



## CISCO IOS SOFTWARE RELEASES 12.4 MAINLINE AND 12.4T FEATURE SETS FOR THE CISCO 3800 SERIES ROUTERS

This product bulletin details changes to the Cisco IOS® Software packaging for Cisco® 3800 Series routers. It introduces four 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 2800 and 3800 integrated service routers were introduced exclusively on these eight new cross-platform feature sets. Similar to 12.3T, Cisco IOS Software releases 12.4 Mainline and 12.4T consist exclusively of the cross-platform feature.

**Table 1.** Type of Feature Sets by Release Train

Cisco IOS Software Release 12.3 Mainline	Cisco IOS Software Release 12.3T	Cisco IOS Software Releases 12.4 Mainline and 12.4T
<b>Classic Feature Sets</b>		
Cross-platform feature sets	Cross-platform feature sets	Cross-platform feature sets
Special-purpose feature sets	Special-purpose feature sets	Special-purpose feature sets

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

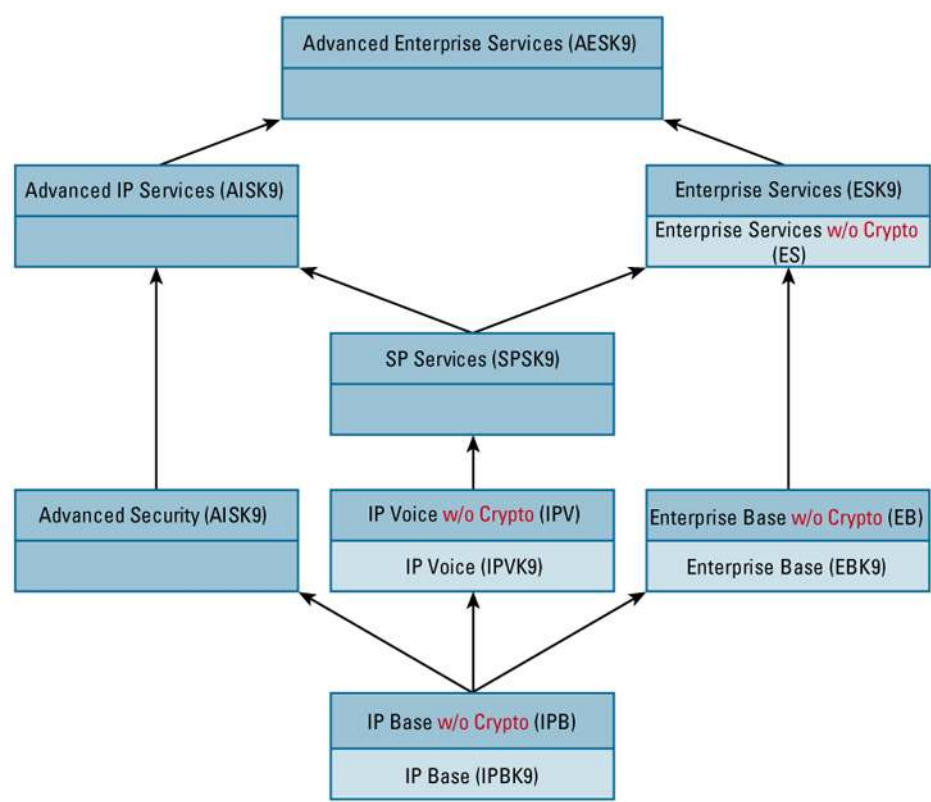
**Table 2.** New Feature Sets for Cisco IOS Software Releases 12.4 and 12.4T

Cisco IOS Software Release 12.3 and Prior		Cisco IOS Software Release 12.4 and Forward	
Image Name		Image Name	
		IP Base	New
IP Base	X	IP Base without Crypto	Renamed
		Enterprise Base	New
Enterprise Base	X	Enterprise Base without Crypto	Renamed
		IP Voice	New
IP Voice	X	IP Voice without Crypto	Renamed
Advanced Security	X	Advanced Security	X
SP Services	X	SP Services	X
Advanced IP Services	X	Advanced IP Services	X
		Enterprise Services without Crypto	New
Enterprise Services	X	Enterprise Services	X
Advanced Enterprise Services	X	Advanced Enterprise Services	X



Note that there is a name change for the feature sets that previously had no cryptography technology, and this fact is now reflected 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



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 3800 Series routers.

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

**Table 3.** Cisco 3825—12.4M Feature Set Memory Recommendations

<b>Software Product Description</b>		
<b>Product ID</b>		
<b>Product Description</b>	<b>Recommended Flash</b>	<b>Recommended DRAM</b>
<b>Image Filename</b>	<b>12.4M</b>	<b>12.4M</b>
S382AESK9 Cisco 3825 IOS ADVANCED ENTERPRISE SERVICES c3825-adventerprisek9-mz	64	256
S382AVSK9 Cisco 3825 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c3825-adventerprisek9_ivs-mz	64	256
S382SNAK9 Cisco 3825 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c3825-adventerprisek9_sna-mz	64	256
S382AISK9 Cisco 3825 IOS ADVANCED IP SERVICES c3825-advipservicesk9-mz	64	256
S382ASK9 Cisco 3825 IOS ADVANCED SECURITY c3825-advsecurityk9-mz	64	256
S382EB Cisco 3825 IOS ENTERPRISE BASE WITHOUT CRYPTO c3825-entbase-mz	64	256
S382EBK9 Cisco 3825 IOS ENTERPRISE BASE c3825-entbasek9-mz	64	256
S382ES Cisco 3825 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c3825-entservices-mz	64	256
S382ESK9 Cisco 3825 IOS ENTERPRISE SERVICES c3825-entservicesk9-mz	64	256
S382IPB Cisco 3825 IOS IP BASE WITHOUT CRYPTO c3825-ipbase-mz	64	256
S382IPBK9 Cisco 3825 IOS IP BASE c3825-ipbasek9-mz	64	256
S382IPV Cisco 3825 IOS IP VOICE WITHOUT CRYPTO c3825-ipvoice-mz	64	256

**Software Product Description****Product ID****Product Description****Recommended Flash  
12.4M****Recommended DRAM  
12.4M****Image Filename**

S382IVS

Cisco 3825 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP  
GATEWAY, TDM-IP GATEWAY

c3825-ipvoice\_ivs-mz

64

256

S382IPVK9

Cisco 3825 IOS IP VOICE

c3825-ipvoicek9-mz

64

256

S382SPSK9

Cisco 3825 IOS SP SERVICES

c3825-spservicesk9-mz

64

256

S384AESK9

Cisco 3845 IOS ADVANCED ENTERPRISE SERVICES

c3845-adventerprisek9-mz

64

256

S384AVSK9

Cisco 3845 ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO  
GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY

c3845-adventerprisek9\_ivs-mz

64

256

S384SNAK9

Cisco 3845 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING

c3845-adventerprisek9\_sna-mz

64

256

S384AISK9

Cisco 3845 IOS ADVANCED IP SERVICES

c3845-advipservicesk9-mz

64

256

S384ASK9

Cisco 3845 IOS ADVANCED SECURITY

c3845-advsecurityk9-mz

64

256

S384EB

Cisco 3845 IOS ENTERPRISE BASE WITHOUT CRYPTO

c3845-entbase-mz

64

256

S384EBK9

Cisco 3845 IOS ENTERPRISE BASE

c3845-entbasek9-mz

64

256

S384ES

Cisco 3845 IOS ENTERPRISE SERVICES WITHOUT CRYPTO

c3845-entservices-mz

64

256

S384ESK9

Cisco 3845 IOS ENTERPRISE SERVICES

c3845-entservicesk9-mz

64

256

**Software Product Description****Product ID****Product Description****Recommended Flash  
12.4M****Recommended DRAM  
12.4M**

S384IPB

Cisco 3845 IOS IP BASE WITHOUT CRYPTO

c3845-ipbase-mz

64

256

S384IPBK9

Cisco 3845 IOS IP BASE

c3845-ipbasek9-mz

64

256

S384IPV

Cisco 3845 IOS IP VOICE WITHOUT CRYPTO

c3845-ipvoice-mz

64

256

S384IVS

Cisco 3845 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP  
GATEWAY, TDM-IP GATEWAY

c3845-ipvoice\_ivs-mz

64

256

S384IPVK9

Cisco 3845 IOS IP VOICE

c3845-ipvoicek9-mz

64

256

S384SPSK9

Cisco 3845 IOS SP SERVICES

c3845-spservicesk9-mz

64

256

**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 12.3T feature sets available for the Cisco 3800 Series routers.

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

**Table 4.** Cisco 3825—12.4T Feature Set Memory Recommendations**Software Product Description****Product ID****Product Description****Recommended Flash  
12.4T****Recommended  
DRAM 12.4T**

S382AESK9

Cisco 3825 IOS ADVANCED ENTERPRISE SERVICES

c3825-adventerprisek9-mz

64

256

S382AVSK9

Cisco 3825 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO  
GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY

c3825-adventerprisek9\_ivs-mz

64

256

**Software Product Description****Product ID****Product Description****Recommended Flash  
12.4T****Recommended  
DRAM 12.4T**

Image Filename		
S382SNAK9 Cisco 3825 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c3825-adventerprisek9_sna-mz	64	256
S382AISK9 Cisco 3825 IOS ADVANCED IP SERVICES c3825-advipservicesk9-mz	64	256
S382ASK9 Cisco 3825 IOS ADVANCED SECURITY c3825-advsecurityk9-mz	64	256
S382EB Cisco 3825 IOS ENTERPRISE BASE WITHOUT CRYPTO c3825-entbase-mz	64	256
S382EBK9 Cisco 3825 IOS ENTERPRISE BASE c3825-entbasek9-mz	64	256
S382ES Cisco 3825 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c3825-entservices-mz	64	256
S382ESK9 Cisco 3825 IOS ENTERPRISE SERVICES c3825-entservicesk9-mz	64	256
S382IPB Cisco 3825 IOS IP BASE WITHOUT CRYPTO c3825-ipbase-mz	64	256
S382IPBK9 Cisco 3825 IOS IP BASE c3825-ipbasek9-mz	64	256
S382IPV Cisco 3825 IOS IP VOICE WITHOUT CRYPTO c3825-ipvoice-mz	64	256
S382IVS Cisco 3825 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c3825-ipvoice_ivs-mz	64	256
S382IPVK9 Cisco 3825 IOS IP VOICE c3825-ipvoicek9-mz	64	256

**Software Product Description****Product ID****Product Description****Image Filename****Recommended Flash  
12.4T****Recommended  
DRAM 12.4T**

S382SPSK9 Cisco 3825 IOS SP SERVICES c3825-spservicesk9-mz	64	256
S384AESK9 Cisco 3845 IOS ADVANCED ENTERPRISE SERVICES c3845-adventerprisek9-mz	64	256
S384AVSK9 Cisco 3845 ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c3845-adventerprisek9_ivs-mz	64	256
S384SNAK9 Cisco 3845 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c3845-adventerprisek9_sna-mz	64	256
S384AISK9 Cisco 3845 IOS ADVANCED IP SERVICES c3845-advipservicesk9-mz	64	256
S384ASK9 Cisco 3845 IOS ADVANCED SECURITY c3845-advsecurityk9-mz	64	256
S384EB Cisco 3845 IOS ENTERPRISE BASE WITHOUT CRYPTO c3845-entbase-mz	64	256
S384EBK9 Cisco 3845 IOS ENTERPRISE BASE c3845-entbasek9-mz	64	256
S384ES Cisco 3845 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c3845-entservices-mz	64	256
S384ESK9 Cisco 3845 IOS ENTERPRISE SERVICES c3845-entservicesk9-mz	64	256
S384IPB Cisco 3845 IOS IP BASE WITHOUT CRYPTO c3845-ipbase-mz	64	256
S384IPBK9 Cisco 3845 IOS IP BASE c3845-ipbasek9-mz	64	256

## Software Product Description

### Product ID

### Product Description

### Image Filename

### Recommended Flash 12.4T

### Recommended DRAM 12.4T

S384IPV Cisco 3845 IOS IP VOICE WITHOUT CRYPTO c3845-ipvoice-mz	64	256
S384IVS Cisco 3845 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c3845-ipvoice_ivs-mz	64	256
S384IPVK9 Cisco 3845 IOS IP VOICE c3845-ipvoicek9-mz	64	256
S384SPSK9 Cisco 3845 IOS SP SERVICES c3845-spservicesk9-mz	64	256

## 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, 2600XM, 3725, and 3745 series routers and the Cisco 2691 Multiservice Platform and 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.** Feature Area Map

	Basic IP Connectivity for Data	Voice over IP, Voice over Frame Relay	ATM, Voice over ATM, MPLS	AppleTalk, IPX, IBM protocols	Firewall Intrusion Detection Sensor, VPN	SSH, HTTPS SNMPv3
IP Base	X					X
IP Base without Crypto	X					
Enterprise Base	X			X		X
Enterprise Base without Crypto	X			X		
IP Voice	X	X				X
IP Voice without Crypto	X	X				
Advanced Security	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		



	Basic IP Connectivity for Data	Voice over IP, Voice over Frame Relay	ATM, Voice over ATM, MPLS	AppleTalk, IPX, IBM protocols	Firewall Intrusion Detection Sensor, VPN	SSH, HTTPS SNMPv3
<b>Enterprise Services</b>	X	X	X	X		X
<b>Advanced Enterprise Services</b>	X	X	X	X	X	X



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