



# Service Selection Gateway Features Roadmap

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**Note**

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Effective with Cisco IOS Release 15.0(1)M, this feature is not available in Cisco IOS software.

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This feature roadmap lists the Cisco IOS features documented in the *Cisco IOS Service Selection Gateway Configuration Guide* and maps them to the documents in which they appear. The roadmap is organized so that you can select your release train and see the features in that release. Find the feature name you are searching for and click on the URL in the “Where Documented” column to access the document containing that feature.

## Feature and Release Support

[Table 1](#) lists Service Selection Gateway (SSG) feature support for the following Cisco IOS software release trains:

- [Cisco IOS Releases 12.2T, 12.3, 12.3T, 12.4, and 12.4T](#)

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS and Catalyst OS software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.



**Note**

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[Table 1](#) lists only the Cisco IOS software release that introduced support for a given feature in a given Cisco IOS software release train. Unless noted otherwise, subsequent releases of that Cisco IOS software release train also support that feature.

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**Table 1**      **Supported SSG Features**

Release	Feature Name	Feature Description	Where Documented
<b>Cisco IOS Releases 12.2T, 12.3, 12.3T, 12.4, and 12.4T</b>			
12.2(8)T	SSG Open Garden	The SSG Open Garden feature enables you to use Cisco SSG to implement open gardens, which are collections of Web sites or networks that subscribers can access as long as they have physical access to the network. Subscribers do not have to provide authentication information before accessing the Web sites in an open garden.	<a href="#">Configuring SSG for Subscriber Services</a>
	SSG TCP Redirect	The SSG TCP Redirect feature redirects certain packets, which would otherwise be dropped, to captive portals that can handle the packets in a suitable manner. For example, packets sent upstream by unauthorized users are forwarded to a captive portal that can redirect the users to a login window. Similarly, if users try to access a service to which they have not logged in, the packets are redirected to a captive portal that can provide a service login window.	<a href="#">Configuring SSG TCP Redirection Features</a>
	Per-Session Firewall	The SSG Per Session Firewall feature enables you to configure Cisco IOS software access control lists (ACLs) to prevent users, services, and pass-through traffic from accessing specific IP addresses and ports.	<a href="#">Configuring a Per-Session Firewall</a>
12.2(11)T	Initial SSG Communication	The Initial SSG Communication feature comprises initial tasks you need to perform to enable SSG on the router and to establish SSG communication with other key components of the network, including Subscriber Edge Services Manager (SESM) and the authentication, authorization, and accounting (AAA) server.	<a href="#">Implementing SSG: Initial Tasks</a>
	RADIUS Profiles and Attributes for SSG	SSG uses RADIUS Profiles and attributes for the authentication, authorization, and accounting of subscribers.	<a href="#">RADIUS Profiles and Attributes for SSG</a>
	SSG Accounting	The SSG Accounting feature allows a service provider to decide how to configure billing and accounting for its users.	<a href="#">Configuring SSG Accounting</a>
	SSG Port-Bundle Host-Key	The SSG Port-Bundle Host Key feature enhances communication and functionality between the Service Selection Gateway (SSG) and the Cisco Subscriber Edge Services Manager (SESM) by introducing a mechanism that uses the host source IP address and source port to identify and monitor subscribers.	<a href="#">Implementing SSG: Initial Tasks</a>
	SSG Prepaid Tariff Switching	The SSG Prepaid Tariff Switching feature allows changes in tariffs during the lifetime of a connection.	<a href="#">Configuring SSG Accounting</a>

**Table 1**      **Supported SSG Features (continued)**

<b>Release</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Where Documented</b>
12.2(13)T	SSG Accounting Update Interval Per Service	The SSG Accounting Update Interval Per Service feature allows the service provider to configure different accounting intervals for different services.	<a href="#">Configuring SSG Accounting</a>
	SSG AutoDomain	The SSG AutoDomain feature allows Service Selection Gateway (SSG) to authenticate subscribers automatically in the service domain.	<a href="#">Configuring SSG to Authenticate Subscribers Automatically in the Service Domain</a>
	SSG Autologon Using Proxy RADIUS	The SSG Autologon Using Proxy RADIUS feature enables SSG to act as a RADIUS proxy for non-SSD clients whose Access-Requests do not contain VSAs.	<a href="#">Configuring SSG to Serve as a RADIUS Proxy</a>
	SSG Hierarchical Policing	The SSG Hierarchical Policing feature ensures that a subscriber does not utilize additional bandwidth for overall service or for a specific service that is outside the bounds of the subscriber's contract with the service provider.	<a href="#">Configuring SSG Hierarchical Policing</a>
12.3(4)T	Postpaid Tariff Switching for SSG	The Postpaid Tariff Switching for SSG feature allows changes in tariffs during the lifetime of a connection.	<a href="#">Configuring SSG Accounting</a>
	PPP Subscriber Access	The PPP subscriber access feature supports PPP as a subscriber access protocol.	<a href="#">Configuring SSG to Authenticate PPP Subscribers</a>
	PTA-MD Exclusion List	The PTA-MD Exclusion List feature allows you to create a set of domains that are excluded from normal SSG structured username processing.	<a href="#">Configuring SSG to Authenticate PPP Subscribers</a>
	SSG AAA Server Group for Proxy RADIUS	This feature allows you to configure multiple AAA servers. You can configure each remote RADIUS server with timeout and retransmission parameters. SSG will perform failover among the servers in the predefined group.	<a href="#">Configuring SSG to Serve as a RADIUS Proxy</a>
	SSG Autologoff	The SSG Autologoff feature supports methods to log subscribers out of SSG.	<a href="#">Configuring SSG to Log Off Subscribers</a>
	SSG Direction Configuration for Interfaces and Ranges	SSG implements service selection through selective routing of IP packets to destination networks on a per-subscriber basis. SSG uses the concept of interface direction (uplink or downlink) to help determine the forwarding path of incoming packets. An uplink interface is an interface towards the services; a downlink interface is an interface towards the subscribers.	<a href="#">Implementing SSG: Initial Tasks</a>
	SSG EAP Transparency	In 802.1x WLAN deployments, SSG acts as a RADIUS Proxy during Extensible Authentication Protocol (EAP) authentication between a WLAN AP and the corresponding AAA server. Using SSG as a RADIUS Proxy in 802.1x deployments enables WLAN users to access SSG functionality after they have connected to the AP.	<a href="#">Configuring SSG to Serve as a RADIUS Proxy</a>

**Table 1**      **Supported SSG Features (continued)**

<b>Release</b>	<b>Feature Name</b>	<b>Feature Description</b>	<b>Where Documented</b>
	SSG Prepaid Enhancements	The SSG Prepaid Enhancements feature adds support for prepaid tariff switching, postpaid tariff switching, and simultaneous volume- and time-based prepaid billing to the existing SSG Prepaid feature.	<a href="#">Configuring SSG Accounting</a>
	SSG Prepaid Idle Timeout	The SSG Prepaid Idle Timeout feature enables SSG to return residual quota to the billing server from services that a user is logged into but not actively using.	<a href="#">Configuring SSG Accounting</a>
	SSG Proxy for CDMA2000	This feature enables service selection in CDMA2000 networks through enhancements to the SSG RADIUS Proxy functionality.	<a href="#">Configuring SSG to Serve as a RADIUS Proxy</a>
	SSG Service Profile Caching	The Service Profile Cache feature enables SSG to use a cached copy of a service profile instead of downloading the profile from a RADIUS server every time a user logs on to the service.	<a href="#">Configuring SSG for Subscriber Services</a>
	SSG Suppression of Unused Accounting Records	The SSG Suppression of Unused Accounting Records feature allows you to turn off unneeded Service Selection Gateway (SSG) accounting records.	<a href="#">Configuring SSG Accounting</a>
	SSG Unconfig	The SSG Unconfig feature releases and cleans up system resources acquired by SSG.	<a href="#">Implementing SSG: Initial Tasks</a>
12.3(7)T	SSG Service Logon Enhancements	The SSG Service Logon Enhancements feature enables SSG to deliver services to a subscriber after receiving valid authentication information.	<a href="#">Configuring SSG for Subscriber Services</a>
	SSG Transparent Autologon	The SSG Transparent Autologon feature enables Service Selection Gateway (SSG) to authenticate and authorize a user on the basis of the source IP address of packets received from the user.	<a href="#">Configuring SSG to Authenticate Subscribers with Transparent Autologon</a>
	DNS Redirection	The SSG DNS Redirection feature enables you to match a domain name server (DNS) request to the appropriate domain name service, based on attributes of the user requesting the service.	<a href="#">Configuring Default DNS Redirection</a>
12.3(8)T	SSG Interface Redundancy	SSG interface redundancy allows services to be associated with more than one interface to protect against link failures.	<a href="#">Implementing SSG: Initial Tasks</a>
12.3(11)T	SSG Default Quota for Prepaid Billing Server Failure	The SSG Default Quota for Prepaid Billing Server Failure feature enables SSG to be configured to allocate a default quota when the prepaid server fails to respond to an authorization request.	<a href="#">Configuring SSG Accounting</a>
12.3(14)T	Extended Prepaid Tariff Switching for SSG	The Extended Prepaid Tariff Switch for SSG feature is used to measure the usage of specific services at various times, even when the monetary value of the volume quota does not change at the time of tariff switching.	<a href="#">Configuring SSG Accounting</a>
	MAC-Address-Based Authentication for SSG	The MAC-Address-Based Authentication for SSG feature allows a service provider to authorize subscriber access to services by the subscriber's MAC address, thus eliminating the need for explicit user logins between client power cycles.	<a href="#">Configuring SSG for MAC-Address-Based Authentication</a>

**Table 1** Supported SSG Features (continued)

Release	Feature Name	Feature Description	Where Documented
	On-Demand IP Address Renewal for SSG	The SSG On-Demand IP Address Renewal feature enables service providers to manage the Dynamic Host Configuration Protocol (DHCP) pool from which a subscriber's IP address is assigned.	<a href="#">Configuring SSG On-Demand IP Address Renewal and SSG/DHCP Awareness</a>
	SSG L2TP Dial-Out	The L2TP Dial-Out feature provides mobile users with a way to securely connect to their SOHOs through the PSTN.	<a href="#">Configuring SSG for Subscriber Services</a>
	SSG Support for Subnet-Based Authentication	The SSG Support for Subnet-Based Authentication feature allows a service provider to identify subscribers to services by their subnet, rather than by a subscriber's IP address.	<a href="#">Configuring SSG Support for Subnet-Based Authentication</a>
12.4(15)T	SSG Mobile Wireless Enhancements	The SSG Mobile Wireless Enhancements feature describes additional functionality enhancements including accounting-on-off suppression, accounting-start ignore configuration, and Packet of Disconnect (PoD) forwarding to the Network Access Server (NAS).	<a href="#">SSG Mobile Wireless Enhancements</a>

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