

Cisco IOS Software Release 15.0 Feature Sets and Memory Recommendations for Cisco 2800 Series Integrated Services Routers

This product bulletin specifies the software feature sets available for Cisco[®] 2800 Series Integrated Services Routers with Cisco IOS[®] Software Release 15.0. It also issues recommendations for flash and DRAM memory configuration.

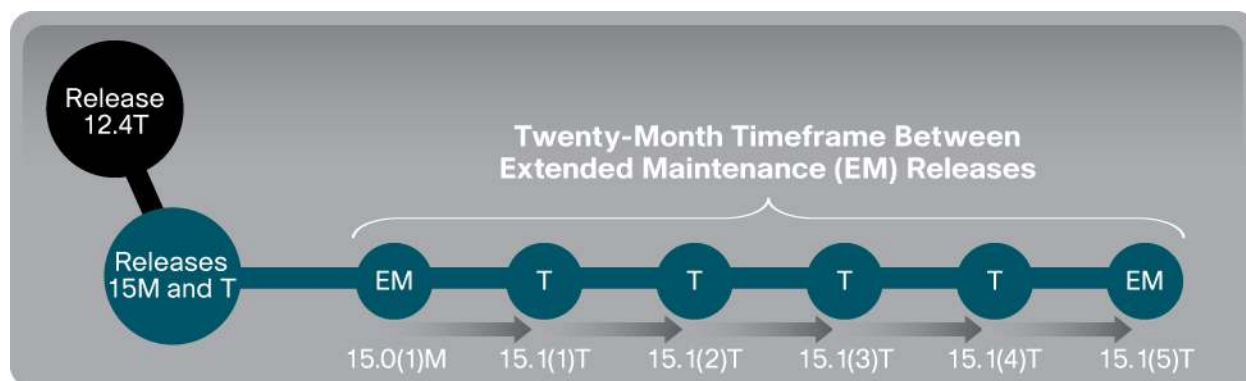
Note: This product bulletin covers the Cisco IOS Software Release model changes from Cisco IOS Software Releases 12.4 Mainline and 12.4T for the Cisco 2800 Series Integrated Services Routers. It does not cover individual new features. For information about new features in Cisco IOS Software Release 15.0, refer to the Cisco IOS Software pages at Cisco.com.

Overview

Cisco IOS[®] Software Release 15.0 follows Release 12.4(24)T. Created for wide deployment in the world's most demanding enterprise, access, and service provider networks, Cisco IOS Software Release 15.0 provides a comprehensive portfolio of Cisco technologies, functions, and hardware support from Releases 12.4 and 12.4T, anchored by an intensive stability and testing program. Important innovations span multiple technology areas, including security, voice, high availability, IP Routing and Multicast, quality of service (QoS), IP Mobility, Multiprotocol Label Switching (MPLS), VPNs, and Cisco IOS MPLS Embedded Management.

Cisco IOS Software Release 15.0 can help you by providing new feature and hardware support more quickly than in previous Mainline (M) and Technology (T) releases, broadened feature consistency with other major Cisco IOS Software releases, more predictable new feature release and rebuild schedules, proactive individual release support policies, enhanced release numbering, and clearer software deployment and migration guidelines. Figure 1 details Cisco IOS Software Release 15.0.

Figure 1. Release 15.0 Train Map



Unlike the traditional Cisco IOS Software M and T releases, Cisco IOS Software Release 15.0 does not diverge into separate M and T software release trains. Beginning with 15.0, new releases will be available 2 to 3 times per year, delivered sequentially from a single software train. Extended Maintenance (EM) releases will be available approximately every 20 months. Standard maintenance T releases enable faster Cisco feature delivery before the next EM release becomes available.

Highlights of Release 15 M & T follow:

- Feature inheritance from Cisco IOS Software Releases 12.4T and 12.4 Mainline
- New feature releases delivered sequentially from a single T train
- Extended maintenance new feature M release every 20 months
- Standard maintenance T releases for the latest features and hardware support before the next M release becomes available on Cisco.com

Note that rebuilds of Release 15 M and T contain bug fixes only.

M Releases (Extended Maintenance)

- Ideal for long-term maintenance, enabling you to qualify, deploy, and remain on the release for an extended period
- Provides 44 months of support
- Incorporates features delivered in previous releases plus incremental new feature enhancements and hardware support

T Releases (Standard Maintenance)

- Short deployment releases ideal for latest new features and hardware support before the next M release becomes available

The remainder of this product bulletin provides details about Cisco IOS Software Release 15.0 availability for the Cisco 2800 Series routers and the associated flash and DRAM memory requirements.

Cisco IOS Software Release 15.0 Feature Sets and Memory Recommendations**Cisco 2801 Feature Sets and Memory Recommendations**

Table 1 lists the Cisco IOS Software Release 15.0 feature sets that are available for the Cisco 2801 Integrated Services Router. Note that the flash memory recommendations given in the table are calculated without added management tools such as Cisco Configuration Professional.

Table 1. Cisco 2801 Integrated Services Router with Cisco IOS Software Release 15.0 Feature Set Memory Recommendations

Part Number	Product Description	Image Filename	Recommended Flash Memory for Release 15.0	Recommended DRAM for Release 15.0
S280AESK9 S280UASK9A S280UASK9A S280USPSK9	Advanced Enterprise Services	c2801-adventerprisek9-mz	128 MB	384 MB
S280AVSK9	Advanced Enterprise Services with Integrated Voice/Video Gatekeeper, IP-IP Gateway, and TDM-IP Gateway	c2801-adventerprisek9_ivs-mz	128 MB	384 MB
S280AISK9 S280RAISK9 S280UAISK9 S280UASK9B	Advanced IP Services	c2801-advipservicesk9-mz	128 MB	384 MB
S280ASK9 S280RAISK9	Advanced Security	c2801-advsecurityk9-mz	128 MB	384 MB
S280EB	Enterprise Base without cryptology	c2801-entbase-mz	64 MB	256 MB
S280EBK9	Enterprise Base	c2801-entbasek9-mz	64 MB	256 MB

Part Number	Product Description	Image Filename	Recommended Flash Memory for Release 15.0	Recommended DRAM for Release 15.0
S280ES	Enterprise Services without cryptology	c2801-entservices-mz	64 MB	384 MB
S280ESK9 S280UESK9	Enterprise Services	c2801-entservicesk9-mz	64 MB	384 MB
S280IPB	IP Base without cryptology	c2801-ipbase-mz	64 MB	256 MB
S280IPBK9	IP Base	c2801-ipbasek9-mz	64 MB	256 MB
S280IPV	IP Voice without cryptology	c2801-ipvoice-mz	64 MB	256 MB
S280IVS	IP Voice with Integrated Voice/Video Gatekeeper, IP-IP Gateway, and TDM-IP Gateway	c2801-ipvoice_ivs-mz	64 MB	256 MB
S280IPVK9	IP Voice	c2801-ipvoicek9-mz	64 MB	256 MB
S280SPSK9 S280RSPSK9	SP Services	c2801-spservicesk9-mz	64 MB	384 MB

Cisco 2811, 2821, and 2851 Feature Sets and Memory Recommendations

Table 2 lists the Cisco IOS Software Release 15.0 feature sets that are available for the Cisco 2811, 2821, and 2851 Integrated Services Routers. Note that the flash memory recommendations given in the table are calculated without added management tools such as Cisco Configuration Professional

Table 2. Table 2 Cisco 2811, 2821, and 2851 Integrated Services Routers with Cisco IOS Software Release 15.0 Feature Set Memory Recommendations

Part Number	Product Description	Image Filename	Recommended Flash Memory for Release 15.0	Recommended DRAM for Release 15.0
S28NAESK9 S28NUAESK9 S28NUASK9A S28NUSPSK9	Advanced Enterprise Services	c2800nm-adventerprisek9-mz	128 MB	512 MB
S28NAVSK9	Advanced Enterprise Services with integrated Voice/Video Gatekeeper, IP-IP Gateway, and TDM-IP Gateway	c2800nm-adventerprisek9_ivs-mz	128 MB	512 MB
S28NSNAK9	Advanced Enterprise Services with SNA Switching	c2800-adventerprisek9_sna-mz	128 MB	512 MB
S28NAISK9 S28NRAISK9 S28NUAISK9 S28NUASK9B	Advanced IP Services	c2800nm-advipservicesk9-mz	128 MB	512 MB
S28NASK9 S28NRAISK9	Advanced Security	c2800nm-advsecurityk9-mz	64 MB	256 MB
S28NEB	Enterprise Base without cryptology	c2800nm-entbase-mz	64 MB	256 MB
S28NEBK9	Enterprise Base	c2800-entbasek9-mz	64 MB	256 MB
S28NES	Enterprise Services without cryptology	c2800-entservices-mz	128 MB	512 MB
S28NESK9 S28NUESK9	Enterprise Services	c2800-entservicesk9-mz	128 MB	512 MB
S28NIPB	IP Base without cryptology	c2800-ipbase-mz	64 MB	256 MB
S28NES	Enterprise Services without cryptology	c2800nm-entservices-mz	128 MB	512 MB
S28NIPBK9	IP Base	c2800-ipbasek9-mz	64 MB	256 MB
S28NIPV	IP Voice without cryptology	c2800-ipvoice-mz	64 MB	512 MB

Part Number	Product Description	Image Filename	Recommended Flash Memory for Release 15.0	Recommended DRAM for Release 15.0
S28NIVS	IP Voice with integrated Voice/Video Gatekeeper, IP-IP Gateway, and TDM-IP Gateway	c2800nm-ipvoice_ivs-mz	64 MB	512 MB
S28NIPVK9	IP Voice	c2800nm-ipvoicek9-mz	64 MB	512 MB
S28NSPSK9 S28NRSPSK9	SP Services	c2800nm- spservicesk9-mz	128 MB	512 MB

Feature Area Map for Cisco IOS Software Release 15.0 Cross-Platform Feature Sets

For Cisco IOS Software Release 15.0, the cross-platform feature sets remain the same as those for Cisco IOS Software Releases 12.4 Mainline and 12.4T. These cross-platform feature sets simplify the image selection process by providing similar functions across platform boundaries.

Table 3. Feature Area Map

	Basic IP Connectivity for Data	Voice over IP and Voice over Frame Relay	ATM, Voice over ATM, and MPLS	AppleTalk, Internetwork Packet Exchange (IPX), and IBM Protocols	Firewall, Intrusion Protection and VPN	Secure Shell (SSH) Protocol, HTTPS, and Simple Network Management Protocol Version 3 (SNMPv3)
IP Base	X					X
IP Base without cryptology	X					
Enterprise Base	X			X		X
Enterprise Base without cryptology	X			X		
IP Voice	X	X				X
IP Voice without cryptology	X	X				
Advanced Security	X				X	X
SP Services	X	X	X			X
Advanced IP Services	X	X	X		X	X
Enterprise Services without cryptology	X	X	X	X		
Enterprise Services	X	X	X	X		X
Advanced Enterprise Services	X	X	X	X		X

For More Information

For more information about Cisco IOS Software Release 15.0 or for a list of new features or software release notes, please visit

http://www.cisco.com/en/US/products/sw/iosswrel/products_ios_cisco_ios_software_category_home.html or contact your local Cisco account representative.



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