

## Cisco IOS Software Release 15.0 Feature Sets and Memory Recommendations for Cisco 1800 Series Integrated Services Routers

This product bulletin specifies the software feature sets available for Cisco® 1800 Series Integrated Services Routers with Cisco IOS® Software Release 15.0. It also issues recommendations for flash and DRAM memory configuration.

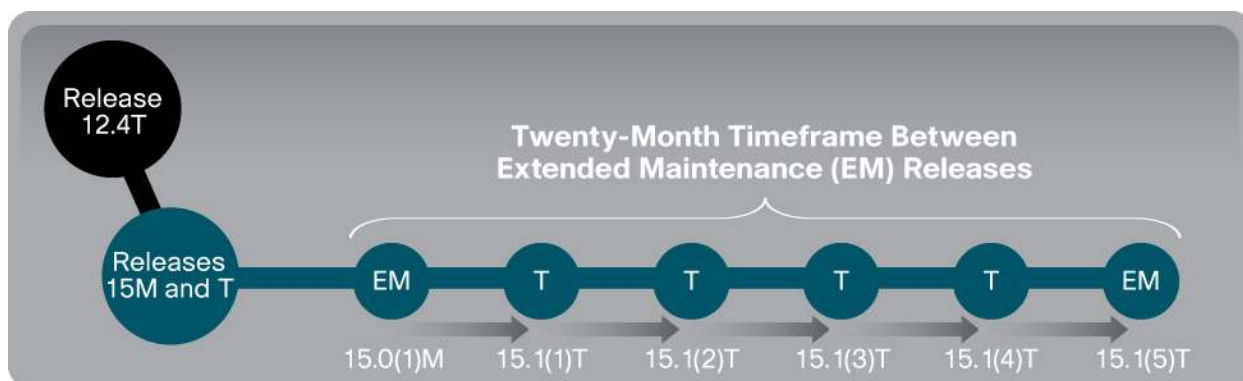
**Note:** This product bulletin covers the Cisco IOS Software release model changes from Cisco IOS Software Releases 12.4 Mainline and 12.4T for the Cisco 1800 Series Integrated Services Routers. It does not cover individual new features. For information about new features in Cisco IOS Software Release 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 Releases 15 M and 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 Releases 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 1800 Series routers and the associated flash and DRAM memory requirements.

**Cisco IOS Software Release 15.0 Feature Sets and Memory Recommendations****Cisco 1800 Feature Sets and Memory Recommendations**

Table 1 lists the Cisco IOS Software Release 15.0 feature sets that are available for the Cisco 1800 Series Integrated Services Routers. Note that the flash memory recommendations given in the table are calculated without added management tools such as Cisco Configuration Professional. For more feature details refer to the product data sheet for the Cisco 1841 Integrated Services Router at:

[http://www.cisco.com/en/US/prod/collateral/routers/ps5853/product\\_data\\_sheet0900aecd8016a59b.html](http://www.cisco.com/en/US/prod/collateral/routers/ps5853/product_data_sheet0900aecd8016a59b.html).

More information about the Cisco 1800 and 1810 Integrated Services Routers is available at:

[http://www.cisco.com/en/US/prod/collateral/routers/ps5853/ps6184/product\\_data\\_sheet0900aecd8028a95f\\_ps5853\\_Products\\_Data\\_Sheet.html](http://www.cisco.com/en/US/prod/collateral/routers/ps5853/ps6184/product_data_sheet0900aecd8028a95f_ps5853_Products_Data_Sheet.html).

**Table 1.** Cisco 1800 and 1810 Integrated Services Routers with Cisco IOS Software Release 15.0 Feature Set Memory Recommendations

Product Family	Part Number	Product Description	Image Filename	Recommended Flash Memory for Release 15.0	Recommended DRAM for Release 15.0
Cisco 1800	S180AESK9	Advanced Enterprise Services	c180x-adventerprisek9-mz	64 MB	256 MB
Cisco 1800	S180AISK9	Advanced IP Services	c180x-advipservicesk9-mz	64 MB	256 MB
Cisco 1800	S180BB	Broadband	c180x-broadband-mz	32 MB	128 MB
Cisco 1810	S181AESK9	Advanced Enterprise Services	c181x-adventerprisek9-mz	64 MB	256 MB
Cisco 1810	S181AISK9	Advanced IP Services	c181x-advipservicesk9-mz	64 MB	256 MB

## Cisco 1841 through 1861 Feature Sets and Memory Recommendation

Table 2 lists the Cisco IOS Software Release 15.0 feature sets that are available for the Cisco 1841 and 1861 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.** Cisco 1841 and 1861 Integrated Services Routers with Cisco IOS Software Release 15.0 Feature Set Memory Recommendations

Product Family	Part Number	Product Description	Image Filename	Recommended Flash Memory for Release 15.0	Recommended DRAM for Release 15.0
Cisco 1841	<ul style="list-style-type: none"> <li>• S184AESK9</li> <li>• S184UBB</li> </ul>	Advanced Enterprise Services	c1841-adventerprisek9-mz	64 MB	256 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184AISK9</li> <li>• S184UAISK9</li> <li>• S184RAISK9</li> </ul>	Advanced IP Services	c1841-advipservicesk9-mz	64 MB	256 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184ASK9</li> <li>• S184UASK9</li> <li>• S184RASK9</li> </ul>	Advanced Security	c1841-advsecurityk9-mz	64 MB	256 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184BB</li> <li>• S184RBB</li> </ul>	Broadband	c1841-broadband-mz	64 MB	192 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184EB</li> </ul>	Enterprise Base without cryptology features	c1841-entbase-mz	64 MB	192 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184EBK9</li> </ul>	Enterprise Base	c1841-entbasek9-mz	64 MB	192 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184ES</li> </ul>	Enterprise Services without cryptology features	c1841-entservices-mz	64 MB	256 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184ESK9</li> </ul>	Enterprise Services	c1841-entservicesk9-mz	64 MB	256 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184IPB</li> </ul>	IP Base without cryptology features	c1841-ipbase-mz	64 MB	192 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184IPBK9</li> </ul>	IP Base	c1841-ipbasek9-mz	64 MB	192 MB
Cisco 1841	<ul style="list-style-type: none"> <li>• S184SPSK9</li> <li>• S184USPSK9</li> <li>• S184RSPSK9</li> </ul>	SP Services	c1841-spservicesk9-mz	64 MB	256 MB
Cisco 1861	<ul style="list-style-type: none"> <li>• S186AESK9</li> <li>• S186UAESK9</li> </ul>	Advanced Enterprise Services	c1861-adventerprisek9-mz	128 MB	384 MB
Cisco 1861	<ul style="list-style-type: none"> <li>• S186AISK9</li> <li>• S186UAISK9</li> </ul>	Advanced IP Services	c1861-advipservicesk9-mz	128 MB	384 MB
Cisco 1861	<ul style="list-style-type: none"> <li>• S186ESK9</li> <li>• S186UESK9</li> </ul>	Enterprise Services	c1861-entservicesk9-mz	128 MB	256 MB
Cisco 1861	<ul style="list-style-type: none"> <li>• S186IPV</li> <li>• S186UIPVK9</li> </ul>	IP Voice	c1861-ipvoice-mz	128 MB	256 MB
Cisco 1861	<ul style="list-style-type: none"> <li>• S186SPSK9</li> <li>• S186RSPSK9</li> </ul>	SP Services	c1861-spservicesk9-mz	128 MB	256 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...[\[pls finish sentence\]](#)

**Table 3.** Feature Area Map

	Basic IP Connectivity for Data	Voice over IP	ATM and MPLS	Intrusion Prevention System (IPS) Content Filtering and Group Encrypted Transport VPN	Firewall, Intrusion Protection Secure Sockets Layer (SSL) VPN, Network Access Control (NAC), Dynamic Multipoint VPN (DMVPN), and Easy VPN	Secure Shell (SSH) Protocol, HTTPS, and Simple Network Management Protocol Version 3 (SNMPv3)
IP Base	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 [\[? Need URL\]](#) or contact your local Cisco account representative.



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San Jose, CA

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