

Service Selection Gateway Commands

This chapter presents commands for configuring and maintaining Cisco IOS Service Selection Gateway (SSG) applications. The commands are presented in alphabetical order.

software. To define local IP po to users for which S SSG-radius-proxy c	SG is acting as a RADIUS client, use the address-pool command in		
to users for which S SSG-radius-proxy c	SG is acting as a RADIUS client, use the address-pool command in		
address-pool st	To define local IP pools that are to be used by Service Selection Gateway (SSG) to assign IP addresses to users for which SSG is acting as a RADIUS client, use the address-pool command in SSG-radius-proxy configuration mode. To remove a local IP pool, use the no form of this command.		
address-pool start-ip end-ip [domain domain-name] no address-pool start-ip end-ip [domain domain-name]			
			-
start-ip	First IP address of the local IP address pool.		
end-ip	Last IP address of the local IP address pool.		
domain	(Optional) IP address pool for a specific domain.		
domain-name	(Optional) Name of the domain.		
Release	-		
Release 12.2(4)B	Modification		
12.2(4)B	Modification This command was introduced.		
	Modification		
12.2(4)B 12.2(13)T	Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2 T.		
12.2(4)B 12.2(13)T 12.4 15.0(1)M Use this command to	Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2 T. This command was integrated into Cisco IOS Release 12.4.		
12.2(4)B 12.2(13)T 12.4 15.0(1)M Use this command to SSG is acting as a R	Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2 T. This command was integrated into Cisco IOS Release 12.4. This command was removed. o configure SSG to assign an IP address taken from a local pool to a user for which		
12.2(4)B 12.2(13)T 12.4 15.0(1)M Use this command to SSG is acting as a R been assigned by on	Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2 T. This command was integrated into Cisco IOS Release 12.4. This command was removed. to configure SSG to assign an IP address taken from a local pool to a user for which ADIUS client. SSG assigns an IP address from a local pool only when one has not		
12.2(4)B 12.2(13)T 12.4 15.0(1)M Use this command to SSG is acting as a R been assigned by on • Assignment in t	Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2 T. This command was integrated into Cisco IOS Release 12.4. This command was removed. o configure SSG to assign an IP address taken from a local pool to a user for which ADIUS client. SSG assigns an IP address from a local pool only when one has not e of the following methods:		
12.2(4)B 12.2(13)T 12.4 15.0(1)M Use this command to SSG is acting as a R been assigned by on • Assignment in t • Assignment in t	Modification This command was introduced. This command was integrated into Cisco IOS Release 12.2 T. This command was integrated into Cisco IOS Release 12.4. This command was removed. o configure SSG to assign an IP address taken from a local pool to a user for which ADIUS client. SSG assigns an IP address from a local pool only when one has not e of the following methods: he Access-Accept from the AAA server		
	end-ip lomain		

You can use this command to define a global local IP address pool or an IP address pool for a specific domain by using the **domain** keyword. You cannot create pools with more than 20,000 addresses.

Note

Using IP address pools within SSG is completely standalone and unrelated to Cisco IOS IP local pools.

Examples	The following example shows how to configure a local IP address pool for SSG: address-pool 172.16.16.0 172.16.20.0				
	The following example shows how to con address-pool 172.21.21.0 172.21.25.0	nfigure a local IP address pool for the domain named "cisco".			
Related Commands	Command	Description			
	clear ssg radius-proxy client-address	Clears all hosts connected to a specific RADIUS client.			
	clear ssg radius-proxy nas-address	Clears all hosts connected to a specific NAS.			
	forward accounting-start-stop	Proxies accounting start, stop, and update packets generated by any RADIUS clients to the AAA server.			
	idle-timeout (SSG)	Configures a host object timeout value.			
	server-port	Defines the ports for the SSG RADIUS proxy.			
	show ssg tcp-redirect group	Displays the pool of IP addresses configured for a router or a specific domain.			
	ssg enable	Enables SSG.			
	ssg radius-proxy	Enables SSG RADIUS Proxy.			
	ssg tcp-redirect	Configures the RADIUS proxy IP address and shared secret.			

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attribute

Note	Effective with Cisco IOS Release 15.0(1)M, the attribute command is not available in Cisco IOS software.			
	To configure an attribute in a local service profile, use the attribute command in profile configuration mode. To delete an attribute from a service profile, use the no form of this command. attribute <i>radius-attribute-id</i> [<i>vendor-id</i>] [<i>cisco-vsa-type</i>] <i>attribute-value</i>			
	no attribute radius-attribute-id [vendor-id] [cisco-vsa-type] attribute-value			
Syntax Description	radius-attribute	<i>-id</i> RADIUS attribute ID to be configured.		
	vendor-id	(Optional) Vendor ID. Required if the RADIUS attribute ID is 26, indicating a vendor-specific attribute (VSA). The Cisco vendor ID is 9.		
	cisco-vsa-type	(Optional) Cisco VSA type. Required if the vendor ID is 9, indicating a Cisco VSA.		
	attribute-value	Attribute value. The following optional attribute values are also supported:		
		• Linterval—Required to change an interim accounting interval. Specifies the new accounting interval in seconds.		
		• Q—Configures the token bucket parameters for the Service Selection Gateway (SSG) Hierarchical Policing feature.		
Defaults	For the Linterval option: If the L option is not defined, the accounting records for a service profile will be sent at the interval configured by the ssg accounting interval command. If the ssg accounting interval command is not set, the accounting records are sent every 600 seconds. Otherwise, no default behavior or values are set.			
Command Modes				
Command History	Release	Modification		
Command History	Release 12.0(3)DC	Modification This command was introduced on the Cisco 6400 NRP.		
Command History				
Command History	12.0(3)DC	This command was introduced on the Cisco 6400 NRP.		
Command History	12.0(3)DC 12.2(4)B	This command was introduced on the Cisco 6400 NRP.The L and Q attributes were introduced as an <i>attribute-value</i> .		
Command History	12.0(3)DC 12.2(4)B 12.2(8)T	This command was introduced on the Cisco 6400 NRP. The L and Q attributes were introduced as an <i>attribute-value</i> . This command was integrated into Cisco IOS Release 12.2(8)T.		
Command History	12.0(3)DC 12.2(4)B 12.2(8)T 12.2(13)T	This command was introduced on the Cisco 6400 NRP.The L and Q attributes were introduced as an <i>attribute-value</i> .This command was integrated into Cisco IOS Release 12.2(8)T.This command was modified for Cisco IOS Release 12.2(13)T.		

Usage	Guidelines	U

Use this command to configure attributes in local service profiles.

For the SSG Open Garden feature, use this command to configure the Service Route, DNS Server Address, and Domain Name attributes in a local service profile before adding the service to the open garden.

To change the SSG accounting interval for a service profile, use the *Linterval* option in the **attribute** command. For example, if L80 is entered as the attribute value, the service profile sends accounting information every 80 seconds. Interim accounting can be disabled by entering the value (in seconds) as 0 (for instance, L0). When interim accounting is disabled, the normal accounting stops and starts are still sent.

For the SSG Hierarchical Policing feature, use the Q option to configure the token bucket parameters (token rate, normal burst, and excess burst). The syntax for the Q option is as follows:

Router(config-prof)# **attribute** radius-attribute-id vendor-id cisco-vsa-type "**QU**;upstream-committed-rate;upstream-normal-burst; [upstream-excess-burst];**D**;downstream-committed-rate; downstream-normal-burst;[downstream-excess-burst]"

The variables are used to configure upstream (U) and downstream (D) policing. The upstream traffic is the traffic that travels from the subscriber to the network, and the downstream traffic is the traffic that travels from the network to the subscriber.

Examples

In the following example, the Cisco AV pair Upstream Access Control List (inacl) attribute is configured in the local service profile called "cisco.com":

Router(config)# local-profile cisco.com Router(config-prof)# attribute 26 9 1 "ip:inacl#101=deny tcp 10.2.1.0 0.0.0.255 any eq 21"

In the following example, the Session-Timeout attribute is deleted from the local service profile called "cisco.com":

```
Router(config)# local-profile cisco.com
Router(config-prof)# no attribute 27 600
```

In the following example, the local profile "cisco.com" is configured to send an interim accounting update every 90 seconds:

```
Router(config)# local-profile cisco.com
Router(config-prof)# attribute 26 9 1 "L90"
```

In the following example, the SSG Hierarchical Policing parameters are set for upstream and downstream traffic:

```
Router(config)# local-profile cisco.com
Router(config-prof)# attribute 26 9 251 "QU:8000:16000:20000:D10000:20000:30000"
```

In the following example, an open garden service called "opencisco.com" is defined.

```
Router(config)# local-profile opencisco.com
Router(config-prof)# attribute 26 9 251 "Oopengarden1.com"
Router(config-prof)# attribute 26 9 251 "D10.13.1.5"
Router(config-prof)# attribute 26 9 251 "R10.1.1.0;255.255.255.0"
Router(config-prof)# exit
Router(config)# ssg open-garden opencisco.com
```

Related Commands

Command	Description	
debug ssg data	Displays SSG QoS information.	
local-profile	Configures a local service profile.	
show ssg connection	Displays information about a particular SSG connection, including the policing parameters.	
show ssg host	Displays information about an SSG host, including whether policing is enabled or disabled and the policing configurations of a particular host.	
show ssg open-garden	Displays a list of all configured open garden services.	
ssg accounting interval	Specifies the interval at which accounting updates are sent to the server.	
ssg open-garden	Designates a service, defined in a local service profile, to be an open garden service.	
ssg qos police	Enables SSG Hierarchical Policing on a router.	

authorization list

Usage Guidelines	The server group mu commands.	ast be configured using authentication, authorization, and accounting (AAA)		
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	The server group must be configured using authentication, authorization, and accounting (AAA)			
	13.0(1)//			
	12.3(7)T 15.0(1)M	This command was integrated into Cisco IOS Release 12.3(7)T. This command was removed.		
	12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.		
	12.3(1a)BW	This command was introduced.		
Command History	Release	Modification		
Command Modes	Transparent auto-logon configuration			
Defaults	The default server group is used for user authorization.			
		autologon users.		
Syntax Description	list-name	Name of the server group that will be used for authorization of transparent		
	no authorizatio	on list list-name		
	Effective with Cisco IOS Release 15.0(1)M, the authorization list command is not available in Cisco IOS software. To specify the server group that Service Selection Gateway (SSG) uses for authorization of transparent autologon users, use the authorization list command in transparent auto-logon configuration mode. To remove the server group specification, use the no form of this command. authorization list <i>list-name</i>			
Note				
Noto	Effective with Cisco	IOS Release 15 0(1)M the authorization list command is not available in Cisco		
<u></u>				

authorization pending maximum

Note

Effective with Cisco IOS Release 15.0(1)M, the **authorization pending maximum** command is not available in Cisco IOS software.

To specify the maximum number of Service Selection Gateway (SSG) transparent autologon access requests that can be pending at a given time, use the **authorization pending maximum** command in transparent auto-logon configuration mode. To remove the specification, use the **no** form of this command.

authorization pending maximum number

no authorization pending maximum number

Syntax Description	number	Maximum number of access requests that can be pending at a given time. Range is 1 to 5000.
Defaults	No maximum limit is se	t.
Command Modes	Transparent auto-logon	configuration
Command History	Release	Modification
	12.3(1a)BW	This command was introduced.
	12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.
	12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.
	15.0(1)M	This command was removed.
Usage Guidelines	When the number of SSG transparent autologon access requests reaches the configured maximum, S issues a system logging message. Any received packets that cause SSG to send a new RADIUS requare dropped at the Cisco Express Forwarding (CEF) path.	
Examples	• •	specifies that the maximum number of access requests that can be pending is 10:
	Router(config-login-t	ransparent)# authorization pending maximum 10
Related Commands	Command	Description

authorization rate-limit

•	
Ν	lote

Effective with Cisco IOS Release 15.0(1)M, the **authorization rate-limit** command is not available in Cisco IOS software.

To specify the maximum number of Service Selection Gateway (SSG) transparent autologon authorization requests sent per second to the authentication, authorization, and accounting (AAA) server, use the **authorization rate-limit** command in transparent auto-logon configuration mode. To remove the specification, use the **no** form of this command.

authorization rate-limit number

no authorization rate-limit number

Syntax Description	number	Maximum number of authorization requests sent per second. Range is from 1 to 10000.
Defaults	No rate limit is set.	
Command Modes	Transparent auto-logon configuration	
Command History	Release	Modification
-	12.3(1a)BW	This command was introduced.
	12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.
	12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.
	15.0(1)M	This command was removed.
Usage Guidelines	per second. When the nu	configured on the basis of the number of requests that the AAA server can handle mber of authorization requests per second reaches the configured rate limit, SSG . A syslog message is generated only once for each time the rate-limit value is
Examples	The following example specifies that the maximum number of authorization requests is 10: Router(config-login-transparent)# authorization rate-limit 10	
Related Commands	Command	Description
	ssg login transparent	Enables the SSG Transparent Autologon feature.

clear ssg connection

Note

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg connection** command is not available in Cisco IOS software.

To remove the connections of a given host and a service name, use the **clear ssg connection** command in privileged EXEC mode.

clear ssg connection *ip-address service-name* [*interface*]

Syntax Description	ip-address	IP address of an active Service Selection Gateway (SSG) connection.
	service-name	Name of an active SSG connection.
	interface	(Optional) Interface to which the host is connected.

Command Modes Privileged EXEC (#)

12.0(3)DC	This command was introduced on the Cisco 6400 node route processor.
12.2(2)B	The <i>interface</i> argument was added.
12.2(4)B	This command was integrated into Cisco IOS Release 12.2(4)B.
12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T.
12.4	This command was integrated into Cisco IOS Release 12.4.
15.0(1)M	This command was removed.
	12.2(2)B 12.2(4)B 12.2(8)T 12.4

Examples The following example shows how to remove the service connection for "Service1" to host 192.168.1.1, connected through Fast Ethernet:

Router# clear ssg connection 192.168.1.1 fastethernet Service1

Related Commands	Command	Description
	show ssg connection	Displays the connections of a given host and a service name.

clear ssg host



Effective with Cisco IOS Release 15.0(1)M, the **address-pool** command is not available in Cisco IOS software.

To remove a Service Selection Gateway (SSG) host object or a range of host objects, use the **clear ssg host** command in privileged EXEC mode. The command syntax of the **clear ssg host** command depends on whether the SSG port-bundle host key has been enabled with the **ssg port-map** global configuration command.

SSG Host Key Is Not Enabled

clear ssg host {all | range start-ip-address end-ip-address}

SSG Host Key Is Enabled

clear ssg host {all | *ip-address* | range [*start-ip-address* end-*ip-address* [*interface*]]}

Syntax Description	all	Clears all SSG host objects.
	ip-address	Clears the specified SSG host object. This option is available only when SSG host key functionality is enabled.
	range	Clears a specified range of SSG host objects.
	start-ip-address	Host IP address. This argument specifies the beginning of an IP address range if it is followed by an <i>end-ip-address</i> value.
	end-ip-address	(Optional) Host IP address that is used with the <i>ip-address</i> argument to specify a range of host objects.
	interface	(Optional) SSG downlink interface through which the host or subscriber is connected, such as ATM, Fast Ethernet, or Virtual-Access. For more information, use the question mark (?) online help function.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.0(3)DC	This command was introduced on the Cisco 6400 node route processor.
	12.2(2)B	The <i>interface</i> argument was added for the SSG Host Key feature.
	12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T.
	12.2(15)B	This command was modified by the introduction of
		• Syntax dependence on SSG host key
		• The <i>start-ip-address</i> and <i>end-ip-address</i> arguments
		• The all keyword
	12.3(4)T	The modifications made in release 12.2(15)B were integrated into Cisco IOS Release 12.3(4)T.

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Release	Modification
12.4	This command was integrated into Cisco IOS Release 12.4.
15.0(1)M	This command was removed.

Usage Guidelines

Use this command to remove one, all, or a range of SSG host objects. You can specify the host objects to remove by entering the host IP addresses or the SSG downlink interface through which the subscriber is connected.

Note

The system deletes the specified host objects that exist *at the time* that you enter this command. The system may not delete host objects that are created *after* you enter the command or while the system is executing the command. Enter the **show ssg host** command to confirm that all specified host objects have been deleted.

You can specify the SSG downlink interface only when the SSG Host Key feature is enabled. To enable the host key, enter the **ssg port-map** command in global configuration mode. To disable the host key, enter the **no ssg port-map** command.



The ssg port-map command does not take effect until after the router is reloaded.

Examples

SSG Port-Bundle Host Key Is Not Enabled

The following example shows how to delete host objects for a range of IP addresses:

Router# clear ssg host range 10.0.0.2 10.0.0.20

The following example shows how to delete all host objects:

Router# clear ssg host all

SSG Port-Bundle Host Key Is Enabled

The following example shows how to delete all host objects:

Router# clear ssg host all

The following example shows how to delete all host objects for subscribers connected through IP address 10.0.0.2:

Router# clear ssg host 10.0.0.2

The following example shows how to delete host objects for a specific range of IP addresses:

Router# clear ssg host range 10.0.0.2 10.0.0.20

The following example shows how to delete host objects for a specific IP address range and interface: Router# clear ssg host range 10.0.0.2 10.0.0.20 FastEthernet 0/0

Related Commands	Command	Description
	show ssg host	Displays information about a subscriber and current connections of the subscriber.
	ssg port-map	Enables the SSG port-bundle host key.

clear ssg next-hop

Note	Effective with Cisco IOS Release 15.0(1)M, the clear ssg next-hop command is not available in Cisco IOS software.		
	To remove a next-hop t	able, use the clear ssg next-hop command in privileged EXEC mode.	
	clear ssg next-hop		
Syntax Description	This command has no a	irguments or keywords.	
Command Modes	Privileged EXEC (#)		
Command History	Release	Modification	
	12.0(3)DC	This command was introduced on the Cisco 6400 node route processor.	
	12.2(4)B	This command was integrated into Cisco IOS Release 12.2(4)B.	
	12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	next-hop command. He	Id to clear the next-hop table, nothing appears when you use the show ssg owever, the next-hop table will still appear in the running configuration. To ble from the running configuration, use the no form of the ssg next-hop	
Examples	The following example shows how to remove the next-hop table: Router# clear ssg next-hop		
Related Commands	Command	Description	
	show ssg next-hop	Displays the next-hop table.	

clear ssg open-garden

Note	Effective with Cisco IOS Release 15.0(1)M, the clear ssg open-garden command is not available in Cisco IOS software. To remove open garden configurations and all open garden service objects, use the clear ssg open-garden command in privileged EXEC mode. clear ssg open-garden			
Syntax Description		has no arguments or keywords.		
Command Modes	Privileged EXEC (#)			
Command History	Release	Modification		
	12.1(5)DC	This command was introduced on the Cisco 6400 series node route processor.		
	12.2(4)B	This command was integrated into Cisco IOS Release 12.2(4)B.		
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.		
	12.4	This command was integrated into Cisco IOS Release 12.4.		
	15.0(1)M	This command was removed.		
Usage Guidelines	global configura	emoves the open garden configuration by deleting all instances of the ssg open-garden ation command. This command also removes the service object of all the open garden cal service profiles of the open garden services are not deleted from the configuration.		
Examples	In the following	example, all open garden services are displayed and then removed:		
	Router# show ssg open-garden			
	nrp1-nrp2_og1 nrp1-nrp2_og2 nrp1-nrp2_og3 nrp1-nrp2_og4 Router# clear Router# show s Router#	ssg open-garden sg open-garden		
	1.04001 #			
Related Commands	Command	Description		
· · · · · · · · · · · · · · · · · · ·	local-profile	Configures a local service profile.		
	iocai-prome	configures a rocar service prome.		

Command	Description
show ssg open-garden	Displays a list of all configured open garden services.
ssg open-garden	Designates a service, defined in a local service profile, as an open garden service.

clear ssg pass-through-filter

Note	

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg pass-through-filter** command is not available in Cisco IOS software.

To remove the downloaded filter for transparent pass-through, use the **clear ssg pass-through-filter** command in privileged EXEC mode.

clear ssg pass-through-filter

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.0(3)DC	This command was introduced on the Cisco 6400 node route processor.
	12.2(4)B	This command was integrated into Cisco IOS Release 12.2(4)B.
	12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.

Usage Guidelines Removing the filter allows unauthenticated traffic to pass through the Service Selection Gateway in either direction without modification. If you use this command to clear the downloaded transparent pass-through filter, nothing will be displayed when you use the **show ssg pass-through-filter** command. However, the transparent pass-through filter will still appear in the running configuration. To remove the transparent pass-through filter from the running configuration, use the **no** form of the **ssg pass-through** command.

Examples The following example shows how to remove the downloaded transparent pass-through filter: Router# clear ssg pass-through-filter

Related Commands	Command	Description	
	show ssg pass-through-filter	Displays the downloaded filter for transparent pass-through.	
	ssg pass-through	Enables transparent pass-through.	

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clear ssg pending-command

Note	Effective with Cisco IOS Release 15.0(1)M, the clear ssg pending-command command is not available in Cisco IOS software. To remove all pending commands, use the clear ssg pending-command command in privileged EXEC mode.		
	clear ssg pend	ding-command	
Syntax Description	This command has	s no arguments or keywords.	
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification	
	12.0(3)DC	This command was introduced on the Cisco 6400 node route processor.	
	12.2(4)B	This command was integrated into Cisco IOS Release 12.2(4)B.	
	12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	Use this command	to clear pending commands.	
Examples	The following example shows how to clear pending commands:		
	Router# clear ss	g pending-command	
Related Commands	Command	Description	
	show ssg pending	-command Displays current pending commands.	

clear ssg prepaid default-quota

Note	Effective with Cisco IOS Release 15.0(1)M, the clear ssg prepaid default-quota command is not available in Cisco IOS software.		
		election Gateway (SSG) prepaid default quota counters, use the clear ssg prepaid and in privileged EXEC mode.	
	clear ssg prepaid	default-quota	
Syntax Description	This command has no	arguments or keywords.	
Command Modes	Privileged EXEC (#)		
Command History	Release	Modification	
-	12.3(11)T	This command was introduced.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	allotted. One counter i times the prepaid serve number of default quo	unters to keep track of the number of times the SSG prepaid default quota has been s for the total number of default quotas allotted by SSG (irrespective of how many er has become available and unavailable). The other counter keeps track of the tas allotted by SSG during the latest instance of prepaid server unavailability. The ault-quota command clears the SSG default quota counters.	
		I default-quota command displays the number of default quotas that SSG has t time the clear ssg prepaid default-quota command was entered.	
Examples	The following exampl	e shows how to clear the default quota counter for all quotas allocated by SSG:	
	Router# clear ssg p :	repaid default-quota	
Related Commands	Command	Description	
	show ssg prepaid default-quota	Displays the values of the SSG prepaid default quota counters.	

clear ssg radius-proxy client-address

N	ote

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg radius-proxy client-address** command is not available in Cisco IOS software.

To clear all hosts connected to a specific RADIUS client, use the **clear ssg radius-proxy client-address** command in privileged EXEC mode.

client ssg radius-proxy client-address ip-address

Syntax Description	ip-address	IP address of a RADIUS client.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	12.2(4)B	This command was introduced.
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Examples	address 172.16.0.0:	shows how to clear all hosts connected to the RADIUS client that has the IP
Related Commands	Command	Description
	address-pool	Defines local IP pools to be used by SSG to assign IP addresses to users for which SSG is acting as a RADIUS client.
	clear ssg radius-proxy nas-address	Clears all hosts connected to a specific NAS.
	idle-timeout (SSG)	Configures a host object timeout value.
	show ssg tcp-redirect	Displays the pool of IP addresses configured for a router or for a specific domain.
	group ssg enable	Enables SSG.
	ssg radius-proxy	Enables SSG RADIUS Proxy.
	ssg tcp-redirect	Configures the RADIUS proxy IP address and shared secret.
	ssg icp-reuneci	Configures the KADIUS proxy if address and shared secret.

clear ssg radius-proxy nas-address

<u>Note</u>

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg radius-proxy has-address** command is not available in Cisco IOS software.

To clear all hosts connected to a specific network access server (NAS), use the **clear ssg radius-proxy nas-address** command in privileged EXEC mode.

client ssg radius-proxy nas-address ip-address

Syntax Description	ip-address	IP address of a RADIUS client.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	12.2(4)B	This command was introduced.
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Note	removed from the SSG.	yay (SSG) does not currently notify RADIUS clients when a host object is
Examples	The following example	shows how to clear all hosts connected to the NAS with IP address 172.16.0.0:
	clear ssg radius-prox	y nas-address 172.16.0.0
Related Commands	Command	Description
	address-pool	Defines local IP pools to be used by SSG to assign IP addresses to users for which SSG is acting as a RADIUS client.
	clear ssg radius-proxy nas-address	Clears all hosts connected to a specific RADIUS client.
	forward accounting-start-stop	Proxies accounting start, stop, and update packets generated by any RADIUS clients to the AAA server.
	idle-timeout (SSG)	Configures a host object timeout value.

Γ

server-port	Defines the ports for the SSG RADIUS proxy.
show ssg tcp-redirect group	Displays the pool of IP addresses configured for a router or for a specific domain.
ssg enable	Enables SSG.
ssg radius-proxy	Enables SSG RADIUS Proxy.
ssg tcp-redirect	Configures the RADIUS proxy IP address and shared secret.

clear ssg service

Note

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg service** command is not available in Cisco IOS software.

To remove a service object and all connection objects of the service, use the **clear ssg service** command in privileged EXEC mode.

clear ssg service {service-name | all}

Syntax Description	service-name	Service name.
	all	Clears all service objects.
Command Modes	Privileged EXEC (#)
Command History	Release	Modification
	12.0(3)DC	This command was introduced on the Cisco 6400 node route processor.
	12.2(4)B	This command was integrated into Cisco IOS Release 12.2(4)B.
	12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T.
	12.2(15)B	The all keyword was added.
	12.3(4)T	The all keyword was integrated into Cisco IOS Release 12.3(4)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Jsage Guidelines <u>Note</u>	When you use the a l this command. The	o remove one or all service objects and all connection objects of the services. Il keyword, the system deletes all service objects that exist <i>at the time</i> that you enter system may not delete service objects that are created <i>after</i> you enter the command is executing the command. Enter the show ssg service command to confirm that all been deleted.
Examples	The following exam Router# clear ssg	ple show how to remove all service objects and connections: service all

The following example shows how to remove a service called "Perftest":

Router# clear ssg service Perftest

Related Commands	Command	Description
	show ssg binding	Displays service names that have been bound to interfaces and the interfaces to which they have been bound.
	show ssg service	Displays the information for a service.
	ssg bind service	Specifies the interface for a service.

L

clear ssg user transparent all

Note	

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg user transparent all** command is not available in Cisco IOS software.

To delete all Service Selection Gateway (SSG) transparent autologon transparent pass-through (TP), suspect (SP), unidentified (NR), and authorizing (WA) users, use the **clear ssg user transparent all** command in privileged EXEC mode.

clear ssg user transparent all

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.3(1a)BW	This command was introduced.
	12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.
	12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.

Usage Guidelines Use this command to clear all SSG transparent autologon users, including pass-through (TP), suspect (SP), unidentified (NR), and authorizing (WA) users.

Examples The following example deletes all TP, SP, NR, and WA users: Router# clear ssg user transparent all

Related Commands	Command	Description
	ssg login transparent	Enables the SSG Transparent Autologon feature.

Γ

clear ssg user transparent passthrough

Note

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg user transparent passthrough** command is not available in Cisco IOS software.

To delete Service Selection Gateway (SSG) transparent autologon transparent pass-through (TP) users, use the **clear ssg user transparent passthrough** command in privileged EXEC mode.

clear ssg user transparent passthrough {all | *ip-address*}

Syntax Description	all	Deletes all pass-through user entries.
	ip-address	Deletes the entry for the specified IP address.
ommand Modes	Privileged EXEC (#)	
ommand History	Release	Modification
	12.3(1a)BW	This command was introduced.
	12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.
	12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Examples	The following example of	deletes all pass-through user entries: r transparent passthrough all
Related Commands	Command	Description

clear ssg user transparent suspect

```
Note
```

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg user transparent suspect** command is not available in Cisco IOS software.

To delete Service Selection Gateway (SSG) transparent autologon suspect (SP) user entries, use the **clear ssg user transparent suspect** command in privileged EXEC mode.

clear ssg user transparent suspect {all | ip-address}

Syntax Description	all	Deletes all suspect user entries.
-	ip-address	Deletes the entry for the specified IP address.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	12.3(1a)BW	This command was introduced.
	12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.
	12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Usage Guidelines	_	ologon suspect (SP) user is a user whose authentication, authorization, and orization resulted in an Access Reject.
Examples	The following example	deletes all suspect user entries:
	Router# clear ssg use	r transparent suspect
Related Commands	Command	Description
	ssg login transparent	Enables the SSG Transparent Autologon feature.

Γ

clear ssg user transparent unidentified

Note

Effective with Cisco IOS Release 15.0(1)M, the **clear ssg user transparent unidentified** command is not available in Cisco IOS software.

To delete all Service Selection Gateway (SSG) transparent autologon unidentified user (NR) entries, use the **clear ssg user transparent unidentified** command in privileged EXEC mode.

clear ssg user transparent unidentified {all | *ip-address*}

all	Deletes all unidentified user entries.
ip-address	Deletes the entry for the specified IP address.
Privileged EXEC (#)	
Release	Modification
12.3(1a)BW	This command was introduced.
12.3(3)B	This command was integrated into Cisco IOS Release 12.3(3)B.
12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.
12.4	This command was integrated into Cisco IOS Release 12.4.
15.0(1)M	This command was removed.
The following example of	clears all unidentified user entries:
Router# clear ssg use	r transparent unidentified all
Command	Description
	Release 12.3(1a)BW 12.3(3)B 12.3(7)T 12.4 15.0(1)M

client-address

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Effective with Cisco IOS Release 15.0(1)M, the **client-address** command is not available in Cisco IOS software.

To configure a RADIUS client to proxy requests from a specified IP address to a RADIUS server and to enter SSG-radius-proxy-client configuration mode, use the **client-address** command in SSG-radius-proxy configuration mode. To remove a client from the client list, use the **no** form of this command.

client-address ip-address [vrf vrf-name]

no client-address *ip-address*

Syntax Description	<i>ip-address</i> IP address of a RADIUS client.	
	vrf vrf-name	(Optional) Associates a configured VPN routing/forwarding (VRF) instance with a RADIUS client.

Defaults No default behavior or values.

Command Modes SSG-radius-proxy configuration

Command History	Release	Modification
	12.2(4)B	This command was introduced.
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.
	12.2(15)B	This command was modified to enter SSG-radius-proxy-client mode.
	12.3(4)T	The modifications from 12.2(15)B were integrated into Cisco IOS Release 12.3(4)T.
	12.3(11)T	The vrf-name option was introduced.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.

Usage Guidelines Use this command to configure the RADIUS client to proxy requests from a specified IP address to a RADIUS server. You can also use this command to enter SSG-radius-proxy-client mode.

Examples

The following example shows how to enter SSG-radius-proxy-client mode: client-address 172.16.0.0

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The following example shows how to configure a RADIUS client to proxy all requests from IP address 172.16.0.0 to the RADIUS server and assigns the shared secret "cisco" to the client:

client-address 172.16.0.0 key cisco

The following example defines a RADIUS client that is connected to SSG through a VRF called "BLUE":

```
ip vrf BLUE
  rd 1:1
!
ssg radius-proxy
  client-address 10.1.1.1 vrf BLUE
  key cisco
!
```

Related Commands	Command	Description
	address-pool	Defines local IP pools to be used by SSG to assign IP addresses to users for whom SSG is acting as a RADIUS client.
	clear ssg radius-proxy client-address	Clears all hosts connected to a specific RADIUS client.
	host-route insert	Inserts a host route via the RADIUS client address into the VRF configured for the RADIUS client.
	key (SSG-radius-proxy-client)	Configures the shared secret between SSG and a RADIUS client.
	server-port	Configures the ports on which SSG listens for RADIUS-requests from configured RADIUS clients.
	session-identifier (SSG-radius-proxy-client)	Overrides SSG's automatic RADIUS client session identification.
	show ssg radius-proxy	Displays the pool of IP addresses configured for a router or for a specific domain.
	ssg radius-proxy	Enables SSG RADIUS Proxy and enters SSG-radius-proxy mode.

destination access-list

Note	Effective with Cisco IC Cisco IOS software.	DS Release 15.0(1)M, the destination access-list command is not available in
	use the destination ac	port-mapping by specifying an access list to compare against subscriber traffic, cess-list command in SSG portmap configuration mode. To remove this of form of this command.
	destination access	s-list access-list-number
	no destination acc	cess-list access-list-number
Syntax Description	access-list-number	Integer from 100 to 199 that is the number or name of an extended access list.
Defaults	SSG does not use an ac	ccess list when port-mapping subscriber traffic.
Command Modes	SSG portmap configura	ation
Command History	Release	Modification
	12.2(16)B	This command was introduced. This command replaces the ssg port-map destination access-list command.
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Usage Guidelines	When the destination matching the access lis	access-list command is configured, any traffic going to the default network and t will be port-mapped.
	Note A default netw effective.	ork must be configured and routable from SSG in order for this command to be
	-	ntries of the destination access-list command. The access lists are checked raffic in the order in which they are defined.
Examples	In the following examp ssg port-map destination access- source ip Ethernet0 !	

. . ! access-list 100 permit ip 10.0.0.0 0.255.255.255 host 70.13.6.100 access-list 100 deny ip any any

Command	Description
destination range	Identifies packets for port-mapping by specifying the TCP port range to compare against the subscriber traffic.
ssg port-map	Enables the SSG port-bundle host key and enters SSG portmap configuration mode.

destination range

Note	Effective with Cisco Cisco IOS software.	IOS Release 15.0(1)M, the destination range command is not available in
	traffic, use the destin	or port-mapping by specifying the TCP port range to compare against the subscriber nation range command in SSG portmap configuration mode. To remove this no form of this command.
	destination rang	ge port-range-start to port-range-end [ip ip-address]
	no destination r	ange port-range-start to port-range-end [ip ip-address]
Syntax Description	port-range-start	Port number at the start of the TCP port range.
	to	Specifies higher end of TCP port range.
	port-range-end	Port number at the end of TCP port range.
	ip <i>ip</i> -address	(Optional) Destination IP address in the packets.
Command Modes	SSG portmap configu	
Command History	Release	Modification
	12.2(16)B	This command was introduced. This command replaces the ssg port-map destination range command.
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Usage Guidelines		dress is not configured, a default network must be configured and routable from command to be effective.
		ddress is not configured, any traffic going to the default network whose destination lestination port range will be port-mapped.
		entries of the destination range command. The port ranges are checked against in the order in which they were defined.

Examples

In the following example, SSG will port-map any packets that are going to the default network and have a destination port within the range from 8080 to 8081:

ssg port-map destination range 8080 to 8081

Related Commands	Command	Description
	destination access-list	Specifies packets for port-mapping by specifying an access list to compare against the subscriber traffic.
	ssg port-map	Enables the SSG port-bundle host key and enters SSG portmap configuration mode.

dnis-prefix all service

Note	Effective with Cisco IOS Release 15.0(1)M, the dnis-prefix all service command is not available in Cisco IOS software.			
	configuration mode.	To configure the dial-out global service, use the dnis-prefix all service command in SSG dial-out configuration mode. To remove a service name and prevent further connections to the specified service, use the no form of this command.		
	dnis-prefix all	service service-name		
	no dnis-prefix	all service [service-name]		
Syntax Description	service-name	Name of the dial-out global service.		
Defaults	Dial-out global serv	ice is not configured.		
Command Modes	SSG dial-out config	uration		
Command History	Release	Modification		
	12.2(15)B	This command was introduced.		
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.		
	12.4	This command was integrated into Cisco IOS Release 12.4.		
	15.0(1)M	This command was removed.		
Usage Guidelines	with a structured use the dial-out service.	o configure the dial-out global service used for users who are doing account logon ername (<i>user@DNIS</i>). The service profile is downloaded when the user connects to You can specify only one dial-out global service. If you configure this command use different service names each time, the previously configured service name is onfiguration.		
	profile as the dial-ou configure the virtua	in SSG Autodomain basic mode, you should configure the dial-out tunnel service at global service. If SSG is operating in SSG Autodomain extended mode, you should l-user profile as the dial-out global service and configure dial-out tunnel service as be within SSG Autodomain extended mode.		
Examples	The following exam global dial-out servi	ple shows how to configure a global dial-out service profile named "profile1" as the ice profile:		
	dnis-prefix all se	ervice profile1		

The following example shows how to configure a global dial-out service profile when SSG is operating in SSG Autodomain basic mode:

dnis-prefix all service dialout_tunnel

The following example shows how to configure a global dial-out service profile when SSG is operating in SSG Autodomain extended mode:

dnis-prefix all service virtual-user

Related Commands

Command	Purpose
download exclude-profile (ssg dial-out)	Downloads the DNIS exclusion list locally or from a AAA server.
exclude dnis-prefix	Configures the DNIS filter by adding a DNIS prefix to the DNIS exclusion list.
show ssg dial-out exclude-list	Displays information about the DNIS prefix profile and the DNIS exclusion list.
ssg dial-out	Enters SSG dial-out configuration mode.
download exclude-profile (SSG dial-out)

 Note	Effective with Cisco IOS Release 15.0(1)M, the download exclude-profile (SSG dial-out) command is not available in Cisco IOS software. To download the Dialed Number Identification Service (DNIS) exclusion list locally or from a authentication, authorization, and accounting (AAA) server, use the download exclude-profile command in SSG dial-out configuration mode. To remove the DNIS exclusion list from the configuration, use the no form of this command. download exclude-profile <i>profile-name</i> [<i>password</i>]		
	no download e	exclude-profile profile-name [password]	
Syntax Description	profile-name	Name of the DNIS exclusion list.	
	password	(Optional) Password of the DNIS exclusion list.	
Defaults	A DNIS exclusion	list is not downloaded.	
Command Modes	SSG dial-out config	guration	
Command History	Release	Modification	
	12.2(15)B	This command was introduced.	
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	Use this command to download a DNIS exclusion list from the local profile configured in Service Selection Gateway (SSG) or from a AAA server. If you do not specify a profile name and password, SSG attempts to download the profile with the previously configured profile name and password. If there is no previously configured profile name and password, the DNIS exclusion list is not downloaded.		
	You can download only one DNIS exclusion list. If you attempt to use the download exclude-profile command more than once with different profile names, only the last profile name is downloaded, and the previously downloaded profiles are removed from the configuration.		
	Use the no download exclude-profile command to remove the downloaded DNIS exclusion list from the configuration.		
	You can configure a ssg service-search	the order in which SSG searches for the DNIS exclusion list using the order command.	

The following example shows how to download a DNIS exclusion list with a profile name of "dnisprofile1" and a password of "abc":

download exclude-profile dnisprofile1 abc

Related Commands

Command	Description
dnis-prefix all service	Configures the dial-out global service.
exclude dnis-prefix	Configures the DNIS filter by adding a DNIS prefix to the DNIS exclusion list.
show ssg dial-out exclude-list	Displays information about the DNIS exclusion list.
ssg dial-out	Enters SSG dial-out configuration mode.
ssg service-search-order	Specifies the order in which SSG searches for a service profile.

download exclude-profile (SSG PTA-MD)

Note	Effective with Cisco IOS Release 15.0(1)M, the download exclude-profile (SSG PTA-MD) command is not available in Cisco IOS software.		
	authentication, auth exclude-profile cor	Termination Aggregation-Multidomain (PTA-MD) exclusion list from the norization, and accounting (AAA) server to the router, use the download nmand in SSG PTA-MD configuration mode. To remove all domains in the specified list, use the no form of this command.	
	download exclude-profile profile-name [password]		
	no download e	exclude-profile profile-name [password]	
Syntax Description	profile-name	Name of the exclusion list to download.	
	password	(Optional) Password required to download the PTA-MD exclusion list from the AAA server. If no password is entered, the password used in the previous exclusion list download will be used to download the exclusion list.	
Defaults	A PTA-MD exclusi	on list is not downloaded.	
Command Modes	SSG PTA-MD conf	iguration	
Command History	Release	Modification	
	12.2(15)B	This command was introduced.	
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	<i>user@service</i> to PP to PPP through the PPP, the domain (th exclusion list. The	on list provides the option of passing the entire structured username in the form PP for authenticating an SSG request. The entire structured username can be passed use of a PTA-MD exclusion list; if an entire structured username should be passed to be <i>@service</i> portion of the structured username) should be added to a PTA-MD download exclude-profile command is used to download an exclusion list from the of the process for adding domains to an exclusion list using the router command-line	

PTA-MD exclusion lists can also be configured directly on the AAA server.

In the following example, a PTA-MD exclusion list that already includes "cisco", "motorola", "nokia", and "voice-stream" is downloaded from the AAA server. After the exclusion list is downloaded, "microsoft" and "sun" are added to the exclusion list.

The exclusion list currently on the AAA server includes "cisco", "motorola", "nokia", and "voice-stream":

```
user = pta_md{
profile_id = 119
profile_cycle = 2
member = SSG-DEV
radius=6510-SSG-v1.1 {
check_items= {
2=cisco
}
reply_attributes= {
9,253="XPcisco"
9,253="XPmotorola"
9,253="XPmokia"
9,253="XPvoice-stream"
```

The PTA-MD exclusion list is then downloaded to the router from the AAA server. The password to download the exclusion list is "cisco". After the PTA-MD exclusion list is downloaded, "microsoft" and "sun" are added to the list using the router CLI:

```
ssg multidomain ppp
download exclude-profile pta_md cisco
exclude domain microsoft
exclude domain sun
```

The enhancements to the exclusion list are then verified:

Router# show ssg multidomain ppp exclude-list

```
Profile name :pta_md
1 cisco
2 motorola
3 nokia
4 voice-stream
Domains added via CLI :
1 microsoft
2 sun
```

Related Commands	Command	Description
	exclude (SSG PTA-MD)	Adds a domain name to the existing PTA-MD exclusion list.
	show ssg multidomain ppp exclude-list	Displays the contents of the PTA-MD exclusion list.
	ssg multidomain ppp	Enters PTA-MD configuration mode.

download exclude-profile (SSG-auto-domain)

Note	Effective with Cisco IOS Release 15.0(1)M, the downoad exclude-profile (SSG-auto-domain) command is not available in Cisco IOS software.		
	Autodomain exclus	nes or Access Point Names (APNs) to the Service Selection Gateway (SSG) ion list, use the download exclude-profile command in SSG-auto-domain e. To remove a name from the Autodomain exclusion list, use the no form of this	
	download excl	ude-profile profile-name password	
	no download e	exclude-profile profile-name password	
Syntax Description	profile-name	Name for a list of excluded names that may be downloaded from the authentication, authorization, and accounting (AAA) server.	
	password	Password for a list of excluded names that may be downloaded from the AAA server.	
Defaults	No default behavior	r or values.	
Command Modes	SSG-auto-domain c	configuration	
Command History	Release	Modification	
	12.2(4)B	This command was introduced.	
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	are excluded from the time of entering configuration comm download. For every exclude entries added the Autodomain exclude entries added	exclude-profile command to specify the name and password for a list of names that being downloaded from the AAA server. Downloads from the AAA server occur at the configuration and also on subsequent Route Processor reloads. By reentering the nand, you can synchronize with a modified table on the AAA server by forcing a new y successful exclude-profile download, Service Selection Gateway (SSG) deletes the ed by the previous exclude-profile download and adds the new downloaded entries to clusion list. The excluded name list introduces the following new attributes to the rendor-specific attributes (VSAs):	

- X—Excluded name list entry.
- A—Add this name to the APN exclusion list.
- D—Add this name to the domain name exclusion list.

The following is an example profile using the new exclusion list attributes:

```
abc Password = "cisco" Service-Type = Outbound
  Control-Info = XAapn1.gprs
  Control-Info = XAapn2.com
  Control-Info = XDcisco.com
 Control-Info = XDcompany.com
```

Examples

The following example shows how to add a list of names called "abc" with the password "cisco" to the Autodomain exclusion list:

download exclude-profile abc cisco

Related Commands

Command	Description
exclude	Configures the Autodomain exclusion list.
mode extended	Enables extended mode for SSG Autodomain.
nat user-address	Enables Network Address Translation (NAT) on Autodomain tunnel service.
select	Configures the Autodomain selection mode.
show ssg auto-domain exclude-profile	Displays the contents of an Autodomain exclude-profile downloaded from the AAA server.
ssg enable	Enables SSG functionality.

exclude

Note	Effective with Cisco IOS Release 15.0(1)M, the exclude command is not available in Cisco IOS software. To add Access Point Names (APNs) and domain names to a Service Selection Gateway (SSG) Autodomain exclusion list, use the exclude command in SSG-auto-domain mode. To remove an APN or domain name from the Autodomain exclusion list, use the no form of this command. exclude { apn domain } <i>name</i>		
	no exclude {a	apn domain} name	
Syntax Description	apn	Adds an APN to the exclusion list.	
	domain	Adds a domain to the exclusion list.	
	name	Name of the APN or domain to be added to the exclusion list.	
Command Default	No default behavio	or or values.	
Command Modes	SSG-auto-domain		
Command History	Release	Modification	
	12.2(4)B	This command was introduced.	
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	Use the exclude command to add an APN or a domain to the Autodomain exclusion list. APN and domain names that are not on an exclusion list are used to perform Autodomain for a user. You can use the no download exclude-profile command to remove a domain or APN name that is downloaded from the AAA server.		
Examples	The following example shows how to add the APN named "abc" to the exclusion list:		
	The following example shows how to add the domain named "xyz" to the exclusion list: exclude domain xyz		

Related Commands

Command	Description
exclude	Adds to the Autodomain download exclusion list.
mode extended	Enables extended mode for SSG Autodomain.
nat user-address	Enables NAT on Autodomain tunnel service.
select	Configures the Autodomain selection mode.
show ssg auto-domain exclude-profile	Displays the contents of an Autodomain exclude-profile downloaded from the AAA server.
ssg enable	Enables SSG functionality.

exclude (SSG PTA-MD)

1	Note

Effective with Cisco IOS Release 15.0(1)M, the **exclude** (SSG PTA-MD) command is not available in Cisco IOS software.

To add a domain to a PPP Termination Aggregation-Multidomain (PTA-MD) exclusion list, use the **exclude** command in SSG PTA-MD configuration mode. To remove a domain from the PTA-MD exclusion list, use the **no** form of this command.

exclude [domain name | all-domains]

no exclude [domain name | all-domains]

ntax Description	domain	(Optional) Adds a domain to the exclusion list.
	name	(Optional) Name of the domain to be added to the exclusion list.
	all-domains	(Optional) Excludes all domains; in effect, disables parsing of PPP structured usernames.
faults		
	A domain is not inc	luded in a PTA-MD exclusion list.
ommand Modes		
ommand Modes	SSG PTA-MD confi	guration
ommand Modes	SSG PTA-MD confi Release	guration Modification
ommand Modes	SSG PTA-MD confi Release 12.2(15)B	iguration Modification This command was introduced in PTA-MD configuration mode.

Usage Guidelines

A PTA-MD exclusion list provides the option of passing an entire structured username in the form *user@service* to PPP for authenticating a Service Selection Gateway (SSG) request. The entire structured username can be passed to PPP through the use of a PTA-MD exclusion list; if an entire structured username should be passed to PPP, the domain (the *@service* portion of the structured username) should be added to a PTA-MD exclusion list. The **exclude** command is used to add a domain to the exclusion list as part of the process for adding domains to an exclusion list using the router command-line interface (CLI).

PTA-MD exclusion lists can also be configured directly on the authentication, authorization, and accounting (AAA) server.

To disable all parsing of PPP structured usernames during authentication, use the **exclude all-domains** command.

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Adding Domains to an Existing PTA-MD Exclusion List

In the following example, a PTA-MD exclusion list that already includes "cisco", "motorola", "nokia", and "voice-stream" is downloaded from the AAA server. After the exclusion list is downloaded, "microsoft" and "sun" are added to the exclusion list.

The exclusion list currently on the AAA server includes "cisco", "motorola", "nokia", and "voice-stream":

```
user = pta_md{
profile_id = 119
profile_cycle = 2
member = SSG-DEV
radius=6510-SSG-v1.1 {
check_items= {
2=cisco
}
reply_attributes= {
9,253="XPcisco"
9,253="XPmotorola"
9,253="XPnokia"
9,253="XPvoice-stream"
```

In the following example, the PTA-MD exclusion list is downloaded to the router from the AAA server. The password to download the exclusion list is "cisco". After the PTA-MD exclusion list is downloaded, "microsoft" and "sun" are added to the list using the router CLI:

```
ssg multidomain ppp
download exclude-profile pta_md cisco
 exclude domain microsoft
 exclude domain sun
```

The enhancements to the exclusion list are then verified:

Router# show ssg multidomain ppp exclude-list

```
Profile name :pta_md
1
   cisco
2
   motorola
3
   nokia
4
    voice-stream
Domains added via CLI :
   microsoft
1
2
    sun
```

Disabling Parsing of PPP Structured Usernames

In the following example, parsing of PPP structured usernames is disabled:

exclude all-domains

Command

PTA-MD)

Description download exclude-profile (SSG Downloads the PTA-MD exclusion list from the AAA server to the router.

Command	Description
show ssg multidomain ppp exclude-list	Displays the contents of the PTA-MD exclusion list.
ssg multidomain ppp	Enters PTA-MD configuration mode.

exclude dnis-prefix

	dnis-prefix all servi	ce Configures the dial-out global service.	
Related Commands	Command	Description	
Examples	The following example adds the DNIS prefix "1122334455" to the DNIS exclusion list: exclude dnis-prefix 1122334455		
Usage Guidelines	Use this command to add a DNIS prefix to the DNIS exclusion list. You can use this command to ad multiple DNIS prefixes to the DNIS exclusion list. When a user dials with a DNIS whose prefix is in t DNIS exclusion list, the service logon for that user is rejected.		
	15.0(1)M	This command was removed.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.	
	12.2(15)B	This command was introduced.	
Command History	Release	Modification	
Command Modes	SSG dial-out configuration		
Defaults	No DNIS prefix is added to the DNIS exclusion list.		
Syntax Description	dnis-prefix	DNIS prefix to be added to the DNIS exclusion list.	
	-	-prefix dnis-prefix	
	exclude dnis-pro		
	DNIS exclusion list,	led Number Identification Service (DNIS) filter by adding a DNIS prefix to the use the exclude dnis-prefix command in SSG dial-out configuration mode. To x from the DNIS exclusion list, use the no form of this command.	
Note	Effective with Cisco IOS Release 15.0(1)M, the exclude dnis-prefix command is not available in Cisco IOS software.		
Noto			

Command	Description
show ssg dial-out exclude-list	Displays information about the DNIS prefix profile and the DNIS exclusion list.
ssg dial-out	Enters SSG dial-out configuration mode.

forward accounting-on-off

Note

Effective with Cisco IOS Release 15.0(1)M, the **forward accounting-on-off** command is not available in Cisco IOS software.

To allow forwarding of accounting-on-off packets generated by any RADIUS clients to the authentication, authorization, and accounting (AAA) server, use the **forward accounting-on-off** command in SSG radius-proxy mode. To suppress forwarding of accounting-on-off packets, use the **no** form of this command.

forward acc	ounting-on-off
-------------	----------------

no forward accounting-on-off

Syntax Description This command has no arguments or keywords.

Command Default Accounting-on-off packets generated by RADIUS clients are not sent to the AAA server.

Command Modes SSG radius-proxy configuration (config-radius-proxy)

Command History	Release	Modification
	12.4(15)T	This command was introduced.
	15.0(1)M	This command was removed.

Examples The following example shows how to allow packet forwarding from the RADIUS client to the AAA server:

Router(config)# **ssg enable** Router(config)# **ssg radius-proxy** Router(config-radius-proxy)# **forward accounting-on-off**

Related Commands	Command	Description
	forward	Allows accounting start, stop, and update packets generated by any RADIUS
	accounting-start-stop	clients to the AAA server.

forward accounting-start-stop

Note	Effective with Cisco IOS Release 15.0(1)M, the forward accounting-start-stop command is not available in Cisco IOS software.		
	authentication, autocommand in SSG-	ng start, stop, and update packets generated by any RADIUS clients to the thorization, and accounting (AAA) server, use the forward accounting-start-stop radius-proxy configuration mode. To stop forwarding accounting start, stop, and e the no form of this command.	
	forward accounting-start-stop		
	no forward a	ccounting-start-stop	
Syntax Description	This command has	s no arguments or keywords.	
Defaults	Forward accounting-start-stop is disabled by default.		
Command Modes	SSG-radius-proxy configuration		
Command History	Release	Modification	
	12.2(4)B	This command was introduced.	
	12.2(13)T	This command was integrated into Cisco IOS Release 12.2(13)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	Use this command to proxy accounting start, stop, and update packets generated by all RADIUS clients to the AAA server. Disabling this command reduces RADIUS packet traffic and processing for deployments where the billing server is not using these packets for billing purposes.		
<u>va</u> Note	The forward accounting-start-stop command does not affect accounting on and off packets, which an forwarded regardless of this command.		
Examples	The following example shows how to proxy accounting packets generated by all RADIUS clients to the AAA server:		
	client-address client-address	h 1645 acct 1646 10.1.2.2 key secret1 10.2.25.90 key secret2 10.0.0.1 key secret3	

client-address 10.23.3.2 key secret4 idle-timeout 30 forward accounting-start-stop address-pool 10.1.1.1 10.1.40.250 address-pool 10.1.5.1 10.1.5.30 domain ssg.com

Related Commands	Command	Description
	address-pool	Defines local IP pools to be used by SSG to assign IP addresses to users for which SSG is acting as a RADIUS client.
	clear ssg radius-proxy client-address	Clears all hosts connected to a specific RADIUS client.
	clear ssg radius-proxy nas-address	Clears all hosts connected to a specific NAS.
	idle-timeout (SSG)	Configures a host object timeout value.
	server-port	Defines the ports for the SSG RADIUS proxy.
	show ssg tcp-redirect group	Displays the pool of IP addresses configured for a router or for a specific domain.
	ssg enable	Enables SSG.
	ssg radius-proxy	Enables SSG RADIUS Proxy.

hand-off		
Note	Effective with Cissoftware.	sco IOS Release 15.0(1)M, the hand-off command is not available in Cisco IOS
		ervice Selection Gateway (SSG) RADIUS proxy handoff timeout, use the hand-off -radius-proxy-timers configuration mode. To disable the handoff timeout, use the no nand.
	hand-off time	eout
	no hand-off	timeout
Syntax Description	timeout	Timeout value, in seconds. Valid range is 1 to 30 seconds. The default is 5 seconds.
Defaults	The handoff time	out is set to 5 seconds.
Command Modes	SSG-radius-proxy	y-timers
Command History	Release	Modification
	12.2(15)B	This command was introduced.
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.
	12.4	This command was integrated into Cisco IOS Release 12.4.
	15.0(1)M	This command was removed.
Usage Guidelines	Use this command to configure an SSG RADIUS proxy handoff timeout. You can use this command when a PPP session is not disabled and the host object remains active after a base station controller (BSC) handoff.	
	A Session-Continue vendor-specific attribute (VSA) with a value of 1 in an Accounting-Stop packet indicates that a BSC/packet control function (PCF) handoff is in progress. When SSG detects the BSC/PCF handoff, it keeps the host object and begins the configured handoff timeout. If SSG does not receive an Accounting-Start for this host object before the handoff timeout expires, it deletes the host object.	
Examples	-	ample shows how to configure a handoff timeout value of 25 seconds:
	ssg radius-proxy ssg timeouts hand-off 25	Ι

Related Commands	Command	Description	
	idle	Configures a host object timeout value.	
	(SSG-radius-proxy-timers)		
	ip-address	Configures an SSG RADIUS proxy IP address timeout.	
	(SSG-radius-proxy-timers)		
	key (SSG-radius-proxy-client)	Configures a shared secret between SSG and a RADIUS client.	
	ssg radius-proxy	Enables SSG RADIUS Proxy and enters SSG-radius-proxy mode.	
	timeouts (SSG-radius-proxy)	Enters SSG-radius-proxy-timeouts mode.	

home-agent (SSG-radius-proxy)

Note	Effective with Cisco IOS Release 15.0(1)M, the home-agent (SSG-radius-proxy) command is not available in Cisco IOS software. To configure an IP address or domain for a Home Agent (HA) in a CDMA2000 network, use the home-agent command in SSG-radius-proxy configuration mode. To remove an HA address or domain, use the no form of this command.		
	home-agent {addro	ess HA-ip-address domain domain-name [address domain-ip-address]}	
	no home-agent {ad	dress HA-ip-address domain domain-name [address domain-ip-address]}	
Syntax Description	address ip-address	IP address of the local Home Agent.	
	domain domain-name	Domain of the local Home Agent.	
	address ip-address	(Optional) IP address of the domain of the Home Agent.	
Defaults	No default behavior or values.		
Command Modes	SSG-radius-proxy confi	guration	
Command History	Release	Modification	
	12.2(15)B	This command was introduced.	
	12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	(HA) IP address assignm You should also configu	nmand to configure a list of domain names for which dynamic Home Agent nent is applicable. You can configure each domain name with an HA address. re the IP address of a default local HA.	
	Use the no home-agent address command to remove any configured domain names. Use the no home-agent domain command to remove an entry for a specified domain.		
	session when it receives For authenticated users 3GPP2-Home-Agent-At domain recognized by S	vay (SSG) determines that an Access-Request packet is for a new Mobile IP a 3GPP2-Home-Agent-Attribute vendor-specific (VSA) with a value of 0.0.0.0. with a domain recognized by SSG that has a preconfigured HA address, the tribute is changed to the per-domain HA address. For authenticated users with a SG that does not have a preconfigured HA address, the tribute is changed to the IP address of the default local HA.	
	For authenticated users v is not changed.	with a domain that is not recognized by SSG, the 3GPP2-Home-Agent-Attribute	

The following example shows how to set the IP address of the default local HA to 172.16.0.0:

ssg radius-proxy home-agent address 172.16.0.0

The following example shows how to set the IP address of the HA to 172.16.0.0, for users in domain "home1.com":

ssg radius-proxy home-agent domain home1.com address 172.16.0.0

Related Commands	Command	Description
	ssg radius-proxy	Enables SSG RADIUS Proxy and enters SSG-radius-proxy mode.

host overlap

Note	Effective with Cisco IOS Release 15.0(1)M, the host overlap command is not available in Cisco IOS software.		
	overlap command in	election Gateway (SSG) to support overlapping host IP addresses, use the host a SSG port-map configuration mode. To disable support for overlapping host IP o form of this command.	
	host overlap		
	no host overlap		
Syntax Description	This command has r	no arguments or keywords.	
Defaults	Overlapping host IP addresses are supported by default when SSG port-bundle host key functionality is configured.		
Command Modes	SSG port-map confi	guration	
Command History	Release	Modification	
	12.3(8)T	This command was introduced.	
	12.4	This command was integrated into Cisco IOS Release 12.4.	
	15.0(1)M	This command was removed.	
Usage Guidelines	The SSG Port-Bundle Host Key feature enables subscribers to have overlapping IP addresses. To enable subscriber-side interface redundancy when SSG port-bundle host key functionality is configured, overlapping IP address support must be disabled so that interface binding is not needed. Use the no host overlap command to disable overlapping IP address support.		
Examples	The following example shows how to disable support for overlapping hosts when the SSG Port-Bundle Host Key feature is configured:		
	Router(config)# ssg enable Router(config)# ssg port-map Router(ssg-port-map)# no host overlap		
Related Commands	Command	Description	
	ssg port-map	Enables the SSG Port-Bundle Host Key feature and enters SSG port-map configuration mode.	