

Cisco IOS Software Release 15 S Begins New Era for Cisco 7600 Series Routers

Product Bulletin No. 610810

The latest release of Cisco IOS[®] Software for the Cisco[®] 7600 Series introduces new features and provides significant operational benefits for service providers. While the new features of Cisco IOS Software Release 15 S build on the proven capabilities of Release 12.2 SR, the release numbering is changing to communicate a more predictable release schedule, more proactive release support policies, and clearer software deployment and migration guidelines.

New Features

The Cisco 7600 Series Router leads the Ethernet services edge through the convergence of wireless and wireline service and transport capabilities. Service providers that want to capitalize on their return on investment can take advantage of more than 40 new features for mobile, video, business, and residential services that are now available with Cisco IOS Software Release 15.0(1) S.

Leading features and benefits include:

- **Inline video monitoring:** Improve service-level agreements (SLAs) for production video delivery
- **IEEE 1588-2008:** Converge to all-Ethernet third-generation (3G) and fourth generation (4G) mobile networks including time-of-day
- **Synchronous Ethernet (SyncE) Ethernet Synchronization Messaging Channel (ESMC) and Synchronization Status Messages (SSM):** Integrate synchronization management on Ethernet 3G and 4G mobile networks
- **Static pseudowire over point-to-multipoint (P2MP) traffic engineering (TE):** Improve multicast resiliency and simplify network designs
- **IEEE 802.1ad full compliance:** Improve interoperability for multivendor environments
- **2-port Gigabit synchronous Ethernet Shared Port Adapter (SPA) support:** Create clocking solutions for circuit emulation and native Ethernet.
- **Tunable dense wavelength division multiplexing (DWDM) optics:** Improve operations and scale with simplified selection of wavelengths
- **ATMv2 SPA support:** Save money with better density for legacy interfaces

The new Cisco IOS Software release numbering presents a simplified approach that aligns with consistent feature delivery.

Operational and business benefits of Cisco IOS Software Release 15.0(1) S include:

- Faster time to market – feature release planned every 4 months
- Improved quality – production-ready releases sooner
- Broadened operational consistency of features and advanced technologies
- Predictable schedule for new features and rebuilds
- Proactive communication on software selection, support lifecycle, and migration

Upgrade Paths

Customers can upgrade their Cisco 7600 Series Routers from Release 12.2 SR to Release 15.0(1) S.

Cisco IOS Software Release 15 S inherits the features of Release 12.2(33) SRE and earlier releases for upgrades without impact to existing services.

Ordering Information

To place an order, visit the Cisco Ordering Home Page. To download software, visit the Cisco Software Center. Ordering information is given in Table 1.

Table 1. Ordering Information

Product Name	Part Number
Cisco 7600-RSP720 IOS Advanced Enterprise Services SSH	S764AEK9-15001S
Cisco 7600-RSP720 IOS Advanced IP Services SSH	S764AIK9-15001S
Cisco 7600-RSP720 IOS Advanced IP Services	S764AIS-15001S
Cisco 7600-RSP720 IOS IP Services SSH	S764ISK9-15001S
Cisco 7600-RSP720 IOS IP Services	S764IS-15001S
Cisco 7600-SUP720 IOS Advanced Enterprise Services SSH	S763AEK9-15001S
Cisco 7600-SUP720 IOS Advanced IP Services SSH	S763AIK9-15001S
Cisco 7600-SUP720 IOS Advanced IP Services	S763AIS-15001S
Cisco 7600-SUP720 IOS IP Services SSH	S763ISK9-15001S
Cisco 7600-SUP720 IOS IP Services	S763IS-15001S
Cisco 7600-SUP32 Advanced Enterprise Services SSH	S732AEK9-15001S
Cisco 7600-SUP32 Advanced IP Services SSH	S732AIK9-15001S
Cisco 7600-SUP32 Advanced IP Services SSH	S732AIS-15001S
Cisco 7600-SUP32 IOS IP Services SSH	S732ISK9-15001S
Cisco 7600-SUP32 IOS IP Services	S732IS-1500S

Cisco Services

Cisco Services spans each phase of the network lifecycle, makes use of extensive expertise unique to Cisco, and affects the service provider through risk mitigation, lowered costs, and accelerated time to market for new services.

The unique Cisco lifecycle approach to services defines the requisite activities at each phase of the network lifecycle – prepare, plan, design, implement, operate, and optimize – to help ensure service excellence. Among the many Advanced Services offered by Cisco, Test and Validation Services, in particular, can be very helpful in a transition to Cisco IOS Software Release 15.0(1) S. These services are tailored to the service provider's specific needs. Test engineering expertise and Cisco lab environments provide service verification, supporting adherence to end-customer service-level agreements. This includes validation of features, scale, and multivendor solutions that result in higher availability, increased capacity, risk mitigation, and reduced cycle times that accelerate deployments.

In addition, Cisco Upgrade and Refresh Services are helpful when moving to a new software release or for any product, technology, or service migration. These are also based on the service provider's specific attributes and provide a cost-effective methodology to prepare, plan, design, and implement an IP next-generation network (NGN) transition for optimal business agility, high availability, security, and subscriber acquisition and retention. Cisco intellectual capital, automation tools, and cumulative migration expertise help assure that the network transition is a predictable success and accelerate the time to adoption of new services.

By using the extensive tools, best practices, and experts offered through Cisco Services, you mitigate risks, bring new services to market faster, lower your costs, improve your customer experience through service assurance, and maximize the value of your investment. With a collaborative delivery methodology that joins the forces of Cisco, our highly skilled network of partners, and our customers, we achieve the best results.

For More Information

For more on the Cisco 7600 Series Router, visit <http://www.cisco.com/en/US/products/hw/routers/ps368/index.html>.

For a detailed introduction to the new features of IOS release 15.0(1) S for Cisco 7600 Series, see the data sheet at http://www.cisco.com/en/US/products/hw/routers/ps368/products_data_sheets_list.html.

For more on Cisco Services, visit our [Advanced Services Routing and Switching](#) webpage or the [Cisco Services for Service Provider](#) page, or contact your local account representative.

Additional information on Cisco IOS Software releases is available at the following sites:

Cisco IOS Software Page

<http://www.cisco.com/go/ios>

Release notes for Cisco IOS Software

<http://www.cisco.com/cisco/web/psa/default.html>

Cisco IOS Software Download Center

Download Cisco IOS Software releases and access software upgrade planners.

<http://www.cisco.com/public/sw-center/>

Cisco Feature Navigator

A web-based application that allows you to quickly match Cisco IOS Software releases to features to hardware.

<http://www.cisco.com/go/fn/>

Cisco Software Advisor

Determine the minimum supported software for selected hardware.

<http://tools.cisco.com/Support/Fusion/FusionHome.do>



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