

Cisco IOS Software Release 15.1(2)S for Cisco 7600 Series Routers

Product Bulletin No.: 657641

The Cisco® 7600 Series Routers are optimized for the transition to the IP Next-Generation Network (IP NGN) with complete features for mobile transport, business services, video, and residential triple play (data, voice, and video). Cisco IOS® Software Release 15.1(2)S continues to deliver on the vision with new operational features, improved scale, network resiliency solutions, and support for new services. You can take advantage of Cisco's latest features and invest with confidence in the Cisco 7600 Series Router.

New Features

More than 25 new features have been added, including the following important enhancements:

- Y.1731 performance monitoring for standardized measurements of frame loss, frame delay, and availability across Carrier Ethernet eliminates expensive test equipment, improves service-level agreements (SLAs), and simplifies operations.
- Dynamic Ethernet service activation creates zero-touch provisioning of Layer 2 connections with Ethernet accounting through RADIUS to create new service opportunities for wholesale, business, and mobile markets.
- Bidirectional Forwarding Detection (BFD) scale improvements for Ethernet Services Plus (ES+) provide support for more BFD sessions as well as faster failure detections to improve SLAs while saving on capital expenditures (CapEx).
- Intermediate System-to-Intermediate System (IS-IS) IPv4 loop-free alternate Fast Reroute provides automatic detection and rerouting for sub-50–msec recovery.
- Border Gateway Protocol (BGP) IPv6 Prefix Independent Convergence (PIC) at the edge and core provides faster route-table convergence at higher scale so that new service opportunities for IPv6 can now be delivered with the SLAs that customers expect.
- Real-Time Protocol (RTP) metrics support for inline video monitoring extends the benefits of in-band performance management of video traffic for IPTV, cable, and video contribution networks.

Upgrade Paths

Cisco IOS Software Release 15.1(2)S inherits all the features from Releases 12.2(33)SRE, 15.1(1)S, and 15.0(1)S.

Each Cisco IOS 15 S software release is classified as either a standard-support or extended-support release. A standard-support release has a sustaining support lifetime of 1 year from first customer shipment (FCS) with two scheduled rebuilds. Cisco IOS Software Release 15.1(2)S is a standard-support release.

Ordering Information

To place an order, visit the [Cisco Ordering Home Page](#) and refer to Table 1. To download software, visit the [Cisco Software Center](#).

Table 1. Ordering Information

Product Name	Part Number
Cisco 7600-RSP720 IOS Advanced Enterprise Services SSH	S764AEK9-15102S

Product Name	Part Number
Cisco 7600-RSP720 IOS Advanced IP Services	S764AIS-15102S
Cisco 7600-RSP720 IOS Advanced IP Services SSH	S764AIK9-15102S
Cisco 7600-RSP720 IOS IP Services	S764IS-15102S
Cisco 7600-RSP720 IOS IP Services SSH	S764ISK9-15102S
Cisco 7600-SUP32 IOS Advanced Enterprise Services SSH	S732AEK9-15102S
Cisco 7600-SUP32 IOS Advanced IP Services	S732AIS-15102S
Cisco 7600-SUP32 IOS Advanced IP Services SSH	S732AIK9-15102S
Cisco 7600-SUP32 IOS IP Services	S732IS-15102S
Cisco 7600-SUP32 IOS IP Services SSH	S732ISK9-15102S
Cisco 7600-SUP720 IOS Advanced Enterprise Services SSH	S763AEK9-15102S
Cisco 7600-SUP720 IOS Advanced IP Services	S763AI-15102S
Cisco 7600-SUP720 IOS Advanced IP Services SSH	S763AIK9-15102S
Cisco 7600-SUP720 IOS IP Services	S763IS-15102S
Cisco 7600-SUP720 IOS IP Services SSH	S763ISK9-15102S
Cisco 7600-SUP32 IOS Field Programmable Device Image	S732FPD-15102S
Cisco 7600-RSP720 IOS Field Programmable Device Image	S764FPD-15102S
Cisco 7600-RSP720 IOS Field Programmable Device Image	S76GFPD-15102S

Cisco Services

Cisco Services span all phases of the network lifecycle, build on the extensive expertise unique to Cisco, and help service providers mitigate risk, lower costs, and accelerate time to market for new services.

Among the many Cisco Advanced Services offerings, Cisco Test and Validation Services can be particularly helpful in a transition to Cisco IOS Software Release 15.1(2)S. Test engineering expertise and Cisco laboratory environments provide service verification, supporting adherence to end-customer SLAs. Services include validation of features, scale, and multivendor solutions, resulting in higher availability, increased capacity, less risk, and shorter deployment times. In addition, Cisco Upgrade and Refresh Services are helpful when moving to a new software release. These services work with the service provider's requirements to provide a cost-effective methodology for implementing a Cisco IP NGN transition. Cisco's experience, tools, and expertise help make the network transition predictable, with faster adoption of new services.

For More Information

Please visit the following websites for more information:

- Cisco 7600 Series Router: www.cisco.com/go/7600
- Cisco IOS Software Release 15.1(2)S: www.cisco.com/go/ios
- Cisco services: www.cisco.com/go/services or contact your local Cisco account representative



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