



## cache through clear compression Commands

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# cache

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

**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:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				Context	System
Webvpn mode	•	—	•	—	—

## 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 example shows how to enter cache mode:

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

## Related Commands

Command	Description
<b>cache-compressed</b>	Configures WebVPN cache compression.
<b>disable</b>	Disables caching.
<b>expiry-time</b>	Configures the expiration time for caching objects without revalidating them.
<b>lmfactor</b>	Sets a revalidation policy for caching objects that have only the last-modified timestamp.
<b>max-object-size</b>	Defines the maximum size of an object to cache.
<b>min-object-size</b>	Defines the minimum size of an object to cache.

# cache-compressed

To cache compressed objects for WebVPN sessions, use the **cache-compressed** command in webvpn mode. To disallow caching of compressed content, enter the **no** version of the command.

**cache-compressed enable**

**no cache-compressed**

## Syntax Description

<b>enable</b>	Enables caching of compressed content over WebVPN sessions.
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## Defaults

Caching of compressed content is enabled by default.

## Command Modes

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

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple Context	System
Cache mode	•	—	•	—	—

## Command History

Release	Modification
7.1(1)	This command was introduced.

## Usage Guidelines

Caching stores frequently reused objects in the system cache. When caching of compressed content is enabled, the security appliance stores compressed objects. When you disable caching of compressed content, the security appliance stores objects prior to invoking the compression routine.

## Examples

The following example shows how to disable caching of compressed content, and how to reenale it.

```
hostname(config)# webvpn
hostname(config-webvpn)# cache
hostname(config-webvpn-cache)# no cache-compressed
hostname(config-webvpn-cache)# cache-compressed enable
```

## Related Commands

Command	Description
<b>cache</b>	Enters WebVPN Cache mode.
<b>disable</b>	Disables caching.
<b>expiry-time</b>	Configures the expiration time for caching objects without revalidating them.
<b>lmfactor</b>	Sets a revalidation policy for caching objects that have only the last-modified timestamp.

Command	Description
<b>max-object-size</b>	Defines the maximum size of an object to cache.
<b>min-object-size</b>	Defines the minimum size of an object to cache.

# 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 ca-crl 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.
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## Defaults

The default setting is 60 minutes.

## Command Modes

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

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

## Command History

Release	Modification
7.0	This command was introduced.

## Examples

The following example enters ca-crl configuration mode, and specifies a cache time refresh value of 10 minutes for trustpoint central:

```
hostname(configure)# crypto ca trustpoint central
hostname(ca-trustpoint)# crl configure
hostname(ca-crl)# cache-time 10
hostname(ca-crl)#
```

## Related Commands

Command	Description
<b>crl configure</b>	Enters crl configuration mode.
<b>crypto ca trustpoint</b>	Enters trustpoint configuration mode.
<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
```

Syntax Description	<i>ip_address</i>	The IP address of the gateway.
	<i>group_id</i>	The ID of the call agent group, from 0 to 2147483647.

Defaults	This command is disabled by default.
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Command Modes	The following table shows the modes in which you can enter the command:
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Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				Context	System
Global configuration	•	•	•	•	—

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

Usage Guidelines	Use the <b>call-agent</b> command to specify a group of call agents that can manage one or more gateways. The call agent group information is used to open connections for the call agents in the group (other than the one a gateway sends a command to) so that any of the call agents can send the response. Call agents with the same <i>group_id</i> belong to the same group. A call agent may belong to more than one group. The <i>group_id</i> option is a number from 0 to 4294967295. The <i>ip_address</i> option specifies the IP address of the call agent.
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Examples	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:
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```
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)# call-agent 10.10.11.8 102
hostname(config-mgcp-map)# gateway 10.10.10.115 101
hostname(config-mgcp-map)# gateway 10.10.10.116 102
```

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

**Related Commands**

Commands	Description
<b>debug mgcp</b>	Enables the display of debug information for MGCP.
<b>mgcp-map</b>	Defines an MGCP map and enables MGCP map configuration mode.
<b>show mgcp</b>	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. 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

*hh:mm:ss* Specifies the duration in hours, minutes, and seconds.

## Defaults

No default behavior or values.

## Command Modes

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

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

## Command History

Release	Modification
7.2(1)	This command was introduced.

## Examples

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
hostname(config-pmap-p)# call-duration-limit 0:1:0
```

## Related Commands

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



# 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. 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:

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

## Command History

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
```

## Related Commands

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

# capture

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

```
capture capture_name [type { asp-drop all [drop-code] | raw-data | isakmp | webvpn user
webvpn-user [url url] } ] [access-list access_list_name] [buffer buf_size] [ethernet-type type]
[interface interface_name] [packet-length bytes] [circular-buffer] [trace trace_count]
[real-time] [dump] [detail] [match prot] { host ip | ip mask | any } [operator port]
```

```
no capture capture-name [access-list access_list_name] [circular-buffer]
[interface interface_name] [real-time] [dump] [detail] [match prot] { host ip | ip mask | any }
[operator port]
```

## Syntax Description

<b>access-list</b> <i>access_list_name</i>	(Optional) Captures traffic that matches an access list. In multiple context mode, this is only available within a context.
<b>any</b>	Specifies any IP address instead of a single IP address and mask.
<b>all</b>	Captures all the packets that the security appliance drops
<b>asp-drop</b> <i>drop-code</i>	(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.
<i>capture_name</i>	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.
<b>circular-buffer</b>	(Optional) Overwrites the buffer, starting from the beginning, when the buffer is full.
<b>detail</b>	(Optional) Displays additional protocol information for each packet.
<b>dump</b>	(Optional) Displays a hexadecimal dump of the packets that are transported over the data link transport.
<b>ethernet-type</b> <i>type</i>	(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.
<b>host</b> <i>ip</i>	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.

<b>isakmp</b>	(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.
<i>mask</i>	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).
<b>match</b> <i>prot</i>	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.
<i>operator</i>	(Optional) Matches the port numbers used by the source or destination. The permitted operators are as follows: <ul style="list-style-type: none"> <li>• <b>lt</b>—less than</li> <li>• <b>gt</b>—greater than</li> <li>• <b>eq</b>—equal to</li> </ul>
<b>packet-length</b> <i>bytes</i>	(Optional) Sets the maximum number of bytes of each packet to store in the capture buffer.
<b>port</b>	(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.
<b>raw-data</b>	(Optional) Captures inbound and outbound packets on one or more interfaces. This setting is the default.
<b>real-time</b>	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.
<b>trace</b> <i>trace_count</i>	(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.
<b>type</b>	(Optional) Specifies the type of data captured.
<b>url</b> <i>url</i>	(Optional) Specifies a URL prefix to match for data capture. Use the URL format <code>http://server/path</code> to capture HTTP traffic to the server. Use <code>https://server/path</code> to capture HTTPS traffic to the server.
<b>user</b> <i>webvpn-user</i>	(Optional) Specifies a username for a WebVPN capture.
<b>webvpn</b>	(Optional) Captures WebVPN data for a specific WebVPN connection.

## Defaults

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

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

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

**Command History**

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

**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://security appliance-ip-address/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.

When you enable WebVPN capture, the security appliance creates a pair of matching files: *capture\_name\_ORIGINAL.000* and *capture\_name\_MANGLED.000*. For each subsequent capture, the security appliance generates additional matching pairs of files and increments the file extensions.

**Note**

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

Enter the **no capture** command with either the **access-list** or **interface** optional keyword unless you want to clear the capture itself. 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.

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 by entering the **no capture real-time** command.

**Note**

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

**Examples**

To enable packet capture, enter the following:

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

On a web browser, the capture contents for a capture named “captest” can be viewed at the following location:

**https://171.69.38.95/capture/captest/pcap**

To download a libpcap file (used in web browsers such as Internet Explorer or Netscape Navigator) to a local machine, enter the following:

**https://171.69.38.95/capture/http/pcap**

This 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
```

This example shows how to capture ARP packets:

```
hostname# capture arp ethernet-type arp interface outside
```

This example creates a WebVPN capture designated *hr*, which is configured to capture HTTP traffic for user2 visiting website *wwwin.abcd.com/hr/people*:

```
hostname# capture hr type webvpn user user2 url http://wwwin.abcd.com/hr/people
WebVPN capture started.
  capture name    hr
  user name       user2
  url             /http/0/wwwin.abcd.com/hr/people
```

This 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
```

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

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
```

**Related Commands**

Command	Description
<b>clear capture</b>	Clears the capture buffer.
<b>copy capture</b>	Copies a capture file to a server.
<b>show capture</b>	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.
<b>disk1:</b>	Specifies the removable, external Flash memory card, followed by a colon.
<b>flash:</b>	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> .
<i>path</i>	(Optional) The absolute path of the directory to change to.

## Defaults

If you do not specify a directory, the directory is changed to the root directory.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Examples

This example shows how to change to the “config” directory:

```
hostname# cd flash:/config/
```

## Related Commands

Command	Description
<b>pwd</b>	Displays the current working directory.

# certificate

To add the indicated certificate, use the **certificate** command in crypto ca certificate chain mode. When you use this command, the 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 the command.

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

**no** certificate *certificate-serial-number*

## Syntax Description

<i>certificate-serial-number</i>	Specifies the serial number of the certificate in hexadecimal format ending with the word quit.
<b>ca</b>	Indicates that the certificate is a certificate authority (CA) issuing certificate.
<b>ra-encrypt</b>	Indicates that the certificate is a registration authority (RA) key encipherment certificate used in SCEP.
<b>ra-general</b>	Indicates that the certificate is a registration authority (RA) certificate used for digital signing and key encipherment in SCEP messaging.
<b>ra-sign</b>	Indicates that the certificate is an registration authority (RA) digital signature certificate used in SCEP messaging.

## Defaults

This command has no default values.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Usage Guidelines

A certificate authority (CA) is an authority in a network that issues and manages security credentials and public key for message encryption. As part of a public key infrastructure, a CA checks with a registration authority (RA) to verify information provided by the requestor of a digital certificate. If the RA verifies the requestor's information, the CA can then issue a certificate.

**Examples**

This example enters ca trustpoint mode for a trustpoint named central, then enters crypto ca certificate chain mode for central, and adds a CA certificate with a serial number 29573D5FF010FE25B45:

```
hostname(config)# crypto ca trustpoint central
hostname(ca-trustpoint)# crypto ca certificate chain central
hostname(ca-cert-chain)# certificate ca 29573D5FF010FE25B45
 30820345 308202EF A0030201 02021029 572A3FF2 96EF854F D0D6732F E25B4530
 0D06092A 864886F7 0D010105 05003081 8F311630 1406092A 864886F7 0D010901
 16076140 622E636F 6D310B30 09060355 04061302 55533116 30140603 55040813
 0D6D6173 73616368 75736574 74733111 300F0603 55040713 08667261 6E6B6C69
 6E310E30 0C060355 040A1305 63697363 6F310F30 0D060355 040B1306 726F6F74
 6F75311C 301A0603 55040313 136D732D 726F6F74 2D736861 2D30362D 32303031
 301E170D 30313036 32363134 31313430 5A170D32 32303630 34313430 3133305A
 30818F31 16301406 092A8648 86F70D01 09011607 6140622E 636F6D31 0B300906
 03550406 13025553 31163014 06035504 08130D6D 61737361 63687573 65747473
 3111300F 06035504 07130866 72616E6B 6C696E31 0E300C06 0355040A 13056369
 73636F31 0F300D06 0355040B 1306726F 6F746F75 311C301A 06035504 0313136D
 732D726F 6F742D73 68612D30 362D3230 3031305C 300D0609 2A864886 F70D0101
 01050003 4B003048 024100AA 3EB9859B 8670A6FB 5E7D2223 5C11BCFE 48E6D3A8
 181643ED CF7E75EE E77D83DF 26E51876 97D8281E 9F58E4B0 353FDA41 29FC791B
 1E14219C 847D19F4 A51B7B02 03010001 A3820123 3082011F 300B0603 551D0F04
 04030201 C6300F06 03551D13 0101FF04 05300301 01FF301D 0603551D 0E041604
 14E0D412 3ACC96C2 FBF651F3 3F66C0CE A62AB63B 323081CD 0603551D 1F0481C5
 3081C230 3EA03CA0 3A86386C 6461703A 2F2F7732 6B616476 616E6365 64737276
 2F436572 74456E72 6F6C6C2F 6D732D72 6F6F742D 7368612D 30362D32 3030312E
 63726C30 3EA03CA0 3A863868 7474703A 2F2F7732 6B616476 616E6365 64737276
 2F436572 74456E72 6F6C6C2F 6D732D72 6F6F742D 7368612D 30362D32 3030312E
 63726C30 40A03EA0 3C863A66 696C653A 2F2F5C5C 77326B61 6476616E 63656473
 72765C43 65727445 6E726F6C 6C5C6D73 2D726F6F 742D7368 612D3036 2D323030
 312E6372 6C301006 092B0601 04018237 15010403 02010130 0D06092A 864886F7
 0D010105 05000341 0056221E 03F377B9 E6900BF7 BCB3568E AD8A146F 3B8A71F3
 DF9EB96C BB1873B2 B6268B7C 0229D8D0 FFB40433 C8B3CB41 0E4D212B 2AEECD77
 BEA3C1FE 5EE2AB6D 91
quit
```

**Related Commands**

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



# 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:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				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)#
```

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

# changeto

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

**changeto** {**system** | **context** *name*}

## Syntax Description

<b>context</b> <i>name</i>	Changes to the context with the specified name.
<b>system</b>	Changes to the system execution space.

## Defaults

No default behavior or values.

## Command Modes

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

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

## 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 **copy** or **write** 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 configuration; when you are in a context execution space, the running configuration consists only of that context. For example, you cannot view all running configurations (system plus all contexts) by entering the **show running-config** command. Only the current configuration appears.

## Examples

The following example changes between contexts and the system in privileged EXEC mode:

```
hostname/admin# changeto system
hostname# changeto context customerA
hostname/customerA#
```

The following example changes between the system and the admin context in interface configuration mode. When you change between execution spaces, and you are in a configuration submode, the mode changes to the global configuration mode in the new execution space.

```
hostname(config-if)# changeto context admin
hostname/admin(config)#
```

Related Commands	Command	Description
	<b>admin-context</b>	Sets a context to be the admin context.
	<b>context</b>	Creates a security context in the system configuration and enters context configuration mode.
	<b>show context</b>	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. The **no** form removes the value of the character-encoding attribute.

**character-encoding** *charset*

**no character-encoding** [*charset*]

## Syntax Description

<i>charset</i>	String consisting of up to 40 characters, and equal to one of the valid character sets identified in <a href="http://www.iana.org/assignments/character-sets">http://www.iana.org/assignments/character-sets</a> . 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.
	The string is case-insensitive. The command interpreter converts upper-case to lower-case in the security appliance configuration.

## Defaults

No default behavior or values. The encoding type set on the remote browser determines the character set for WebVPN portal pages when this attribute does not have a value.

## Command Modes

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

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

## Command History

Release	Modification
7.1(1)	This command was introduced.

## Usage Guidelines

*Character encoding*, also called “character coding” and “a character set,” is the pairing of raw data (such as 0’s and 1’s) and characters to represent the data. The language determines the character encoding method to use. Some languages use the same method, while others do not. Usually, the geographic region determines the default encoding method used by the browser, but the user can change this. The browser can also detect the encoding specified on the page, and render the document accordingly. The character-encoding attribute lets you specify the value of the character-encoding method into the WebVPN portal page to ensure that the browser renders it properly, regardless of the region in which the user is using the browser, or any changes made to the browser.

The character-encoding attribute is a global setting that, by default, all WebVPN portal pages inherit. However, you 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. You can 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.

**Note**

The character-encoding and file-encoding values do not exclude the font family to be used by the browser. You need 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.

**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-asal(config-webvpn)# customization DfltCustomization
F1-asal(config-webvpn-custom)# page style background-color:white
F1-asal(config-webvpn-custom)#
```

**Related Commands**

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

<b>check-interval</b>	Sets the buffer verification interval. The buffer verification process checks the sanity of the heap (allocated and freed memory buffers). During each invocation of the process, the security appliance checks the entire heap, validating each memory buffer. If there is a discrepancy, the security appliance issues either an “allocated buffer error” or a “free buffer error.” If there is an error, the security appliance dumps traceback information when possible and reloads.
<b>validate-checksum</b>	Sets the code space checksum validation interval. When the security appliance first boots up, the security appliance calculates a hash of the entire code. Later, during the periodic check, the security appliance generates a new hash and compares it to the original. If there is a mismatch, the security appliance issues a “text checksum checkheaps error.” If there is an error, the security appliance dumps traceback information when possible and reloads.
<i>seconds</i>	Sets the interval in seconds between 1 and 2147483.

## Defaults

The default intervals are 60 seconds each.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Examples

The following example sets the buffer allocation interval to 200 seconds and the code space checksum interval to 500 seconds:

```
hostname(config)# checkheaps check-interval 200
hostname(config)# checkheaps validate-checksum 500
```

■ checkheaps

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 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:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				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 security appliance will make efforts to verify if the data in retransmits are the same as the original. If the data doesn't match, then the connection is dropped by the 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
<b>class</b>	Specifies a class map to use for traffic classification.
<b>help</b>	Shows syntax help for the <b>policy-map</b> , <b>class</b> , and <b>description</b> commands.
<b>policy-map</b>	Configures a policy; that is, an association of a traffic class and one or more actions.
<b>set connection</b>	Configures connection values.
<b>tcp-map</b>	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 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:

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

## 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

<i>name</i>	Specifies the name as a string up to 20 characters long. To set the limits for the default class, enter <b>default</b> for the name.
-------------	--

### Defaults

No default behavior or values.

### Command Modes

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

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

### Command History

Release	Modification
7.2(1)	This command was introduced.

### Usage Guidelines

By default, all security contexts have unlimited access to the resources of the security appliance, except where maximum limits per context are enforced. However, if you find that one or more contexts use too many resources, and they cause other contexts to be denied connections, for example, then you can configure resource management to limit the use of resources per context.

The 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 security appliance does not set aside a portion of the resources for each context assigned to the class; rather, the 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 **limit-resource** command to set the resources for the class.

All contexts belong to the default class if they are not assigned to another class; you do not have to actively assign a context to the default class.

If a context belongs to a class other than the default class, those class settings always override the default class settings. However, if the other class has any settings that are not defined, then the member context uses the default class for those limits. For example, if you create a class with a 2 percent limit for all

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 xlates 36000
```

### Related Commands

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

*classmap\_name* Specifies the name for the class map. For a Layer 3/4 policy map (the **policy-map** command), you must specify a Layer 3/4 class map name (the **class-map** or **class-map type management** command). For an inspection policy map (the **policy-map type inspect** command), you must specify an inspection class map name (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:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				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 Security Appliance Command Line Configuration Guide* 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.
2. **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 Security Appliance Command Line Configuration Guide* 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 Security Appliance Command Line Configuration Guide* 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 security appliance does not make this match because they previously matched other classes.

#### Related Commands

Command	Description
<b>class-map</b>	Creates a Layer 3/4 class map.
<b>class-map type management</b>	Creates a Layer 3/4 class map for management traffic.
<b>clear configure policy-map</b>	Removes all policy-map configuration, except for any policy-map that is in use in a service-policy command.
<b>match</b>	Defines the traffic-matching parameters.
<b>policy-map</b>	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

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 reuse 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:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				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 security appliance, see the **class-map type management** command.

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. This is for internal use only, and cannot be modified.

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. The configuration includes a default Layer 3/4 class map that the security appliance uses in the default global policy. It is called **inspection\_default** and matches the default inspection traffic:

```
class-map inspection_default
  match default-inspection-traffic
```

You can create multiple Layer 3/4 class maps 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** 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)# match access-list tcp

hostname(config-cmap)# class-map all_http
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
```

### Related Commands

Command	Description
<b>class-map type management</b>	Creates a class map for traffic to the security appliance.
<b>policy-map</b>	Creates a policy map by associating the traffic class with one or more actions.
<b>policy-map type inspect</b>	Defines special actions for application inspection.
<b>service-policy</b>	Creates a security policy by associating the policy map with one or more interfaces.
<b>show running-config class-map</b>	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] class_map_name

no class-map [type inspect application [match-all]] class_map_name
```

Syntax Description

<i>application</i>	Specifies the type of application traffic you want to match. Available types include: <ul style="list-style-type: none"><li>• <b>dns</b></li><li>• <b>ftp</b></li><li>• <b>h323</b></li><li>• <b>http</b></li><li>• <b>im</b></li><li>• <b>sip</b></li></ul>
<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 reuse a name already used by another type of class map.
<b>match-all</b>	(Optional) Specifies that traffic must match all criteria to match the class map. <b>match-all</b> is the default and only option.

Defaults

No default behaviors or values.

Command Modes

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

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

Command History

Release	Modification
7.2(1)	This command was introduced.

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. Traffic must match *all* of the **match** commands to match the 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 matches, 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.

### Examples

The following example creates an inspection class map for HTTP:

```
hostname(config)# class-map type inspect http match-all test
hostname(config-cmap)# match req-resp content-type mismatch
hostname(config-cmap)# match request body length gt 1000
hostname(config-cmap)# match not request args regex regex1
```

### Related Commands

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

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

Release	Modification
7.2(1)	This command was introduced.

**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 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.

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 TCP or UDP ports only. A Layer 3/4 class map contains, at most, one **match** command that identifies the traffic included in the class map.

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

<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 reuse a name already used by another type of class map.
<b>match-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 or values.

## Command Modes

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

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

## Command History

Release	Modification
7.2(1)	This command was introduced.

## 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 containing one or more **match** commands or you can use **match** commands directly in the inspection policy map. Some **match** 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 regular expression class map, create the regular expressions using the **regex** command. Then, identify the named regular expressions in class-map configuration mode using the **match regex** command.



**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 example
hostname(config-cmap)# match regex example2
```

**Related Commands**

Command	Description
<b>class-map type inspect</b>	Creates an inspection class map to match traffic specific to an application.
<b>policy-map</b>	Creates a policy map by associating the traffic class with one or more actions.
<b>policy-map type inspect</b>	Defines special actions for application inspection.
<b>service-policy</b>	Creates a security policy by associating the policy map with one or more interfaces.
<b>regex</b>	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

<b>all</b>	Resets the failed-attempts counter to 0 for all users.
<i>name</i>	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 values.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Usage Guidelines

Use this command when a user fails authentication a few times, but you want to reset the counter to zero, for example, when the configuration has recently been modified.

After the configured number of failed authentication attempts, the user is locked out of the system and 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 user successfully authenticates or when the security appliance reboots.

Locking or unlocking a username results in a syslog message.

A system administrator with a privilege level of 15 cannot be locked out.

## Examples

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

```
hostname(config)# clear aaa local user authentication fail-attempts username anyuser
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
<b>aaa local authentication attempts max-fail</b>	Configures a limit on the number of failed user authentication attempts allowed.
<b>clear aaa local user lockout</b>	Resets the number of failed user authentication attempts to zero without modifying the user's locked-out status.
<b>show aaa local user [locked]</b>	Shows the list of usernames that are currently locked.

# clear aaa local user logout

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

**clear aaa local user logout** { **username** *name* | **all** }

## Syntax Description

<b>all</b>	Resets the failed-attempts counter to 0 for all users.
<i>name</i>	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 values.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Usage Guidelines

You can specify a single user by using the **username** option or all users with the **all** option.

This command affects only the status of users that are locked out.

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 **clear aaa local user logout** command to clear the logout condition and reset the failed-attempts counter to 0 for the username anyuser:

```
hostname(config)# clear aaa local user logout username anyuser
hostname(config)#
```

**Related Commands**

Command	Description
<b>aaa local authentication attempts max-fail</b>	Configures a limit on the number of failed user authentication attempts allowed.
<b>clear aaa local user fail-attempts</b>	Resets the number of failed user authentication attempts to zero without modifying the user's locked-out status.
<b>show aaa local user [locked]</b>	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 privileged EXEC mode.

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

Syntax Description	<b>LOCAL</b>	(Optional) Clears statistics for the LOCAL user database.
	<i>groupname</i>	(Optional) Clears statistics for servers in a group.
	<b>host</b> <i>hostname</i>	(Optional) Clears statistics for a particular server in the group.
	<b>protocol</b> <i>protocol</i>	(Optional) Clears statistics for servers of the specified protocol:
	<ul style="list-style-type: none"> <li>• <b>kerberos</b></li> <li>• <b>ldap</b></li> <li>• <b>nt</b></li> <li>• <b>radius</b></li> <li>• <b>sdi</b></li> <li>• <b>tacacs+</b></li> </ul>	

Defaults	Remove all AAA-server statistics across all groups.
----------	---

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

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

Command History	Release	Modification
	7.0(1)	This command was modified to adhere to CLI guidelines. In the protocol values, <b>nt</b> replaces the older <b>nt-domain</b> , and <b>sdi</b> replaces the older <b>rsa-ace</b> .

Examples	<p>The following command shows how to reset the AAA statistics for a specific server in a group:</p> <pre>hostname(config)# clear aaa-server statistics svrgrp1 host 1.2.3.4</pre> <p>The following command shows how to reset the AAA statistics for an entire server group:</p> <pre>hostname(config)# clear aaa-server statistics svrgrp1</pre>
----------	--

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

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

# clear access-group

To remove access groups from all the interfaces, use the **clear access-group** command.

**clear access-group**

**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:

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

Release	Modification
Preexisting	This command was preexisting.

**Examples** The following example shows how to remove all access groups:

```
hostname(config)# clear access-group
```

Related Commands	Command	Description
	<b>access-group</b>	Binds an access list to an interface.
	<b>show running-config access-group</b>	Displays the current access group configuration.



# clear access-list

To clear an access-list counter, use the **clear access-list** command in global configuration mode.

**clear access-list** [*id*] **counters**

<b>Syntax Description</b>	<b>counters</b>	Clears access list counters.
	<i>id</i>	(Optional) Name or number of an access list.

<b>Defaults</b>	All the access list counters are cleared.
-----------------	---

<b>Command Modes</b>	The following table shows the modes in which you can enter the command:
----------------------	---

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

<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	Preexisting	This command was preexisting.

<b>Usage Guidelines</b>	When you enter the <b>clear access-list</b> command, all the access list counters are cleared if you do not specify an <i>id</i> .
-------------------------	--

<b>Examples</b>	The following example shows how to clear a specific access list counter:
-----------------	--

```
hostname# clear access-list inbound counters
```

<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>access-list extended</b>	Adds an access list to the configuration and configures policy for IP traffic through the firewall.
	<b>access-list standard</b>	Adds an access list to identify the destination IP addresses of OSPF routes, which can be used in a route map for OSPF redistribution.
	<b>clear configure access-list</b>	Clears an access list from the running configuration.
	<b>show access-list</b>	Displays the access list entries by number.
	<b>show running-config access-list</b>	Displays the access list configuration that is running on the security appliance.

# 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:

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

Release	Modification
Preexisting	This command was preexisting.

**Examples** The following example clears all ARP statistics:

```
hostname# clear arp statistics
```

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

<b>flow</b>	(Optional) Clears the dropped flow statistics.
<b>frame</b>	(Optional) Clears the dropped packet statistics.
<i>type</i>	(Optional) Clears the dropped flow or packets statistics for a particular process. See “ <a href="#">Usage Guidelines</a> ” for a list of types.

## Defaults

By default, this command clears all drop statistics.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Usage Guidelines

Process types include the following:

```
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
nat-failed
nat-rpf-failed
need-ike
```

clear asp drop

no-ipv6-ipsec  
non\_tcp\_syn  
out-of-memory  
parent-closed  
pinhole-timeout  
recurse  
reinject-punt  
reset-by-ips  
reset-in  
reset-oot  
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
<b>show asp drop</b>	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	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 you can enter the command:

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

## Command History

Release	Modification
7.2(4)	This command was introduced.

## Usage Guidelines

There are only two options arp and classify having hits in the **clear asp table** command

## Examples

The following example clears all drop statistics:

```
hostname# clear asp table
```

```
Warning: hits counters in asp arp and classify tables are cleared, which might impact the
hits statistic of other modules and output of other "show" commands! hostname#clear asp
table arp
```

```
Warning: hits counters in asp arp table are cleared, which might impact the hits statistic
of other modules and output of other "show" commands! hostname#clear asp table classify
```

```
Warning: hits counters in classify tables are cleared, which might impact the hits
statistic of other modules and output of other "show" commands! hostname(config)# clear
asp table
```

```
Warning: hits counters in asp tables are cleared, which might impact the hits statistics
of other modules and output of other "show" commands! hostname# sh asp table arp
```

```
Context: single_vf, Interface: inside 10.1.1.11 Active 00e0.8146.5212 hits 0
```

```
Context: single_vf, Interface: identity :: Active 0000.0000.0000 hits 0 0.0.0.0 Active
0000.0000.0000 hits 0
```

Related Commands	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:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple 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. Also clears the history information stored during the last buffer allocation failure.

**Examples** The following example clears the blocks:

```
hostname# clear blocks
```

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

# clear-button

To customize the Clear button of the WebVPN page login box that is displayed to WebVPN users when they connect to the security appliance, use the **clear-button** command from webvpn customization mode:

**clear-button** { **text** | **style** } *value*

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

To remove the command from the configuration and cause the value to be inherited, use the **no** form of the command.

## Syntax Description

<b>text</b>	Specifies you are changing the text.
<b>style</b>	Specifies you are changing the style.
<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 is border:1px solid black;background-color:white;font-weight:bold;font-size:80%.

## Command Modes

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

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				Context	System
Webvpn customization	•	—	•	—	—

## Command History

Release	Modification
7.1(1)	This command was introduced.

## Usage Guidelines

The **style** option is expressed as any valid Cascading Style Sheet (CSS) parameters. Describing these parameters is beyond the scope of this document. For more information about CSS parameters, consult CSS specifications at the World Wide Web Consortium (W3C) website at [www.w3.org](http://www.w3.org). Appendix F of the CSS 2.1 Specification contains a convenient list of CSS parameters, and is available at [www.w3.org/TR/CSS21/propidx.html](http://www.w3.org/TR/CSS21/propidx.html).

Here are some tips for making the most common changes to the WebVPN pages—the page colors:

- You can use a comma-separated RGB value, an HTML color value, or the name of the color if recognized in HTML.
- RGB format is 0,0,0, a range of decimal numbers from 0 to 255 for each color (red, green, blue); the comma separated entry indicates the level of intensity of each color to combine with the others.



- HTML format is #000000, six digits in hexadecimal format; the first and second represent red, the third and fourth green, and the fifth and sixth represent blue.

**Note**

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:

```
F1-asal(config)# webvpn
F1-asal(config-webvpn)# customization cisco
F1-asal(config-webvpn-custom)# clear-button style background-color:blue
```

**Related Commands**

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

# clear capture

To clear the capture buffer, use the **clear capture** *capture\_name* command.

**clear capture** *capture\_name*

## Syntax Description

*capture\_name* Name of the packet capture.

## Defaults

This command has no default settings.

## Command Modes

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

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

## Command History

Release	Modification
7.0	Support for this command was introduced.

## Usage Guidelines

The shortened form of the **clear capture** (for example, **cl cap** or **clear cap**) is not supported to prevent accidental destruction of all the packet captures.

## Examples

This example shows how to clear the capture buffer for the capture buffer “trudy”:

```
hostname(config)# clear capture trudy
```

## Related Commands

Command	Description
<b>capture</b>	Enables packet capture capabilities for packet sniffing and network fault isolation.
<b>show capture</b>	Displays the capture configuration when no options are specified.

# 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}**

## Defaults

There is no default behavior for this command.

## Command Modes

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

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

## Command History

Release	Modification
7.1(1)	This command was introduced.

## Examples

In the following example, the user clears the compression configuration:

```
hostname#(config) clear configure compression
```

## Related Commands

Command	Description
<b>compression</b>	Enables compression for all SVC and WebVPN connections.
<b>svc compression</b>	Enables compression of data over an SVC connection for a specific group or user.

