the C iber, if specif ow to send a	d can be any <b>run</b> o the specified e Cisco TAC at atta ied, in the subjec CLI command a	n or <b>show</b> c -mail addre ach@cisco. ct line. nd have the	ommand, inclu ess. If no e-mai com. The e-ma e command out	iding commands il address is til is sent in long tput e-mailed:	
Usage Guidelines Examples Related Commands	command must be for all modules. The command outp specified, the comm text format with th The following exam	enclosed in qu put is then ser mand output is le service num mple shows he	uotes (""), an nt by e-mail to s sent to the C aber, if specif ow to send a <b>ow diagnost</b> :	d can be any <b>run</b> o the specified e Cisco TAC at atta ied, in the subjec CLI command a	n or <b>show</b> c -mail addre ach@cisco. ct line. nd have the Le all" em	ommand, inclu ess. If no e-mai com. The e-ma e command out ail support@e	iding commands il address is til is sent in long tput e-mailed:	

service call-home	Enables or disables the Call Home service.
show call-home	Displays Call Home configuration information.

### call-home send alert-group

To send a specific alert group message, use the **call-home send alert-group** command in privileged EXEC mode.

**call-home send alert-group** {**configuration** | **telemetry** | **inventory** | **group snapshot**} [**profile** *profile-name*]

Syntax Description	configuration	Sends the configu	ration alert-group	o message t	o the destination	on profile.	
	group snapshot	Sends the snapsho	ot group.				
	inventory	Sends the inventor	ry call-home mes	sage.			
	profile profile-name	(Optional) Specifi	es the name of th	e destination	on profile.		
	telemetry	Sends the diagnostic alert-group message to the destination profile for specific module, slot/subslot, or slot/bay number.					
efaults	No default behavior or	values.					
ommand Modes	The following table sho	ws the modes in whi	ch you can enter	the comma	nd:		
		Firewall Mode		Security Context			
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•		•	
		Modification					
ommand History	Release	Mounioution					
command History	Release           8.2(2)	This command wa	as introduced.				
ommand History			as introduced.				
		This command wa		sent to all	subscribed dest	tination pro	
	8.2(2)	This command wa e <b>profile</b> <i>profile-nam</i> diagnostic, and inve	e, the message is ntory alert group			-	
sage Guidelines	8.2(2) If you do not specify th Only the configuration,	This command wa e <b>profile</b> <i>profile-nam</i> diagnostic, and inve scribed to the alert gr	<i>e</i> , the message is ntory alert group oup.	s can be ma	nually sent. Th	ne destinati	
sage Guidelines	8.2(2) If you do not specify th Only the configuration, profile need not be subs The following example	This command wa e <b>profile</b> <i>profile-nam</i> diagnostic, and invescribed to the alert gr shows how to send the	e, the message is ntory alert group roup. he configuration	s can be ma	nually sent. Th	ne destinati	
Command History Jsage Guidelines Examples	8.2(2) If you do not specify th Only the configuration, profile need not be subs The following example profile:	This command water e <b>profile</b> <i>profile-nam</i> diagnostic, and investoribed to the alert gr shows how to send the send alert-group constrained to send the sen	e, the message is ntory alert group oup. he configuration <b>onfiguration</b> ne diagnostic aler	s can be ma alert-group	nually sent. The message to the	ne destinati	

The following example shows how to send the diagnostic alert-group message to all destination profiles for a specific module, slot/subslot, or slot/bay number:

hostname# call-home send alert-group diagnostic module 3 5/2 profile Ciscotac1

This example shows how to send the inventory call-home message:

hostname# call-home send alert-group inventory

<b>Related Commands</b>	call-home (global configuration)	Enters Call Home configuration mode.
	call-home test	Sends a Call Home test message that you define.
	service call-home	Enables or disables the Call Home service.
	show call-home	Displays Call Home configuration information.

### call-home test

To manually send a Call Home test message using the configuration of a profile, use the **call-home test** command in privileged EXEC mode.

call-home test ["test-message"] [reporting anonymous] profile profile-name

Syntax Description	profile profile-name	Specifies the name	of the destination	profile.					
	reporting anonymous	(Optional) Tests wh anonymous message	•	current co	nfiguration is a	able to send			
	<i>"test-message"</i> (Optional) Specifies test message text that must be enclosed within quotation marks if it contains spaces.								
Defaults	No default behavior or	values.							
Command Modes	The following table sh		-	1					
		Firewall I	viode	Security (					
	Command Mode	Routed	Transparent	Single	Multiple Context	System			
	Privileged EXEC	•	•	•		•			
Command History		Release Modification							
	8.2(2) 8.2(5)	This command wa This command ad			a				
Usage Guidelines	This command sends a you must enclose the t	test message to the spectrum of the spectrum o	pecified destinati	on profile.	If you enter te	st message text,			
Examples	default message is sen The following example hostname# call-home	e shows how to manua	•		iessage:				
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Related Commands	call-home (global con	-			iguration mod				
	call-home send alert-	group	-		group message.				
	service call-home				e Call Home se				
	show call-home		Displays Ca	ll Home co	show call-home Displays Call Home configuration information.				

### call-party-numbers

To enforce sending call party numbers during an H.323 call setup, use the **call-party-numbers** command in parameters configuration mode, which is accessible from policy-map configuration mode. To disable this feature, use the **no** form of this command.

#### call-party-numbers

#### no call-party-numbers

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

**Defaults** No default behavior or values.

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

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

# Release Modification 7.2(1) This command was introduced.

Examples

The following example shows how to enforce call party numbers during call setup for an H.323 call:

hostname(config)# policy-map type inspect h323 h323\_map hostname(config-pmap)# parameters hostname(config-pmap-p)# call-party-numbers

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

capture

### capture

To enable packet capture capabilities for packet sniffing and network fault isolation, use the **capture** command in privileged EXEC mode. To disable packet capture capabilities, use the **no** form of this command.

Syntax Description	access-list access_list_name	(Optional) Captures traffic that matches an access list. In multiple context mode, this is only available within a context.
	any	Specifies any IP address instead of a single IP address and mask.
	all	Captures all the packets that the adaptive security appliance drops
	<b>asp-drop</b> [drop-code]	(Optional) Captures packets dropped by the accelerated security path. The <i>drop-code</i> specifies the type of traffic that is dropped by the accelerated security path. See the <b>show asp drop frame</b> command for a list of drop codes. If you do not enter the <i>drop-code</i> argument, then all dropped packets are captured.
		You can enter this keyword with <b>packet-length</b> , <b>circular-buffer</b> , and <b>buffer</b> , but not with <b>interface</b> or <b>ethernet-type</b> .
	<b>buffer</b> <i>buf_size</i>	(Optional) Defines the buffer size used to store the packet in bytes. Once the byte buffer is full, packet capture stops.
	capture_name	Specifies the name of the packet capture. Use the same name on multiple <b>capture</b> statements to capture multiple types of traffic. When you view the capture configuration using the <b>show capture</b> command, all options are combined on one line.
	circular-buffer	(Optional) Overwrites the buffer, starting from the beginning, when the buffer is full.
	detail	(Optional) Displays additional protocol information for each packet.
	dump	(Optional) Displays a hexadecimal dump of the packets that are transported over the data link transport.
	decrypted	(Optional) Decrypted TCP data is encapsulated with L2-L4 headers, and captured by the capture engine.
	ethernet-type type	(Optional) Selects an Ethernet type to capture. The default is IP packets. An exception occurs with the 802.1Q or VLAN type. The 802.1Q tag is automatically skipped and the inner Ethernet type is used for matching.
	host ip	Specifies the single IP address of the host to which the packet is being sent.

•	
<b>interface</b> <i>interface_name</i>	Sets the name of the interface on which to use packet capture. You must configure an interface for any packets to be captured. You can configure multiple interfaces using multiple <b>capture</b> commands with the same name. To capture packets on the dataplane of an ASA 5500 series adaptive security appliance, you can use the <b>interface</b> keyword with <b>asa_dataplane</b> as the name of the interface.
isakmp	(Optional) Captures ISAKMP traffic. This is not available in multiple context mode. The ISAKMP subsystem does not have access to the upper layer protocols. The capture is a pseudo capture, with the Physical, IP, and UDP layers combined together to satisfy a PCAP parser. The peer addresses are obtained from the SA exchange and are stored in the IP layer.
mask	The subnet mask for the IP address. When you specify a network mask, the method is different from the Cisco IOS software <b>access-list</b> command. The security appliance uses a network mask (for example, 255.255.255.0 for a Class C mask). The Cisco IOS mask uses wildcard bits (for example, 0.0.0.255).
match prot	Specifies the packets that match the five-tuple to allow filtering of those packets to be captured. You can use this keyword up to three times on one line.
operator	(Optional) Matches the port numbers used by the source or destination. The permitted operators are as follows:
	• <b>lt</b> —less than
	• gt—greater than
	• eq—equal to
<b>packet-length</b> bytes	(Optional) Sets the maximum number of bytes of each packet to store in the capture buffer.
port	(Optional) If you set the protocol to <b>tcp</b> or <b>udp</b> , specifies the integer or name of a TCP or UDP port.
raw-data	(Optional) Captures inbound and outbound packets on one or more interfaces. This setting is the default.
real-time	Displays the captured packets continuously in real-time. To terminate real-time packet capture, enter <b>Ctrl + c.</b> This option applies only to <b>raw-data</b> and <b>asp-drop</b> captures.
tls-proxy	(Optional) Captures decrypted inbound and outbound data from TLS Proxy on one or more interfaces.
	<b>Note</b> The <b>type tls-proxy</b> option will cause fake TCP handshake packets to be inserted into the capture.
trace trace_count	(Optional) Captures packet trace information, and the number of packets to capture. This is used with an access list to insert trace packets into the data path to determine whether the packet is processed as expected.
type	(Optional) Specifies the type of data captured.
url url	(Optional) Specifies a URL prefix to match for data capture. Use the URL format http://server/path to capture HTTP traffic to the server. Use https://server/path to capture HTTPS traffic to the server.
user webvpn-user	(Optional) Specifies a username for a WebVPN capture.
webvpn	(Optional) Captures WebVPN data for a specific WebVPN connection.

#### The defaults are as follows:

- The default **type** is **raw-data**.
- The default **buffer** *size* is 512 KB.
- The default Ethernet type is IP.
- The default **packet-length** is 1518 bytes.

**Command Modes** 

Defaults

**odes** The following table shows the modes in which you can enter the command:

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

Command History	Release	Modification
	6.2(1)	This command was introduced.
	7.0(1)	This command was modified to include the following keywords: <b>type asp-drop</b> , <b>type isakmp</b> , <b>type raw-data</b> , and <b>type webvpn</b> .
	7.0(8)	Added the <b>all</b> option to capture all packets that the adaptive security appliance drops.
	7.2(1)	This command was modified to include the following options: <b>trace</b> <i>trace_count</i> , <b>match</b> <i>prot</i> , <b>real-time</b> , <b>host</b> <i>ip</i> , <b>any</b> , <i>mask</i> , and <i>operator</i> .
	8.0(2)	This command was modified to update the path to capture contents.
	8.0(4)	This command was modified to include the following keyword: <b>type decrypted</b> .

#### Usage Guidelines

Capturing packets is useful when troubleshooting connectivity problems or monitoring suspicious activity. You can create multiple captures. To view the packet capture, use the **show capture** *name* command. To save the capture to a file, use the **copy capture** command. Use the **https://adaptive** *security appliance-ip-address/admin/capture/capture\_name*[/pcap] command to see the packet capture information with a web browser. If you specify the **pcap** optional keyword, then a libpcap-format file is downloaded to the web browser and can be saved using the web browser. (A libcap file can be viewed with TCPDUMP or Ethereal.)

If you copy the buffer contents to a TFTP server in ASCII format, you will see only the headers, not the details and hexadecimal dump of the packets. To see the details and hexadecimal dump, you need to transfer the buffer in PCAP format and read it with TCPDUMP or Ethereal.



Enabling WebVPN capture affects the performance of the adaptive security appliance. Be sure to disable the capture after you generate the capture files that you need for troubleshooting.

Entering **no capture** without optional keywords deletes the capture. If the **access-list** optional keyword is specified, the access list is removed from the capture and the capture is preserved. If the **interface** keyword is specified, the capture is detached from the specified interface and the capture is preserved. Enter the **no capture** command with either the **access-list** or **interface** optional keyword unless you want to clear the capture itself.

You cannot perform any operations on a capture while the real-time display is in progress. Using the **real-time** keyword with a slow console connection may result in an excessive number of non-displayed packets because of performance considerations. The fixed limit of the buffer is 1000 packets. If the buffer fills up, a counter is maintained of the captured packets. If you open another session, you can disable the real-time display be entering the **no capture real-time** command.

Note

lote

The **capture** command is not saved to the configuration, and is not copied to the standby unit during failover.

**Examples** 

To capture a packet, enter the following command:

```
hostname# capture captest interface inside
hostname# capture captest interface outside
```

On a web browser, the contents of the capture command that was issued, named "captest", can be viewed at the following location:

https://171.69.38.95/admin/capture/captest

To download a libpcap file (which web browsers use) to a local machine, enter the following command:

https://171.69.38.95/capture/http/pcap

The following example shows that the traffic is captured from an outside host at 171.71.69.234 to an inside HTTP server:

hostname# access-list http permit tcp host 10.120.56.15 eq http host 171.71.69.234 hostname# access-list http permit tcp host 171.71.69.234 host 10.120.56.15 eq http hostname# capture http access-list http packet-length 74 interface inside

The following example shows how to capture ARP packets:

hostname# capture arp ethernet-type arp interface outside

The following example inserts five tracer packets into the data stream, where *access-list 101* defines traffic that matches TCP protocol FTP :

hostname# capture ftptrace interface outside access-list 101 trace 5

To view the traced packets and information about packet processing in an easily readable manner, use the **show capture ftptrace** command.

This example shows how to display captured packets in real-time:

```
hostname# capture test interface outside real-time
Warning: Using this option with a slow console connection may result in an excess amount
of non-displayed packets due to performance limitations.
Use ctrl-c to terminate real-time capture.
```

```
10 packets displayed
12 packets not displayed due to performance limitations
```

<b>Related Commands</b>	Command	Description
	clear capture	Clears the capture buffer.
	copy capture	Copies a capture file to a server.
	show capture	Displays the capture configuration when no options are specified.

### cd

To change the current working directory to the one specified, use the **cd** command in privileged EXEC mode.

cd [disk0: | disk1: | flash:] [path]

Syntax Description	<b>disk0</b> : Specifies the internal Flash memory, followed by a colon.							
	disk1: Specifies the removable, external Flash memory card, followed by a colon.							
	flash: Specifies the internal Flash memory, followed by a colon. In the ASA 5500 series, the <b>flash</b> keyword is aliased to <b>disk0</b> .							
	path     (Optional) The absolute path of the directory to change to.							
	puin							
Defaults	If you do not spe	ecify a directory,	the director	y is changed to t	he root dire	ectory.		
Command Modes	The following ta	able shows the mo	odes in whic	h you can enter	the comma	nd:		
		Firewall Mode			Security Context			
						Multiple		
	Command Mode	ŧ	Routed	Transparent	Single	Context	System	
	Privileged EXE	С	•	•	•		•	
Command History	Release	Modifie	cation					
	7.0(1)This command was introduced.							
	7.0(1)		, in the second se	mnouuttu				
Examples		nows how to change						
Examples		nows how to chang						
Examples Related Commands	This example sh	nows how to chang	ge to the "co					

### cdp-url

To specify the CDP to be included in certificates issued by the local CA, use the **cdp-url** command in CA server configuration mode. To revert to the default CDP, use the **no** form of this command.

[no] cdp-url url

Syntax Description	<i>url</i> Specifies the URL where a validating party obtains revocation status for certificates issued by the local CA. The URL must be less than 500 alphanumeric characters.						
Defaults	The default CDP URL is that URL is in the format: http://ho	-	• • •		udes the local	CA. The default	
Command Modes	The following table shows the	modes in whic	h you can enter	the comma	nd:		
		Firewall N	lode	Security C	Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	CA server configuration	•		•			
Command History		dification					
	8.0(2) Thi	s command was	s introduced.				
Usage Guidelines	The CDP is an extension that validating party can obtain rev time.	vocation status	for the certificat	e. Only one	e CDP can be c	configured at a	
Note	If a CDP URL is specified, it in CRL from that location.	is the responsib	ility of the admi	nistrator to	maintain acce	ss to the current	
Examples	The following example config hostname(config)# crypto c hostname(config-ca-server) hostname(config-ca-server)	a server # cdp-url htt			issued by the l	ocal CA server:	

#### **Related Commands**

Command	Description
crypto ca server	Provides access to CA Server Configuration mode CLI command set, which allows you to configure and manage a local CA.
crypto ca server crl issue	Forces the issuance of a CRL.
crypto ca server revoke	Marks a certificate issued by a local CA server as revoked in the certificate database and CRL.
crypto ca server unrevoke	Unrevokes a previously revoked certificate issued by a local CA server.
lifetime crl	Specifies the lifetime of the certificate revocation list.

### certificate

Use the **certificate** command in crypto ca certificate chain configuration mode to add the indicated certificate. When this command is issued, the adaptive security appliance interprets the data included with it as the certificate in hexadecimal format. A **quit** string indicates the end of the certificate. To delete the certificate, use the **no** form of this command.

certificate [ca | ra-encrypt | ra-sign | ra-general] certificate-serial-number

no certificate certificate-serial-number

	·											
Syntax Description	certificate-serial-number	Specifies the series with the word qu		certificate	in hexadecima	l format ending						
	ca	Indicates that the		CA issuing	certificate.							
	ra-encryptIndicates that the certificate is an RA key encipherment certificate use SCEP.											
	<b>ra-general</b> Indicates that the certificate is an RA certificate used for digital signin and key encipherment in SCEP messaging.											
	ra-sign	Indicates that the SCEP messaging		n RA digita	l signature cer	tificate used in						
Defaults	No default behavior or valu	ies.										
Command Modes	The following table shows	-										
		Firewall Mode		Security Context								
	O	Dented	<b>T</b>	Circula	Multiple	<b>C</b>						
	Command Mode	Routed	Transparent	•	Context	System •						
	Crypto ca certificate chain configuration	•	•	•	•	•						
Command History	Release	Modification										
	7.0(1)	This command wa	s introduced.									
Usage Guidelines	A CA is an authority in a message encryption. As par provided by the requestor of can then issue a certificate.	rt of a public key in of a digital certific	nfrastructure, a C	CA checks v	vith a RA to ve	rify information						
Examples	The following example add			mber 29573	3D5FF010FE2	5B45:						
	nostname(config)# <b>crypt</b> (	o ca trustpoint	central			hostname(config)# crypto ca trustpoint central						

		-	·		rtificate			
hostr	name(ca	a-cert-cha	ain)# <b>cert</b>	ificate o	a 29573D	5FF010FE25	5B45	
308	320345	308202EF	A0030201	02021029	572A3FF2	96EF854F	D0D6732F	E25B4530
0D0	6092A	864886F7	0D010105	05003081	8F311630	1406092A	864886F7	0D010901
160	076140	622E636F	6D310B30	09060355	04061302	55533116	30140603	55040813
ODe	5D6173	73616368	75736574	74733111	300F0603	55040713	08667261	6E6B6C69
6E3	810E30	0C060355	040A1305	63697363	6F310F30	0D060355	040B1306	726F6F74
6F7	75311C	301A0603	55040313	136D732D	726F6F74	2D736861	2D30362D	32303031
301	E170D	30313036	32363134	31313430	5A170D32	32303630	34313430	3133305A
308	318F31	16301406	092A8648	86F70D01	09011607	6140622E	636F6D31	0B300906
035	50406	13025553	31163014	06035504	08130D6D	61737361	63687573	65747473
311	1300F	06035504	07130866	72616E6B	6C696E31	0E300C06	0355040A	13056369
736	536F31	0F300D06	0355040B	1306726F	6F746F75	311C301A	06035504	0313136D
732	2D726F	6F742D73	68612D30	362D3230	3031305C	300D0609	2A864886	F70D0101
010	50003	4B003048	024100AA	3EB9859B	8670A6FB	5E7D2223	5C11BCFE	48E6D3A8
181	643ED	CF7E75EE	E77D83DF	26E51876	97D8281E	9F58E4B0	353FDA41	29FC791B
1E1	4219C	847D19F4	A51B7B02	03010001	A3820123	3082011F	300B0603	551D0F04
040	30201	C6300F06	03551D13	0101FF04	05300301	01FF301D	0603551D	0E041604
14E	E0D412	3ACC96C2	FBF651F3	3F66C0CE	A62AB63B	323081CD	0603551D	1F0481C5
308	31C230	3EA03CA0	3A86386C	6461703A	2F2F7732	6B616476	616E6365	64737276
2F4	136572	74456E72	6F6C6C2F	6D732D72	6F6F742D	7368612D	30362D32	3030312E
637	26C30	3EA03CA0	3A863868	7474703A	2F2F7732	6B616476	616E6365	64737276
2F4	136572	74456E72	6F6C6C2F	6D732D72	6F6F742D	7368612D	30362D32	3030312E
637	26C30	40A03EA0	3C863A66	696C653A	2F2F5C5C	77326B61	6476616E	63656473
727	65C43	65727445	6E726F6C	6C5C6D73	2D726F6F	742D7368	612D3036	2D323030
312	2E6372	6C301006	092B0601	04018237	15010403	02010130	0D06092A	864886F7
0D0	010105	05000341	0056221E	03F377B9	E6900BF7	BCB3568E	ADBA146F	3B8A71F3
DFS	EB96C	BB1873B2	B6268B7C	0229D8D0	FFB40433	C8B3CB41	0E4D212B	2AEECD77
BEA	A3C1FE	5EE2AB6D	91					
qui	t							

#### Related Commands C

Command	Description
clear configure crypto map	Clears all configuration for all crypto maps.
show running-config crypto map	Displays the crypto map configuration.
crypto ca certificate chain	Enters certificate crypto ca certificate chain mode.
crypto ca trustpoint	Enters ca trustpoint mode.
show running-config crypto map	Displays all configuration for all the crypto maps.

### certificate-group-map

To associate a rule entry from a certificate map with a tunnel group, use the **certificate-group-map** command in webvpn configuration mode. To clear current tunnel-group map associations, use the **no** form of this command.

certificate-group-map certificate\_map\_name index tunnel\_group\_name

no certificate-group-map

Syntax Description	certificate_map_name	The name of a certificate map.						
	index		identifier for a			te map. The		
			an be in a range					
	tunnel_group_namethe name of the tunnel group chosen if the map entry matches the certificate. The tunnel-group name must already exist.							
Defaults	This command is disabled b	by default.						
Command Modes	The following table shows	the modes in which	n you can enter	the comma	nd:			
		Firewall M	Firewall Mode		Security Context			
	<b>A 1 1 1</b>	<b>-</b>			Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Webvpn configuration	•		•				
Command History	Release Modification							
-	8.0(2)   This command was introduced.							
Usage Guidelines	With the <b>certificate-group</b> - corresponds to a map entry, tunnel-group choice made b	the resulting tunne by the user.	el-group is assoc	ciated with	the connection			
Usage Guidelines	corresponds to a map entry,	the resulting tunne by the user.	el-group is assoc	ciated with	the connection			
Usage Guidelines Examples	corresponds to a map entry, tunnel-group choice made b	the resulting tunne by the user. ertificate-group-m	el-group is assoc a <b>p</b> command al	ciated with llow multip	the connection le mappings.			

#### **Related Commands**

Command	Description
crypto ca certificate map	Enters CA certificate map configuration mode for configuring rules based on the certificate's issuer and subject distinguished names (DNs).
tunnel-group-map	Configures the policy and rules by which certificate-based IKE sessions are mapped to tunnel groups.

### chain

To enable sending of a certificate chain, use the **chain** command in tunnel-group ipsec-attributes configuration mode. This action includes the root certificate and any subordinate CA certificates in the transmission. To return this command to the default, use the **no** form of this command.

chain

no chain

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

**Defaults** The default setting for this command is disabled.

**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
Tunnel-group ipsec-attributes configuration	•	_	•	_	

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

**Usage Guidelines** You can apply this attribute to all IPSec tunnel-group types.

**Examples** The following example entered in tunnel-group-ipsec attributes configuration mode, enables sending a chain for an IPSec LAN-to-LAN tunnel group with the IP address of 209.165.200.225, which includes the root certificate and any subordinate CA certificates:

hostname(config)# tunnel-group 209.165.200.225 type IPSec\_L2L hostname(config)# tunnel-group 209.165.200.225 ipsec-attributes hostname(config-tunnel-ipsec)# chain hostname(config-tunnel-ipsec)#

#### Re

Command	Description			
clear-configure tunnel-group	Clears all configured tunnel groups.			
show running-config tunnel-group	Shows the current tunnel-group configuration.			
tunnel-group ipsec-attributes	Configures the tunnel-group ipsec-attributes for this group.			
	clear-configure tunnel-group show running-config tunnel-group			

### changeto

To change between security contexts and the system, use the **changeto** command in privileged EXEC mode.

changeto {system | context name}

Syntax Description	context name	<b>context</b> <i>name</i> Changes to the context with the specified name.						
	system	Changes to the syst	tem execution sp	bace.				
Defaults	No default behavior o	or values.						
Command Modes	The following table s	hows the modes in whic	h you can enter	the comma	nd:			
		Firewall Mode		Security Context				
	Command Mode	Routed	Trononoront	Single	Multiple Context	Sustam		
	Privileged EXEC	•	Transparent •	Sillyle —	•	System •		
Command History	Release Modification							
	7.0(1)This command was introduced.							
Usage Guidelines	If you log into the system execution space or the admin context, you can change between contexts and perform configuration and monitoring tasks within each context. The "running" configuration that you edit in configuration mode, or that is used in the <b>copy</b> or <b>write</b> commands, depends on which execution space you are in. When you are in the system execution space, the running configuration consists only of the system context. For example, you cannot view all running configurations (system plus all contexts) by entering the <b>show running-config</b> command. Only the current configuration appears.							
			ou cannot view a	ll running o	configurations	nfiguration (system plus a		
Examples	contexts) by entering The following examp	the show running-conf	ou cannot view a f <b>ig</b> command. Or	ll running only the curr	configurations ent configurati	nfiguration (system plus a on appears.		
Examples	contexts) by entering	the show running-conf ele changes between con angeto system context customerA	ou cannot view a f <b>ig</b> command. Or	ll running only the curr	configurations ent configurati	nfiguration (system plus a on appears.		
Examples	contexts) by entering The following examp hostname/admin# cha hostname/customerA# The following examp mode. When you cha	the show running-conf ele changes between con angeto system context customerA	ou cannot view a Fig command. Or texts and the sys system and the a spaces, and you a	Il running on a second	configurations ent configurati ileged EXEC 1 ext in interface	nfiguration (system plus a on appears. mode:		

#### **Related Commands**

Command	Description
admin-context	Sets a context to be the admin 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.

# character-encoding

To specify the global character encoding in WebVPN portal pages, use the **character-encoding** command in webvpn configuration mode. To remove the value of the character-encoding attribute, use the **no** form of this command.

character-encoding charset

no character-encoding [charset]

Syntax Description	charsetString consisting of up to 40 characters, and equal to one of the valid character sets identified in http://www.iana.org/assignments/character-sets. You can use either the name or the alias of a character set listed on that page. Examples include iso-8859-1, shift_jis, and ibm850.						
				nsensitive. The c e adaptive securi			
Defaults	No default behavi	or or values.					
Command Modes	The following tab	le shows the mo	odes in whic	h you can enter	the comma	nd:	
			Firewall M	lode	Security Context		
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Webvpn configur	ation	•		•		—
Command History	Release	Modifi	cation				
	7.1(1)	This co	ommand was	introduced.			
Usage Guidelines	<i>Character encodia</i> as 0's and 1's) and method to use. So determines the de can also detect the character-encodin WebVPN portal p user is using the b The character-encodin	d characters to r me languages us fault encoding r e encoding spec og attribute lets r age to ensure the prowser, or any	represent the se the same n method used dified on the the user spec at the brows changes mad	data. The langu- nethod, while oth by the browser, page, and rende cify the value of er renders it prop- le to the browse	age determ ners do not. but the use r the docun the charact perly, regard r.	tines the charac Usually, the ge r can change th nent according ter-encoding m dless of the reg	cter encoding eographic region nis. The browser ly. The nethod into the gion in which the

The character-encoding attribute is a global setting that, by default, all WebVPN portal pages inherit. However, the user can override the file-encoding attribute for Common Internet File System servers that use character encoding that differs from the value of the character-encoding attribute. Use different file-encoding values for CIFS servers that require different character encodings. The WebVPN portal pages downloaded from the CIFS server to the WebVPN user encode the value of the WebVPN file-encoding attribute identifying the server, or if one does not, they inherit the value of the character-encoding attribute. The remote user's browser maps this value to an entry in its character encoding set to determine the proper character set to use. The WebVPN portal pages do not specify a value if WebVPN configuration does not specify a file-encoding entry for the CIFS server and the character-encoding attribute is not set. The remote browser uses its own default encoding if the WebVPN portal page does not specify the character encoding or if it specifies a character encoding value that the browser does not support.

The mapping of CIFS servers to their appropriate character encoding, globally with the webvpn character-encoding attribute, and individually with file-encoding overrides, provides for the accurate handling and display of CIFS pages when the proper rendering of file names or directory paths, as well as pages, are an issue.



The character-encoding and file-encoding values do not exclude the font family to be used by the browser. The user needs to complement the setting of one these values with the **page style** command in webvpn customization command mode to replace the font family if you are using Japanese Shift\_JIS character encoding, as shown in the following example, or enter the **no page style** command in webvpn customization command mode to remove the font family.

The encoding type set on the remote browser determines the character set for WebVPN portal pages when this attribute does not have a value.

### Examples

The following example sets the character-encoding attribute to support Japanese Shift\_JIS characters, removes the font family, and retains the default background color:

hostname(config)# webvpn hostname(config-webvpn)# character-encoding shift\_jis F1-asa1(config-webvpn)# customization DfltCustomization F1-asa1(config-webvpn-custom)# page style background-color:white F1-asa1(config-webvpn-custom)#

<b>Related Commands</b>	Command	Description
	file-encoding	Specifies CIFS servers and associated character encoding to override the value of this attribute.
	show running-config	Displays the running configuration for WebVPN. Use the all keyword to
	[all] webvpn	include the default configuration.
	debug webvpn cifs	Displays debug messages about the CIFS.

## checkheaps

To configure checkheaps verification intervals, use the **checkheaps** command in global configuration mode. To set the value to the default, use the **no** form of this command. Checkheaps is a periodic process that verifies the sanity of the heap memory buffers (dynamic memory is allocated from the system heap memory region) and the integrity of the code region.

checkheaps {check-interval | validate-checksum} seconds

no checkheaps {check-interval | validate-checksum} [seconds]

Syntax Description	check-interval	Sets the buffer ve			-					
		the sanity of the h invocation of the	- ·		•	-				
		heap, validating e security appliance								
		error." If there is	an error, the adap	tive securit						
		information when possible and reloads.								
	validate-checksum	appliance first bo the entire code. L	ots up, the adaptivater, during the po	ve security eriodic che	appliance calcock, the adaptiv	ulates a hash o e security				
		appliance generat mismatch, the ada checkheaps error.	aptive security app	pliance issu	ies a "text cheo	cksum				
		traceback information		-	• •	1 1				
	seconds	Sets the interval i	n seconds betwee	n 1 and 214	47483.					
	The default intervals at The following table sh		ich you can enter	the comma	nd:					
				1						
		ows the modes in wh		the comma						
		ows the modes in wh		1	Context	System				
	The following table sh	ows the modes in white <b>Firewall</b>	Mode	Security C	Context Multiple	System •				
Command Modes	The following table showing ta	ows the modes in where <b>Firewall</b> <b>Routed</b> •	Mode Transparent	Security C Single	Context Multiple	-				
Command Modes	The following table sho Command Mode Global configuration Release	ows the modes in white Firewall Routed • Modification	Mode Transparent •	Security C Single	Context Multiple	-				
Command Modes	The following table shore Command Mode Global configuration Release 7.0(1)	ows the modes in where Firewall Routed  • Modification This command ways	Mode Transparent • as introduced.	Security C Single •	Context Multiple Context	•				
Defaults Command Modes Command History Examples	The following table sho Command Mode Global configuration Release	ows the modes in white Firewall Routed • Modification This command wate e sets the buffer allocation	Mode Transparent • as introduced.	Security C Single •	Context Multiple Context	•				

**Cisco ASA 5500 Series Command Reference** 

Related Commands	Command	Description
	show checkheaps	Shows checkheaps statistics.

### check-retransmission

To prevent against TCP retransmission style attacks, use the **check-retransmission** command in tcp-map configuration mode. To remove this specification, use the **no** form of this command.

check-retransmission

no check-retransmission

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

**Defaults** The default is disabled.

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

	Firewall Mode Security Context				
Command Mode			Single	Multiple	
	Routed	Transparent		Context	System
Tcp-map configuration	•	•	•	•	

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

**Usage Guidelines** The **tcp-map** command is used along with the Modular Policy Framework infrastructure. Define the class of traffic using the **class-map** command and customize the TCP inspection with **tcp-map** commands. Apply the new TCP map using the **policy-map** command. Activate TCP inspection with **service-policy** commands.

Use the **tcp-map** command to enter tcp-map configuration mode. To prevent against TCP retransmission style attacks that arise from end-system interpretation of inconsistent retransmissions, use the **check-retransmission** command in tcp-map configuration mode.

The adaptive security appliance will make efforts to verify if the data in retransmits are the same as the original. If the data does not match, then the connection is dropped by the adaptive security appliance. When this feature is enabled, packets on the TCP connection are only allowed in order. For more details, see the **queue-limit** command.

### Examples

The following example enables the TCP check-retransmission feature on all TCP flows:

hostname(config)# access-list TCP extended permit tcp any any hostname(config)# tcp-map tmap hostname(config-tcp-map)# check-retransmission hostname(config)# class-map cmap hostname(config-cmap)# match access-list TCP hostname(config)# policy-map pmap hostname(config-pmap)# class cmap hostname(config-pmap)# set connection advanced-options tmap hostname(config)# service-policy pmap global

### **Related Commands**

Command	Description	
class	Specifies a class map to use for traffic classification.	
help	elp Shows syntax help for the policy-map, class, and description command	
policy-map	Configures a policy; that is, an association of a traffic class and one or more actions.	
set connection	Configures connection values.	
tcp-map	Creates a TCP map and allows access to tcp-map configuration mode.	

### checksum-verification

To enable or disable TCP checksum verification, use the **checksum-verification** command in tcp-map configuration mode. To remove this specification, use the **no** form of this command.

checksum-verification

no checksum-verification

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

Defaults	Checksum	verification	is	disabled	by	default.
----------	----------	--------------	----	----------	----	----------

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

	Firewall N	Firewall Mode Security C			ontext	
			Single	Multiple		
Command Mode	Routed Transpar	Transparent		Context	System	
Tcp-map configuration	•	•	•	•		

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

**Usage Guidelines** The **tcp-map** command is used along with the Modular Policy Framework infrastructure. Define the class of traffic using the **class-map** command and customize the TCP inspection with **tcp-map** commands. Apply the new TCP map using the **policy-map** command. Activate TCP inspection with **service-policy** commands.

Use the **tcp-map** command to enter tcp-map configuration mode. Use the **checksum-verification** command in tcp-map configuration mode to enable TCP checksum verification. If the check fails, the packet is dropped.

# **Examples** The following example enables TCP checksum verification on TCP connections from 10.0.0.0 to 20.0.0.0:

hostname(config)# access-list TCP1 extended permit tcp 10.0.0.0 255.0.0.0 20.0.0.0
255.0.0.0
hostname(config)# tcp-map tmap
hostname(config-tcp-map)# checksum-verification

hostname(config)# class-map cmap hostname(config-cmap)# match access-list TCP1

hostname(config)# policy-map pmap hostname(config-pmap)# class cmap hostname(config-pmap)# set connection advanced-options tmap

hostname(config)# service-policy pmap global

Related Commands	Command	Description
	class	Specifies a class map to use for traffic classification.
	help	Shows syntax help for the <b>policy-map</b> , <b>class</b> , and <b>description</b> commands.
	policy-map	Configures a policy; that is, an association of a traffic class and one or more actions.
	set connection	Configures connection values.
	tcp-map	Creates a TCP map and allows access to tcp-map configuration mode.

## cipc security-mode authenticated

To force Cisco IP Communicator (CIPC) softphones to operate in authenticated mode when CIPC softphones are deployed in a voice and data VLAN scenario, use the **cipc security-mode authenticated** command in phone-proxy configuration mode.

To turn off this command when CIPC softphones support encryption, use the no form of this command.

cipc security-mode authenticated

no cipc security-mode authenticated

Syntax Description There are no arguments for keywords for this command.

**Defaults** Be default, this command is disabled via the no form of the command.

**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
Phone-proxy configuration	•		•		_

Command History	Release	Modification
	8.0(4)	The command was introduced.

**Usage Guidelines** 

Separating voice and data traffic by using VLANs is a security best practice to hide voice streams from security threats that attempt to penetrate the data VLAN. However, Cisco IP Communicator (CIPC) softphone applications must connect to their respective IP phones, which reside on the voice VLAN. This requirement makes segregating voice and data VLANs an issue because the SIP and SCCP protocols dynamically negotiate the RTP/RTCP ports on a wide range of ports. This dynamic negotiation requires that a range of ports be open between the two VLANs.

Note

Earlier versions of CIPC that do not support Authenticated mode are not supported with the Phone Proxy.

To allow CIPC softphones on the data VLAN to connect to their respective IP phones on the voice VLAN without requiring access between the VLANs on a wide range of ports, you can configure the Phone Proxy with the **cipc security-mode authenticated** command.

This command allows the Phone Proxy to look for CIPC configuration files and force CIPC softphones to be in authenticated mode rather than encrypted mode because current versions of CIPC do not support encrypted mode.

	phone is a CIPC sof	I is enabled, the Phone Proxy parses the phones configuration file to determine if the ftphone and changes the security mode to authenticated. Additionally, CIPC authenticated mode only while the Phone Proxy, by default, forces all phones to be			
Examples	The following example shows the use of the <b>cipc security-mode authenticated</b> command to force Cisco IP Communicator (CIPC) softphones to operate in authenticated mode when CIPC softphones are deployed in a voice and data VLAN scenario:				
		<pre>phone-proxy asa_phone_proxy hone-proxy)#cipc security-mode authenticated</pre>			
Related Commands	Command	Description			
	phone-proxy	Configures the Phone Proxy instance.			

# class (global)

To create a resource class to which to assign a security context, use the **class** command in global configuration mode. To remove a class, use the **no** form of this command.

class name

no class name

Syntax Description		pecifies the name e default class, en			ers long. To se	et the limits for		
Defaults	No default behavior or value	28.						
Command Modes	The following table shows the	he modes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security C	ontext			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•			•		
Command History	Release Modification							
,								
Usage Guidelines	By default, all security conto appliance, except where max contexts use too many resou then you can configure resou	imum limits per o rces, and they ca	context are enfor use other contex	ced. Howev ts to be der	ver, if you find nied connection	that one or more ns, for example,		
	The adaptive security appliance manages resources by assigning contexts to resource classes. Each context uses the resource limits set by the class.							
	When you create a class, the adaptive security appliance does not set aside a portion of the resources for each context assigned to the class; rather, the adaptive security appliance sets the maximum limit for a context. If you oversubscribe resources, or allow some resources to be unlimited, a few contexts can "use up" those resources, potentially affecting service to other contexts. See the <b>limit-resource</b> command to set the resources for the class.							
	All contexts belong to the de actively assign a context to t		y are not assigne	ed to anothe	er class; you do	o not have to		
	If a context belongs to a class class settings. However, if th uses the default class for the	e other class has	any settings that	are not def	fined, then the	member context		

concurrent connections, but no other limits, then all other limits are inherited from the default class. Conversely, if you create a class with limits for all resources, the class uses no settings from the default class.

By default, the default class provides unlimited access to resources for all contexts, except for the following limits, which are by default set to the maximum allowed per context:

- Telnet sessions—5 sessions.
- SSH sessions—5 sessions.
- MAC addresses—65,535 entries.

**Examples** The following example sets the default class limit for conns to 10 percent instead of unlimited:

```
hostname(config)# class default
hostname(config-class)# limit-resource conns 10%
```

All other resources remain at unlimited.

To add a class called gold, enter the following commands:

```
hostname(config)# class gold
hostname(config-class)# limit-resource mac-addresses 10000
hostname(config-class)# limit-resource conns 15%
hostname(config-class)# limit-resource rate conns 1000
hostname(config-class)# limit-resource rate inspects 500
hostname(config-class)# limit-resource hosts 9000
hostname(config-class)# limit-resource asdm 5
hostname(config-class)# limit-resource ssh 5
hostname(config-class)# limit-resource rate syslogs 5000
hostname(config-class)# limit-resource telnet 5
hostname(config-class)# limit-resource telnet 5
hostname(config-class)# limit-resource xlates 36000
```

<b>Related Commands</b>	Command	Description
	clear configure class	Clears the class configuration.
	context	Configures a security context.
	limit-resource	Sets the resource limit for a class.
	member	Assigns a context to a resource class.
	show class	Shows the contexts assigned to a class.

## class (policy-map)

To assign a class map to a policy map where you can assign actions to the class map traffic, use the **class** command in policy-map configuration mode. To remove a class map from a policy map, use the **no** form of this command.

class classmap\_name

no class classmap\_name

Syntax Descriptionclassmap\_nameSpecifies the name for the class map. For a Layer 3/4 policy map (the policy-map<br/>command), you must specify a Layer 3/4 class map name (the class-map or<br/>class-map type management command). For an inspection policy map (the<br/>policy-map type inspect command), you must specify an inspection class map name<br/>(the class-map type inspect command).

**Defaults** No default behaviors 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
Policy-map configuration	•	•	•	•	_

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

**Usage Guidelines** To use the **class** command, use the Modular Policy Framework. To use a class in a Layer 3/4 policy map, enter the following commands:

- 1. class-map—Identify the traffic on which you want to perform actions.
- 2. policy-map—Identify the actions associated with each class map.
  - a. class—Identify the class map on which you want to perform actions.
  - b. commands for supported features—For a given class map, you can configure many actions for various features, including QoS, application inspection, CSC or AIP SSM, TCP and UDP connections limits and timeout, and TCP normalization. See the *Cisco ASA 5500 Series Configuration Guide using the CLI* for more details about the commands available for each feature.
- 3. service-policy—Assigns the policy map to an interface or globally.

To use a class in an inspection policy map, enter the following commands:

- 1. class-map type inspect—Identify the traffic on which you want to perform actions.
- policy-map type inspect—Identify the actions associated with each class map.
  - **a. class**—Identify the inspection class map on which you want to perform actions.
  - **b.** commands for application types—See the Cisco ASA 5500 Series Configuration Guide using the CLI for commands available for each application type. Actions supported in class configuration mode of an inspection policy map include:
  - Dropping a packet
  - Dropping a connection
  - Resetting a connection
  - Logging
  - Rate-limiting of messages
  - Masking content
  - **c. parameters**—Configure parameters that affect the inspection engine. The CLI enters parameters configuration mode. See the *Cisco ASA 5500 Series Configuration Guide using the CLI* for available commands.
- 3. class-map—Identify the traffic on which you want to perform actions.
- 4. policy-map—Identify the actions associated with each class map.
  - a. class—Identify the Layer 3/4 class map on which you want to perform actions.
  - **b. inspect** *application inspect\_policy\_map*—Enables application inspection, and calls an inspection policy map to perform special actions.
- 5. service-policy—Assigns the policy map to an interface or globally.

The configuration always includes a class map called **class-default** that matches all traffic. At the end of every Layer 3/4 policy map, the configuration includes the **class-default** class map with no actions defined. You can optionally use this class map when you want to match all traffic, and do not want to bother creating another class map. In fact, some features are only configurable for the **class-default** class map, such as the **shape** command.

Including the **class-default** class map, up to 63 **class** and **match** commands can be configured in a policy map.

#### **Examples**

The following is an example of a **policy-map** command for connection policy that includes the **class** command. It limits the number of connections allowed to the web server 10.1.1.1:

```
hostname(config)# access-list http-server permit tcp any host 10.1.1.1
hostname(config)# class-map http-server
hostname(config-cmap)# match access-list http-server
```

```
hostname(config)# policy-map global-policy
hostname(config-pmap)# description This policy map defines a policy concerning connection
to http server.
hostname(config-pmap)# class http-server
hostname(config-pmap-c)# set connection conn-max 256
```

The following example shows how multi-match works in a policy map:

```
hostname(config)# class-map inspection_default
hostname(config-cmap)# match default-inspection-traffic
```

```
hostname(config)# class-map http_traffic
hostname(config-cmap)# match port tcp eq 80
hostname(config)# policy-map outside_policy
hostname(config-pmap)# class inspection_default
hostname(config-pmap-c)# inspect http http_map
hostname(config-pmap-c)# inspect sip
hostname(config-pmap)# class http_traffic
hostname(config-pmap-c)# set connection timeout tcp 0:10:0
```

The following example shows how traffic matches the first available class map, and will not match any subsequent class maps that specify actions in the same feature domain:

```
hostname(config)# class-map telnet_traffic
hostname(config-cmap)# match port tcp eq 23
hostname(config)# class-map ftp_traffic
hostname(config-cmap)# match port tcp eq 21
hostname(config)# class-map tcp_traffic
hostname(config-cmap)# match port tcp range 1 65535
hostname(config)# class-map udp_traffic
hostname(config-cmap)# match port udp range 0 65535
hostname(config)# policy-map global_policy
hostname(config-pmap)# class telnet_traffic
hostname(config-pmap-c)# set connection timeout tcp 0:0:0
hostname(config-pmap-c)# set connection conn-max 100
hostname(config-pmap)# class ftp_traffic
hostname(config-pmap-c)# set connection timeout tcp 0:5:0
hostname(config-pmap-c)# set connection conn-max 50
hostname(config-pmap)# class tcp_traffic
hostname(config-pmap-c) # set connection timeout tcp 2:0:0
hostname(config-pmap-c)# set connection conn-max 2000
```

When a Telnet connection is initiated, it matches **class telnet\_traffic**. Similarly, if an FTP connection is initiated, it matches **class ftp\_traffic**. For any TCP connection other than Telnet and FTP, it will match **class tcp\_traffic**. Even though a Telnet or FTP connection can match **class tcp\_traffic**, the adaptive security appliance does not make this match because they previously matched other classes.

Related Commands	Command	Description				
	class-map	Creates a Layer 3/4 class map.				
	class-map type management	Creates a Layer 3/4 class map for management traffic.				
	clear configure policy-map	Removes all policy-map configuration, except for any policy-map that is in use in a service-policy command.				
	match	Defines the traffic-matching parameters.				
	policy-map	Configures a policy; that is, an association of one or more traffic classes, each with one or more actions.				

## class-map

When using the Modular Policy Framework, identify Layer 3 or 4 traffic to which you want to apply actions by using the **class-map** command (without the **type** keyword) in global configuration mode. To delete a class map, use the **no** form of this command.

class-map class\_map\_name

**no class-map** *class\_map\_name* 

Syntax Description	<i>class_map_name</i> Specifies the class map name up to 40 characters in length. The names "class-default" and any name that begins with "_internal" or "_default" are reserved. All types of class maps use the same name space, so you cannot resuse a name already used by another type of class map.						
Defaults	No default behaviors or	values.					
Command Modes	The following table sho	ows the modes in whic	h you can enter	the comma	ınd:		
		Firewall N	lode	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	This type of class map is for Layer 3/4 through traffic only. For management traffic destined to the adaptive security appliance, see the <b>class-map type management</b> command.						
	A Layer 3/4 class map identifies Layer 3 and 4 traffic to which you want to apply actions. You can create multiple Layer 3/4 class maps for each Layer 3/4 policy map.						
	Default Class Maps						
	The configuration includes a default Layer 3/4 class map that the adaptive security appliance uses in the default global policy. It is called <b>inspection_default</b> and matches the default inspection traffic:						
	class-map inspection_default match default-inspection-traffic						
	match default-inspec	ction-traffic					
	match default-inspect Another class map that traffic:		onfiguration is c	alled class	-default, and it	matches all	

This class map appears at the end of all Layer 3/4 policy maps and essentially tells the adaptive security appliance to not perform any actions on all other traffic. You can use the class-default class map if desired, rather than making your own **match any** class map. In fact, some features are only available for class-default, such as QoS traffic shaping.

#### **Maximum Class Maps**

The maximum number of class maps of all types is 255 in single mode or per context in multiple mode. Class maps include the following types:

- class-map
- class-map type management
- class-map type inspection
- class-map type regex
- match commands in policy-map type inspect configuration mode

This limit also includes default class maps of all types.

#### **Configuration Overview**

Configuring Modular Policy Framework consists of four tasks:

- 1. Identify the Layer 3 and 4 traffic to which you want to apply actions using the **class-map** or **class-map type management** command.
- 2. (Application inspection only) Define special actions for application inspection traffic using the **policy-map type inspect** command.
- **3.** Apply actions to the Layer 3 and 4 traffic using the **policy-map** command.
- 4. Activate the actions on an interface using the service-policy command.

Use the **class-map** command to enter class-map configuration mode. From class-map configuration mode, you can define the traffic to include in the class using the **match** command. A Layer 3/4 class map contains, at most, one **match** command (with the exception of the **match tunnel-group** and **match default-inspection-traffic** commands) that identifies the traffic included in the class map.

#### **Examples**

The following example creates four Layer 3/4 class maps:

```
hostname(config)# access-list udp permit udp any any
hostname(config)# access-list tcp permit tcp any any
hostname(config)# access-list host_foo permit ip any 10.1.1.1 255.255.255.255
hostname(config)# class-map all_udp
hostname(config-cmap)# description "This class-map matches all UDP traffic"
hostname(config-cmap)# match access-list udp
hostname(config-cmap)# class-map all_tcp
hostname(config-cmap)# description "This class-map matches all TCP traffic"
hostname(config-cmap)# description "This class-map matches all TCP traffic"
hostname(config-cmap)# description "This class-map matches all TCP traffic"
hostname(config-cmap)# description "This class-map matches all HTTP traffic"
hostname(config-cmap)# description "This class-map matches all HTTP traffic"
hostname(config-cmap)# match port tcp eq http
hostname(config-cmap)# class-map to_server
hostname(config-cmap)# description "This class-map matches all traffic to server 10.1.1.1"
hostname(config-cmap)# match access-list host_foo
```

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Command	Description				
class-map type management	Creates a class map for traffic to the adaptive security appliance.				
policy-map	Creates a policy map by associating the traffic class with one or more actions.				
policy-map type inspect	Defines special actions for application inspection.				
service-policy	Creates a security policy by associating the policy map with one or more interfaces.				
show running-config class-map	Displays the information about the class map configuration.				

# class-map type inspect

When using the Modular Policy Framework, match criteria that is specific to an inspection application by using the **class-map type inspect** command in global configuration mode. To delete an inspection class map, use the **no** form of this command.

class-map type inspect application [match-all | match-any] class\_map\_name

 $\textbf{no class-map [type inspect application [match-all | match-any]] class\_map\_name}$ 

Syntax Description	application	Specifies the type of application traffic you want to match. Available type include:					
		• dns					
		• ftp					
		• h323					
		• http					
		• im					
		• sip					
	class_map_name	Specifies the class "class-default" and reserved. All types resuse a name alre	any name that b of class maps us	begins with se the same	"_internal" or e name space, s	"_default" are	
	match-all	(Optional) Specifies that traffic must match all criteria to match the class map. <b>match-all</b> is the default if you do not specify an option.					
	match-any	(Optional) Specific class map.	es that traffic can	match one	or more criter	ia to match the	
Defaults	No default behaviors o	r values.					
Command Modes	The following table sho	ows the modes in which	ch you can enter	the comma	.nd:		
		Firewall N	Node	Security Context			
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Global configuration	•	•	•	•		
Command History	Release	Modification					
	7.2(1)	This command wa	s introduced.				
	8.0(2)     The match-any keyword was added.						

### Usage Guidelines

Modular Policy Framework lets you configure special actions for many application inspections. When you enable an inspection engine in the Layer 3/4 policy map, you can also optionally enable actions as defined in an *inspection policy map* (see the **policy-map type inspect** command).

In the inspection policy map, you can identify the traffic you want to act upon by creating an inspection class map. The class map contains one or more **match** commands. (You can alternatively use **match** commands directly in the inspection policy map if you want to pair a single criterion with an action). You can match criteria that is specific to an application. For example, for DNS traffic, you can match the domain name in a DNS query.

A class map groups multiple traffic matches (in a match-all class map), or lets you match any of a list of matches (in a match-any class map). The difference between creating a class map and defining the traffic match directly in the inspection policy map is that the class map lets you group multiple match commands, and you can reuse class maps. For the traffic that you identify in this class map, you can specify actions such as dropping, resetting, and/or logging the connection in the inspection policy map.

The maximum number of class maps of all types is 255 in single mode or per context in multiple mode. Class maps include the following types:

- class-map
- class-map type management
- class-map type inspection
- class-map type regex
- match commands in policy-map type inspect configuration mode

This limit also includes default class maps of all types. See the **class-map** command for more information.

**Examples** The following example creates an HTTP class map that must match all criteria: hostname(config-cmap)# class-map type inspect http match-all http-traffic

hostname(config-cmap)# class-map type inspect http match-ail http-tlail. hostname(config-cmap)# match request content-type mismatch hostname(config-cmap)# match request body length gt 1000 hostname(config-cmap)# match not request uri regex class URLs

The following example creates an HTTP class map that can match any of the criteria:

hostname(config-cmap)# class-map type inspect http match-any monitor-http hostname(config-cmap)# match request method get hostname(config-cmap)# match request method put hostname(config-cmap)# match request method post

<b>Related Commands</b>	Command	Description
	class-map	Creates a Layer 3/4 class map for through traffic.
	policy-map	Creates a policy map by associating the traffic class with one or more actions.
	policy-map type inspect	Defines special actions for application inspection.
	service-policy	Creates a security policy by associating the policy map with one or more interfaces.
	show running-config class-map	Displays the information about the class map configuration.

### class-map type management

When using the Modular Policy Framework, identify Layer 3 or 4 management traffic destined for the adaptive security appliance to which you want to apply actions by using the **class-map type management** command in global configuration mode. To delete a class map, use the **no** form of this command.

class-map type management class\_map\_name

**no class-map type management** *class\_map\_name* 

Syntax Description	class_map_name	Specifies the class map name up to 40 characters in length. The names
		"class-default" and any name that begins with "_internal" or "_default" are
		reserved. All types of class maps use the same name space, so you cannot
		resuse a name already used by another type of class map.

**Defaults** No default behaviors or values.

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

	Firewall N	lode	Security Co	ecurity Context		
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Global configuration	•	•	•	•	_	

<b>Command History</b>	Release	Modification
	7.2(1)	This command was introduced.
	8.0(2)	The set connection command is now available for a Layer 3/4 management class map, for to-the-adaptive security appliance management traffic. Only the conn-max and embryonic-conn-max keywords are available.

**Usage Guidelines** This type of class map is for management traffic only. For through traffic, see the **class-map** command (without the **type** keyword).

For management traffic to the adaptive security appliance, you might want to perform actions specific to this kind of traffic. The types of actions available for a management class map in the policy map are specialized for management traffic. For example, this type of class map lets you inspect RADIUS accounting traffic and set connection limits.

A Layer 3/4 class map identifies Layer 3 and 4 traffic to which you want to apply actions. The maximum number of class maps of all types is 255 in single mode or per context in multiple mode.

You can create multiple Layer 3/4 class maps (management or through traffic) for each Layer 3/4 policy map.

Configuring Modular Policy Framework consists of four tasks:

- 1. Identify the Layer 3 and 4 traffic to which you want to apply actions using the **class-map** and **class-map type management** commands.
- 2. (Application inspection only) Define special actions for application inspection traffic using the **policy-map type inspect** command.
- 3. Apply actions to the Layer 3 and 4 traffic using the **policy-map** command.
- 4. Activate the actions on an interface using the service-policy command.

Use the **class-map type management** command to enter class-map configuration mode. From class-map configuration mode, you can define the traffic to include in the class using the **match** command. You can specify a management class map that can match an access list or TCP or UDP ports. A Layer 3/4 class map contains, at most, one **match** command that identifies the traffic included in the class map.

The maximum number of class maps of all types is 255 in single mode or per context in multiple mode. Class maps include the following types:

- class-map
- class-map type management
- class-map type inspection
- class-map type regex
- match commands in policy-map type inspect configuration mode

This limit also includes default class maps of all types. See the **class-map** command for more information.

Examples

The following example creates a Layer 3/4 management class map:

hostname(config)# class-map type management radius\_acct hostname(config-cmap)# match port tcp eq 10000

Related Commands	Command	Description
	class-map	Creates a Layer 3/4 class map for through traffic.
	policy-map	Creates a policy map by associating the traffic class with one or more actions.
	policy-map type inspect	Defines special actions for application inspection.
	service-policy	Creates a security policy by associating the policy map with one or more interfaces.
	show running-config class-map	Displays the information about the class map configuration.

### class-map type regex

When using the Modular Policy Framework, group regular expressions for use with matching text by using the **class-map type regex** command in global configuration mode. To delete a regular expression class map, use the **no** form of this command.

class-map type regex match-any class\_map\_name

**no class-map** [**type regex match-any**] *class\_map\_name* 

Syntax Description	class_map_name	Specifies the class map name up to 40 characters in length. The names "class-default" and any name that begins with "_internal" or "_default" a reserved. All types of class maps use the same name space, so you cannot resuse a name already used by another type of class map.						
	match-any	<b>any</b> Specifies that the traffic matches the class map if it matches only one of the regular expressions. <b>match-any</b> is the only option.						
Defaults	No default behaviors of	or values.						
Command Modes	The following table sh	nows the mode	es in which	you can enter	the comma	ind:		
		F	irewall Mod	le	Security C	Context		
						Multiple		
	Command Mode	R	Routed	Transparent	Single	Context	System	
	Global configuration		•	•	•	•		
Command History	Release Modification							
	7.2(1)This command was introduced.							
Usage Guidelines	Modular Policy Frame you enable an inspecti defined in an <i>inspectic</i>	ion engine in t	the Layer 3/	4 policy map,	you can al	so optionally e	-	
	In the inspection policy map, you can identify the traffic you want to act upon by creating an inspection class map containing one or more <b>match</b> commands or you can use <b>match</b> commands directly in the inspection policy map. Some <b>match</b> commands let you identify text in a packet using a regular expression; for example, you can match URL strings inside HTTP packets. You can group regular expressions in a regular expression class map.							
	Before you create a re command. Then, iden <b>match regex</b> comman	tify the named						
	The maximum number of class maps of all types is 255 in single mode or per context in multiple mode. Class maps include the following types:							

- class-map
- class-map type management
- class-map type inspection
- class-map type regex
- match commands in policy-map type inspect configuration mode

This limit also includes default class maps of all types. See the **class-map** command for more information.

### Examples

The following example creates two regular expressions, and adds them to a regular expression class map. Traffic matches the class map if it includes the string "example.com" or "example2.com."

```
hostname(config)# regex url_example example\.com
hostname(config)# regex url_example2 example2\.com
hostname(config)# class-map type regex match-any URLs
hostname(config-cmap)# match regex url_example
hostname(config-cmap)# match regex url_example2
```

Related Commands	Command	Description
	class-map type inspect	Creates ain inspection class map to match traffic specific to an application.
	policy-map	Creates a policy map by associating the traffic class with one or more actions.
	policy-map type inspect	Defines special actions for application inspection.
	service-policy	Creates a security policy by associating the policy map with one or more interfaces.
	regex	Creates a regular expression.

## clear aaa local user fail-attempts

To reset the number of failed user authentication attempts to zero without modifying the user's locked-out status, use the **clear aaa local user fail-attempts** command in privileged EXEC mode.

clear aaa local user authentication fail-attempts {username name | all}

Syntax Description	all	Resets the failed-a	ttempts counter	to 0 for all	users.			
	name	Specifies a specific username for which the failed-attempts counter is reset to 0.						
	username       Indicates that the following parameter is a username, for which the failed-attempts counter is reset to 0.							
Defaults	No default behavior or	or values.						
Command Modes	The following table she	ows the modes in whic	ch you can enter	the comma	ind:			
		Firewall N	Node	Security C	Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	•			
Command History	Release Modification							
	7.0(1)							
Usage Guidelines	Use this command if a user fails to authenticate after a few attempts. After the configured number of failed authentication attempts, the user is locked out of the system cannot successfully log in until either a system administrator unlocks the username or the system reboots. The number of failed attempts resets to zero and the lockout status resets to No when the successfully authenticates, or when the adaptive security appliance reboots. Aditionally, the system					the system o when the user		
	resets the counter to zero when the configuration has recently been modified. Locking or unlocking a username results in a system log message. A system administrator with a privilege level of 15 cannot be locked out.							
Examples	privilege level of 15 cannot be locked out. The following example shows use of the <b>clear aaa local user authentication fail-attempts</b> comm to reset the failed-attempts counter to 0 for the username anyuser: hostname(config)# <b>clear aaa local user authentication fail-attempts username anyuser</b> hostname(config)#					-		

The following example shows use of the **clear aaa local user authentication fail-attempts** command to reset the failed-attempts counter to 0 for all users:

hostname(config)# clear aaa local user authentication fail-attempts all
hostname(config)#

Related Commands	Command	Description
	aaa local authentication attempts max-fail	Configures a limit on the number of failed user authentication attempts allowed.
	clear aaa local user lockout	Resets the number of failed user authentication attempts to zero without modifying the locked-out status of the user.
	show aaa local user [locked]	Shows the list of usernames that are currently locked.

# clear aaa local user lockout

To clear the lockout status of the specified users and set their failed-attempts counter to 0, use the **clear aaa local user lockout** command in privileged EXEC mode.

clear aaa local user lockout {username name | all}

Syntax Description	all	Resets the failed-attempts counter to 0 for all users.						
	name	Specifies a spector to 0.	Specifies a specific username for which the failed-attempts counter is reset to 0.					
	<b>username</b> Indicates that the following parameter is a username, for which the failed-attempts counter is reset to 0.							
Defaults	No default behavior	or or values.						
Command Modes	The following table	e shows the modes in w	hich you can enter	the comma	ind:			
		Firewall Mode Security Context						
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	•			
Command History	Release Modification							
	7.0(1)This command was introduced.							
Jsage Guidelines		single user by using the ects only the status of u	-		with the <b>all</b> op	otion.		
	The administrator cannot be locked out of the device.							
	Locking or unlocking a username results in a syslog message.							
Examples	The following example shows use of the <b>clear aaa local user lockout</b> command to clear the lockout condition and reset the failed-attempts counter to 0 for the username anyuser:							
Examples	-	-		sername any	yuser:			

<b>Related Commands</b>	Command	Description		
	aaa local authentication attempts max-fail	<b>s</b> Configures a limit on the number of failed user authentication attempts allowed.		
	clear aaa local user fail-attempts	Resets the number of failed user authentication attempts to zero without modifying the locked-out status of the user.		
	show aaa local user [locked]	Shows the list of usernames that are currently locked.		

## clear aaa-server statistics

To reset the statistics for AAA servers, use the **clear aaa-server statistics** command in privilged EXEC mode.

**clear aaa-server statistics** [LOCAL | groupname [host hostname] | protocol protocol]

yntax Description	LOCAL	(Optional) Clears	statistics for the LO	JCAL user	database.			
	groupname	(Optional) Clears	statistics for server	rs in a grou	р.			
	host hostname	(Optional) Clears	statistics for a part	icular serve	er in the group.			
	protocol protocol	(Optional) Clears	statistics for server	s of the spe	ecificed protoc	ol:		
		• kerberos						
		• ldap						
		• nt						
		• radius						
		• sdi						
		• tacacs+						
ommand Modes	The following table s	hows the modes in w	ll groups. hich you can enter	the comma	und:			
Command Modes	The following table s			the comma				
command Modes	The following table s		hich you can enter	-1				
ommand Modes	The following table s		hich you can enter	Security (	Context	System		
ommand Modes		Firewa	hich you can enter	Security (	Context Multiple	System		
ommand Modes	Command Mode	Firewa Routed	hich you can enter I Mode Transparent	Security ( Single	Context Multiple Context	System		
	Command Mode	Firewa Routed	hich you can enter I Mode Transparent	Security ( Single	Context Multiple Context	System		
	<b>Command Mode</b> Privileged EXEC	Firewa Routed • Modification This command wa	hich you can enter	Security ( Single •	Context Multiple Context • uidelines. In th	ne protocol		
Command Modes	<b>Command Mode</b> Privileged EXEC <b>Release</b>	Firewa Routed • Modification This command wa	hich you can enter I Mode Transparent •	Security ( Single •	Context Multiple Context • uidelines. In th	ne protocol		
	<b>Command Mode</b> Privileged EXEC <b>Release</b>	Firewa Routed • Modification This command wa	hich you can enter	Security ( Single •	Context Multiple Context • uidelines. In th	ne protocol		
ommand History	Command Mode Privileged EXEC Release 7.0(1)	Firewa         Routed         •         Modification         This command way values, nt replace	hich you can enter Il Mode Transparent • as modified to adhe s the older nt-dom	Security ( Single • re to CLI g ain, and sd	Context Multiple Context • uidelines. In th i replaces the o	ne protocol blder <b>rsa-ac</b>		
ommand History	Command Mode Privileged EXEC Release 7.0(1) The following comm	Firewa Routed • Modification This command wave values, nt replace and shows how to res	hich you can enter I Mode Transparent  s modified to adhe ts the older nt-domate et the AAA statisti	Security ( Single • re to CLI g ain, and sd	Context Multiple Context • uidelines. In the i replaces the construction of the constr	ne protocol blder <b>rsa-ac</b>		
	Command Mode Privileged EXEC Release 7.0(1) The following comm hostname(config)#	Firewa Routed • Modification This command wave values, nt replace and shows how to react	hich you can enter I Mode Transparent  s modified to adhe ts the older nt-dom et the AAA statisti tatistics svrgrp1	Security ( Single • re to CLI g ain, and sd cs for a spe host 1.2.	Context Multiple Context • uidelines. In the i replaces the context context of the context of th	ne protocol older <b>rsa-ac</b> a group:		
ommand History	Command Mode Privileged EXEC Release 7.0(1) The following comm	Firewa Routed • Modification This command wave values, nt replace and shows how to react	hich you can enter I Mode Transparent  s modified to adhe ts the older nt-dom et the AAA statisti tatistics svrgrp1	Security ( Single • re to CLI g ain, and sd cs for a spe host 1.2.	Context Multiple Context • uidelines. In the i replaces the context context of the context of th	ne protocol older <b>rsa-ac</b> a group:		

The following command shows how to reset the AAA statistics for all server groups:

hostname(config)# clear aaa-server statistics

The following command shows how to reset the AAA statistics for a particular protocol (in this case, TACACS+):

hostname(config)# clear aaa-server statistics protocol tacacs+

### Related Commands Co

Command	Description			
aaa-server protocol	Specifies and manages the grouping of AAA server connection data.			
clear configure aaa-server	Removes all non-default aaa server groups or clear the specified group			
show aaa-server	Displays AAA server statistics.			
show running-config aaa-server	Displays the current AAA server configuration values.			

# clear access-list

To clear an access-list counter, use the clear access-list command in global configurationmode.

clear access-list *id* counters

Syntax Description	counters Clears access list counters.						
	id	<i>id</i> Name or number of an access list.					
Defaults	No default beha	wior or values.					
ommand Modes	The following t	able shows the	modes in whic	h you can enter	the comma	nd:	
			Firewall N	lode	Security C	ontext	
						Multiple	
	Command Mod	9	Routed	Transparent	Single	Context	System
	Global configu	ration	•	•	•	•	
ommand History	Release	Modi	fication				
eonnana motory	Preexisting		command was	s preexisting.			
				ia you must spec			st for which yo
xamples			erwise, no cou	nters will be cle specific access l	ared.		st for which yo
Examples		example shows l	erwise, no cou now to clear a	nters will be cle specific access l	ared.		st for which yo
	The following e	example shows l	erwise, no cou now to clear a	nters will be cle specific access l	ared.		st for which yo
	The following e hostname# clea	example shows l	erwise, no count now to clear a <b>inbound count</b> <b>Description</b> Adds an acc	nters will be cle specific access l	ared.		
	The following e hostname# clea Command	ended	now to clear a inbound cour Description Adds an acc traffic throu Adds an acc	nters will be cle specific access l nters	ared. ist counter: nfiguration fy the desti	and configure	esses of OSPF
	The following end hostname# clear Command access-list extern	example shows l ar access-list ended adard	erwise, no count now to clear a <b>inbound count</b> Adds an acc traffic throu Adds an acc routes, whic	specific access I nters	ared. ist counter: nfiguration fy the destina a route ma	and configure nation IP addr p for OSPF re	esses of OSPF
Examples Related Commands	The following of hostname# clear <b>Command</b> access-list external	ended ended encess-list	erwise, no count now to clear a <b>inbound count</b> Adds an acc traffic throu Adds an acc routes, whic Clears an acc Displays the	specific access 1 specific access 1 nters ress list to the co gh the firewall. ress list to identifich can be used in	ared. ist counter: nfiguration fy the desti- a route ma e running c es by numb	and configure nation IP addro p for OSPF re onfiguration. per.	esses of OSPF distribution.

## clear arp

To clear dynamic ARP entries or ARP statistics, use the clear arp command in privileged EXEC mode.

clear arp [statistics]

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

**Defaults** No default behavior or values.

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

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

 Release
 Modification

 Preexisting
 This command was preexisting.

**Examples** The following example clears all ARP statistics: hostname# clear arp statistics

<b>Related Commands</b>	Command	Description	
	arp	Adds a static ARP entry.	
arp-inspection	For transparent firewall mode, inspects ARP packets to prevent ARP spoofing.		
	show arp statistics	Shows ARP statistics.	
	show running-config arp	Shows the current configuration of the ARP timeout.	

# clear asp drop

To clear accelerated security path drop statistics, use the **clear asp drop** command in privileged EXEC mode.

clear asp drop [flow type | frame type]

Syntax Description	flow	(Optional) Clears t	he dropped flow	statistics.			
	frame	(Optional) Clears t	he dropped pack	et statistic	s.		
	type	<i>type</i> (Optional) Clears the dropped flow or packets statistics for a particular process. See "Usage Guidelines" for a list of types.					
Defaults	By default, this comman	nd clears all drop stat	istics.				
ommand Modes	The following table show	ws the modes in whic	ch you can enter	the comma	und:		
		Firewall N	Node	Security (	Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•	•	•	
		l			L		
ommand History	Release Modification						
	7.0(1)	This command was	s introduced.				
Jsage Guidelines	Process types include th acl-drop audit-failure closed-by-inspection conn-limit-exceeded fin-timeout flow-reclaimed fo-primary-closed fo-standby fo_rep_err host-removed inspect-fail ips-fail-close ips-request ipsec-spoof-detect loopback mcast-entry-removed mcast-intrf-removed mgmt-lockdown	e following:					

**Cisco ASA 5500 Series Command Reference** 

no-ipv6-ipsec non\_tcp\_syn out-of-memory parent-closed pinhole-timeout recurse reinject-punt reset-by-ips reset-in reset-oout shunned syn-timeout tcp-fins tcp-intecept-no-response tcp-intercept-kill tcp-intercept-unexpected tcpnorm-invalid-syn tcpnorm-rexmit-bad tcpnorm-win-variation timeout tunnel-pending tunnel-torn-down xlate-removed

### Examples

The following example clears all drop statistics:

hostname# clear asp drop

Related Commands	Command	Description
	show asp drop	Shows the accelerated security path counters for dropped packets.

# clear asp table

To clear the hit counters either in asp arp or classify tables, or both, use the **clear asp table** command in privileged EXEC mode.

clear asp table [arp | classify]

Syntax Description	arp clears the hits counters in asp arp table only.								
	classify	classify clears the hits counters in asp classify tables only							
Defaults	No default behavior	or values.							
command Modes	The following table	shows the modes in which							
		Firewall	Viode	Security (					
	Command Mode	Routed	Transparent	Single	Multiple Context	System			
	Privileged EXEC	•	•	•	•	•			
Command History									
Jommanu History	<b>Release</b> 7.2(4)	Modification This command wa	·						
Jsage Guidelines	·	pptions arp and classify l ple clears all drop statist	-	erear asp					
FF	hostname# clear asp table								
	hostname# clear asp table Warning: hits counters in asp arp and classify tables are cleared, which might hits statistic of other modules and output of other "show" commands! hostname# table arp Warning: hits counters in asp arp table are cleared, which might impact the hi of other modules and output of other "show" commands! hostname#clear asp table Warning: hits counters in classify tables are cleared, which might impact the statistic of other modules and output of other "show" commands! hostname(conf: asp table Warning: hits counters in asp tables are cleared, which might impact the hits of other modules and output of other "show" commands! hostname# sh asp table a								
		f, Interface: inside 1							
	Context: single_vf, Interface: identity :: Active 0000.0000.0000 hits 0 0.0.0.0 Active 0000.0000 hits 0								

<b>Related Commands</b>	Command	Description
	show asp table arp	Shows the contents of the accelerated security path, which might help you troubleshoot a problem.

## clear blocks

To reset the packet buffer counters such as the low watermark and history information, use the **clear blocks** command in privileged EXEC mode.

clear blocks

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

**Defaults** No default behavior or values.

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

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

Command History	Release	Modification
	Preexisting	This command was preexisting.

**Usage Guidelines** Resets the low watermark counters to the current available blocks in each pool. Additionally, this command clears the history information stored during the last buffer allocation failure.

**Examples** The following example clears the blocks: hostname# clear blocks

<b>Related Commands</b>	Command	Description
	blocks	Increases the memory assigned to block diagnostics.
	show blocks	Shows the system buffer utilization.

# clear-button

To customize the Clear button of the WebVPN page login field that is displayed to WebVPN users when they connect to the security appliance, use the **clear-button** command from customization configuration mode. To remove the command from the configuration and cause the value to be inherited, use the **no** form of this command.

clear-button {text | style} value

no clear-button [{text | style}] value

	style	style         Specifies you are changing the style.						
	text	text Specifies you are changing the text.						
	value	<i>value</i> The actual text to display (maximum 256 characters), or Cascading Style Sheet (CSS) parameters (maximum 256 characters).						
Defaults	The default text	is "Clear".						
	The default style	e is border:1px s	solid black;ba	ckground-color:	white;font	weight:bold;fo	ont-size:80%.	
Command Modes	The following ta	ble shows the m	nodes in whic	h you can enter	the comma	nd:		
			Firewall M	lode	Security Context			
					Single	Multiple		
	Command Mode		Routed	Transparent		Context	System	
	Customization c	configuration	•		•			
Command History	Release Modification							
Commanu history	7.1(1)This command was introduced.							
Commanu History	7.1(1)	This cor	nmand was ii	ntroduced.				
Commanu History	7.1(1)	This cor	mmand was in	ntroduced.				
	7.1(1) The <b>style</b> option parameters is be CSS specification the CSS 2.1 Spe www.w3.org/TR	is expressed as yond the scope ons at the World cification contai	any valid Ca of this docum Wide Web Co ins a convenie	scading Style Sh ent. For more in onsortium (W3C	formation C) website a	about CSS para at www.w3.org	ameters, consu . Appendix F c	
	The <b>style</b> option parameters is be CSS specification the CSS 2.1 Spe	is expressed as yond the scope ons at the World cification contai /CSS21/propids	any valid Ca of this docum Wide Web Co ins a convenie c.html.	scading Style Sh ent. For more in onsortium (W3C ent list of CSS p	formation 2) website a arameters,	about CSS para at www.w3.org and is available	ameters, consu . Appendix F c e at	
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To easily customize the WebVPN pages, we recommend that you use ASDM, which has convenient features for configuring style elements, including color swatches and preview capabilities.

### Examples

The following example changes the default background color of the Clear button from black to blue:

hostname(config)# webvpn hostname(config-webvpn)# customization cisco hostname(config-webvpn-custom)# clear-button style background-color:blue

<b>Related Commands</b>	Command	Description				
	login-button	Customizes the login button of the WebVPN page Login field.				
	login-title	Customizes the title of the WebVPN page Login field.				
group-prompt		Customizes the group prompt of the WebVPN page Login field.				
	password-prompt	Customizes the password prompt of the WebVPN page Login field.				
username-prompt		Customizes the username prompt of the WebVPN page Login field.				

clear-button

## clear capture

To clear the capture buffer, use the **clear capture** *capture\_name* command in privileged EXEC configuration mode.

clear capture capture\_name

Syntax Description	<i>capture_name</i> Name of the packet capture.							
Defaults	No default beha	vior or values.						
command Modes	The following ta	able shows the m	odes in whic	eh you can enter	the comma	nd:		
			Firewall N	lode	Security Context			
			Routed	Transparent	Single	Multiple		
	Command Mode	9				Context	System	
	Privileged EXE	2C	•	•	•	•	•	
ommand History	<b>Release</b> 7.0(1)	<b>Modification</b> Support for th	iis command	was introduced.				
lsage Guidelines		form of the <b>clear</b> of the <b>clear</b> of all the p			or <b>clear c</b> a	ap) is not supp	orted to prev	
Examples	This example shows how to clear the capture buffer for the capture buffer "example":							
	hostname(confi	ig) <b># clear captu</b>	ire example					
Related Commands	Command	Description						

Displays the capture configuration when no options are specified.

show capture

# clear compression

To clear compression statistics for all SVC and WebVPN connections, use the **clear compression** command from privileged EXEC mode.

clear compression {all | svc | http-comp}

Syntax Description	all Clears all compressions statistics.							
	http-comp	-						
	svc	Clears SVC co	Clears SVC compression statistics.					
Defaults	No default behavior or values.							
Command Modes	The following table shows the modes in which you can enter the command:							
			Firewall N	lode	Security Context			
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Privileged EXEC		•		•	—		
Command History	Release Modification							
	7.1(1)	This comr	nand was in	ntroduced.				
Examples	The following exa	-	-	on configuration	for the use	er:		
Related Commands	Command	Descriptio	Description					
	compression		Enables compression for all SVC and WebVPN connections.					
	svc compression	Enables co user.	Enables compression of data over an SVC connection for a specific group or user.					