



# show asp drop through show curpriv Commands

TER

# show asp drop

To debug dropped packets or connections that take place in the control plane path, use the **show asp drop** command in privileged EXEC mode. This command only shows packet and flow drops for traffic that passes through the control plane path, including most inspected traffic, traffic destined directly to the FWSM, and all IPv6 traffic. Packets and flows that are processed and dropped in the FWSM hardware do not appear in the output.

show asp drop [flow drop\_reason | frame drop\_reason]

Syntax Description	flow (Optional) Shows the dropped flows (connections).						
	frame (Optional) Shows the dropped packets.						
	<i>drop_reason</i> (Optional) Shows the flows or packets dropped by a particular process.						
efaults	No default behavior	or values.					
ommand Modes	The following table s	shows the modes in whic	ch you can enter	the comma	nd:		
		Firewall N	Node	Security C	Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•	•	•	
ommand History	Release Modification						
	3.1(1)	This command was	s introduced.				
Jsage Guidelines	information is used f	command might help you or debugging purposes o o help you debug your s	only, and the info	rmation ou		-	
	Command Description						
Related Commands		asp drop Clears drop statistics for the accelerated security path.					
Related Commands	clear asp drop	Clears drop statisti	ics for the accele	rated secur	ity path.		

# show asp table arp

To debug the accelerated security path ARP tables, use the **show asp table arp** command in privileged EXEC mode.

show asp table arp [interface interface\_name] [address ip\_address [netmask mask]]

Syntax Description	address ip_address	ess (Optional) Identifies an IP address for which you want to view ARP table entries.					
	interface(Optional) Identifies a specific interface for which you want to view the AREinterface_nametable.						
	netmask mask	(Optional) Sets the	e subnet mask fo	or the IP ad	dress.		
Defaults	No default behavior or	values.					
Command Modes	The following table sho	ows the modes in which	ch you can ente	r the comma	and:		
		<b>Firewall</b>	Node	Security	Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•	•	•	
Command History	Release	Modification					
	3.1(1)	This command wa	s introduced.				
Usage Guidelines	The <b>show arp</b> commany shows the contents of t the <i>Catalyst 6500 Serie</i> <i>Guide</i> for more informa- purposes only, and the your system with this c	he accelerated securit es Switch and Cisco 76 ation about the accele information output is	y path, which m 600 Series Route rated security p	ight help ye er Firewall ( ath. These t	ou troubleshoo Services Modul ables are used	t a problem. See <i>le Configuration</i> for debugging	
Examples	The following is sampl hostname# <b>show asp t</b>	-	w asp table arj	command:	:		
	Context: single_vf, 10.86.194.50 10.86.194.1 10.86.194.172 10.86.194.204 10.86.194.188	Interface: inside	Active 00 Active 00 Active 00	00f.66ce.5c 0b0.64ea.91 001.03cf.9e 00f.66ce.5c 00f.904b.80	La2 hits 638 979 hits 0 13c hits 0		

Context: single_vf,	Interface:	identity				
::			Active	0000.0000.0000	hits O	
0.0.0.0			Active	0000.0000.0000	hits 50	208

**Related Commands** 

Command	Description
show arp	Shows the ARP table.
show arp statistics	Shows ARP statistics.

# show asp table classify

To debug the accelerated security path classifier tables, use the **show asp table classify** command in privileged EXEC mode. The classifier examines properties of incoming packets, such as protocol, and source and destination address, to match each packet to an appropriate classification rule. Each rule is labeled with a classification domain that determines what types of actions are performed, such as dropping a packet or allowing it through.

show asp table classify [crypto | domain domain\_name | interface interface\_name]

Syntax Description	domain domain_name	(Optional) Shows entries for a specific classifier domain. See "Usage Guidelines" for a list of domains.					
	interface (Optional) Identifies a specific interface for which you want to view the						
	<i>interface_name</i> classifier table.						
	crypto	(Optional) Shows t	he encrypt, decr	ypt, and ip	sec tunnel flow	domains only	
Defaults	No default behavior or v	alues.					
Command Modes	The following table show	vs the modes in whic	h you can enter	the comma	ind:		
		Firewall N	lode	Security (	Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•	•	•	
Commond Illioto	Release	Modification					
Command History	norodoo						
Command History	3.1(1)	This command was	s introduced.				
Command History Usage Guidelines		This command was sifier command show publeshoot a problem ervices Module Confi es are used for debug	ws the classifier n. See the <i>Cataly</i> guration Guide f gging purposes o	ost 6500 Set for more inf only, and th	<i>ries Switch and</i> formation abou e information o	<i>l Cisco 7600</i> t the accelerate	
	3.1(1) The <b>show asp table clas</b> which might help you tro <i>Series Router Firewall Se</i> security path. These tabl	This command was sifier command show publeshoot a problem ervices Module Confi es are used for debug o TAC to help you de	ws the classifier n. See the <i>Cataly</i> guration Guide f gging purposes o	ost 6500 Set for more inf only, and th	<i>ries Switch and</i> formation abou e information o	<i>l Cisco 7600</i> t the accelerate	

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ctcp decrypt encrypt established filter-activex filter-ftp filter-https filter-java filter-url host inspect inspect-ctiqbe inspect-dns inspect-dns-ids inspect-ftp inspect-ftp-data inspect-gtp inspect-h323 inspect-http inspect-icmp inspect-icmp-error inspect-ils inspect-mgcp inspect-netbios inspect-pptp inspect-rsh inspect-rtsp inspect-sip inspect-skinny inspect-smtp inspect-snmp inspect-sqlnet inspect-sqlnet-plus inspect-sunrpc inspect-tftp inspect-xdmcp ipsec-natt ipsec-tunnel-flow ipsec-user limits 1u mac-permit mgmt-lockdown mgmt-tcp-intercept multicast nat nat-exempt nat-exempt-reverse nat-reverse null permit permit-ip-option permit-log pim ppp punt punt-12 punt-root shun tcp-intercept

Examples	The following is sample output from the show asp table classify command:
	hostname# show asp table classify
	Interface test:
	<pre>in id=0x36f3800, priority=10, domain=punt, deny=false     hits=0, user_data=0x0, flags=0x0     src ip=0.0.0.0, mask=0.0.0.0, port=0     dst ip=10.86.194.60, mask=255.255.255.255, port=0</pre>
	<pre>in id=0x33d3508, priority=99, domain=inspect, deny=false hits=0, user_data=0x0, use_real_addr, flags=0x0 src ip=0.0.0.0, mask=0.0.0.0, port=0 dst ip=0.0.0.0, mask=0.0.0.0, port=0</pre>
	<pre>in id=0x33d3978, priority=99, domain=inspect, deny=false</pre>
	dst ip=0.0.0.0, mask=0.0.0.0, port=0

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

## show asp table interfaces

To debug the accelerated security path interface tables, use the **show asp table interfaces** command in privileged EXEC mode.

### show asp table interfaces

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

# Release Modification 3.1(1) This command was introduced.

Usage GuidelinesThe show asp table interfaces command shows the interface table contents of the accelerated security<br/>path, which might help you troubleshoot a problem. See the Catalyst 6500 Series Switch and Cisco 7600<br/>Series Router Firewall Services Module Configuration Guide for more information about the accelerated<br/>security path. These tables are used for debugging purposes only, and the information output is subject<br/>to change. Consult Cisco TAC to help you debug your system with this command.

# ExamplesThe following is sample output from the show asp table interfaces command:<br/>hostname# show asp table interfaces\*\* Flags: 0x0001-DHCP, 0x0002-VMAC, 0x0010-Ident Ifc, 0x0020-HDB Initd,<br/>0x0040-RPF Enabled<br/>Soft-np interface 'dmz' is up<br/>context single\_vf, nicnum 0, mtu 1500<br/>vlan 300, Not shared, seclv1 50<br/>0 packets input, 1 packets output<br/>flags 0x20Soft-np interface 'foo' is down<br/>context single\_vf, nicnum 2, mtu 1500<br/>vlan 301, Not shared, seclv1 0<br/>0 packets input, 0 packets output<br/>flags 0x20

```
Soft-np interface 'outside' is down
    context single_vf, nicnum 1, mtu 1500
    vlan 302, Not shared, seclvl 50
    0 packets input, 0 packets output
    flags 0x20
Soft-np interface 'inside' is up
    context single_vf, nicnum 0, mtu 1500
    vlan 303, Not shared, seclvl 100
    680277 packets input, 92501 packets output
    flags 0x20
...
```

### Related Commands

Command	Description
interface	Configures an interface and enters interface configuration mode.
show interface	Displays the runtime status and statistics of interfaces.

# show asp table mac-address-table

To debug the accelerated security path MAC address tables, use the **show asp table mac-address-table** command in privileged EXEC mode.

show asp table mac-address-table [interface interface\_name]

Syntax Description	<b>interface</b> <i>interface_name</i>	(Option	al) Shows M	IAC address tal	bles for a sp	pecific interfac	e.
Defaults	No default behavior	or values.					
Command Modes	The following table	shows the mo	des in which	n you can enter	the comma	nd:	
			Firewall M	ode	Security C	ontext	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Privileged EXEC			•	•	•	•
Command History	Release	Modific	ation				
· · · · · ·	3.1(1)		mmand was	introduced			
	accelerated security Switch and Cisco 76 information about th the information outp command.	500 Series Roi ne accelerated	<i>iter Firewall</i> security path	Services Modu	<i>lle Configut</i> are used for	<i>ration Guide</i> for debugging pu	or more rposes only, and
Examples	The following is sar			-	c-address-t	able command	1:
	interface		address	flags			
	inside1 inside1 inside1 inside1 inside1 inside1		0009.b74d. 0007.e903.a 0007.e950. 0050.0499. 0012.d96f. 0001.02a7.	ad6e None 2067 None 3749 None e200 None f4ec None			
	inside1 inside1 inside1		0001.032c. 0004.5a2d. 0003.4773.	alc8 None			

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inside1	000d.88ef.5d1c	None
inside1	00c0.b766.adce	None
inside1	0050.5640.450d	None
inside1	0001.03cf.0431	None

### **Related Commands**

Command	Description
show	Shows the MAC address table, including dynamic and static entries.
mac-address-table	

# show asp table routing

To debug the accelerated security path routing tables, use the **show asp table routing** command in privileged EXEC mode. This command supports IPv4 and IPv6 addresses.

show asp table routing [input | output] [address ip\_address [netmask mask] |
interface interface\_name]

address ip_address	addresses, you can	include the subr	net mask as	s a slash (/) foll		
	fe80::2e0:b6ff:f	e01:3b7a/128				
input	Shows the entries	from the input ro	ute table.			
<b>interface</b> interface_name	(Optional) Identifies a specific interface for which you want to view the routing table.					
netmask mask	For IPv4 addresses	s, specifies the su	ıbnet mask			
output	Shows the entries	from the output r	oute table.			
	ows the modes in whic		1			
	Firewall N	Node	Security Context			
				Multiple		
<b>Command Mode</b>	Routed	Transparent	Single	Context	System	
			-	•	•	
Privileged EXEC	•	•	•	•	•	
Privileged EXEC Release	• Modification	•	•	•		
			•	•		
Release	Modification This command wa uting command shows roubleshoot a problem Services Module Confi bles are used for debu co TAC to help you de e output from the sho	s introduced. the routing table n. See the <i>Cataly</i> <i>iguration Guide</i> f gging purposes o bug your system	e contents of est 6500 Se. For more inf nly, and th with this of	of the accelerate ries Switch and Formation abou e information o command.	ed security path <i>l Cisco 7600</i> t the accelerate	
	input interface interface_name netmask mask output No default behavior or The following table sho	addresses, you can prefix (0 to 128). F fe80::2e0:b6ff:f input Shows the entries : interface (Optional) Identifi interface_name routing table. netmask mask For IPv4 addresses output Shows the entries : No default behavior or values. The following table shows the modes in whice Firewall N	addresses, you can include the submortance prefix (0 to 128). For example, enter fee80::2e0:b6ff:fe01:3b7a/128         input       Shows the entries from the input root interface (Optional) Identifies a specific interinterface_name routing table.         netmask mask       For IPv4 addresses, specifies the submortance of the output root of the output root of the output root root of the output root root root root root root root ro	addresses, you can include the subnet mask as prefix (0 to 128). For example, enter the follor fe80::2e0:b6ff:fe01:3b7a/128         input       Shows the entries from the input route table.         interface       (Optional) Identifies a specific interface for w routing table.         netmask mask       For IPv4 addresses, specifies the subnet mask output         Shows the entries from the output route table.         No default behavior or values.         The following table shows the modes in which you can enter the commation of the submet mask in which you can enter the submet mask in which you can enter the submet mask in which you can enter the submet mask in t	addresses, you can include the subnet mask as a slash (/) foll prefix (0 to 128). For example, enter the following:         fe80::2e0:b6ff:fe01:3b7a/128         input       Shows the entries from the input route table.         interface       (Optional) Identifies a specific interface for which you want interface_name         routing table.       netmask mask         for IPv4 addresses, specifies the subnet mask.         output       Shows the entries from the output route table.         No default behavior or values.         The following table shows the modes in which you can enter the command:         Firewall Mode       Security Context         Multiple	

in10.86.194.60255.255.255.255identityin10.86.195.255255.255.255.255identityin10.86.194.0255.255.255.255in209.165.202.159255.255.255in209.165.202.255255.255.255in209.165.201.30255.255.255in209.165.201.0255.255.255in209.165.201.0255.255.255in209.165.201.0255.255.255in240.0.0240.0.0in244.0.0.0240.0.0in0.0.0.00.0.0.0out255.255.255255.255out224.0.0.0240.0.0.0out255.255.255255.255.255out224.0.0.0240.0.0.0out255.255.255255.255.255out224.0.0.0240.0.0.0out255.255.255255.255.255out224.0.0.0240.0.0.0out255.255.255255.255.255out224.0.0.0240.0.0.0out255.255.255.2551nsideout224.0.0.0240.0.0.0out224.0.0.0240.0.0.0out224.0.0.0240.0.0.0out224.0.0.0240.0.0.0out224.0.0.0240.0.0.0out255.255.255.255out240.0.0out0.0.0.00.0.0.0out0.0.0.00.0.0.0out0.0.0.00.0.0.0out0.0.0.00.0.0.0out0.0.0.00.0.0.0<	in	224.0.0.9	255.255.255.255	identity
in10.86.194.0255.255.255.255identityin209.165.202.159255.255.255.255identityin209.165.202.255255.255.255identityin209.165.201.30255.255.255.255identityin209.165.201.0255.255.255.255identityin209.165.201.0255.255.255.255identityin10.86.194.0255.255.255.255identityin0.00.0240.0.0insidein224.0.0240.0.0fooout255.255.255.255255.255.255fooout224.0.0240.0.0fooout255.255.255.255255.255.255testout224.0.0240.0.0testout255.255.255.255255.255.255insideout224.0.0240.0.0testout255.255.255.255insideout224.0.0240.0.0insideout0.86.194.0255.255.255.255insideout224.0.0.0240.0.0insideout0.0.0.00.0.0.0via 10.86.194.1, insideout0.0.0.00.0.0.0via 0.0.0.0, identity	in	10.86.194.60	255.255.255.255	identity
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out         224.0.0.0         240.0.0.0         test           out         255.255.255.255         255.255.255         inside           out         10.86.194.0         255.255.254.0         inside           out         224.0.0.0         240.0.0.0         inside           out         0.0.0.0         0.0.0.0         via 10.86.194.1, inside           out         0.0.0.0         0.0.0.0         via 0.0.0.0, identity	out	224.0.0.0	240.0.0.0	foo
out         255.255.255.255         255.255.255.255         inside           out         10.86.194.0         255.255.254.0         inside           out         224.0.0.0         240.0.0.0         inside           out         0.0.0.0         0.0.0.0         via 10.86.194.1, inside           out         0.0.0.0         0.0.0.0         via 0.0.0.0, identity	out	255.255.255.255	255.255.255.255	test
out         10.86.194.0         255.255.254.0         inside           out         224.0.0.0         240.0.0.0         inside           out         0.0.0.0         0.0.0.0         via 10.86.194.1, inside           out         0.0.0.0         0.0.0.0         via 0.0.0.0, identity	out	224.0.0.0	240.0.0.0	test
out         224.0.0.0         240.0.0.0         inside           out         0.0.0.0         0.0.0.0         via 10.86.194.1, inside           out         0.0.0.0         0.0.0.0         via 0.0.0.0, identity	out	255.255.255.255	255.255.255.255	inside
out0.0.0.00.0.0.0via10.86.194.1, insideout0.0.0.00.0.0.0via0.0.0.0, identity	out	10.86.194.0	255.255.254.0	inside
out 0.0.0.0 0.0.0.0 via 0.0.0.0, identity	out	224.0.0.0	240.0.0.0	inside
out :: :: via 0.0.0.0, identity				via 0.0.0.0, identity
	out	::	::	via 0.0.0.0, identity

Command show route

DescriptionShows the routing table in the control plane.

# show asp table vpn-context

To debug the accelerated security path VPN context tables, use the **show asp table vpn-context** command in privileged EXEC mode.

show asp table vpn-context [detail]

Syntax Description	detail (Optional) Shows additional detail for the VPN context tables.						
Defaults	No default behavi	ior or values.					
Command Modes	The following tab	ble shows the m	odes in whic	ch you can enter	the comma	nd:	
			Firewall N	Node	Security C	Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Privileged EXEC		•	•	•	•	•
Command History	Release	Modifi	ication				
· · · · · · ·	3.1(1)			s introduced.			
	security path. The to change. Consu				•		output is subject
Examples	The following is	sample output f	from the <b>sho</b>	w asp table vpn	-context co	ommand:	
	hostname# <b>show</b> a	asp table vpn	-context				
	VPN ID=00580705 VPN ID=00581939 VPN ID=00581685 VPN ID=00581611 VPN ID=00581537 VPN ID=00581504 VPN ID=00581020 VPN ID=00581340 VPN ID=00581032	20, ENCR+ESP, 68, DECR+ESP, 68, ENCR+ESP, 28, DECR+ESP, 40, ENCR+ESP, 88, DECR+ESP, 88, ENCR+ESP, 16, DECR+ESP,	UP, pk=000 UP, pk=000 UP, pk=000 UP, pk=000 UP, pk=000 UP, pk=000 UP, pk=000 UP, pk=000	0000000, rk=00( 0299627, rk=00( 0305043, rk=00( 0271432, rk=00( 0285328, rk=00( 0268550, rk=00( 0274673, rk=00( 0252854, rk=00(	00000000, 00000061, 00000061, 00000061, 00000061, 00000061, 00000061,	gc=0 gc=2 gc=1 gc=2 gc=1 gc=2 gc=1 gc=2	
	The following is a	sample output f	from the <b>sho</b>	w asp table vpn	-context de	e <b>tail</b> command	1.
				asp taste (pi			1.

```
VPN Ctx = 0058070576 [0x03761630]
        = UP
State
Flags
      = DECR+ESP
SA
       = 0 \times 037928 F0
SPI
       = 0 \times EA0F21F0
      = 0
Group
Pkts
        = 0
Bad Pkts = 0
Bad SPI = 0
Spoof = 0
Bad Crypto = 0
Rekey Pkt = 0
Rekey Call = 0
VPN Ctx = 0058193920 [0x0377F800]
State = UP
Flags
        = ENCR+ESP
SA
        = 0 \times 037B4B70
SPI
        = 0x900FDC32
      = 0
Group
Pkts
        = 0
Bad Pkts = 0
Bad SPI = 0
Spoof = 0
Bad Crypto = 0
Rekey Pkt = 0
Rekey Call = 0
. . .
```

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

# show asr

To display the members of ASR groups, use the show asr command in privileged EXEC mode.

show asr {group\_id | all}

Syntax Description	group_id		Displays the VLANs that are members of the specified ASR group. Valid values are 1 through 32.				
	all	Dis	plays the memb	pership for all 32	2 ASR grou	ps.	
Defaults	No default beł	havior or values					
ommand Modes	The following	table shows the	modes in whic	h you can enter	the comma	nd:	
			Firewall N	lode	Security C	Context	
						Multiple	
	Command Mo	de	Routed	Transparent	Single	Context	System
	Privileged EX	KEC	•	—	•		—
command History	Release	Μο	dification				
Commanu history	3.1(1)     This command was introduced.						
lsage Guidelines	An ASR group	p can contain up	to 8 members.	A "0" (zero) in	the output	indicates an er	npty slot.
-	The <b>show asr</b> The following	command provi	des the same of	A "0" (zero) in utput as the <b>shov</b> w <b>asr</b> command.	w np asr co	ommand.	
-	The show asr	command provi is sample outpu SR group 1.	des the same of	utput as the <b>shov</b>	w np asr co	ommand.	
-	The <b>show asr</b> The following members of A	command provi is sample outpu SR group 1. asr 1	des the same of it from the <b>sho</b>	utput as the <b>shov</b> w <b>asr</b> command.	<b>w np asr</b> co . It limits th	ommand.	
	The show asr The following members of A hostname# sh	command provi is sample outpu SR group 1. asr 1 Vlan Entrie	des the same of it from the <b>sho</b>	utput as the <b>show</b> w <b>asr</b> command.	<b>w np asr</b> co . It limits th	ommand.	
-	The show asr The following members of A hostname# sh ASR Group   1   The following	command provi is sample outpu SR group 1. asr 1 Vlan Entrie 10 20 0	des the same of tt from the <b>sho</b> s in ASR Group 0 0 tt from the <b>sho</b>	utput as the <b>show</b> w <b>asr</b> command.	w np asr co . It limits th mpty slot) 	ommand. ne display to V s VLAN memb	LANs that ar
Jsage Guidelines	The show asr The following members of A hostname# sh ASR Group   	command provi is sample outpu SR group 1. asr 1 Vlan Entrie 10 20 0 is sample outpu groups. In this o asr all	des the same of the from the <b>shor</b> s in ASR Group 0 0 the from the <b>shor</b> example, only A	w <b>asr</b> command. (0 denotes er 0 0 0 w <b>asr</b> command.	w np asr co It limits th mpty slot) It displays member V	ommand. ne display to V s VLAN memb	LANs that ar

5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0
31	j o	0	0	0	0	0	0	0
32	j o	0	0	0	0	0	0	0

<b>Related Commands</b>	Command	Description
	asr-group	Specifies an interface as a member of an ASR group.

# show auto-update

To view the Auto Update Server configuration, use the **show auto-update** command in privileged EXEC mode.

### show auto-update

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

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

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

Command History	Release	Modification
	3.1(1)	This command was introduced.

### Examples

The following is sample output from the **show auto-update** command:

hostname# show arp-inspection
Poll period: 1 minutes, retry count: 1, retry period: 5 minutes
Timeout: none
Device ID: host name [farscape]

<b>Related Commands</b>	Command	Description
	auto-update device-id	Sets the FWSM device ID for use with an Auto Update Server.
	auto-update poll-period	Sets how often the FWSM checks for updates from an Auto Update Server.
	auto-update server	Identifies the Auto Update Server.
	auto-update timeout	Stops traffic from passing through the FWSM if the Auto Update Server is not contacted within the timeout period.
	clear configure auto-update	Clears the Auto Update Server configuration

# show blocks

To show the packet buffer utilization, use the show blocks command in privileged EXEC mode.

show blocks [{address hex | all | assigned | free | old | pool size [summary]} [diagnostics |
 dump | header | packet] | queue history [detail]]

	address hex	(Optional) Shows	a block correspo	nding to the	is address, in h	exadecimal.		
	all	(Optional) Shows	all blocks.					
	assigned	(Optional) Shows	blocks that are a	ssigned and	l in use by an a	application.		
	detail	(Optional) Shows queue type.	a portion (128 by	(tes) of the	first block for	each unique		
	dump	(Optional) Shows the entire block contents, including the header and packet information. The difference between dump and packet is that dump includes additional information between the header and the packet.						
	diagnostics	(Optional) Shows	block diagnostic	s.				
	free	(Optional) Shows	blocks that are a	vailable for	use.			
	header	(Optional) Shows	the header of the	block.				
	old	(Optional) Shows	blocks that were	assigned m	ore than a mir	nute ago.		
	packet	(Optional) Shows	the header of the	block as w	ell as the pack	et contents.		
	pool size	(Optional) Shows	blocks of a speci	fic size.				
	queue history	(Optional) Shows blocks. Sometime a queue. In that ca	s, a block is alloc	cated from t	the pool but ne	ever assigned to		
	summary (Optional) Shows detailed information about block usage sorted by the program addresses of applications that allocated blocks in this class, program addresses of applications that released blocks in this class, and the queues to which valid blocks in this class belong.							
		which valid block	s in this class bel	ong.				
Defaults Command Modes	No default behavior o The following table s				nd:			
		or values.			nd:			
		or values.	ch you can enter					
		or values. hows the modes in whi	ch you can enter	the comma				
		or values. hows the modes in whi	ch you can enter	the comma	Context	System		
	The following table s	or values. hows the modes in whi Firewall	ch you can enter Mode	the comma	Context Multiple	System •		
	The following table s	or values. hows the modes in whi Firewall Routed	ch you can enter Mode Transparent	the comma Security C Single	Context Multiple Context			

### Usage Guidelines

The **show blocks** command helps you determine if the FWSM is overloaded. This command lists preallocated system buffer utilization. A full memory condition is not a problem as long as traffic is moving through the FWSM. You can use the **show conn** command to see if traffic is moving. If traffic is not moving and the memory is full, there may be a problem.

You can also view this information using SNMP.

The information shown in a security context includes the system-wide information as well as context-specific information about the blocks in use and the high water mark for block usage.

See the "Examples" section for a description of the display output.

### Examples

The following is sample output from the **show blocks** command in single mode:

hostname# <b>show blocks</b>					
SIZE	MAX	LOW	CNT		
4	1600	1598	1599		
80	400	398	399		
256	3600	3540	3542		
1550	4716	3177	3184		
16384	10	10	10		
2048	1000	1000	1000		

Table 3 shows each field description.

Table 25-1	show blocks Fields

Field	Description
SIZE	Size, in bytes, of the block pool. Each size represents a particular type. Examples are shown below.
4	Duplicates existing blocks in applications such as DNS, ISAKMP, URL filtering, uauth, TFTP, and TCP modules.
80	Used in TCP intercept to generate acknowledgment packets and for failover hello messages.
256	Used for Stateful Failover updates, syslogging, and other TCP functions.
	These blocks are mainly used for Stateful Failover messages. The active FWSM generates and sends packets to the standby FWSM to update the translation and connection table. In bursty traffic, where high rates of connections are created or torn down, the number of available blocks might drop to 0. This situation indicates that one or more connections were not updated to the standby FWSM. The Stateful Failover protocol catches the missing translation or connection the next time. If the CNT column for 256-byte blocks stays at or near 0 for extended periods of time, then the FWSM is having trouble keeping the translation and connection tables synchronized because of the number of connections per second that the FWSM is processing.
	Syslog messages sent out from the FWSM also use the 256-byte blocks, but they are generally not released in such quantity to cause a depletion of the 256-byte block pool. If the CNT column shows that the number of 256-byte blocks is near 0, ensure that you are not logging at Debugging (level 7) to the syslog server. This is indicated by the logging trap line in the FWSM configuration. We recommend that you set logging at Notification (level 5) or lower, unless you require additional information for debugging purposes.

Field	Description
1550	Used to store Ethernet packets for processing through the FWSM.
	When a packet enters a FWSM interface, it is placed on the input interface queue, passed up to the operating system, and placed in a block. The FWSM determines whether the packet should be permitted or denied based on the security policy and processes the packet through to the output queue on the outbound interface. If the FWSM is having trouble keeping up with the traffic load, the number of available blocks will hover close to 0 (as shown in the CNT column of the command output). When the CNT column is zero, the FWSM attempts to allocate more blocks, up to a maximum of 8192. If no more blocks are available, the FWSM drops the packet.
16384	Only used for the 64-bit, 66-MHz Gigabit Ethernet cards (i82543).
	See the description for 1550 for more information about Ethernet packets.
2048	Control or guided frames used for control updates.
MAX	Maximum number of blocks available for the specified byte block pool. The maximum number of blocks are carved out of memory at bootup. Typically, the maximum number of blocks does not change. The exception is for the 256- and 1550-byte blocks, where the FWSM can dynamically create more when needed, up to a maximum of 8192.
LOW	Low-water mark. This number indicates the lowest number of this size blocks available since the FWSM was powered up, or since the last clearing of the blocks (with the <b>clear blocks</b> command). A zero in the LOW column indicates a previous event where memory was full.
CNT	Current number of blocks available for that specific size block pool. A zero in the CNT column means memory is full now.

### Table 25-1show blocks Fields (continued)

The following is sample output from the show blocks all command:

hostname# <b>show blocks all</b> Class 0, size 4					
Block	allocd_by	freed_by	data size	alloccnt	dup_cnt oper location
0x01799940	0x00000000	0x00101603	0	0	0 alloc not_specified
0x01798e80	0x00000000	0x00101603	0	0	0 alloc not_specified
0x017983c0	$0 \times 000000000$	0x00101603	0	0	0 alloc not_specified

. . .

Found 1000 of 1000 blocks Displaying 1000 of 1000 blocks

Table 4 shows each field description.

### Table 25-2 show blocks all Fields

Field	Description
Block	The block address.
allocd_by	The program address of the application that last used the block (0 if not used).
freed_by	The program address of the application that last released the block.
data size	The size of the application buffer/packet data that is inside the block.
allocent	The number of times this block has been used since the block came into existence.

Field	Description
dup_cnt	The current number of references to this block if used: 0 means 1 reference, 1 means 2 references.
oper	One of the four operations that was last performed on the block: alloc, get, put, or free.
location	The application that uses the block, or the program address of the application that last allocated the block (same as the allocd_by field).

### Table 25-2 show blocks all Fields

The following is sample output from the show blocks command in a context:

hostname/contexta# <b>show blocks</b>					
SIZE	MAX	LOW	CNT	INUSE	HIGH
4	1600	1599	1599	0	0
80	400	400	400	0	0
256	3600	3538	3540	0	1
1550	4616	3077	3085	0	0

The following is sample output from the **show blocks queue history** command:

hostname# <b>show blocks</b>	queue history				
Each Summary for User	and Queue_type is	s followed	its top 5	individual	queues
Block Size: 4					
Summary for User "htt	p", Queue "tcp_ung	p_c_in", Bl	ocks 1595,	Queues 13	96
Blk_cnt Q_cnt Last_Op	Queue_Type	User	Context		
186 1 put			contexta		
15 1 put			contexta		
1 1 put			contexta		
1 1 put			contextb		
1 1 put			contextc		
Summary for User "aaa	", Queue "tcp_unp_	_c_in", Blo	cks 220, (	Queues 200	
Blk_cnt Q_cnt Last_Op	Queue_Type	User	Context		
21 1 put			contexta		
1 1 put			contexta		
1 1 put			contexta		
1 1 put			contextb		
1 1 put			contextc		
Blk_cnt Q_cnt Last_Op		User			
200 1 alloc	-	-	contexta		
108 1 get	ip_rx	-	contexta		
85 1 free	-	—	contextb		
42 1 put	fixup	skinny	contextb		
Block Size: 1550					
Summary for User "htt			ogleg 1505	01101107 101	20
-		User , bi	Context	Queues IV	50
Blk_cnt Q_cnt Last_Op 186 1 put	Queue_Type	USEL			
			contexta contexta		
<b>T</b>			contexta		
1 1 put 1 1 put			contextb		
1 1 put			contextc		

. . .

The following is sample output from the **show blocks queue history detail** command:

```
hostname# show blocks queue history detail
History buffer memory usage: 2136 bytes (default)
Each Summary for User and Queue type is followed its top 5 individual queues
Block Size: 4
Summary for User "http", Queue_Type "tcp_unp_c_in", Blocks 1595, Queues 1396
Blk_cnt Q_cnt Last_Op Queue_Type User Context
```

186 1 put contexta 15 1 put contexta 1 1 put contexta 1 1 put contextb 1 1 put contexto First Block information for Block at 0x.... dup\_count 0, flags 0x8000000, alloc\_pc 0x43ea2a, start\_addr 0xefb1074, read\_addr 0xefb118c, write\_addr 0xefb1193 urgent\_addr 0xefb118c, end\_addr 0xefb17b2 0efb1150: 00 00 00 03 47 c5 61 c5 00 05 9a 38 76 80 a3 00 ....G.a....8v... 0efb1160: 00 0a 08 00 45 00 05 dc 9b c9 00 00 ff 06 f8 f3 ....E........ 0efb1170: 0a 07 0d 01 0a 07 00 50 00 17 cb 3d c7 e5 60 62 .....P...=..`b 0efb1180: 7e 73 55 82 50 18 10 00 45 ca 00 00 2d 2d 20 49 ~sU.P...E...-- I 0efb1190: 50 20 2d 2d 0d 0a 31 30 2e 37 2e 31 33 2e 31 09 | P --..10.7.13.1. 0efb11a0: 3d 3d 3e 09 31 30 2e 37 2e 30 2e 38 30 0d 0a 0d | ==>.10.7.0.80... Summary for User "aaa", Queue "tcp\_unp\_c\_in", Blocks 220, Queues 200 Blk\_cnt Q\_cnt Last\_Op Queue\_Type User Context 21 1 put contexta 1 1 put contexta 1 1 put contexta 1 1 put contextb 1 1 put contextc First Block information for Block at 0x.... dup\_count 0, flags 0x8000000, alloc\_pc 0x43ea2a, start\_addr 0xefb1074, read\_addr 0xefb118c, write\_addr 0xefb1193 urgent\_addr 0xefb118c, end\_addr 0xefb17b2 0efb1150: 00 00 00 03 47 c5 61 c5 00 05 9a 38 76 80 a3 00 ....G.a....8v... Oefb1160: 00 0a 08 00 45 00 05 dc 9b c9 00 00 ff 06 f8 f3 ....E........ 0efb1170: 0a 07 0d 01 0a 07 00 50 00 17 cb 3d c7 e5 60 62 .....P...=..`b 0efb1180: 7e 73 55 82 50 18 10 00 45 ca 00 00 2d 2d 20 49 | ~sU.P...E...-- I 0efb1190: 50 20 2d 2d 0d 0a 31 30 2e 37 2e 31 33 2e 31 09 | P --..10.7.13.1. 0efb11a0: 3d 3d 3e 09 31 30 2e 37 2e 30 2e 38 30 0d 0a 0d | ==>.10.7.0.80...

total\_count: total buffers in this class

hostname# show blocks pool 1550 summary

The following is sample output from the **show blocks pool summary** command:

Class 3, size 1550 \_\_\_\_\_\_ total\_count=1531 miss\_count=0 \_\_conc=0 invalid\_cnt valid cnt Alloc\_pc 0x3b0a18 00000256 00000000 0x01ad0760 0x01acfe00 0x01acf4a0 0x01aceb40 00000000 0x00000000 0x3a8f6b 00001275 00000012 0x05006aa0 0x05006140 0x050057e0 0x05004520 0000000 0x00000000 \_\_\_\_\_\_ total\_count=9716 miss\_count=0 invalid\_cnt Freed\_pc valid\_cnt 00000104 00000007 0x9a81f3 0x05006140 0x05000380 0x04fffa20 0x04ffde00 00000000 0x0000000 0x9a0326 00000053 0000033 0x05006aa0 0x050057e0 0x05004e80 0x05003260 00000000 0x00000000 0x4605a2 00000005 00000000 0x04ff5ac0 0x01e8e2e0 0x01e2eac0 0x01e17d20 00000000 0x00000000 . . . \_\_\_\_\_ total\_count=1531 miss\_count=0 Oueue valid cnt invalid cnt

Table 5 shows each field description.

### Table 25-3 show blocks pool summary Fields

Field	Description
total_count	The number of blocks for a given class.
miss_count	The number of blocks not reported in the specified category due to technical reasons.
Freed_pc	The program addresses of applications that released blocks in this class.
Alloc_pc	The program addresses of applications that allocated blocks in this class.
Queue	The queues to which valid blocks in this class belong.
valid_cnt	The number of blocks that are currently allocated.
invalid_cnt	The number of blocks that are not currently allocated.
Invalid Bad qtype	Either this queue has been freed and the contents are invalid or this queue was never initialized.
Valid tcp_usr_conn_inp	The queue is valid.

### **Related Commands**

Command	Description	
blocks Increases the memory assigned to block diagnostics		
clear blocks Clears the system buffer statistics.		
show conn	Shows active connections.	

# show boot device (IOS)

To view the default boot partition, use the show boot device command.

show boot device [mod\_num]

Syntax Description	mod_num	(Optional) Specifies the module number. Use the <b>show module</b> command to view installed modules and their numbers.
Defaults	The default boot part	tition is cf:4.
Command Modes	Privileged EXEC.	
Command History	Release M	odification
	Preexisting T	his command was preexisting.
Examples	-	ple output from the <b>show boot device</b> command that shows the boot partitions for I on Cisco IOS software: device
Related Commands	Command	Description
	boot device (IOS)	Sets the default boot partition.
	show module (IOS)	Shows all installed modules.

# show capture

To display the capture configuration when no options are specified, use the show capture command.

show capture [capture\_name] [access-list access\_list\_name] [count number] [decode] [detail]
 [dump] [packet-number number]

Syntax Description						
•	capture_name	(Optional) Name of the packet capture.				
	access-list	(Optional) Displays information for packets that are based on IP or higher fields				
	access_list_name	•				
	count number	(Optional) Displays the number of packets specified data.				
	decode	This option is useful when a capture of type isakmp is applied to an interface. All isakmp data flowing through that interface will be captured after decryption and shown with more information after decoding the fields.				
	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.				
	packet-number number	Starts the display at the specified packet number.				
Defaults	This command has	s no default settings.				
Command Modes	Security Context Mode: single context mode and multiple context mode					
	Access Location: system and context command line					
	Command Mode: privileged mode					
	Communa model					
	-	uted firewall mode and transparent firewall mode				
Command History	-	-				
Command History	Firewall Mode: rou	uted firewall mode and transparent firewall mode				
	Firewall Mode: rou Release 3.1(1)	uted firewall mode and transparent firewall mode Modification				
	Firewall Mode: rou Release 3.1(1) If you specify the a	Modification         Support for this command was introduced.				
	Firewall Mode: rou Release 3.1(1) If you specify the of The dump keywor The decoded output	Modification         Support for this command was introduced.         capture_name, then the capture buffer contents for that capture are displayed.         rd does not display MAC information in the hexadecimal dump.				
	Firewall Mode: roo Release 3.1(1) If you specify the a The dump keywor The decoded output output is displayed	Modification         Support for this command was introduced. <i>capture_name</i> , then the capture buffer contents for that capture are displayed.         rd does not display MAC information in the hexadecimal dump.         at of the packets depend on the protocol of the packet. In Table 25-4, the bracketed				
	Firewall Mode: roo Release 3.1(1) If you specify the a The dump keywor The decoded output output is displayed	Modification         Support for this command was introduced. <i>capture_name</i> , then the capture buffer contents for that capture are displayed.         rd does not display MAC information in the hexadecimal dump.         at of the packets depend on the protocol of the packet. In Table 25-4, the bracketed when you specify the detail keyword.				
Command History Usage Guidelines	Firewall Mode: row         Release         3.1(1)         If you specify the d         The dump keywor         The decoded output         output is displayed         Table 25-4       Pa	Modification         Support for this command was introduced.         capture_name, then the capture buffer contents for that capture are displayed.         rd does not display MAC information in the hexadecimal dump.         at of the packets depend on the protocol of the packet. In Table 25-4, the bracketed i when you specify the detail keyword.         acket Capture Output Formats				

Packet Type	Capture Output Format				
IP/ICMP	<i>HH:MM:SS.ms</i> [ether-hdr] <i>ip-source</i> > <i>ip-destination:</i> icmp: <i>icmp-type icmp-code</i> [checksum-failure]				
IP/UDP	<i>HH:MM:SS.ms</i> [ether-hdr] <i>src-addr.src-port dest-addr.dst-port</i> : [checksum-info] udp <i>payload-len</i>				
IP/TCP	HH:MM:SS.ms [ether-hdr] src-addr.src-port dest-addr.dst-port: tcp-flags [header-check] [checksum-info] sequence-number ack-number tcp-window urgent-info tcp-options				
IP/Other	<i>HH:MM:SS.ms</i> [ether-hdr] <i>src-addr dest-addr: ip-protocol ip-length</i>				
Other	HH:MM:SS.ms ether-hdr: hex-dump				

### Table 25-4 Packet Capture Output Formats (continued)

### Examples

This example shows how to display the capture configuration:

### hostname(config) # show capture

capture arp ethernet-type arp interface outside capture http access-list http packet-length 74 interface inside

This example shows how to display the packets that are captured by an ARP capture:

hostname(config)# show capture arp
2 packets captured
19:12:23.478429 arp who-has 171.69.38.89 tell 171.69.38.10
19:12:26.784294 arp who-has 171.69.38.89 tell 171.69.38.10
2 packets shown

<b>Related Commands</b>	Command	Description
	capture	Enables packet capture capabilities for packet sniffing and network fault isolation.
	clear capture	Clears the capture buffer.
	copy capture	Copies a capture file to a server.

# show checkheaps

To show the checkheaps statistics, use the **show checkheaps** command in privileged EXEC mode. 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.

### show checkheaps

- **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		
Privileged EXEC	•	•	•	_	•		

Command History	Release	Modification
	3.1(1)	Support for this command was introduced.

Examples

The following is sample output from the **show checkheaps** command:

### hostname# show checkheaps

Checkheaps stats from buffer validation runs

Time elapsed since last run	:	42 secs
Duration of last run	:	0 millisecs
Number of buffers created	:	8082
Number of buffers allocated	:	7808
Number of buffers free	:	274
Total memory in use	:	43570344 bytes
Total memory in free buffers	:	87000 bytes
Total number of runs	:	310

<b>Related Commands</b>	Command	Description
	checkheaps	Sets the checkheap verification intervals.

# show checksum

To display the configuration checksum, use the **show checksum** command in privileged EXEC mode.

	show checksum					
Syntax Description	This command has no an	rguments or keywords	S.			
Defaults	This command has no do	efault settings.				
Command Modes	The following table show	ws the modes in whic	h you can enter	the comma	und:	
		Firewall M	lode	Security (	Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Privileged EXEC	•	•	•	•	
Command History	ReleaseModification3.1(1)Support for this command was introduced.					
Usage Guidelines	The <b>show checksum</b> condigital summary of the configuration in Flash m	configuration contents				
	If a dot (".") appears bef output indicates a norma the FWSM Flash partitio "hung up." This message	al configuration load on). The "." shows that	or write mode in at the FWSM is	dicator (wi	hen loading fro d with the open	om or writing to
Examples	This example shows how	w to display the config	guration or the c	hecksum:		
	hostname(config) <b># sho</b> Cryptochecksum: 1a283		E85 650dbb81			

# show chunkstat

To display the chunk statistics, use the show chunkstat command in privileged EXEC mode.

show chunkstat

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

 Release
 Modification

 1.1(1)
 This command was introduced.

### **Examples**

The following example shows how to display the chunk statistics:

### hostname# show chunkstat

Global chunk statistics: created 181, destroyed 34, siblings created 94, siblings destroyed 34

Per-chunk statistics: siblings created 0, siblings trimmed 0
Dump of chunk at 01edb4cc, name "Managed Chunk Queue Elements", data start @ 01edbd24, end
@ 01eddc54
next: 01eddc8c, next\_sibling: 00000000, prev\_sibling: 00000000
flags 0000001
maximum chunk elt's: 499, elt size: 16, index first free 498
# chunks in use: 1, HWM of total used: 1, alignment: 0
Per-chunk statistics: siblings created 0, siblings trimmed 0
Dump of chunk at 01eddc8c, name "Registry Function List", data start @ 01eddea4, end @
01ede348
next: 01ede37c, next\_sibling: 00000000, prev\_sibling: 00000000
flags 0000001
maximum chunk elt's: 99, elt size: 12, index first free 42

# chunks in use: 57, HWM of total used: 57, alignment: 0

<b>Related Commands</b>	Command	Description
	show counters	Displays the protocol stack counters.
	show cpu	Displays the CPU utilization information.

# show class

To show the contexts assigned to a class, use the show class command in privileged EXEC mode.

show class name

Syntax Description	<i>name</i> Specifies the name as a string up to 20 characters long. To show the default class, enter <b>default</b> for the name.							
Defaults	No default behavior or v	values.						
Command Modes	The following table show	ws the mo	des in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security (	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Privileged EXEC		N/A	N/A	_	_	•	
							L	
Command History	Release Modification							
	2.2(1)This command was introduced.							
Examples	The following is sample hostname# <b>show class</b> Class Name default	-	ID Fla	<b>w class default</b> o ags 001	command:			
Related Commands	Command	Descrip	tion					
	class	Configu	ires a resou	rce class.				
	clear configure class	-		nfiguration.				
	context	Configu	ires a secur	ity context.				
	limit-resource	Sets the	resource li	mit for a class.				
	member			o a resource clas				

# show conn

To display the connection state for the designated connection type, use the **show conn** command in privileged EXEC mode. This command supports IPv4 and IPv6 addresses.

show conn [all | count] [state state\_type] | [{{foreign | local} ip [-ip2] netmask mask}] | [long | detail]
| [{{lport | fport} port1} [-port2]] | [protocol {tcp | udp}]

Syntax Description	all	Display connections that are to the device or from the device, in addition to
Syntax Description	an	through-traffic connections.
	count	(Optional) Displays the number of active connections.
	detail	Displays connections in detail, including translation type and interface information.
	foreign	Displays connections with the specified foreign IP address.
	fport	Displays connections with the specified foreign port.
	ip	IP address in dotted-decimal format or beginning address in a range of IP addresses.
	-ip2	(Optional) Ending IP address in a range of IP addresses.
	local	Displays connections with the specified local IP address.
	long	(Optional) Displays connections in long format.
	lport	Displays connections with the specified local port.
	netmask	Specifies a subnet mask for use with the given IP address.
	mask	Subnet mask in dotted-decimal format.
	port1	Port number or beginning port number in a range of port numbers.
	-port2	(Optional) Ending port number in a range of port numbers.
	protocol	(Optional) Specifies the connection protocol.
	state	(Optional) Displays the state of specified connections.
	state_type	Specifies the connection state type. See Table 7 for a list of the keywords available for connection state types.
	tcp	Displays TCP protocol connections.
	udp	Displays UDP protocol connections.

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

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

<b>Command History</b>	Release	Modification	
	1.1(1)	1.1(1)This command was introduced.	
	3.2(1)	The b state for TCP state bypass and X state for xlate bypass were added.	

### **Usage Guidelines**

The **show conn** command displays the number of active TCP connections, and provides information about connections of various types. Use the **show conn all** command to see the entire table of connections.

Note

When the FWSM creates a pinhole to allow secondary connections, this is shown as an incomplete conn by the **show conn** command. To clear this incomplete conn use the **clear local** command.

The connection types that you can specify using the **show conn state** command are defined in Table 7. When specifying multiple connection types, use commas without spaces to separate the keywords.

Table 25-5	<b>Connection State Types</b>
------------	-------------------------------

Keyword	Connection Type Displayed
up	Connections in the up state.
conn_inbound	Inbound connections.
ctiqbe	CTIQBE connections
data_in	Inbound data connections.
data_out	Outbound data connections.
finin	FIN inbound connections.
finout	FIN outbound connections.
h225	H.225 connections
h323	H.323 connections
http_get	HTTP get connections.
mgcp	MGCP connections.
nojava	Connections that deny access to Java applets.
rpc	RPC connections.
sip	SIP connections.
skinny	SCCP connections.
smtp_data	SMTP mail data connections.
sqlnet_fixup_data	SQL*Net data inspection engine connections.

When you use the **detail** option, the system displays information about the translation type and interface information using the connection flags defined in Table 8.

Flag	Description
a	awaiting outside ACK to SYN
А	awaiting inside ACK to SYN
b	State bypass
В	initial SYN from outside
С	Computer Telephony Interface Quick Buffer Encoding (CTIQBE) media connection
d	dump
D	UDP DNS
Е	outside back connection
f	inside FIN
F	outside FIN
g	Media Gateway Control Protocol (MGCP) connection
G	connection is part of a group <sup>1</sup>
h	H.225
Н	H.323
i	incomplete TCP or UDP connection
Ι	inbound data
j	GTP data
J	GTP control
k	Skinny Client Control Protocol (SCCP) media connection
K	GTP t3-response
m	SIP media connection
М	SMTP data
n	GUP
N	Supervisor-based acceleration connection
0	outbound data
р	PISA connection
Р	inside back connection
q	SQL*Net data
r	inside acknowledged FIN
R	outside acknowledged FIN for TCP connection
R	UDP SunRPC <sup>2</sup>
S	awaiting outside SYN
S	awaiting inside SYN
t	SIP transient connection <sup>3</sup>
Т	SIP connection <sup>4</sup>
U	up

Table 25-6	Connection Flags
------------	------------------

Flag	Description
X	xlate creation bypassed
W	WAAS session

Table 25-6Connection Flags (continued)

1. The G flag indicates the connection is part of a group. It is set by the GRE and FTP Strict inspections to designate the control connection and all its associated secondary connections. If the control connection terminates, then all associated secondary connections are also terminated.

- 2. Because each row of **show conn** command output represents one connection (TCP or UDP ), there will be only one R flag per row.
- 3. For UDP connections, the value t indicates that it will timeout after one minute.
- 4. For UDP connections, the value T indicates that the connection will timeout according to the value specified using the **timeout sip** command.



Note

For connections using a DNS server, the source port of the connection may be replaced by the *IP address* of DNS server in the **show conn** command output.

A single connection is created for multiple DNS sessions, as long as they are between the same two hosts, and the sessions have the same 5-tuple (source/destination IP address, source/destination port, and protocol). DNS identification is tracked by *app\_id*, and the idle timer for each app\_id runs independently.

Because the app\_id expires independently, a legitimate DNS response can only pass through the FWSM within a limited period of time and there is no resource build-up. However, when you enter the **show conn** command, you will see the idle timer of a DNS connection being reset by a new DNS session. This is due to the nature of the shared DNS connection and is by design.



When there is no TCP traffic for the period of inactivity defined by the **conn timeout** command (by default, 1:00:00), the connection is closed and the corresponding conn flag entries are no longer displayed.

### **Examples**

When specifying multiple connection types, use commas without spaces to separate the keywords. The following is sample output including RPC, H.323, and SIP connection information in the Up state from the **show conn** command:

hostname# show conn state up,rpc,h323,sip

The following is sample output that shows a TCP session connection from inside host 10.1.1.15 to the outside Telnet server at 192.168.49.10. Because there is no B flag, the connection is initiated from the inside. The "U", "I", and "O" flags denote that the connection is active and has received inbound and outbound data.

```
hostname# show conn
2 in use, 2 most used
TCP out 192.168.49.10:23 in 10.1.1.15:1026 idle 0:00:22
Bytes 1774 flags UIO
UDP out 192.168.49.10:31649 in 10.1.1.15:1028 idle 0:00:14
flags D-
```

The following sample output that shows a UDP connection from outside host 192.168.49.10 to inside host 10.1.1.15. The D flag denotes that this is a DNS connection. The number 1028 is the DNS ID over the connection.

```
hostname(config)# show conn detail
2 in use, 2 most used
Flags: A - awaiting inside ACK to SYN, a - awaiting outside ACK to SYN,
    B - initial SYN from outside, b - State bypass, C - CTIQBE media,
    D - DNS, d - dump, E - outside back connection, F - outside FIN,
    f - inside FIN, G - group, g - MGCP, H - H.323, h - H.225.0,
    I - inbound data, i - incomplete, J - GTP, j - GTP data, k - Skinny media,
    M - SMTP data, m - SIP media, n - GUP, O - outbound data,
    P - inside back connection, q - SQL*Net data, R - outside acknowledged FIN,
    R - UDP SUNRPC, r - inside acknowledged FIN, S - awaiting inside SYN,
    s - awaiting outside SYN, T - SIP, t - SIP transient, U - up
    X - xlate creation bypassed
TCP outside:192.168.49.10/23 inside:10.1.1.15/1026 flags UIO
UDP outside:192.168.49.10/31649 inside:10.1.1.15/1028 flags dD
```

The following is sample output from a GRE session connection (PROT:47) from host 172.16.2.1 to host 172.16.112.2. Because it is a non TCP connection, it is unidirectional and there are no flags.

```
hostname# show conn
2 in use, 2 most used
Network Processor 1 connections
PROT:47 out 172.16.112.2 in 172.16.2.1 idle 0:00:08
Bytes 18
```

The following is sample output from the show conn all command:

```
hostname# show conn all
```

```
6 in use, 6 most used
TCP out 209.165.201.1:80 in 10.3.3.4:1404 idle 0:00:00 Bytes 11391
TCP out 209.165.201.1:80 in 10.3.3.4:1405 idle 0:00:00 Bytes 3709
TCP out 209.165.201.1:80 in 10.3.3.4:1406 idle 0:00:01 Bytes 2685
TCP out 209.165.201.1:80 in 10.3.3.4:1407 idle 0:00:01 Bytes 2683
TCP out 209.165.201.1:80 in 10.3.3.4:1403 idle 0:00:00 Bytes 15199
TCP out 209.165.201.1:80 in 10.3.3.4:1408 idle 0:00:00 Bytes 15199
TCP out 209.165.201.7:24 in 10.3.3.4:1402 idle 0:01:30
UDP out 209.165.201.7:23 in 10.3.3.4:1397 idle 0:01:30
UDP out 209.165.201.7:22 in 10.3.3.4:1395 idle 0:01:30
```

In this example, host 10.3.3.4 on the inside has accessed a website at 209.165.201.1. The global address on the outside interface is 209.165.201.7.

The following is sample output from the **show conn detail** command:

### hostname# show conn detail

```
0 in use, 26152 most used
Flags: A - awaiting inside ACK to SYN, a - awaiting outside ACK to SYN,
B - initial SYN from outside, b - State bypass, C - CTIQBE media,
D - DNS, d - dump, E - outside back connection, F - outside FIN,
f - inside FIN, G - group, g - MGCP, H - H.323, h - H.225.0,
I - inbound data, i - incomplete, J - GTP, j - GTP data, k - Skinny media,
M - SMTP data, m - SIP media, n - GUP, O - outbound data,
P - inside back connection, q - SQL*Net data, R - outside acknowledged FIN,
R - UDP SUNRPC, r - inside acknowledged FIN, S - awaiting inside SYN,
s - awaiting outside SYN, T - SIP, t - SIP transient, U - up
X - xlate creation bypassed
Network Processor 1 connections
```
<b>Related Commands</b>	Commands	Description
	inspect ctiqbe	Enables CTIQBE application inspection.
	inspect h323	Enables H.323 application inspection.
	inspect mgcp	Enables MGCP application inspection.
	inspect sip	Removes java applets from HTTP traffic.
	inspect skinny	Enables SCCP application inspection.

### show console-output

To display the currently captured console output, use the **show console-output** command in privileged EXEC mode. The FWSM automatically captures output destined for the internal console port. Do not use the internal console port unless you are advised to do so by Cisco TAC. This command allows you to view console output on your Telnet or SSH session.

show console-output

- **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
Privileged EXEC	•	•	•	•	•

Command History	Release	Modification
	1.1(1)	This command was introduced.

**Usage Guidelines** Information that displays only on a console port includes output from the **perfmon** command, startup messages, and some debug messages. The console buffer is a maximum of 1 K, and is not user configurable.

**Examples** The following example shows the message that displays when there is no console output:

hostname# **show console-output** Sorry, there are no messages to display

<b>Related Commands</b>	Command	Description
	clear configure console	Restores the default console connection settings.

### show context

To show context information including allocated interfaces and the configuration file URL, the number of contexts configured, or from the system execution space, a list of all contexts, use the **show context** command in privileged EXEC mode.

show context [name | detail | count]

Syntax Description	count	(Optional) Shows the number of contexts configured.					
	detail		(Optional) Shows additional detail about the context(s) including the running state and information for internal use.				
	name	(Optional) Sets the context name. If you do not specify a name, the FWSM displays all contexts. Within a context, you can only enter the current context name.					
Defaults	In the system exe	ecution space, t	he FWSM dis	plays all contex	ts if you d	o not specify a	name.
Command Modes	The following tal	ble shows the n	nodes in whic	h you can enter	the comm	and:	
			Firewall M	lode	Security	Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Privileged EXEC	2	•	•		•	•
Command History	Release Modification						
	2.2(1)	This o	command was	introduced.			
Usage Guidelines Examples	See the "Example The following is three contexts:		_		-	ollowing sampl	e display shows
	Context Name *admin contexta contextb Total active Se	Class default Gold Silver ecurity Contex	Interfaces Vlan100,10 Vlan200,20 Vlan300,30 xts: 3	)1 Rout )1 Tran	sparent	URL disk:/admin.c disk:/context disk:/context	a.cfg
	Table 25-7 shows	s each field des	cription.				

Field	Description
Context Name	Lists all context names. The context name with the asterisk (*) is the admin context.
Class	Shows the resource class to which the context belongs.
Interfaces	Shows the interfaces assigned to the context.
Mode	Shows the firewall mode for each context, either Routed or Transparent.
URL	Shows the URL from which the FWSM loads the context configuration.

Table 25-	7 s	how	context	Fields

The following is sample output from the show context detail command:

hostname# show context detail

```
Context "admin", has been created, but initial ACL rules not complete
  Config URL: disk:/admin.cfg
 Real Interfaces: Vlan100
 Mapped Interfaces: Vlan100
  Class: default, Flags: 0x0000013, ID: 1
Context "ctx", has been created, but initial ACL rules not complete
  Config URL: disk:/ctx.cfg
  Real Interfaces: Vlan10,20,30
 Mapped Interfaces: int1, int2, int3
  Class: default, Flags: 0x00000011, ID: 2
Context "system", is a system resource
  Config URL: startup-config
  Real Interfaces:
 Mapped Interfaces: Vlan100,10,20,30
 Class: default, Flags: 0x00000019, ID: 257
Context "null", is a system resource
  Config URL: ... null ...
  Real Interfaces:
 Mapped Interfaces:
  Class: default, Flags: 0x0000009, ID: 258
```

Table 25-8 shows each field description.

Field	Description
Context	The context name. The null context information is for internal use only. The system context represents the system execution space.
State Message:	The context state. See the possible messages below.
Has been created, but initial ACL rules not complete	The FWSM parsed the configuration but has not yet downloaded the default ACLs to establish the default security policy. The default security policy applies to all contexts initially, and includes disallowing traffic from lower security levels to higher security levels, enabling application inspection, and other parameters. This security policy ensures that no traffic can pass through the FWSM after the configuration is parsed but before the configuration ACLs are compiled. You are unlikely to see this state because the configuration ACLs are compiled very quickly.

Field	Description		
Has been created, but not initialized	You entered the <b>context</b> <i>name</i> command, but have not yet entered the <b>config-url</b> command.		
Has been created, but the config hasn't been parsed	The default ACLs were downloaded, but the FWSM has not parsed the configuration. This state might exist because the configuration download might have failed because of network connectivity issues, or you have not yet entered the <b>config-url</b> command. To reload the configuration, from within the context, enter <b>copy startup-config running-config</b> . From the system, reenter the <b>config-url</b> command. Alternatively, you can start configuring the blank running configuration.		
Is a system resource	This state applies only to the system execution space and to the null context. The null context is used by the system, and the information is for internal use only.		
Is a zombie	You deleted the context using the <b>no context</b> or <b>clear context</b> command, but the context information persists in memory until the FWSM reuses the context ID for a new context, or you restart.		
Is active	This context is currently running and can pass traffic according to the context configuration security policy.		
Is ADMIN and active	This context is the admin context and is currently running.		
Was a former ADMIN, but is now a zombie	You deleted the admin context using the <b>clear configure context</b> command, but the context information persists in memory until the FWSM reuses the context ID for a new context, or you restart.		
Real Interfaces	The interfaces assigned to the context. If you mapped the interface IDs in the <b>allocate-interface</b> command, this display shows the real name of the interface. The system execution space includes all interfaces.		
Mapped Interfaces	If you mapped the interface IDs in the <b>allocate-interface</b> command, this display shows the mapped names. If you did not map the interfaces, the display lists the real names again.		
Class	The resource class to which the context belongs.		
Flag	For internal use only.		
ID	An internal ID for this context.		

#### Table 25-8Context States

The following is sample output from the **show context count** command:

hostname# **show context count** Total active contexts: 2

### **Related Commands**

Command	Description
admin-context	Sets the admin context.
allocate-interface	Assigns interfaces to a context.
changeto	Changes between contexts or the system execution space.

Command	Description
config-url	Specifies the location of the context configuration.
context	Creates a security context in the system configuration and enters context configuration mode.

### show counters

To display the protocol stack counters, use the show counters command in privileged EXEC mode.

show counters [all | context context-name | summary | top n ] [detail]
[protocol protocol\_name[:counter\_name]] [threshold n]

Syntax Description	all		(Multiple mode	only) Displays cou	unters for a	ll contexts.			
	context con	itext-name	(Multiple mode only) Specifies the context name for which to show counters.						
	:counter_n	ame	Specifies a cour	ter by name.					
	detail		Displays addition	nal counter inform	nation.				
	protocol pr	rotocol_name	Displays the cou	inters for the speci	ified protoc	col.			
	summary		(Multiple mode	only) Shows all co	ontext coun	ters combined			
	threshold 7	1	Displays only those counters at or above the specified threshold. The range is 1 through 4294967295.						
	top n		· •	only) Shows the corr. You must specif gh 4294967295.		-			
Defaults Command Modes	single mode The default	e, the context i count thresho	name is ignored a ld is <b>1</b> .	ext is <b>summary</b> , w nd the output show nich you can enter	vs the "con	text" as "single	•		
			Firewall Mode Security Context						
						Multiple			
	Command Mode		Routed	Transparent	Sinale	Context	System		
	Privileged		• •		•	_	•		
Command History	Release		Modification						
	2.2(1)		This command w	vas introduced.					
Examples		ng example sh show counter Counter IN_PKTS OUT_PKTS IN_PKTS	nows how to displ s all Value 2 15	ay all counters: Context admin admin customera					
	IOS_IPC IOS_IPC	OUT_PKTS	6	customera					

hostname#	show counters		
Protocol	Counter	Value	Context
NPCP	IN_PKTS	7195	Summary
NPCP	OUT_PKTS	7603	Summary
IOS_IPC	IN_PKTS	869	Summary
IOS_IPC	OUT_PKTS	865	Summary
IP	IN_PKTS	380	Summary
IP	OUT_PKTS	411	Summary
IP	TO_ARP	105	Summary
IP	TO_UDP	9	Summary
UDP	IN_PKTS	9	Summary
UDP	DROP_NO_APP	9	Summary
FIXUP	IN_PKTS	202	Summary

The following example shows how to display a summary of counters:

The following example shows how to display counters for a context:

hostname#	show	counters	context	admin
1100011011101				

Protocol	Counter	Value	Context
IOS_IPC	IN_PKTS	4	admin
IOS_IPC	OUT_PKTS	4	admin

<b>Related Commands</b>	Command	Description
	clear counters	Clears the protocol stack counters.
	show counters description	Shows a list of protocol counters.

## show counters description

To display the protocol stack counter descriptions, use the **show counters description** command in privileged EXEC mode.

#### show counters description

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

Command History	Release	Modification
	2.2(1)	This command was introduced.

Examples

The following is sample output from the **show counters description** command:

hostname# <b>sh</b>	ow counters descripti	on
Protocol	Counter	Description
NPCP	IN_PKTS	Packets from network processors
NPCP	OUT_PKTS	Packets to network processors
NPCP	DROP_LIMIT1	Gigamac packets dropped due to IP protocol que
ue limiter		
NPCP	DROP_LIMIT2	Gigamac packets dropped due to ARP protocol qu
eue limiter		
NPCP	DROP_LIMIT3	Gigamac packets dropped due to Fixup queue lim
iter		

 Related Commands
 Command
 Description

 clear counters
 Clears the protocol stack counters.

 show counters
 Shows the protocol stack counters.

# show cpu

To display the CPU utilization information, use the **show cpu usage** command in privileged EXEC mode.

show cpu [usage]

From the system configuration in multiple context mode:

show cpu [usage] [context {all | context\_name}]

Syntax Description	all	Specifi	es that the d	isplay show all	contexts				
bymax Description	context	1		isplay show a co					
	context_name	1		of the context to					
	usage								
Defaults	No default behavior	or values.							
Command Modes	The following table	shows the mo	odes in whic	h you can enter	the comma	nd:			
			Firewall M	lode	Security C	Context			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Privileged EXEC		•	•	•	•	•		
Command History	Release	Modifi	cation						
Command mistory	Release         Modification           1.1(1)         This command was introduced.								
Usage Guidelines	The cpu usage is con				every five	seconds, and by	y further feedir		
oougo Guidonnoo	this approximation in				every nee	seconds, and by			
	You can use the <b>show cpu</b> command to find process related loads (that is, activity on behalf of items listed by the output of the <b>show process</b> command in both single mode and from the system configuration in multiple context mode).								
	Further, you can request, when in multiple context mode, a breakdown of the process related load to CPU consumed by any configured contexts by changing to each context and entering the <b>show cpu</b> command or by entering the <b>show cpu context</b> variant of this command.								
	While process relate	11 1.							

#### Examples

The following example shows how to display the CPU utilization:

hostname# show cpu usage
CPU utilization for 5 seconds = 18%; 1 minute: 18%; 5 minutes: 18%

This example shows how to display the CPU utilization for the system context in multiple mode:

hostname# show cpu context system
CPU utilization for 5 seconds = 9.1%; 1 minute: 9.2%; 5 minutes: 9.1%

The following shows how to display the CPU utilization for all contexts:

hostname# show cpu usage context all 5 sec 1 min 5 min Context Name 9.1% 9.2% 9.1% system 0.0% 0.0% 0.0% admin 5.0% 5.0% 5.0% one 4.2% 4.3% 4.2% two

This example shows how to display the CPU utilization for a context named "one":

```
hostname/one# show cpu usage
CPU utilization for 5 seconds = 5.0%; 1 minute: 5.0%; 5 minutes: 5.0%
```

<b>Related Commands</b>	Command	Description
	show counters	Displays the protocol stack counters.

### show cpu threshold

To display the CPU usage information when the configured rising threshold is reached and remains for the configured monitoring interval period, use the **show cpu threshold** command in privileged EXEC mode.

#### show cpu threshold

Syntax Description This cor	nmand has no keyword	s and no arguments.
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**Defaults** No default behavior or values.

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

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

Command History	Release	Modification	
	3.2(1)	This command was introduced.	

**Usage Guidelines** The CPU usage threshold is computed using an approximation of the load for the configured monitoring period, and then by feeding this approximation into two moving averages.

 Examples
 The following example shows how to display the CPU usage threshold:

 hostname# show cpu threshold
 CPU utilization RisingThresholdValue = 60%; RisingThresholdPeriod = 300secs

<b>Related Commands</b>	Command	Description	I
	show cpu usage	Displays the CPU usage information.	

## show crashinfo

To display the contents of the crash file stored in Flash memory, enter the **show crashinfo** command in privileged EXEC mode.

show crashinfo [save]

Syntax Description	save(Optional) Displays if the FWSM is configured to save crash information to Flash memory or not.							
Defaults	No default behavior or v	values.						
Command Modes	The following table sho	ws the modes in whic	h you can enter	the comma	and:			
		Firewall N	lode	Security (	Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•		•		
	<u></u>	<b>BA</b> 11/1 /1						
Command History	Release	Modification This command was						
Usage Guidelines	If the crash file is from a test crash (generated from the <b>crashinfo test</b> command), the first string of the crash file is ": <b>saved_Test_Crash</b> " and the last string is ": <b>End_Test_Crash</b> ". If the crash file is from a real crash, the first string of the crash file is ": <b>saved_Crash</b> " and the last string is ": <b>End_Crash</b> ". (This includes crashes from use of the <b>crashinfo force page-fault</b> or <b>crashinfo force watchdog</b> commands).							
	If there is no crash data <b>crashinfo</b> command, the					g the <b>clear</b>		
Examples	The following example shows how to display the current crash information configuration:							
	hostname# <b>show crashinfo save</b> crashinfo save enable							
	The following example shows the output for a crash file test. (However, this test does not actually crash the FWSM. It provides a simulated example file.)							
	hostname(config)# <b>cra</b> hostname(config)# <b>exi</b> hostname# <b>show crashi</b> : Saved_Test_Crash	t						
	Thread Name: ci/conso	le (Old pc 0x001a6	ff5 ebp 0x00e8	8920)				

Traceback: 0: 00323143 1: 0032321b 2: 0010885c 3: 0010763c 4: 001078db 5: 00103585 6: 00000000 vector 0x000000ff (user defined) edi 0x004f20c4 esi 0x0000000 ebp 0x00e88c20 esp 0x00e88bd8 ebx 0x0000001 edx 0x0000074 ecx 0x00322f8b eax 0x00322f8b error code n/a eip 0x0010318c cs 0x0000008 eflags 0x00000000 CR2 0x0000000 Stack dump: base:0x00e8511c size:16384, active:1476 0x00e89118: 0x004f1bb4 0x00e89114: 0x001078b4 0x00e89110-0x00e8910c: 0x0000000 0x00e89108-0x00e890ec: 0x12345678 0x00e890e8: 0x004f1bb4 0x00e890e4: 0x00103585 0x00e890e0: 0x00e8910c 0x00e890dc-0x00e890cc: 0x12345678 0x00e890c8: 0x00000000 0x00e890c4-0x00e890bc: 0x12345678 0x00e890b8: 0x004f1bb4 0x00e890b4: 0x001078db 0x00e890b0: 0x00e890e0 0x00e890ac-0x00e890a8: 0x12345678 0x00e890a4: 0x001179b3 0x00e890a0: 0x00e890b0 0x00e8909c-0x00e89064: 0x12345678 0x00e89060: 0x12345600 0x00e8905c: 0x20232970 0x00e89058: 0x616d2d65 0x00e89054: 0x74002023 0x00e89050: 0x29676966 0x00e8904c: 0x6e6f6328 0x00e89048: 0x31636573 0x00e89044: 0x7069636f 0x00e89040: 0x64786970 0x00e8903c-0x00e88e50: 0x0000000 0x00e88e4c: 0x000a7473 0x00e88e48: 0x6574206f 0x00e88e44: 0x666e6968 0x00e88e40: 0x73617263 0x00e88e3c-0x00e88e38: 0x0000000 0x00e88e34: 0x12345600 0x00e88e30-0x00e88dfc: 0x0000000 0x00e88df8: 0x00316761 0x00e88df4: 0x74706100 0x00e88df0: 0x12345600 0x00e88dec-0x00e88ddc: 0x0000000 0x00e88dd8: 0x0000070 0x00e88dd4: 0x616d2d65

0x00e88dd0: 0x00e88dcc:	0x74756f00 0x00000000	
0x00e88dc8:	0x00e88e40	
0x00e88dc4:	0x004f20c4	
0x00e88dc0:	0x12345600	
0x00e88dbc:	0x00000000	
0x00e88db8:	0x0000035	
0x00e88db4:	0x315f656c	
0x00e88db0:	0x62616e65	
0x00e88dac:	0x0030fcf0	
0x00e88da8:	0x3011111f	
0x00e88da4:	0x004df43c	
0x00e88da0:	0x0053fef0	
0x00e88d9c:	0x004f1bb4	
0x00e88d98:	0x12345600	
0x00e88d94:	0x0000000	
0x00e88d90: 0x00e88d8c:	0x0000035	
0x00e88d88:	0x315f656c 0x62616e65	
0x00e88d84:	0x02010e05	
0x00e88d80:	0x004f20c4	
0x00e88d7c:	0x00000001	
0x00e88d78:	0x01345678	
0x00e88d74:	0x00f53854	
0x00e88d70:	0x00f7f754	
0x00e88d6c:	0x00e88db0	
0x00e88d68:	0x00e88d7b	
0x00e88d64:	0x00f53874	
0x00e88d60:	0x00e89040	
0x00e88d5c-0		0x12345678
0x00e88d50-0 0x00e88d48:	0x004f1bb4	0x00000000
0x00e88d44:	0x00411DD4 0x00e88d7c	
0x00e88d40:	0x00e88e40	
0x00e88d3c:	0x00f53874	
0x00e88d38:	0x004f1bb4	
0x00e88d34:	0x0010763c	
0x00e88d30:	0x00e890b0	
0x00e88d2c:	0x00e88db0	
0x00e88d28:	0x00e88d88	
0x00e88d24:	0x0010761a	
0x00e88d20:	0x00e890b0 0x00e88e40	
0x00e88d1c: 0x00e88d18:	0x00e88e40 0x00f53874	
0x00e88d18:	0x0010166d	
0x00e88d10:	0x00000000	
0x00e88d0c:	0x00f53874	
0x00e88d08:	0x00f53854	
0x00e88d04:	0x0048b301	
0x00e88d00:	0x00e88d30	
0x00e88cfc:	0x000000e	
0x00e88cf8:	0x00f53854	
0x00e88cf4:	0x0048a401	
0x00e88cf0:	0x00f53854	
0x00e88cec: 0x00e88ce8:	0x00f53874 0x0000000e	
0x00e88ce4:	0x000000000000000000000000000000000000	
0x00e88ce0:	0x0000000e	
0x00e88cdc:		
0 00 00 10	0x00f53874	
0x00e88cd8:	0x00f53874 0x00f7f96c	
0x00e88cd4:	0x00f7f96c 0x0048b4f8	
0x00e88cd4: 0x00e88cd0:	0x00f7f96c 0x0048b4f8 0x00e88d00	
0x00e88cd4:	0x00f7f96c 0x0048b4f8	

0x00e88cc4-0x00e88cc0: 0x0000000e 0x00e88cbc: 0x00e89040 0x00e88cb8: 0x0000000 0x00e88cb4: 0x00f5387e 0x00e88cb0: 0x00f53874 0x00e88cac: 0x0000002 0x00e88ca8: 0x0000001 0x00e88ca4: 0x0000009 0x00e88ca0-0x00e88c9c: 0x0000001 0x00e88c98: 0x00e88cb0 0x00e88c94: 0x004f20c4 0x00e88c90: 0x000003a 0x00e88c8c: 0x0000000 0x00e88c88: 0x000000a 0x00e88c84: 0x00489f3a 0x00e88c80: 0x00e88d88 0x00e88c7c: 0x00e88e40 0x00e88c78: 0x00e88d7c 0x00e88c74: 0x001087ed 0x00e88c70: 0x0000001 0x00e88c6c: 0x00e88cb0 0x00e88c68: 0x0000002 0x00e88c64: 0x0010885c 0x00e88c60: 0x00e88d30 0x00e88c5c: 0x00727334 0x00e88c58: 0xa0fffff 0x00e88c54: 0x00e88cb0 0x00e88c50: 0x0000001 0x00e88c4c: 0x00e88cb0 0x00e88c48: 0x0000002 0x00e88c44: 0x0032321b 0x00e88c40: 0x00e88c60 0x00e88c3c: 0x00e88c7f 0x00e88c38: 0x00e88c5c 0x00e88c34: 0x004b1ad5 0x00e88c30: 0x00e88c60 0x00e88c2c: 0x00e88e40 0x00e88c28: 0xa0fffff 0x00e88c24: 0x00323143 0x00e88c20: 0x00e88c40 0x00e88c1c: 0x0000000 0x00e88c18: 0x0000008 0x00e88c14: 0x0010318c 0x00e88c10-0x00e88c0c: 0x00322f8b 0x00e88c08: 0x0000074 0x00e88c04: 0x0000001 0x00e88c00: 0x00e88bd8 0x00e88bfc: 0x00e88c20 0x00e88bf8: 0x0000000 0x00e88bf4: 0x004f20c4 0x00e88bf0: 0x00000ff 0x00e88bec: 0x00322f87 0x00e88be8: 0x00f5387e 0x00e88be4: 0x00323021 0x00e88be0: 0x00e88c10 0x00e88bdc: 0x004f20c4 0x00e88bd8: 0x00000000 \* 0x00e88bd4: 0x004eabb0 0x00e88bd0: 0x0000001 0x00e88bcc: 0x00f5387e 0x00e88bc8-0x00e88bc4: 0x0000000 0x00e88bc0: 0x0000008 0x00e88bbc: 0x0010318c 0x00e88bb8-0x00e88bb4: 0x00322f8b

```
0x00e88bb0: 0x0000074
0x00e88bac: 0x0000001
0x00e88ba8: 0x00e88bd8
0x00e88ba4: 0x00e88c20
0x00e88ba0: 0x0000000
0x00e88b9c: 0x004f20c4
0x00e88b98: 0x00000ff
0x00e88b94: 0x001031f2
0x00e88b90: 0x00e88c20
0x00e88b8c: 0xfffffff
0x00e88b88: 0x00e88cb0
0x00e88b84: 0x00320032
0x00e88b80: 0x37303133
0x00e88b7c: 0x312f6574
0x00e88b78: 0x6972772f
0x00e88b74: 0x342f7665
0x00e88b70: 0x64736666
0x00e88b6c: 0x00020000
0x00e88b68: 0x0000010
0x00e88b64: 0x0000001
0x00e88b60: 0x123456cd
0x00e88b5c: 0x0000000
0x00e88b58: 0x0000008
Cisco XXX Firewall Version X.X
Cisco XXX Device Manager Version X.X
Compiled on Fri 15-Nov-04 14:35 by root
hostname up 10 days 0 hours
Hardware:
           XXX-XXX, 64 MB RAM, CPU Pentium 200 MHz
Flash i28F640J5 @ 0x300, 16MB
BIOS Flash AT29C257 @ 0xfffd8000, 32KB
0: ethernet0: address is 0003.e300.73fd, irq 10
1: ethernet1: address is 0003.e300.73fe, irg 7
2: ethernet2: address is 00d0.b7c8.139e, irg 9
Licensed Features:
Failover:
                   Disabled
VPN-DES:
                  Enabled
VPN-3DES-AES:
                  Disabled
Maximum Interfaces: 3
Cut-through Proxy: Enabled
                   Enabled
Guards:
URL-filtering:
                   Enabled
Inside Hosts:
                   Unlimited
Throughput:
                   Unlimited
IKE peers:
                   Unlimited
This XXX has a Restricted (R) license.
Serial Number: 480430455 (0x1ca2c977)
Running Activation Key: 0xc2e94182 0xc21d8206 0x15353200 0x633f6734
Configuration last modified by enable_15 at 13:49:42.148 UTC Wed Nov 20 2004
 ----- show clock -----
15:34:28.129 UTC Sun Nov 24 2004
----- show memory -----
Free memory:
                   50444824 bytes
Used memory:
                   16664040 bytes
```

Catalyst 6500 Series and Cisco 7600 Series Switch Firewall Services Module Command Reference, 4.0

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Total memory: 67108864 bytes ----- show conn count -----0 in use, 0 most used ----- show xlate count ------0 in use, 0 most used ----- show blocks -----STZE MAX LOW CNT 4 1600 1600 1600 400 400 80 400 256 500 499 500 1550 1188 795 927 ----- show interface ----interface ethernet0 "outside" is up, line protocol is up Hardware is i82559 ethernet, address is 0003.e300.73fd IP address 172.23.59.232, subnet mask 255.255.0.0 MTU 1500 bytes, BW 10000 Kbit half duplex 6139 packets input, 830375 bytes, 0 no buffer Received 5990 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 90 packets output, 6160 bytes, 0 underruns 0 output errors, 13 collisions, 0 interface resets 0 babbles, 0 late collisions, 47 deferred 0 lost carrier, 0 no carrier input queue (curr/max blocks): hardware (5/128) software (0/2) output queue (curr/max blocks): hardware (0/1) software (0/1) interface ethernet1 "inside" is up, line protocol is down Hardware is i82559 ethernet, address is 0003.e300.73fe IP address 10.1.1.1, subnet mask 255.255.255.0 MTU 1500 bytes, BW 10000 Kbit half duplex 0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 1 packets output, 60 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 babbles, 0 late collisions, 0 deferred 1 lost carrier, 0 no carrier input queue (curr/max blocks): hardware (128/128) software (0/0) output queue (curr/max blocks): hardware (0/1) software (0/1) interface ethernet2 "intf2" is administratively down, line protocol is down Hardware is i82559 ethernet, address is 00d0.b7c8.139e IP address 127.0.0.1, subnet mask 255.255.255.255 MTU 1500 bytes, BW 10000 Kbit half duplex 0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 0 packets output, 0 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 babbles, 0 late collisions, 0 deferred 0 lost carrier, 0 no carrier input queue (curr/max blocks): hardware (128/128) software (0/0) output queue (curr/max blocks): hardware (0/0) software (0/0) ----- show cpu usage ------CPU utilization for 5 seconds = 0%; 1 minute: 0%; 5 minutes: 0%

----- show process -----

SBASE PC SP STATE Runtime Stack Process Hsi 001e3329 00763e7c 0053e5c8 0 00762ef4 3784/4096 arp\_timer 0 008060fc 3792/4096 FragDBGC Lsi 001e80e9 00807074 0053e5c8 
 Lwe
 00117e3a
 009dc2e4
 00541d18
 0
 009db46c
 3704/4096
 dbgtrace

 Lwe
 003cee95
 009de464
 00537718
 0
 009dc51c
 8000 (8100 trace)

 Lwe 0011/e3a 009d224 00541d18
 0 009d246 3/04/4096 dbgtrace

 Lwe 003cee95 009de464 00537718
 0 009dc51c 8008/8192 Logger

 Hwe 003d2d18 009e155c 005379c8
 0 009df5e4 8008/8192 tcp\_fast

 Hwe 003d2c91 009e360c 005379c8
 0 009e1694 8008/8192 tcp\_slow

 Lsi 002ec97d 00b1a464 0053e5c8
 0 00b194dc 3928/4096 xlate clean

 Lsi 002ec88b 00b1b504 0053e5c8
 0 00b1a58c 3888/4096 uxlate clean

 Mrd 002e3a17 00c8f8d4 0053e5c8
 0 00c8d93c 7908/8192 tcp\_intercept\_times

 Lsi 00423d5 00d3a22c 0053e5c8
 0 00d392a4 3900/4096 route\_process

 Hsi 002d59fc 00d3b2bc 0053e5c8
 0 00d382a4 3780/4096 PIX Garbage Collecr

 0 00d55614 16048/16384 isakmp\_time\_keepr Hwe 0020e301 00d5957c 0053e5c8 Lsi 002d377c 00d7292c 0053e5c8 0 00d719a4 3928/4096 perfmon Hwe 0020bd07 00d9c12c 0050bb90 0 00d9b1c4 3944/4096 IPSec 0 00d9c274 7860/8192 IPsec timer handler Mwe 00205e25 00d9e1ec 0053e5c8 0 00db0764 6904/8192 qos\_metric\_daemon Hwe 003864e3 00db26bc 00557920 0 00dc8adc 1436/2048 IP Background Mwe 00255a65 00dc9244 0053e5c8 Lwe 002e450e 00e7bb94 00552c30 0 00e7ad1c 3704/4096 pix/trace Lwe 002e471e 00e7cc44 00553368 0 00e7bdcc 3704/4096 pix/tconsole 0 00e7ce9c 7228/8192 pix/intf0 Hwe 001e5368 00e7ed44 00730674 
 Inve Oulesson UUE8Uel4 007305d4
 0 00e7ef6c 7228/8192 pix/intfl

 Hwe 001e5368 00e82ee4 00730534
 2470 00e8103c 4892/8192 pix/intfl

 H\* 001a6ff5 0009ff2c 0053e5b0
 4820 00e8511c 12860/16384 ci/conse

 Csi 002dd8ab 00e8a124 0053e5c8
 0 00e891cc 3396/4096 update\_cpu

 Hwe 002cb4d1 00f2cbfbc 0051e360
 0 00f2a134 7692/8192 uauth in
 4820 00e8511c 12860/16384 ci/console 0 00e891cc 3396/4096 update\_cpu\_usage Hwe 003d17d1 00f2e0bc 00828cf0 0 00f2c1e4 7896/8192 uauth\_thread Hwe 003e71d4 00f2f20c 00537d20 0 00f2e294 3960/4096 udp timer Hsi 001db3ca 00f30fc4 0053e5c8 0 00f3004c 3784/4096 557mcfix Crd 001db37f 00f32084 0053ea40 508286220 00f310fc 3688/4096 557poll Lsi 001db435 00f33124 0053e5c8 0 00f321ac 3700/4096 557timer Hwe 001e5398 00f441dc 008121e0 0 00f43294 3912/4096 fover\_ip0 120 00f44344 3528/4096 ip/0:0 Cwe 001dcdad 00f4523c 00872b48 10 00f453f4 3532/4096 icmp0 Hwe 001e5398 00f4633c 008121bc Hwe 001e5398 00f47404 00812198 0 00f464cc 3896/4096 udp\_thread/0 0 00f475a4 3456/4096 tcp\_thread/0 Hwe 001e5398 00f4849c 00812174 Hwe 001e5398 00f495bc 00812150 0 00f48674 3912/4096 fover\_ip1 0 00f49724 3832/4096 ip/1:1 Cwe 001dcdad 00f4a61c 008ea850 0 00f4a7d4 3912/4096 icmp1 0 00f4b8ac 3896/4096 udp\_thread/1 0 00f4c984 3832/4096 tcp\_thread/1 0 00f4da54 3912/4096 fover\_ip2 0 00f4eb04 3944/4096 ip/2:2 Hwe 001e5398 00f4b71c 0081212c Hwe 001e5398 00f4c7e4 00812108 Hwe 001e5398 00f4d87c 008120e4 Hwe 001e5398 00f4e99c 008120c0 Cwe 001e542d 00f4fa6c 00730534 0 00f4eb04 3944/4096 ip/2:2 0 00f4fbb4 3912/4096 icmp2 Hwe 001e5398 00f50afc 0081209c 0 00f50c8c 3896/4096 udp\_thread/2 Hwe 001e5398 00f51bc4 00812078 Hwe 001e5398 00f52c5c 00812054 0 00f51d64 3832/4096 tcp\_thread/2 Hwe 003d1a65 00f78284 008140f8 0 00f77fdc 300/1024 listen/http1 Mwe 0035cafa 00f7a63c 0053e5c8 0 00f786c4 7640/8192 Crypto CA ----- show failover -----No license for Failover ----- show traffic ----outside:

received (in 865565.090 secs): 6139 packets 830375 bytes 0 pkts/sec 0 bytes/sec transmitted (in 865565.090 secs):

		90 packets	6160 bytes
		0 pkts/sec	0 bytes/sec
inside		-	-
	received	(in 865565.090	secs):
		0 packets	0 bytes
		0 pkts/sec	0 bytes/sec
		ted (in 865565.0	-
		1 packets	,
		0 pkts/sec	-
intf2:		e pres, see	0 2,000,000
1		(in 865565.090	secs).
		0 packets	
		0 pkts/sec	-
		ted (in 865565.0	-
			,
		0 packets	-
		0 pkts/sec	0 bytes/sec
		show perfmon	
PERFMC	N STATS:	Current A	Average
Xlates	5	0/s	0/s
Connec	tions	0/s	0/s
TCP Cc	onns	0/s	0/s
UDP Cc	onns	0/s	0/s
URL Ac	cess	0/s	0/s
URL Se	erver Req	0/s	0/s
	- 	0/9	0/5

URL Access	0/s	0/s
URL Server Req	0/s	0/s
TCP Fixup	0/s	0/s
TCPIntercept	0/s	0/s
HTTP Fixup	0/s	0/s
FTP Fixup	0/s	0/s
AAA Authen	0/s	0/s
AAA Author	0/s	0/s
AAA Account	0/s	0/s
: End_Test_Crash		

#### **Related Commands**

Command	Description
clear crashinfo	Deletes the contents of the crash file.
crashinfo force	Forces a crash of the FWSM.
crashinfo save disable	Disables crash information from writing to Flash memory.
crashinfo test	Tests the ability of the FWSM to save crash information to a file in Flash memory.

# show crypto accelerator statistics

To display the global and accelerator-specific statistics from the hardware crypto accelerator MIB, use the **show crypto accelerator statistics** command in global configuration or privileged EXEC mode.

show crypto accelerator statistics

Syntax Description This command has no keywords or variables.

**Defaults** No default behavior or values.

**Release** 3.1(1)

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

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

**Command History** 

**Modification** This command was introduced.

#### **Examples**

L

The following example entered in global configuration mode, displays global crypto accelerator statistics:

Catalyst 6500 Series and Cisco 7600 Series Switch Firewall Services Module Command Reference, 4.0

hostname # show crypto accelerator statistics

Crypto Accelerator Status

[Capacity]
Supports hardware crypto: True
Supports modular hardware crypto: False
Max accelerators: 1
Max crypto throughput: 100 Mbps
Max crypto connections: 750
[Global Statistics]
Number of active accelerators: 1
Number of non-operational accelerators: 0
Input packets: 700
Input bytes: 753488
Output packets: 700
Output error packets: 0
Output bytes: 767496
[Accelerator 0]
Status: Active
Software crypto engine
Slot: 0
Active time: 167 seconds
Total crypto transforms: 7

Total dropped packets: 0 [Input statistics] Input packets: 0 Input bytes: 0 Input hashed packets: 0 Input hashed bytes: 0 Decrypted packets: 0 Decrypted bytes: 0 [Output statistics] Output packets: 0 Output bad packets: 0 Output bytes: 0 Output hashed packets: 0 Output hashed bytes: 0 Encrypted packets: 0 Encrypted bytes: 0 [Diffie-Hellman statistics] Keys generated: 0 Secret keys derived: 0 [RSA statistics] Keys generated: 0 Signatures: 0 Verifications: 0 Encrypted packets: 0 Encrypted bytes: 0 Decrypted packets: 0 Decrypted bytes: 0 [DSA statistics] Keys generated: 0 Signatures: 0 Verifications: 0 [SSL statistics] Outbound records: 0 Inbound records: 0 [RNG statistics] Random number requests: 98 Random number request failures: 0 [Accelerator 1] Status: Active Encryption hardware device : Cisco ASA-55x0 on-board accelerator (revision 0x0) : CNlite-MC-Boot-Cisco-1.2 Boot microcode SSL/IKE microcode: CNlite-MC-IPSEC-Admin-3.03 IPSec microcode : CNlite-MC-IPSECm-MAIN-2.03 Slot: 1 Active time: 170 seconds Total crypto transforms: 1534 Total dropped packets: 0 [Input statistics] Input packets: 700 Input bytes: 753544 Input hashed packets: 700 Input hashed bytes: 736400 Decrypted packets: 700 Decrypted bytes: 719944 [Output statistics] Output packets: 700 Output bad packets: 0 Output bytes: 767552 Output hashed packets: 700 Output hashed bytes: 744800 Encrypted packets: 700 Encrypted bytes: 728352 [Diffie-Hellman statistics]

```
Keys generated: 97
      Secret keys derived: 1
   [RSA statistics]
      Keys generated: 0
      Signatures: 0
      Verifications: 0
      Encrypted packets: 0
      Encrypted bytes: 0
      Decrypted packets: 0
      Decrypted bytes: 0
   [DSA statistics]
      Keys generated: 0
      Signatures: 0
      Verifications: 0
   [SSL statistics]
      Outbound records: 0
      Inbound records: 0
   [RNG statistics]
      Random number requests: 1
      Random number request failures: 0
hostname #
```

l Commands	Command	Description
	clear crypto accelerator statistics	Clears the global and accelerator-specific statistics in the crypto accelerator MIB.
	clear crypto protocol statistics	Clears the protocol-specific statistics in the crypto accelerator MIB.
	show crypto protocol statistics	Displays the protocol-specific statistics from the crypto accelerator MIB.

Related

# show crypto ca certificates

To display the certificates associated with a specific trustpoint or to display all the certificates installed on the system, use the **show crypto ca certificates** command in privileged EXEC mode.

show crypto ca certificates [trustpointname]

yntax Description	trustpointname			es the name of a t lays all certifica				
efaults	No default behavior	or values.						
Command Modes	The following table	shows the n	nodes in whic	ch you can enter	the comma	nd:		
			<b>Firewall</b> N	lode	Security C	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Privileged EXEC		•	•	•	•		
					1			
ommand History	Release	Release Modification						
	3.1(1) This command was introduced.							
xamples	3.1(1) The following example and the following examples the followin		command was		, displays a	CA certificate	e for a trustp	
xamples	The following example named tp1:	ple entered	command was in global con	figuration mode,	, displays a	CA certificate	e for a trustp	
Examples	The following exam	ple entered	command was in global con	figuration mode,	, displays a	CA certificate	e for a trustp	
xamples	The following examp named tp1: hostname# <b>show cry</b> CA Certificate Status: Availa	ple entered pto ca cer ble	command was in global con rtificates tr	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# <b>show cry</b> CA Certificate Status: Availa Certificate Se	ple entered pto ca cer ble rial Numbe	in global con tificates tr	figuration mode, p1		CA certificate	e for a trustp	
- xamples	The following examp named tp1: hostname# <b>show cry</b> CA Certificate Status: Availa	ple entered pto ca cer ble rial Numbe	in global con tificates tr	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo	ple entered pto ca cer ble brial Numbe age: Signa ot-sha-06-2	in global con tificates tr r 2957A3FF29 ture	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootoo	ple entered pto ca cer ble brial Numbe age: Signa ot-sha-06-2	in global con tificates tr r 2957A3FF29 ture	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo	ple entered pto ca cer ble ble age: Signa ot-sha-06-2 u	in global con tificates tr r 2957A3FF29 ture	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootoo OU = rootoo C = cisco L = frankl: ST - massac	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in	in global con tificates tr r 2957A3FF29 ture	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootoo OU = rootoo OU = rootoo C = cisco L = frankl: ST - massac C = US	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts	in global con tificates tr r 2957A3FF29 ture	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootoo OU = rootoo OU = rootoo C = cisco L = frankl: ST - massac C = US EA = a@b.co	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts	in global con tificates tr r 2957A3FF29 ture	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootoo OU = rootoo OU = rootoo C = cisco L = frankl: ST - massac C = US	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts on	in global con tificates tr r 2957A3FF29 ture 2004	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootoo O = cisco L = frankl: ST - massac C = US EA = a@b.co Subject: CN = ms-roo OU = rootoo	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts on ot-sha-06-2	in global con tificates tr r 2957A3FF29 ture 2004	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootor O = cisco L = frankl: ST - massac C = US EA = a@b.co Subject: CN = ms-roo OU = rootor OU = rootor OU = rootor OU = rootor OU = rootor	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts on ot-sha-06-2 u	in global con tificates tr r 2957A3FF29 ture 2004	figuration mode, p1		CA certificate	e for a trustp	
ixamples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootor O = cisco L = frankl: ST - massac C = US EA = a@b.co Subject: CN = ms-roo OU = rootor O = cisco L = frankl:	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts on ot-sha-06-2 u in	in global con tificates tr r 2957A3FF29 ture 2004	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootor O = cisco L = frankl: ST - massac C = US EA = a@b.co Subject: CN = ms-roo OU = rootor OU = rootor OU = rootor OU = rootor OU = rootor	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts on ot-sha-06-2 u in	in global con tificates tr r 2957A3FF29 ture 2004	figuration mode, p1		CA certificate	e for a trustp	
Examples	The following examp named tp1: hostname# show cry CA Certificate Status: Availa Certificate Se Certificate Us Issuer: CN = ms-roo OU = rootor O = cisco L = frankl: ST - massac C = US EA = a@b.co Subject: CN = ms-roo OU = rootor O = cisco L = frankl: ST = massac	ple entered pto ca cer ble rial Numbe age: Signa ot-sha-06-2 u in chusetts on ot-sha-06-2 u in chusetts	in global con tificates tr r 2957A3FF29 ture 2004	figuration mode, p1		CA certificate	e for a trustp	

```
ldap://w2kadvancedsrv/CertEnroll/ms-root-sha-06-2004.crl
Validity Date:
    start date: 14:11:40 UTC Jun 26 2004
    end date: 14:01:30 UTC Jun 4 2022
Associated Trustpoints: tp2 tp1
hostname#
```

#### **Related Commands**

Command	Description
crypto ca authenticate	Obtains a CA certificate for a specified trustpoint.
crypto ca crl request	Requests a CRL based on the configuration parameters of a specified trustpoint.
crypto ca enroll Initiates the enrollment process with a CA.	
crypto ca import	Imports a certificate to a specified trustpoint.
crypto ca trustpoint	Enters trustpoint mode for a specified trustpoint.

### show crypto ca crls

To display all cached CRLs or to display all CRLs cached for a specified trustpoint, use the **show crypto ca crls** command in privileged EXEC mode.

show crypto ca crls [trustpointname]

Syntax Description	<i>trustpointname</i> (Optional) Specifies the name of a trustpoint. If you do not specify a name, this command displays all CRLs cached on the system.										
Defaults	No default behavior or	values.									
Command Modes	The following table sho	ows the modes in whic	ch you can enter	the comma	nd:						
		Firewall N	lode	Security (	ontext						
					Multiple						
	Command Mode	Routed	Transparent	Single	Context	System					
	Privileged EXEC	•	•	•	•	_					
Command History	Release Modification										
Examples	The following example	-	iguration mode,	displays a (	CRL for a trust	point named tp1					
	hostname# <b>show crypto ca crls tp1</b> CRL Issuer Name:										
	<pre>cn=ms-sub1-ca-5-2004,ou=Franklin DevTest,o=Cisco Systems,l=Franklin,st=MA,c=US,ea=user@cisco.com LastUpdate: 19:45:53 UTC Dec 24 2004 NextUpdate: 08:05:53 UTC Jan 1 2005 Retrieved from CRL Distribution Point: http://win2k-ad2.frk-ms-pki.cisco.com/CertEnroll/ms-sub1-ca-5-2004.crl Associated Trustpoints: tp1</pre>										
Related Commands	Command	Description									
	crypto ca authenticat		A certificate for	a specified	trustpoint.						
	crypto ca crl request		CRL based on the	-	-	s of a specified					
	crypto ca enroll		enrollment proc	ess with a (	CA.						
	crypto ca import	Imports a ce	rtificate to a spe	cified trust	Imports a certificate to a specified trustpoint.						
	<b>crypto ca trustpoint</b> Enters trustpoint mode for a specified trustpoint.										

# show crypto ipsec df-bit

To display the IPSec DF-bit policy for IPSec packets for a specified interface, use the **show crypto ipsec df-bit** command in global configuration mode and privileged EXEC mode.

show crypto ipsec df-bit interface

Syntax Description	interface	<i>interface</i> Specifies an interface name.						
	tokenIndicates a token-based server for user authentication is used.							
Defaults	No default behavi	ors or values.						
Command Modes	The following table shows the modes in which you can enter the command:							
		F	irewall N	lode	Security C	ontext Multiple		
	Command Mode	R	outed	Transparent	Single	Context	System	
	Global configurat	tion	•	•	•			
	Privileged EXEC		•	•	•		_	
<u> </u>								
ommand History	Release Modification							
	1.1(1)   This command was introduced.							
	3.1(1)       This command was changed from show crypto ipsec.							
xamples	The following exa	ample displays the	IPSec D	F-bit policy for i	nterface na	med inside:		
	hostname(config) df-bit inside co hostname(config)		osec df-	bit inside				
Related Commands	Command		D	escription				
	crypto ipsec df-b	it	0	Configures the IPSec DF-bit policy for IPSec packets.				
	crypto ipsec frag	gmentation	C	onfigures the fra	gmentation	n policy for IPS	Sec packets.	
	show crypto ipsec fragmentation Displays the fragmentation policy for IPSec packets				1 .			

### show crypto ipsec fragmentation

To display the fragmentation policy for IPSec packets, use the **show crypto ipsec fragmentation** command in global configuration or privileged EXEC modes.

show crypto ipsec fragmentation interface

Syntax Description	interface	Specifies an interface name.
	token	Indicates a token-based server for user authentication is used.

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

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

# Release Modification 1.1(1) This command was introduced. 3.1(1) This command was changed from show crypto ipsec.

#### Examples

The following example, entered in global configuration mode, displays the IPSec fragmentation policy for an interface named inside:

hostname(config)# show crypto ipsec fragmentation inside
fragmentation inside before-encryption
hostname(config)#

<b>Related Commands</b>	Command	Description
	crypto ipsec fragmentation	Configures the fragmentation policy for IPSec packets.
	crypto ipsec df-bit	Configures the DF-bit policy for IPSec packets.
	show crypto ipsec df-bit	Displays the DF-bit policy for a specified interface.

# show crypto key mypubkey

To display key pairs of the indicated type, use the **show crypto key mypubkey** command in privileged EXEC mode.

show crypto key mypubkey {rsa | dsa}

Syntax Description	dsa Displays DSA key pairs.							
	rsa Displays RSA key pairs.							
Defaults	No default behavior or values							
Command Modes	The following table shows the	e modes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security C	Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	•			
Command History	Release Modification							
	3.1(1) Thi	s command was	s introduced.					
Examples	The following example entere hostname(config)# <b>show cry</b>	-	-	, displays R	SA key pairs:			
Related Commands	Command	Description						
	crypto key generate dsa	Generates D	SA key pairs.					
	crypto key generate rsa	Generates R	SA key pairs.					
	crypto key zeroize	ypto key zeroize Removes all key pairs of the indicated type.						

# show crypto protocol statistics

To display the protocol-specific statistics in the crypto accelerator MIB, use the **show crypto protocol statistics** command in global configuration or privileged EXEC mode.

show crypto protocol statistics protocol

Syntax Description	protocol	Specifies the name of the protocol for which to display statistics. Protocol choices are as follows:								
		<b>ikev1</b> —Internet Key Exchange version 1. <b>ipsec</b> —IP Security Phase-2 protocols.								
		ssl—Secure Socket Layer.								
		other—Reserved for	or new protocol	s.						
		all—All protocols of	currently support	rted.						
Defaults	No default behavior	or values.								
Command Modes	The following table	shows the modes in which	•	the comma						
		Firewall Mode		Security	Multiple					
	Command Mode	Routed	Transparent	Single	Context	System				
	Global configuration	n •	•	•		_				
	Privileged EXEC	•	•	•						
Command History	Release Modification									
	3.1(1)	This command was	introduced.							
Examples	The following examp specified protocols:	ples entered in global con	figuration mode	e, display c	rypto accelera	tor statistics f				
	[IKEv1 statistics] Encrypt packet Encapsulate pac Decrypt packet Decapsulate pac HMAC calculatio SA creation req SA rekey reques SA deletion rea Next phase key	ket requests: 39 requests: 35 ket requests: 35 n requests: 84 uests: 1 ts: 3								

```
hostname # show crypto protocol statistics ipsec
[IPsec statistics]
   Encrypt packet requests: 700
   Encapsulate packet requests: 700
   Decrypt packet requests: 700
   Decapsulate packet requests: 700
   HMAC calculation requests: 1400
   SA creation requests: 2
   SA rekey requests: 0
   SA deletion requests: 0
   Next phase key allocation requests: 0
   Random number generation requests: 0
   Failed requests: 0
hostname # show crypto protocol statistics ssl
[SSL statistics]
   Encrypt packet requests: 0
   Encapsulate packet requests: 0
   Decrypt packet requests: 0
   Decapsulate packet requests: 0
   HMAC calculation requests: 0
   SA creation requests: 0
   SA rekey requests: 0
   SA deletion requests: 0
   Next phase key allocation requests: 0
   Random number generation requests: 0
   Failed requests: 0
hostname # show crypto protocol statistics other
[Other statistics]
   Encrypt packet requests: 0
   Encapsulate packet requests: 0
   Decrypt packet requests: 0
   Decapsulate packet requests: 0
   HMAC calculation requests: 0
   SA creation requests: 0
   SA rekey requests: 0
   SA deletion requests: 0
   Next phase key allocation requests: 0
   Random number generation requests: 99
   Failed requests: 0
hostname # show crypto protocol statistics all
[IKEv1 statistics]
   Encrypt packet requests: 46
   Encapsulate packet requests: 46
   Decrypt packet requests: 40
   Decapsulate packet requests: 40
   HMAC calculation requests: 91
   SA creation requests: 1
   SA rekey requests: 3
   SA deletion requests: 3
   Next phase key allocation requests: 2
   Random number generation requests: 0
   Failed requests: 0
[IKEv2 statistics]
   Encrypt packet requests: 0
   Encapsulate packet requests: 0
   Decrypt packet requests: 0
   Decapsulate packet requests: 0
   HMAC calculation requests: 0
   SA creation requests: 0
   SA rekey requests: 0
   SA deletion requests: 0
```

Nort share has allegation memory of
Next phase key allocation requests: 0
Random number generation requests: 0
Failed requests: 0
[IPsec statistics]
Encrypt packet requests: 700
Encapsulate packet requests: 700
Decrypt packet requests: 700
Decapsulate packet requests: 700
HMAC calculation requests: 1400
SA creation requests: 2
SA rekey requests: 0
SA deletion requests: 0
Next phase key allocation requests: 0
Random number generation requests: 0
Failed requests: 0
[SSL statistics]
Encrypt packet requests: 0
Encapsulate packet requests: 0
Decrypt packet requests: 0
Decapsulate packet requests: 0
HMAC calculation requests: 0
SA creation requests: 0
SA rekey requests: 0
SA deletion requests: 0
Next phase key allocation requests: 0
Random number generation requests: 0
Failed requests: 0
[SSH statistics are not supported]
[SRTP statistics are not supported]
[Other statistics]
Encrypt packet requests: 0
Encapsulate packet requests: 0
Decrypt packet requests: 0
Decapsulate packet requests: 0
HMAC calculation requests: 0
SA creation requests: 0
SA rekey requests: 0
SA deletion requests: 0
Next phase key allocation requests: 0
Random number generation requests: 99
Failed requests: 0
hostname #

<b>Related Commands</b>	Command	Description
	clear crypto accelerator statistics	Clears the global and accelerator-specific statistics in the crypto accelerator MIB.
	clear crypto protocol statistics	Clears the protocol-specific statistics in the crypto accelerator MIB.
	show crypto accelerator statistics	Displays the global and accelerator-specific statistics from the crypto accelerator MIB.

### show ctiqbe

To display information about CTIQBE sessions established across the FWSM, use the **show ctiqbe** command in privileged EXEC mode.

show ctiqbe

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	
Privileged EXEC	•	•	•	•	•	

Command History	Release	Modification
	3.1(1)	This command was introduced.

**Usage Guidelines** 

The **show ctiqbe** command displays information of CTIQBE sessions established across the FWSM. Along with **debug ctiqbe** and **show local-host**, this command is used for troubleshooting CTIQBE inspection engine issues.

```
Note
```

We recommend that you have the **pager** command configured before using the **show ctiqbe** command. If there are a lot of CTIQBE sessions and the **pager** command is not configured, it can take a while for the **show ctiqbe** command output to reach the end.

**Examples** 

The following is sample output from the **show ctiqbe** command under the following conditions. There is only one active CTIQBE session setup across the FWSM. It is established between an internal CTI device (for example, a Cisco IP SoftPhone) at local address 10.0.0.99 and an external Cisco CallManager at 172.29.1.77, where TCP port 2748 is the Cisco CallManager. The heartbeat interval for the session is 120 seconds.

hostname# show ctiqbe

```
Total: 1
LOCAL FOREIGN STATE HEARTBEAT
1 10.0.0.99/1117 172.29.1.77/2748 1 120
RTP/RTCP: PAT xlates: mapped to 172.29.1.99(1028 1029)
```

L

MEDIA: Device ID 27 Call ID 0 Foreign 172.29.1.99 (1028 1029) Local 172.29.1.88 (26822 26823)

The CTI device has already registered with the CallManager. The device internal address and RTP listening port is PATed to 172.29.1.99 UDP port 1028. Its RTCP listening port is PATed to UDP 1029.

The line beginning with RTP/RTCP: PAT xlates: appears only if an internal CTI device has registered with an external CallManager and the CTI device address and ports are PATed to that external interface. This line does not appear if the CallManager is located on an internal interface, or if the internal CTI device address and ports are NATed to the same external interface that is used by the CallManager.

The output indicates a call has been established between this CTI device and another phone at 172.29.1.88. The RTP and RTCP listening ports of the other phone are UDP 26822 and 26823. The other phone locates on the same interface as the CallManager because the FWSM does not maintain a CTIQBE session record associated with the second phone and CallManager. The active call leg on the CTI device side can be identified with Device ID 27 and Call ID 0.

The following is the xlate information for these CTIBQE connections:

```
hostname# show xlate debug
3 in use, 3 most used
Flags: D|DNS, d|dump, I|identity, i|inside, n|no random,
| o|outside, r|portmap, s|static
TCP PAT from inside:10.0.0.99/1117 to outside:172.29.1.99/1025 flags ri idle 0:00:22
timeout 0:00:30
UDP PAT from inside:10.0.0.99/16908 to outside:172.29.1.99/1028 flags ri idle 0:00:00
timeout 0:04:10
UDP PAT from inside:10.0.0.99/16909 to outside:172.29.1.99/1029 flags ri idle 0:00:23
timeout 0:04:10
```

Related Commands	Commands	Description
	class-map	Defines the traffic class to which to apply security actions.
	inspect ctiqbe	Enables CTIQBE application inspection.
	service-policy	Applies a policy map to one or more interfaces.
	show conn	Displays the connection state for different connection types.
	timeout	Sets the maximum idle time duration for different protocols and session
		types.

### show curpriv

To display the current user privileges, use the show curpriv command:

show curpriv

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

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	•	•			•
Privileged EXEC	•	•		—	•
Unprivileged	•	•	<u> </u>		•

```
        Release
        Modification

        1.1(1)
        This command was introduced.
```

**Usage Guidelines** The show curpriv command displays the current privilege level. Lower privilege level numbers indicate lower privilege levels.

#### **Examples**

These examples show output from the **show curpriv** command when a user named enable\_15 is at different privilege levels. The username indicates the name that the user entered when the user logged in, P\_PRIV indicates that the user has entered the **enable** command, and P\_CONF indicates that the user has entered the **config terminal** command.

```
hostname(config)# show curpriv
Username : enable_15
Current privilege level : 15
Current Mode/s : P_PRIV P_CONF
hostname(config)# exit
hostname(config)# show curpriv
Username : enable_15
Current privilege level : 15
Current Mode/s : P_PRIV
hostname(config)# exit
hostname(config)# show curpriv
Username : enable_1
```

Current privilege level : 1 Current Mode/s : P\_UNPR hostname(config)#

### Related Commands Command Description

clear configure privilege	Remove privilege command statements from the configuration.			
show running-config privilege	Display privilege levels for commands.			