Cisco IOS Software Releases 12.4 Mainline and 12.4T Feature Sets for the Cisco 1800 Series Routers

PB3008

This product bulletin details changes to the Cisco IOS® Software packaging for Cisco® 1800 Series routers. It introduces three new cross-platform feature sets in Cisco IOS Software releases 12.4 Mainline and 12.4T.

Note: This product bulletin covers the packaging of functions into feature sets. It does not cover individual new features. For information about new features in Cisco IOS Software releases 12.4 Mainline and 12.4T, refer to the Cisco IOS Software pages at Cisco.com.

Overview

The Cisco 1800 Series (modular) integrated services routers, for example, the Cisco 1841, was introduced exclusively on seven cross-platform feature sets on the Cisco IOS Software Release 12.3(8)T4. The number of cross-platform feature sets was increased to eight with the introduction of the Broadband image on Release 12.3(11)T. Similar to 12.3T, Cisco IOS Software releases 12.4 Mainline and 12.4T releases on the Cisco 1841 consist exclusively of the cross-platform feature sets (Table 1).

Table 1.   Type of Feature Sets by Release Train

Cisco IOS Software Release 12.3T	Cisco IOS Software Releases 12.4 Mainline and 12.4T
Seven cross-platform feature sets on 12.3(8)T4 and eight cross-platform feature sets on 12.3(11)T and beyond	Eleven cross-platform feature sets

In addition to the eight cross-platform feature sets that were released with Cisco IOS Software Release 12.3(11)T and later, three more cross-platform feature sets will be added starting with 12.4 Mainline and 12.4T. Derivatives of the existing eight feature sets, these three new feature sets were created to address router management capabilities. The new feature sets are described in Table 2.

Table 2.   New Feature Sets for Cisco 1841 for Cisco IOS Software Releases 12.4 and 12.4T

Image Name	Cisco IOS Software Release 12.3(8)T4 and Later	Cisco IOS Software Release 12.4 and Forward
IP Base	X	New
IP Base without Crypto		Renamed
IP Broadband	X	X
Enterprise Base	X	New
Enterprise Base without Crypto		Renamed
Advanced Security	X	X
SP Services	X	X
Advanced IP Services	X	X
Enterprise Services without Crypto		New
Enterprise Services	X	X

Image Name	Cisco IOS Software Release 12.3(8)T4 and Later	Cisco IOS Software Release 12.4 and Forward
Advanced Enterprise Services	X	X

Note that there is a name change for the feature sets that previously had no cryptography technology, and this fact is now noted in their titles. Going forward, the new feature sets that have cryptography technology will have the basic title without any cryptography designator.

Figure 1. Reformation Feature Map for Cisco 1841 Integrated Services Router
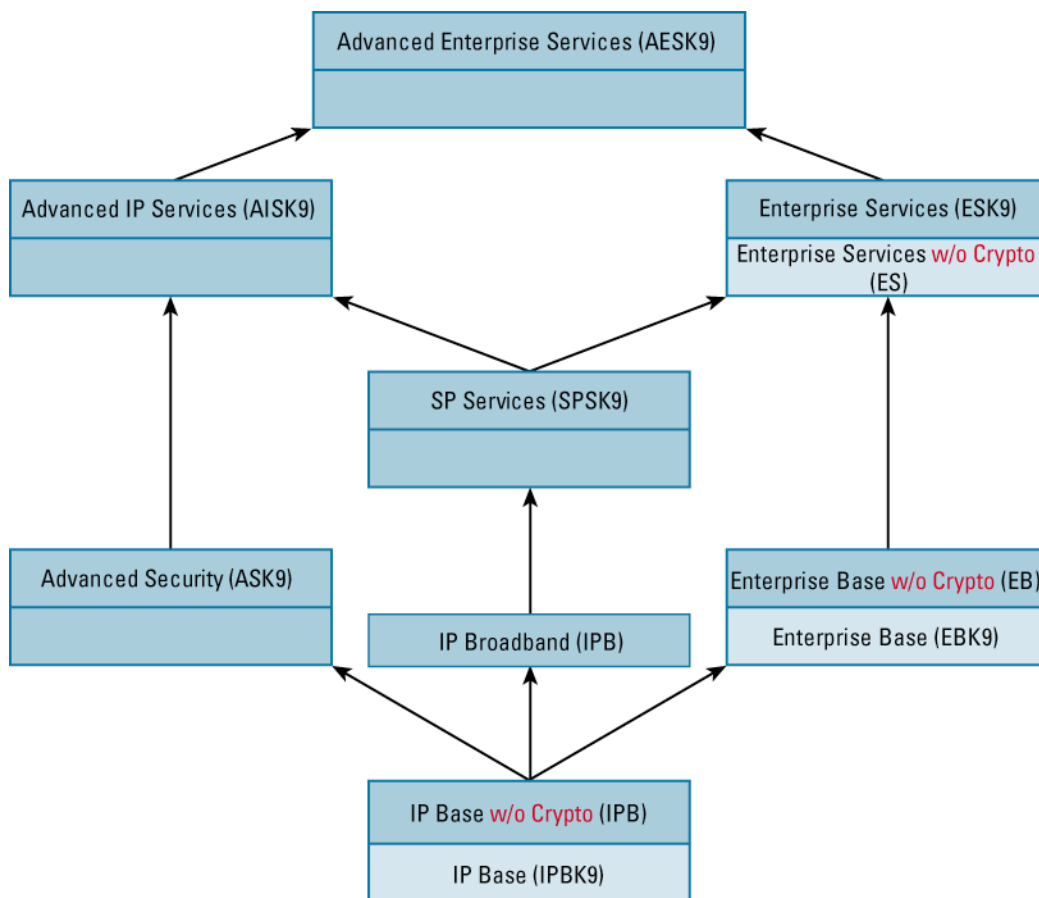
The remainder of this product bulletin provides details of feature set availability in Cisco IOS Software releases 12.4 Mainline and 12.4T.

Cisco IOS Software Release 12.4 Mainline

Overview of Available Feature Sets in Cisco IOS Software Release 12.4 Mainline

Table 3 lists the Cisco IOS Software Release 12.4 Mainline feature sets that are available for the Cisco 1841.

Note that the flash memory recommendations given in the table are calculated without added management tools such as Cisco Router and Security Device Manager (SDM).

Table 3. Cisco 1841—Cisco IOS Software Release 12.4 Mainline Feature Set Memory Recommendations

Software Product Description Product ID Product Description Image Filename	Recommended Flash Memory for Release 12.4 Mainline	Recommended DRAM for Release 12.4 Mainline
S184AESK9 **Cisco 1841 IOS ADVANCED ENTERPRISE SERVICES** **c1841-adventerprisek9-mz**	32	128
S184AISK9 **Cisco 1841 IOS ADVANCED IP SERVICES** **c1841-advipservicesk9-mz**	32	128
S184ASK9 **Cisco 1841 IOS ADVANCED SECURITY** **c1841-advsecurityk9-mz**	32	128
S184BB **Cisco 1841 IOS BROADBAND** **c1841-broadband-mz**	32	128
S184EB **Cisco 1841 IOS ENTERPRISE BASE W/O CRYPTO** **c1841-entbase-mz**	32	128
S184EBK9 **Cisco 1841 IOS ENTERPRISE BASE** **c1841-entbasek9-mz**	32	128
S184ES **Cisco 1841 IOS ENTERPRISE SERVICES W/O CRYPTO** **c1841-entservices-mz**	32	128
S184ESK9 **Cisco 1841 IOS ENTERPRISE SERVICES** **c1841-entservicesk9-mz**	32	128
S184IPB **Cisco 1841 IOS IP BASE W/O CRYPTO** **c1841-ipbase-mz**	32	128
S184IPBK9 **Cisco 1841 IOS IP BASE** **c1841-ipbasek9-mz**	32	128
S184SPSK9 **Cisco 1841 IOS SP SERVICES** **c1841-spservicesk9-mz**	32	128

Cisco IOS Software Release 12.4T

Overview of Available Feature Sets in Cisco IOS Software Release 12.4T

Table 4 lists the Cisco IOS Software Release 12.4T feature sets that are available for the Cisco 1800 Series routers.

Note that the flash memory recommendations in the table are calculated without added management tools such as Cisco SDM.

Table 4. Cisco 1841—Cisco IOS Software Release 12.4T Feature Set Memory Recommendations

Software Product Description Product ID Product Description Image Filename	Recommended Flash Memory for Release 12.4T	Recommended DRAM for Release 12.4T
S184AESK9 **Cisco 1841 IOS ADVANCED ENTERPRISE SERVICES** **c1841-adventprisek9-mz**	64	192
S184AISK9 **Cisco 1841 IOS ADVANCED IP SERVICES** **c1841-advipservicesk9-mz**	64	192
S184ASK9 **Cisco 1841 IOS ADVANCED SECURITY** **c1841-advsecurityk9-mz**	32	192
S184BB **Cisco 1841 IOS BROADBAND** **c1841-broadband-mz**	32	128
S184EB **Cisco 1841 IOS ENTERPRISE BASE W/O CRYPTO** **c1841-entbase-mz**	32	128
S184EBK9 **Cisco 1841 IOS ENTERPRISE BASE** **c1841-entbasek9-mz**	32	128
S184ES **Cisco 1841 IOS ENTERPRISE SERVICES W/O CRYPTO** **c1841-entservices-mz**	64	192
S184ESK9 **Cisco 1841 IOS ENTERPRISE SERVICES** **c1841-entservicesk9-mz**	64	192
S184IPB **Cisco 1841 IOS IP BASE W/O CRYPTO** **c1841-ipbase-mz**	32	128
S184IPBK9 **Cisco 1841 IOS IP BASE** **c1841-ipbasek9-mz**	32	128
S184SPSK9 **Cisco 1841 IOS SP SERVICES** **c1841-spservicesk9-mz**	64	128

Feature Area Map for Cisco IOS Software Release 12.4 Cross-Platform Feature Sets

The cross-platform feature sets are tailored to ease the choice of feature sets in a multiplatform environment. They were initially available for Cisco 1700 Series and Cisco 2600XM, 3725, and 3745 routers and the Cisco 2691 Multiservice Platform, and they are now also available for the Cisco 1800, 2800, and 3800 series routers. The cross-platform feature sets simplify the image selection process by providing similar functions across platform boundaries.

Table 5 shows the mapping of key features in each image.

Table 5.   Feature Area Map for Cisco 1841

Feature Set	Basic IP Connectivity for Data	DSL, IP Service-Level Agreement (SLA), and Cisco Service Assurance Agent (SAA)	Border Gateway Protocol (BGP)	AppleTalk, Internetwork Packet Exchange (IPX), and IBM Protocols	Firewall, Intrusion Prevention System (IPS), and IP Security (IPsec) VPN	Secure Shell (SSH) Protocol, HTTPS, and Simple Network Management Protocol Version 3 (SNMPv3)
IP Base	X					X
IP Base without Crypto	X					
Enterprise Base	X			X		X
Enterprise Base without Crypto	X			X		
Broadband	X	X				
Advanced Security	X	X			X	X
SP Services	X	X	X			X
Advanced IP Services	X	X	X		X	X
Enterprise Services without Crypto	X	X	X	X		
Enterprise Services	X	X	X	X		X
Advanced Enterprise Services	X	X	X	X	X	X