icmp through import webvpn webcontent Commands

icmp

To configure access rules for ICMP traffic that terminates at an ASA interface, use the **icmp** command. To remove the configuration, use the **no** form of this command.

icmp {**permit** | **deny**} *ip_address net_mask* [*icmp_type*] *if_name*

no icmp {**permit** | **deny**} *ip_address net_mask* [*icmp_type*] *if_name*

Syntax Description

deny	Deny access if the conditions are matched.
icmp_type	(Optional) ICMP message type (see Table 24-1).
if_name	The interface name.
ip_address	The IP address of the host sending ICMP messages to the interface.
net_mask	The network mask to be applied to the IP address of the host.
permit	Permit access if the conditions are matched.

Defaults

The default behavior of the ASA is to allow all ICMP traffic to the ASA interfaces.

Command Modes

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

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

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

The **icmp** command controls ICMP traffic that terminates on any ASA interface. If no ICMP control list is configured, then the ASA accepts all ICMP traffic that terminates at any interface, including the outside interface. However, by default, the ASA does not respond to ICMP echo requests directed to a broadcast address.

The ASA only responds to ICMP traffic sent to the interface that traffic comes in on; you cannot send ICMP traffic through an interface to a far interface.

The **icmp deny** command disables pinging to an interface, and the **icmp permit** command enables pinging to an interface. With pinging disabled, the ASA cannot be detected on the network. This is also referred to as configurable proxy pinging.

Use the **access-list extended** or **access-group** command for ICMP traffic that is routed through the ASA for destinations on a protected interface.

We recommend that you grant permission for the ICMP unreachable message type (type 3). Denying ICMP unreachable messages disables ICMP path MTU discovery, which can halt IPsec and PPTP traffic. See RFC 1195 and RFC 1435 for details about path MTU discovery.

If an ICMP control list is configured for an interface, then the ASA first matches the specified ICMP traffic and then applies an implicit deny for all other ICMP traffic on that interface. That is, if the first matched entry is a permit entry, the ICMP packet continues to be processed. If the first matched entry is a deny entry or an entry is not matched, the ASA discards the ICMP packet and generates a syslog message. An exception is when an ICMP control list is not configured; in that case, a permit statement is assumed.

Table 24-1 lists the supported ICMP type values.

Table 24-1 ICMP Types and Literals

ICMP Type	Literal
0	echo-reply
3	unreachable
8	echo
11	time-exceeded

Examples

The following example denies all ping requests and permits all unreachable messages at the outside interface:

```
hostname(config)# icmp permit any unreachable outside
```

Continue entering the **icmp deny any** *interface* command for each additional interface on which you want to deny ICMP traffic.

The following example permits host 172.16.2.15 or hosts on subnet 172.22.1.0/16 to ping the outside interface:

```
hostname(config)# icmp permit host 172.16.2.15 echo-reply outside
hostname(config)# icmp permit 172.22.1.0 255.255.0.0 echo-reply outside
hostname(config)# icmp permit any unreachable outside
```

Related Commands

Commands	Description
clear configure icmp	Clears the ICMP configuration.
debug icmp	Enables the display of debug information for ICMP.
show icmp	Displays ICMP configuration.
timeout icmp	Configures the idle timeout for ICMP.

icmp unreachable

To configure the unreachable ICMP message rate limit for ICMP traffic that terminates at an ASA interface, use the **icmp unreachable** command. To remove the configuration, use the **no** form of this command.

icmp unreachable rate-limit *rate* **burst-size** *size*

no icmp unreachable rate-limit *rate* **burst-size** *size*

Syntax Description

rate-limit *rate*	Sets the rate limit of unreachable messages, between 1 and 100 messages per second. The default is 1 message per second.
burst-size *size*	Sets the burst rate, between 1 and 10. This keyword is not currently used by the system, so you can choose any value.

Defaults

The default rate limit is 1 message per second.

Command Modes

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

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

Command History

Release	Modification
7.2(2)	This command was introduced.

Usage Guidelines

If you allow ICMP messages, including unreachable messages, to terminate on an ASA interface (see the **icmp** command), then you can control the rate of unreachable messages.

This command, along with the **set connection decrement-ttl** command, is required to allow a traceroute through the ASA that shows the ASA as one of the hops.

Examples

The following example enables time to live decrements and sets the ICMP unreachable rate limit:

```
hostname(config)# policy-map localpolicy1
hostname(config-pmap)# class local_server
hostname(config-pmap-c)# set connection decrement-ttl
hostname(config-pmap-c)# exit
hostname(config)# icmp permit host 172.16.2.15 echo-reply outside
hostname(config)# icmp permit 172.22.1.0 255.255.0.0 echo-reply outside
hostname(config)# icmp permit any unreachable outside
hostname(config)# icmp unreachable rate-limit 50 burst-size 1
```

Related Commands

Commands	Description
clear configure icmp	Clears the ICMP configuration.
debug icmp	Enables the display of debug information for ICMP.
set connection decrement-ttl	Decrements the time to live value for a packet.
show icmp	Displays ICMP configuration.
timeout icmp	Configures the idle timeout for ICMP.

icmp-object

To add icmp-type object groups, use the **icmp-object** command in icmp-type configuration mode. To remove network object groups, use the **no** form of this command.

icmp-object *icmp_type*

no group-object *icmp_type*

Syntax Description

icmp_type	Specifies an ICMP type name.

Defaults

No default behavior or values.

Command Modes

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

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Icmp-type configuration	•	•	•	•	—

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

The **icmp-object** command is used with the **object-group** command to define an icmp-type object. It is used in icmp-type configuration mode.

ICMP type numbers and names include:

Number	ICMP Type Name
0	**echo-reply**
3	**unreachable**
4	**source-quench**
5	**redirect**
6	**alternate-address**
8	**echo**
9	**router-advertisement**
10	**router-solicitation**
11	**time-exceeded**
12	**parameter-problem**

Number	ICMP Type Name
13	**timestamp-request**
14	**timestamp-reply**
15	**information-request**
16	**information-reply**
17	**address-mask-request**
18	**address-mask-reply**
31	**conversion-error**
32	**mobile-redirect**

Examples

The following example shows how to use the **icmp-object** command in icmp-type configuration mode:

```
hostname(config)# object-group icmp-type icmp_allowed
hostname(config-icmp-type)# icmp-object echo
hostname(config-icmp-type)# icmp-object time-exceeded
hostname(config-icmp-type)# exit
```

Related Commands

Command	Description
clear configure object-group	Removes all the **object-group** commands from the configuration.
network-object	Adds a network object to a network object group.
object-group	Defines object groups to optimize your configuration.
port-object	Adds a port object to a service object group.
show running-config object-group	Displays the current object groups.

id-cert-issuer

To indicate whether the system accepts peer certificates issued by the CA associated with this trustpoint, use the **id-cert-issuer** command in crypto ca-trustpoint configuration mode. To disallow certificates that were issued by the CA associated with the trustpoint, use the **no** form of this command. This is useful for trustpoints that represent widely used root CAs.

id-cert-issuer

no id-cert-issuer

Syntax Description

This command has no arguments or keywords.

Defaults

The default setting is enabled (identity certificates are accepted).

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
Crypto ca-trustpoint configuration	•	•	•	•	—

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

Use this command to limit certificate acceptance to those issued by the subordinate certificate of a widely used root certificate. If you do not allow this feature, the ASA rejects any IKE peer certificate signed by this issuer.

Examples

The following example enters crypto ca trustpoint configuration mode for the trustpoint central, and lets an administrator accept identity certificates signed by the issuer for the trustpoint central:

```
hostname(config)# crypto ca trustpoint central
hostname(ca-trustpoint)# id-cert-issuer
hostname(ca-trustpoint)#
```

Related Commands

Command	Description
crypto ca trustpoint	Enters crypto ca trustpoint configuration mode.
default enrollment	Returns enrollment parameters to their defaults.
enrollment retry count	Specifies the number of retries to attempt to send an enrollment request.

Command	Description
enrollment retry period	Specifies the number of minutes to wait before trying to send an enrollment request.
enrollment terminal	Specifies cut-and-paste enrollment with this trustpoint.

id-mismatch

To enable logging for excessive DNS ID mismatches, use the **id-mismatch** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

id-mismatch [**count** *number* **duration** *seconds*] **action log**

no id-mismatch [**count** *number* **duration** *seconds*] **action log**]

Syntax Description

count *number*	The maximum number of mismatch instances before a system message log is sent.
duration *seconds*	The period, in seconds, to monitor.

Defaults

This command is disabled by default. The default rate is 30 in the a period of 3 seconds if the options are not specified when the command is enabled.

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
Parameters configuration	•	•	•	•	—

Command History

Release	Modification
7.2(1)	This command was introduced.

Usage Guidelines

A high rate of DNS ID mismatches may indicate a cache poisoning attack. This command can be enabled to monitor and alert such attempts. A summarized system message log will be printed if the mismatch rate exceeds the configured value. The **id-mismatch** command provides the system administrator with additional information to the regular event-based system message log.

Examples

The following example shows how to enable ID mismatch in a DNS inspection policy map:

```
hostname(config)# policy-map type inspect dns preset_dns_map
hostname(config-pmap)# parameters
hostname(config-pmap-p)# id-mismatch action log
```

Related Commands

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

id-randomization

To randomize the DNS identifier for a DNS query, use the **id-randomization** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

id-randomization

no id-randomization

Syntax Description

This command has no arguments or keywords.

Defaults

Disabled by default. The DNS identifier from the DNS query does not get modified.

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
Parameters configuration	•	•	•	•	—

Command History

Release	Modification
7.2(1)	This command was introduced.

Usage Guidelines

ID randomization helps protect against cache poisening attacks.

Examples

The following example shows how to enable ID randomization in a DNS inspection policy map:

```
hostname(config)# policy-map type inspect dns preset_dns_map
hostname(config-pmap)# parameters
hostname(config-pmap-p)# id-randomization
```

Related Commands

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

id-usage

To specify how the enrolled identity of a certificate can be used, use the **id-usage** command in crypto ca trustpoint configuration mode. To set the usage of the certificate to the default, use the **no** form of this command.

id-usage {**ssl-ipsec** | **code-signer**}

no id-usage {**ssl-ipsec** | **code-signer**}

Syntax Description

code-signer	The device identity represented by this certificate is used as a Java code signer to verify applets provided to remote users.
ssl-ipsec	(Default) The device identity represented by this certificate can be used as the server-side identity for SSL or IPsec-encrypted connections.

Defaults

The **id-usage** command default is **ssl-ipsec**.

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**
Crypto ca trustpoint configuration	•	•	•	•	—

Command History

Release	Modification
8.0(2)	This command was introduced.

Usage Guidelines

Remote-access VPNs can use SSL, IPsec, or both protocols, depending on deployment requirements, to permit access to virtually any network application or resource. The **id-usage** command allows you to specify the type of access to various certificate-protected resources.

A CA identity and in some cases, a device identity, is based on a certificate issued by the CA. All of the commands within the crypto ca trustpoint configuration mode control CA-specific configuration parameters, which specify how the ASA obtains the CA certificate, how the ASA obtains its certificate from the CA, and the authentication policies for user certificates issued by the CA.

Only a single instance of the **id-usage** command can be present in a trustpoint configuration. To enable the trustpoint for the **code-signer** and/or **ssl-ipsec** options, use a single instance which can specify either or both options.

Examples

The following example enters crypto ca trustpoint configuration mode for the trustpoint central, and designates it as a code-signer certificate:

```
hostname(config)# crypto ca trustpoint central
hostname(config-ca-trustpoint)# id-usage code-signer
hostname(config-ca-trustpoint)#
```

The following example enters crypto ca trustpoint configuration mode for the trustpoint general, and designates it as both a code-signer certificate and as a server side identity for SSL or IPsec connections:

```
hostname(config)# crypto ca trustpoint central
hostname(config-ca-trustpoint)# id-usage code-signer ssl-ipsec
hostname(config-ca-trustpoint)#
```

The following example enters crypto ca trustpoint configuration mode for the trustpoint checkin1, and resets it to limit its use to SSL or IPsec connections:

```
hostname(config)# crypto ca trustpoint checkin1
hostname(config-ca-trustpoint)# no id-usage ssl-ipsec
hostname(config-ca-trustpoint)#
```

Related Commands

Command	Description
crypto ca trustpoint	Enters crypto ca trustpoint configuration mode.
java-trustpoint	Configures the WebVPN Java object signing facility to use a PKCS12 certificate and keying material from a specified trustpoint location.
ssl trust-point	Specifies the certificate that represents the SSL certificate for an interface.
trust-point (tunnel-group ipsec-attributes mode)	Specifies the name that identifies the certificate to be sent to the IKE peer,
validation-policy	Specifies conditions for validating certificates associated with user connections.

igmp

To reinstate IGMP processing on an interface, use the **igmp** command in interface configuration mode. To disable IGMP processing on an interface, use the **no** form of this command.

igmp

no igmp

Syntax Description

This command has no arguments or keywords.

Defaults

Enabled.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

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

Examples

The following example disables IGMP processing on the selected interface:

```
hostname(config-if)# no igmp
```

Related Commands

Command	Description
show igmp groups	Displays the multicast groups with receivers that are directly connected to the ASA and that were learned through IGMP.
show igmp interface	Displays multicast information for an interface.

igmp access-group

To control the multicast groups that hosts on the subnet serviced by an interface can join, use the **igmp access-group** command in interface configuration mode. To disable groups on the interface, use the **no** form of this command.

igmp access-group *acl*

no igmp access-group *acl*

Syntax Description

acl	Name of an IP access list. You can specify a standard or and extended access list. However, if you specify an extended access list, only the destination address is matched; you should specify **any** for the source.

Defaults

All groups are allowed to join on an interface.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was moved to interface configuration mode. Earlier versions required you to enter multicast interface configuration mode, which is no longer available.

Examples

The following example limits hosts permitted by access list 1 to join the group:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp access-group 1
```

Related Commands

Command	Description
show igmp interface	Displays multicast information for an interface.

igmp forward interface

To enable forwarding of all IGMP host reports and leave messages received to the interface specified, use the **igmp forward interface** command in interface configuration mode. To remove the forwarding, use the **no** form of this command.

igmp forward interface *if-name*

no igmp forward interface *if-name*

Syntax Description

if-name	Logical name of the interface.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
7.0(1)	This command was moved to interface configuration mode. Earlier versions required you to enter multicast interface configuration mode, which is no longer available.

Usage Guidelines

Enter this command on the input interface. This command is used for stub multicast routing and cannot be configured concurrently with PIM.

Examples

The following example forwards IGMP host reports from the current interface to the specified interface:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp forward interface outside
```

Related Commands

Command	Description
show igmp interface	Displays multicast information for an interface.

igmp join-group

To configure an interface to be a locally connected member of the specified group, use the **igmp join-group** command in interface configuration mode. To cancel membership in the group, use the **no** form of this command.

igmp join-group *group-address*

no igmp join-group *group-address*

Syntax Description

group-address	IP address of the multicast group.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
7.0(1)	This command was moved to interface configuration mode. Earlier versions required you to enter multicast interface configuration mode, which is no longer available.

Usage Guidelines

This command configures an ASA interface to be a member of a multicast group. The **igmp join-group** command causes the ASA to both accept and forward multicast packets destined for the specified multicast group.

To configure the ASA to forward the multicast traffic without being a member of the multicast group, use the **igmp static-group** command.

Examples

The following example configures the selected interface to join the IGMP group 255.2.2.2:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp join-group 225.2.2.2
```

Related Commands

Command	Description
igmp static-group	Configure the interface to be a statically connected member of the specified multicast group.

igmp limit

To limit the number of IGMP states on a per-interface basis, use the **igmp limit** command in interface configuration mode. To restore the default limit, use the **no** form of this command.

igmp limit *number*

no igmp limit [*number*]

Syntax Description

number	Number of IGMP states allowed on the interface. Valid values range from 0 to 500. The default value is 500. Setting this value to 0 prevents learned groups from being added, but manually defined memberships (using the **igmp join-group** and **igmp static-group** commands) are still permitted.

Defaults

The default is 500.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was introduced. It replaced the **igmp max-groups** command.

Examples

The following example limits the number of IGMP states on the interface to 250:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp limit 250
```

Related Commands

Command	Description
igmp	Reinstates IGMP processing on an interface.
igmp join-group	Configure an interface to be a locally connected member of the specified group.
igmp static-group	Configure the interface to be a statically connected member of the specified multicast group.

igmp query-interval

To configure the frequency at which IGMP host query messages are sent by the interface, use the **igmp query-interval** command in interface configuration mode. To restore the default frequency, use the **no** form of this command.

igmp query-interval *seconds*

no igmp query-interval *seconds*

Syntax Description

seconds	Frequency, in seconds, at which to send IGMP host query messages. Valid values range from 1 to 3600. The default is 125 seconds.

Defaults

The default query interval is 125 seconds.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was moved to interface configuration mode. Earlier versions required you to enter multicast interface configuration mode, which is no longer available.

Usage Guidelines

Multicast routers send host query messages to discover which multicast groups have members on the networks attached to the interface. Hosts respond with IGMP report messages indicating that they want to receive multicast packets for specific groups. Host query messages are addressed to the all-hosts multicast group, which has an address of 224.0.0.1 TTL value of 1.

The designated router for a LAN is the only router that sends IGMP host query messages:

- For IGMP Version 1, the designated router is elected according to the multicast routing protocol that runs on the LAN.
- For IGMP Version 2, the designated router is the lowest IP-addressed multicast router on the subnet.

If the router hears no queries for the timeout period (controlled by the **igmp query-timeout** command), it becomes the querier.

Caution Changing this value may severely impact multicast forwarding.

Examples

The following example changes the IGMP query interval to 120 seconds:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp query-interval 120
```

Related Commands

Command	Description
igmp query-max-response-time	Configures the maximum response time advertised in IGMP queries.
igmp query-timeout	Configures the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying.

igmp query-max-response-time

To specify the maximum response time advertised in IGMP queries, use the **igmp query-max-response-time** command in interface configuration mode. To restore the default response time value, use the **no** form of this command.

igmp query-max-response-time *seconds*

no igmp query-max-response-time *seconds*

Syntax Description

seconds	Maximum response time, in seconds, advertised in IGMP queries. Valid values are from 1 to 25. The default value is 10 seconds.

Defaults

10 seconds.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was moved to interface configuration mode. Earlier versions required you to enter multicast interface configuration mode, which is no longer available.

Usage Guidelines

This command is valid only when IGMP Version 2 or 3 is running.

This command controls the period during which the responder can respond to an IGMP query message before the router deletes the group.

Examples

The following example changes the maximum query response time to 8 seconds:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp query-max-response-time 8
```

Related Commands

Command	Description
igmp query-interval	Configures the frequency at which IGMP host query messages are sent by the interface.
igmp query-timeout	Configures the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying.

igmp query-timeout

To configure the timeout period before the interface takes over as the querier after the previous querier has stopped querying, use the **igmp query-timeout** command in interface configuration mode. To restore the default value, use the **no** form of this command.

igmp query-timeout *seconds*

no igmp query-timeout *seconds*

Syntax Description

seconds	Number of seconds that the router waits after the previous querier has stopped querying and before it takes over as the querier. Valid values are from 60 to 300 seconds. The default value is 255 seconds.

Defaults

The default query interval is 255 seconds.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

This command requires IGMP Version 2 or 3.

Examples

The following example configures the router to wait 200 seconds from the time it received the last query before it takes over as the querier for the interface:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp query-timeout 200
```

Related Commands

Command	Description
igmp query-interval	Configures the frequency at which IGMP host query messages are sent by the interface.
igmp query-max-response-time	Configures the maximum response time advertised in IGMP queries.

igmp static-group

To configure the interface to be a statically connected member of the specified multicast group, use the **igmp static-group** command in interface configuration mode. To remove the static group entry, use the **no** form of this command.

igmp static-group *group*

no igmp static-group *group*

Syntax Description

group	IP multicast group address.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

When configured with the **igmp static-group** command, the ASA interface does not accept multicast packets destined for the specified group itself; it only forwards them. To configure the ASA to both accept and forward multicast packets for a speific multicast group, use the **igmp join-group** command. If the **igmp join-group** command is configured for the same group address as the **igmp static-group** command, the **igmp join-group** command takes precedence, and the group behaves like a locally joined group.

Examples

The following example adds the selected interface to the multicast group 239.100.100.101:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp static-group 239.100.100.101
```

Related Commands

Command	Description
igmp join-group	Configures an interface to be a locally connected member of the specified group.

igmp version

To configure which version of IGMP the interface uses, use the **igmp version** command in interface configuration mode. To restore version to the default, use the **no** form of this command.

igmp version {**1** | **2**}

no igmp version [**1** | **2**]

Syntax Description

1	IGMP Version 1.
2	IGMP Version 2.

Defaults

IGMP Version 2.

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
Interface configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was moved to interface configuration mode. Earlier versions required you to enter multicast interface configuration mode, which is no longer available.

Usage Guidelines

All routers on the subnet must support the same version of IGMP. Hosts can have any IGMP version (1 or 2), and the ASA will correctly detect their presence and query them appropriately.

Some commands require IGMP Version 2, including as the **igmp query-max-response-time** and **igmp query-timeout** commands.

Examples

The following example configures the selected interface to use IGMP Version 1:

```
hostname(config)# interface gigabitethernet 0/0
hostname(config-if)# igmp version 1
```

Related Commands

Command	Description
igmp query-max-response-time	Configures the maximum response time advertised in IGMP queries.
igmp query-timeout	Configures the timeout period before the router takes over as the querier for the interface after the previous querier has stopped querying.

ignore-ipsec-keyusage

To suppress key usage checking on IPsec client certificates, use the **ignore-ipsec-keyusage** command in ca-trustpoint configuration mode. To resume key usage checking, use the **no** form of this command.

ignore-ipsec-keyusage

no ignore-ipsec-keyusage

Syntax Description

This command has no arguments or keywords.

Defaults

This command is disabled by default.

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
Ca-trustpoint configuration	•	—	•	—	—

Command History

Release	Modification
8.0(2)	This command was introduced as a safety measure and was deprecated at the same time. Note that future releases might not offer suppression of key usage checking.

Usage Guidelines

Use of this command indicates that the values in the Key Usage and extended Key Usage extensions of IPsec remote client certificates are not to be validated. This command ignores key usage checking and is useful for noncompliant deployments.

Examples

The following example shows how to ignore the results of key usage checking:

```
hostname(config)# crypto ca trustpoint central
hostname(config-ca-trustpoint)#
hostname(config-ca-trustpoint)# ignore-ipsec-keyusage
Notice: This command has been deprecated
hostname(config-ca-trustpoint)#
```

Related Commands

Command	Description
crypto ca trustpoint	Enters crypto ca trustpoint configuration mode.

ignore lsa mospf

To suppress the sending of syslog messages when the router receives LSA Type 6 MOSPF packets, use the **ignore lsa mospf** command in router configuration mode. To restore the sending of the syslog messages, use the **no** form of this command.

ignore lsa mospf

no ignore lsa mospf

Syntax Description

This command has no arguments or keywords.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

Type 6 MOSPF packets are unsupported.

Examples

The following example causes LSA Type 6 MOSPF packets to be ignored:

```
hostname(config-router)# ignore lsa mospf
```

Related Commands

Command	Description
show running-config router ospf	Displays the OSPF router configuration.

ignore-ssl-keyusage

To suppress key usage checking on SSL client certificates, use the **ignore-ssl-keyusage** command in ca-trustpoint configuration mode. To resume key usage checking, use the **no** form of this command.

ignore-ssl-keyusage

no ignore-ssl-keyusage

Syntax Description

This command has no arguments or keywords.

Defaults

This command is disabled by default.

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
Ca-trustpoint configuration	•	—	•	—	—

Command History

Release	Modification
8.0(2)	This command was introduced as a safety measure and was deprecated at the same time. Note that future releases might not offer suppression of key usage checking.

Usage Guidelines

Use of this command indicates that the values in the Key Usage and extended Key Usage extensions of IPsec remote client certificates are not to be validated. This command ignores key usage checking and is useful for noncompliant deployments.

Examples

The following example shows how to ignore the results of key usage checking:

```
hostname(config)# crypto ca trustpoint central
hostname(config-ca-trustpoint)#
hostname(config-ca-trustpoint)# ignore-ssl-keyusage
Notice: This command has been deprecated
hostname(config-ca-trustpoint)#
```

Related Commands

Command	Description
crypto ca trustpoint	Enters crypto ca trustpoint configuration mode.

ike-retry-count

To configure the maximum number of connection retry attempts a Cisco AnyConnect VPN Client using IKE should make before falling back to SSL to attempt the connection, use the **ike-retry-count** command in group-policy webvpn configuration mode or username webvpn configuration mode. To remove this command from the configuration and reset the maximum number of retry attempts to the default value, use the **no** form of this command.

ike-retry-count {**none** | *value*}

no ike-retry-count [**none** | *value*]

Syntax Description

none	Specifies that no retry attempts are allowed.
value	Specify the maximum number of connection retry atttempts (1-10) for the Cisco AnyConnect VPN Client to perform after an inital connection failure.

Defaults

The default number of allowed retry attempts is 3.

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**
Group-policy webvpn configuration	•	—	•	—	—
Username webvpn configuration	•	—	•	—	—

Command History

Release	Modification
8.0(2)	This command was introduced

Usage Guidelines

Use the **ike-retry-count** command to control the number of times that the Cisco AnyConnect VPN Client should attempt to connect using IKE. If the client fails to connect using IKE after the number of retries specified in this command, it falls back to SSL to attempt the connection. This value overrides any value that exists in the Cisco AnyConnect VPN Client.

Note To support fallback from IPsec to SSL, the **vpn-tunnel-protocol** command must be have with both the **svc** and **ipsec** arguments configured.

Examples

The following example sets the IKE retry count to 7 for the group policy named FirstGroup:

```
hostname(config)# group-policy FirstGroup attributes
```

```
hostname(config-group-policy)# webvpn
hostname(config-group-webvpn)# ike-retry-count 7
hostname(config-group-webvpn)#
```

The following example sets the IKE retry count to 9 for the username Finance:

```
hostname(config)# username Finance attributes
hostname(config-username)# webvpn
hostname(config-username-webvpn)# ike-retry-count 9
hostname(config-group-webvpn)#
```

Related Commands

Command	Description
group-policy	Creates or edits a group policy.
ike-retry-timeout	Specifies the number of seconds between IKE retry attempts.
username	Adds a user to the ASA database.
vpn-tunnel-protocol	Configures a VPN tunnel type (IPsec, L2TP over IPsec, or WebVPN).
webvpn	Enters group-policy webvpn configuration mode or username webvpn configuration mode.

ikev1 pre-shared-key

To specify a preshared key to support IKEv1 connections based on preshared keys, use the **pre-shared-key** command in tunnel-group ipsec-attributes configuration mode. To return to the default value, use the **no** form of this command.

pre-shared-key *key*

no pre-shared-key

Syntax Description

key	Specifies an alphanumeric key between 1 and 128 characters.

Defaults

No default behavior or values.

Command Modes

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

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Tunnel-group ipsec-attributes configuration	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was introduced.
8.4(1)	The command name was modified from **pre-shared-key** to **ikev1 pre-shared-key**.

Usage Guidelines

You can apply this attribute to all IPsec tunnel-group types.

Examples

The following command entered in config-ipsec configuration mode, specifies the preshared key XYZX to support IKE connections for the IPSec LAN-to-LAN tunnel group named 209.165.200.225:

```
hostname(config)# tunnel-group 209.165.200.225 type IPSec_L2L
hostname(config)# tunnel-group 209.165.200.225 ipsec-attributes
hostname(config-tunnel-ipsec)# pre-shared-key xyzx
hostname(config-tunnel-ipsec)#
```

Related Commands

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

ikev1 trust-point

To specify the name of a trustpoint that identifies the certificate to be sent to the IKEv1 peer, use the **trust-point** command in tunnel-group ipsec-attributes mode. To eliminate a trustpoint specification, use the **no** form of this command.

trust-point *trust-point-name*

no trust-point *trust-point-name*

Syntax Description

trust-point-name	Specifies the name of the trustpoint to use.

Defaults

No default behavior or values.

Command Modes

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

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Tunnel-group ipsec attributes	•	—	•	—	—

Command History

Release	Modification
7.0(1)	This command was introduced.
8.4(1)	The command name was changed from **trust-point** to **ikev1 trust-point**.

Usage Guidelines

You can apply this attribute to all IPsec tunnel group types.

Examples

The following example entered in tunnel-ipsec configuration mode, configures a trustpoint for identifying the certificate to be sent to the IKEv1 peer for the IPsec LAN-to-LAN tunnel group named 209.165.200.225:

```
hostname(config)# tunnel-group 209.165.200.225 type IPSec_L2L
hostname(config)# tunnel-group 209.165.200.225 ipsec-attributes
hostname(config-tunnel-ipsec)# ikev1 trust-point mytrustpoint
```

Related Commands

Command	Description
clear-configure tunnel-group	Clears all configured tunnel groups.

Command	Description
show running-config tunnel-group	Shows the tunnel group configuration for all tunnel groups or for a particular tunnel group.
tunnel-group ipsec-attributes	Configures the tunnel group IPsec attributes for this group.

ikev1 user-authentication

To configure hybrid authentication during IKE, use the **ikev1 user-authentication** command in tunnel-group ipsec-attributes configuration mode. To disable hybrid authentication, use the **no** form of this command.

ikev1 user-authentication [*interface*] {**none** | **xauth** | **hybrid**}

no ikev1 user-authentication [*interface*] {**none** | **xauth** | **hybrid**}

Syntax Description

hybrid	Specifies hybrid XAUTH authentication during IKE.
interface	(Optional) Specifies the interface on which the user authentication method is configured.
none	Disables user authentication during IKE.
xauth	Specifies XAUTH, also called extended user authentication.

Defaults

The default authentication method is XAUTH or extended user authentication. The default is all interfaces.

Command Modes

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

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Tunnel-group ipsec-attributes configuration	•	—	•	—	—

Command History

Release	Modification
7.2(1)	This command was introduced.
8.4(1)	The command name was changed from **isakmp ikev1-user-authentication** to **ikev1 user-authentication**.

Usage Guidelines

You use this command when you need to use digital certificates for ASA authentication and a different, legacy method for remote VPN user authentication, such as RADIUS, TACACS+, or SecurID. This command breaks Phase 1 of IKE down into the following two steps, together called hybrid authentication:

1. The ASA authenticates to the remote VPN user with standard public key techniques. This establishes an IKE security association that is unidirectionally authenticated.
2. An XAUTH exchange then authenticates the remote VPN user. This extended authentication can use one of the supported legacy authentication methods.

Note Before the authentication type can be set to hybrid, you must configure the authentication server, create a preshared key, and configure a trustpoint.

An IPsec hybrid RSA authentication type is rejected when the exchange type is main mode.

When you omit the optional *interface* argument, the command applies to all the interfaces and serves as a backup when the per-interface command is not specified. When there are two **ikev1 user-authentication** commands specified for a tunnel group, and one uses the *interface* argument and one does not, the one specifying the interface takes precedence for that particular interface.

Examples

The following example commands enable hybrid XAUTH on the inside interface for a tunnel group called example-group:

```
hostname(config)# tunnel-group example-group type ipsec-ra
hostname(config)# tunnel-group example-group ipsec-attributes
hostname(config-tunnel-ipsec)# ikev1 user-authentication (inside) hybrid
hostname(config-tunnel-ipsec)#
```

Related Commands

Command	Description
aaa-server	Defines a AAA server.
pre-shared-key	Creates a preshared key for supporting IKE connections.
tunnel-group	Creates and manages the database of connection specific records for IPsec, L2TP/IPsec, and WebVPN connections.

ikev2 local-authentication

To specify local authentication for IKEv2 LAN-to-LAN connections, use the **ikev2 local-authentication** command in tunnel-group ipsec-attributes configuration mode. To return to the default value, use the no form of this command.

ikev2 local-authentication {**certificate** *trustpoint* | **pre-shared-key** *key-value*}

no ikev2 local-authentication {**certificate** *trustpoint* | **pre-shared-key** *key-value*}

Syntax Description

certificate	Specifies certificate authentication.
trustpoint	Specifies the trustpoint that identifies the certificate to send to the remote peer.
pre-shared-key	Specifies using a local preshared key used to authenticate the remote peer.
key-value	The key value, from 1 to 128 characters.

Defaults

No default behavior or values.

Command Modes

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

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Tunnel-group ipsec-attributes configuration	•	—	•	—	—

Command History

Release	Modification
8.4(1)	This command was introduced.

Usage Guidelines

The setting applies to IPsec IKEv2 LAN-to-LAN tunnel groups only.

Examples

The following command entered in tunnel-group ipsec-attributes configuration mode, specifies the preshared key XYZX to support IKE connections for the IPsec LAN-to-LAN tunnel group named 209.165.200.225:

```
hostname(config)# tunnel-group 209.165.200.225 type IPSec_L2L
hostname(config)# tunnel-group 209.165.200.225 ipsec-attributes
hostname(config-tunnel-ipsec)# ikev2 local-authentication pre-shared-key XYZX
```

Related Commands

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

ikev2 remote-authentication

To specify remote authentication for IPsec IKEv2 LAN-to-LAN connections, use the **ikev2 local-authentication** command in tunnel-group ipsec-attributes configuration mode. To return to the default value, use the no form of this command.

ikev2 remote-authentication {**certificate** *trustpoint* | **pre-shared-key** *key-value*}

no ikev2 remote-authentication {**certificate** *trustpoint* | **pre-shared-key** *key-value*}

Syntax Description

certificate	Specifies certificate authentication.
trustpoint	Specifies the trustpoint that identifies the certificate to send to the remote peer.
pre-shared-key	Specifies using a local preshared key used to authenticate the remote peer.
key-value	The key value, from 1 to 128 characters.

Defaults

No default behavior or values.

Command Modes

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

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Tunnel-group ipsec-attributes configuration	•	—	•	—	—

Command History

Release	Modification
8.4(1)	This command was introduced.

Usage Guidelines

The setting applies to IPsec IKEv2 LAN-to-LAN tunnel groups only.

Examples

The following command entered in tunnel-group ipsec-attributes configuration mode, specifies the preshared key XYZX to support IKEv2 connections for the IPsec LAN-to-LAN tunnel group named 209.165.200.225:

```
hostname(config)# tunnel-group 209.165.200.225 type IPSec_L2L
hostname(config)# tunnel-group 209.165.200.225 ipsec-attributes
hostname(config-tunnel-ipsec)# ikev2 remote-authentication pre-shared-key xyzx
```

Related Commands

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

im

To enable instant messaging over SIP, use the **im** command in parameters configuration mode, which is accessible from policy map configuration mode. To disable this feature, use the **no** form of this command.

im

no im

Syntax Description

This command has no arguments or keywords.

Defaults

This command is disabled by default.

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
Parameters configuration	•	•	•	•	—

Command History

Release	Modification
7.2(1)	This command was introduced.

Examples

The following example shows how to enable instant messaging over SIP in a SIP inspection policy map:

```
hostname(config)# policy-map type inspect sip sip_map
hostname(config-pmap)# parameters
hostname(config-pmap-p)# im
```

Related Commands

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

imap4s

To enter IMAP4S configuration mode, use the **imap4s** command in global configuration mode. To remove any commands entered in IMAP4S command mode, use the **no** form of this command.

imap4s

no imap4s

Syntax Description

This command has no arguments or keywords.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
7.0(1)	This command was introduced.

Usage Guidelines

IMAP4 is a client/server protocol in which your Internet server receives and holds e-mail for you. You (or your e-mail client) can view just the heading and the sender of the letter and then decide whether to download the mail. You can also create and manipulate multiple folders or mailboxes on the server, delete messages, or search for certain parts or an entire note. IMAP requires continual access to the server during the time that you are working with your mail. IMAP4S lets you receive e-mail over an SSL connection.

Examples

The following example shows how to enter IMAP4S configuration mode:

```
hostname(config)# imap4s
hostname(config-imap4s)#
```

Related Commands

Command	Description
clear configure imap4s	Removes the IMAP4S configuration.
show running-config imap4s	Displays the running configuration for IMAP4S.

import webvpn customization

To load a customization object onto the flash device of the ASA, enter the **import webvpn customization** command in privileged EXEC mode.

import webvpn customization *name URL*

Syntax Description

name	The name that identifies the customization object. The maximum number is 64 characters.
URL	Remote path to the source of the XML customization object. The maximum number is 255 characters.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
8.0(2)	This command was introduced.

Usage Guidelines

Make sure WebVPN is enabled on an ASA interface before you enter the **import customization** command. To do so, enter the **show running-config** command.

The ASA does the following when you import a customization object:

- Copies the customization object from the URL to the ASA file system disk0:/csco_config/customization as MD5*name*.
- Performs a basic XML syntax check on the file. If it is invalid, the ASA deletes the file.
- Checks that the file in index.ini contains the record MD5*name*. If not, the ASA adds MD5*name* to the file.
- Copies the MD5*name* file to RAMFS /csco_config/customization/ with as ramfs *name*.

Examples

The following example imports to the ASA a customization object, *General.xml*, from the URL 209.165.201.22/customization and names it *custom1*.

```
hostname# import webvpn customization custom1 tftp://209.165.201.22/customization
/General.xml
```

```
Accessing
tftp://209.165.201.22/customization/General.xml...!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Writing file disk0:/csco_config/97/custom1...
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
329994 bytes copied in 5.350 secs (65998 bytes/sec)
```

Related Commands

Command	Description
revert webvpn customization	Removes the specified customization object from the flash device of the ASA.
show import webvpn customization	Lists the customization objects present on the flash device of the ASA.

import webvpn plug-in protocol

To install a plug-in onto the flash device of the ASA, enter the **import webvpn plug-in protocol** command in privileged EXEC mode.

import webvpn plug-in protocol *protocol URL*

Syntax Description

protocol	• **rdp—**The Remote Desktop Protocol plug-in lets the remote user connect to a computer running Microsoft Terminal Services. Cisco redistributes this plug-in without any changes. The website containing the original is http://properjavardp.sourceforge.net/. • **ssh,telnet—**The Secure Shell plug-in lets the remote user establish a secure channel to a remote computer, or lets the remote user use Telnet to connect to a remote computer. Cisco redistributes this plug-in without any changes. The website containing the original is http://javassh.org/. **Caution** The **import webvpn plug-in protocol ssh,telnet** *URL* command installs *both* the SSH and Telnet plug-ins. Do *not* enter this command once for SSH and once for Telnet. When typing the **ssh,telnet** string, do *not* insert a space. Use the **revert webvpn plug-in protocol** command to remove any **import webvpn plug-in protocol** commands that deviate from these requirements. • **vnc—**The Virtual Network Computing plug-in lets the remote user use a monitor, keyboard, and mouse to view and control a computer with remote desktop sharing turned on. Cisco redistributes this plug-in without any changes. The website containing the original is http://www.tightvnc.com/.
URL	Remote path to the source of the plug-in.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
8.0(2)	This command was introduced.

Usage Guidelines

Before installing a plug-in, do the following:

- Make sure Clientless SSL VPN ("webvpn") is enabled on an interface on the ASA. To do so, enter the **show running-config** command.
- Create a temporary directory named "plugins" on a local TFTP server (for example, with the hostname "local_tftp_server"), and download the plug-ins from the Cisco website to the "plugins" directory. Enter the hostname or address of the TFTP server and the path to the plug-in that you need into the URL field of the **import webvpn plug-in protocol** command.

The ASA does the following when you import a plug-in:

- Unpacks the .jar file specified in the *URL*.
- Writes the file to the csco-config/97/plugin directory on the ASA file system.
- Populates the drop-down menu next to the URL attributes in ASDM.
- Enables the plug-in for all future Clientless SSL VPN sessions, and adds a main menu option and an option to the drop-down menu next to the Address field of the portal page. The following table shows the changes to the main menu and address field of the portal page.

Plug-in	Main Menu Option Added to Portal Page	Address Field Option Added to Portal Page
rdp	Terminal Servers	rdp://
ssh,telnet	SSH	ssh://
	Telnet	telnet://
vnc	VNC Client	vnc://

The ASA does not retain the **import webvpn plug-in protocol** command in the configuration. Instead, it loads the contents of the csco-config/97/plugin directory automatically. A secondary ASA obtains the plug-ins from the primary ASA.

When the user in a Clientless SSL VPN session clicks the associated menu option on the portal page, the portal page displays a window to the interface and displays a help pane. The user can select the protocol displayed in the drop-down menu and enter the URL in the Address field to establish a connection.

Note Support has been added for SSH V2 in addition to previous SSH V1 and Telnet. The plug-in protocol is still the same (ssh and telnet), and the URL formats are as follows:
ssh://<target> — uses SSH V2
ssh://<target>/?version=1 — uses SSH V1
telnet://<target> — uses telnet

To remove the respective **import webvpn plug-in protocol** command and disable support for the protocol, use the **revert webvpn plug-in protocol** command.

Examples

The following command adds Clientless SSL VPN support for RDP:

```
hostname# import webvpn plug-in protocol rdp tftp://209.165.201.22/plugins/rdp-plugin.jar
Accessing
tftp://209.165.201.22/plugins/rdp-plugin.jar...!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Writing file disk0:/csco_config/97/plugin/rdp...
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
329994 bytes copied in 5.350 secs (65998 bytes/sec)
```

The following command adds Clientless SSL VPN support for SSH and Telnet:

```
hostname# import webvpn plug-in protocol ssh,telnet
tftp://209.165.201.22/plugins/ssh-plugin.jar

Accessing
tftp://209.165.201.22/plugins/ssh-plugin.jar...!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!
Writing file disk0:/csco_config/97/plugin/ssh...
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
238510 bytes copied in 3.650 secs (79503 bytes/sec)
```

The following command adds Clientless SSL VPN support for VNC:

```
hostname# import webvpn plug-in protocol vnc tftp://209.165.201.22/plugins/vnc-plugin.jar

Accessing tftp://209.165.201.22/plugins/vnc-plugin.jar...!!!!!!!!!!!!!!!!
Writing file disk0:/csco_config/97/plugin/vnc...
!!!!!!!!!!!!!!!!
58147 bytes copied in 2.40 secs (29073 bytes/sec)
hostname#
```

Related Commands

Command	Description
revert webvpn plug-in protocol	Removes the specified plug-in from the flash device of the ASA.
show import webvpn plug-in	Lists the plug-ins present on the flash device of the ASA.

import webvpn translation-table

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

import webvpn translation-table *translation_domain* **language** *language url*

Syntax Description

language	Specifies a language for the translation table. Enter the value for *language* in the manner expressed by your browser language options.
translation_domain	Specifies the functional area and associated messages visible to remote users.
url	Specifies the URL of the XML file used to create the customization object.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
8.0(2)	This command was introduced.

Usage Guidelines

The ASA provides language translation for the portal and screens displayed to users that initiate browser-based, clientless SSL VPN connections, as well as the user interface displayed to AnyConnect VPN Client users.

Each functional area and its messages that is visible to remote users has its own translation domain and is specified by the *translation_domain* argument. The following table shows the translation domains and the functional areas translated.

Translation Domain	Functional Areas Translated
AnyConnect	Messages displayed on the user interface of the Cisco AnyConnect VPN Client.
banners	Banners displayed to remote users and messages when VPN access is denied.
CSD	Messages for the Cisco Secure Desktop (CSD).
customization	Messages on the login and logout pages, portal page, and all the messages customizable by the user.

Translation Domain (continued)	Functional Areas Translated (continued)
plugin-ica	Messages for the Citrix plug-in.
plugin-rdp	Messages for the Remote Desktop Protocol plug-in.
plugin-telnet,ssh	Messages for the Telnet and SSH plug-in.
plugin-vnc	Messages for the VNC plug-in.
PortForwarder	Messages displayed to port forwarding users.
url-list	Text that user specifies for URL bookmarks on the portal page.
webvpn	All the layer 7, AAA, and portal messages that are not customizable.

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

Download the template for the translation domain using the **export webvpn translation-table** command, make changes to the messages, and use the **import webvpn translation-table** command to create the object. You can view available objects with the **show import webvpn translation-table** command.

Be sure to specify language in the manner expressed by your browser language options. For example, Microsoft Internet Explorer uses the abbreviation *zh* for the Chinese language. The translation table imported to the ASA must also be named *zh*.

With the exception of the AnyConnect translation domain, a translation table has no affect, and messages are not translated until you create a customization object, identify a translation table to use in that object, and specify the customization for the group policy or user. Changes to the translation table for the AnyConnect domain are immediately visible to AnyConnect client users. See the **import webvpn customization** command for more information.

Examples

The following example imports a translation-table for the translation domain affecting the AnyConnect client user interface, and specifies the translation table is for the Chinese language. The **show import webvpn translation-table** command displays the new object:

```
hostname# import webvpn translation-table anyconnect language zh
tftp://209.165.200.225/anyconnect
hostname# !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
hostname# show import webvpn translation-table
Translation Tables' Templates:
customization
AnyConnect
CSD
PortForwarder
url-list
webvpn
Citrix-plugin
RPC-plugin
Telnet-SSH-plugin
VNC-plugin
```

```
Translation Tables:
zh AnyConnect
```

Related Commands

Command	Description
export webvpn translation-table	Exports a translation table.
import webvpn customization	Imports a customization object that references the translation table.
revert	Removes translation tables from flash.
show import webvpn translation-table	Displays available translation table templates and translation tables.

import webvpn url-list

To load a URL list onto the flash device of the ASA, enter the **import webvpn url-list** command in privileged EXEC mode.

import webvpn url-list *name URL*

Syntax Description

name	The name that identifies the URL list. The maximum number is 64 characters.
URL	Remote path to the source of the URL list. The maximum number is 255 characters.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
8.0(2)	This command was introduced.

Usage Guidelines

Make sure that WebVPN is enabled on a ASA interface before you enter the **import url-list** command. To do so, enter the **show running-config** command.

The ASA does the following when you import a URL list:

- Copies the URL list from the URL to the ASA file system disk0:/csco_config/url-lists as *name on flash* = base 64*name*.
- Performs a basic XML syntax check on the file. If the syntax is invalid, the ASA deletes the file.
- Checks that the file in index.ini contains the record base 64*name*. If not, the ASA adds base 64*name* to the file.
- Copies the *name* file to RAMFS /csco_config/url-lists/ with ramfs name = *name*.

Examples

The following example imports a URL list, *NewList.xml*, from the URL 209.165.201.22/url-lists to the ASA and names it *ABCList*.

```
hostname# import webvpn url-list ABCList tftp://209.165.201.22/url-lists/NewList.xml
```

```
Accessing
tftp://209.165.201.22/url-lists/NewList.xml...!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Writing file disk0:/csco_config/97/ABClist...
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
329994 bytes copied in 5.350 secs (65998 bytes/sec)
```

Related Commands

Command	Description
revert webvpn url-list	Removes the specified URL list from the flash device of the ASA.
show import webvpn url-list	Lists the URL lists present on the flash device of the ASA.

import webvpn webcontent

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

import webvpn webcontent *destination url source url*

Syntax Description

destination url	The URL to export to. The maximum number is 255 characters.
source url	The URL in the ASA flash memory in which the content resides. The maximum number is 64 characters.

Defaults

No default behavior or values.

Command Modes

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

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

Command History

Release	Modification
8.0(2)	This command was introduced.

Usage Guidelines

Content imported with the **webcontent** option is visible to remote Clientless users. This includes help content visible on the Clientless portal and logos used by customization objects that customize user screens.

Content imported to URLs with the path /+CSCOE+/ is visible only to authorized users.

Content imported to URLs with the path /+CSCOU+/ is visible to both unauthorized and authorized users.

For example, a corporate logo imported as /+CSCOU+/logo.gif could be used in a portal customization object and be visible on the logon page and the portal page. The same logo.gif file imported as /+CSCOE+/logo.gif would only be visible to remote users after they have logged in successfully.

Help content that appears on the various application screens must be imported to specific URLs. The following table shows the URLs and screen areas for the help content displayed for standard Clientless applications:

URL	Clientless Screen Area
/+CSCOE+/help/*language*/app-access-hlp.inc	Application Access
/+CSCOE+/help/*language*/file-access-hlp.inc	Browse Networks

URL (continued)	Clientless Screen Area (continued)
/+CSCOE+/help/*language*/net_access_hlp.html	AnyConnect Client
/+CSCOE+/help/*language*/web-access-help.inc	Web Access

The following table shows the URLs and screen areas for the help content displayed for optional plug-in Clientless applications:

URL	Clientless Screen Area
/+CSCOE+/help/*language*/ica-hlp.inc	MetaFrame Access
/+CSCOE+/help/*language*/rdp-hlp.inc	Terminal Servers
/+CSCOE+/help/*language*/ssh,telnet-hlp.inc	Telnet/SSH Servers
/+CSCOE+/help/*language*/vnc-hlp.inc	VNC Connections

The *language* entry in the URL path is the language abbreviation that you designate for the help content. The ASA does not actually translate the file into the language you specify, but labels the file with the language abbreviation.

Examples

The following example imports the HTML file *application_access_help.html,* from a TFTP server at 209.165.200.225, to the URL that stores the Application Access help content in flash memory. The URL includes the abbrevation *en* for the English language:

```
hostname# import webvpn webcontent /+CSCOE+/help/en/app-access-hlp.inc
tftp://209.165.200.225/application_access_help.html
!!!!* Web resource `+CSCOE+/help/en/ap-access-hlp.inc' was successfully initialized
hostname#
```

The following example imports the HTML file *application_access_help.html,* from a tftp server at 209.165.200.225, to the URL that stores the Application Access help content in flash memory. The URL includes the abbrevation *en* for the English language:

```
hostname# import webvpn webcontent /+CSCOE+/help/en/app-access-hlp.inc
tftp://209.165.200.225/application_access_help.html
!!!!* Web resource `+CSCOE+/help/en/ap-access-hlp.inc' was successfully initialized
hostname#
```

Related Commands

Command	Description
export webvpn webcontent	Exports previously imported content visible to Clientless SSL VPN users.
revert webvpn webcontent	Removes content from flash memory.
show import webvpn webcontent	Displays information about imported content.