



CISCO IOS 12.4 MAINLINE AND 12.4T FEATURE SETS FOR THE CISCO 2600 SERIES ROUTERS

This product bulletin details changes to the Cisco IOS® Software packaging for Cisco® 2600XM Series routers and the Cisco 2691 Multiservice Platform. It introduces four new cross-platform feature sets in Cisco IOS releases 12.4 Mainline and 12.4T. In addition, this is an end-of-sales notification for numerous feature sets.

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.

Note: The last supported release for Cisco 2600 non-XM routers is the Cisco IOS Software Release 12.3 Mainline. This bulletin pertains only to the Cisco 2600XM and 2691 routers.

OVERVIEW

During the course of Cisco IOS Software releases 12.3 Mainline and 12.3T, the Cisco 2600XM platforms and the Cisco 2691 migrated to eight new Cisco cross-platform feature sets. They were introduced as an alternative to classic feature sets in Cisco IOS Software Release 12.3 Mainline. Similar to 12.3T, Cisco IOS Software releases 12.4 Mainline and 12.4T consist exclusively of the cross-platform feature sets.

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
Classic Feature Sets		
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 12.3T and 12.3 Mainline releases, 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. Table 2 describes the new feature sets.

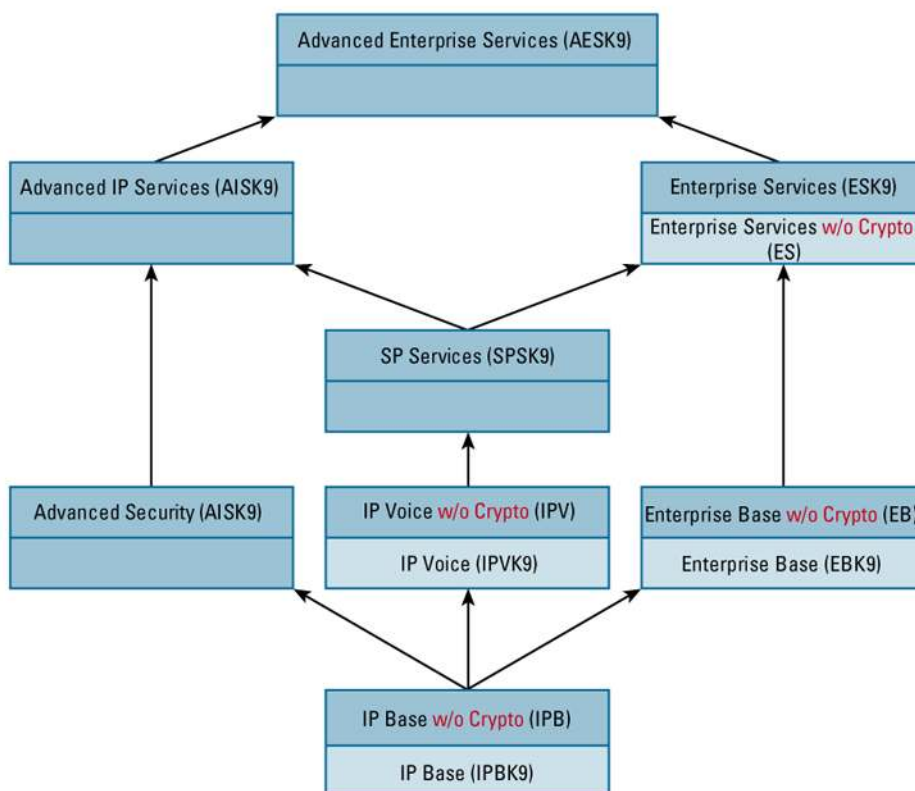
Table 2. New Feature Sets for Cisco IOS Software Releases 12.4 and 12.4T

Image Name	Cisco IOS Software Release 12.3 and Prior	Image Name	Cisco IOS Software Release 12.4 and Forward
		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

Image Name	Cisco IOS Software Release 12.3 and Prior	Image Name	Cisco IOS Software Release 12.4 and Forward
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; 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



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 2600XM and 2691 routers.

Note that the flash memory recommendations given in Table 3 are calculated without added management tools such as Cisco Router and Security Device Manager (SDM).

Table 3. Cisco 2600XM—12.4M Feature Set Memory Recommendations

Software Product Description		
Product ID		
Product Description	Recommended Flash	Recommended DRAM
Image Filename	12.4M	12.4M
S26AESK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES c2600-adventerprisek9-mz	32	128
S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz	32	128
S26SNAK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2600-adventerprisek9_sna-mz	32	128
S26AISK9 Cisco 2600 IOS ADVANCED IP SERVICES c2600-advipservicesk9-mz	32	128
S26ASK9 Cisco 2600 IOS ADVANCED SECURITY c2600-advsecurityk9-mz	32	128
S26EB Cisco 2600 IOS ENTERPRISE BASE WITHOUT CRYPTO c2600-entbase-mz	32	128
S26EBK9 Cisco 2600 IOS ENTERPRISE BASE c2600-entbasek9-mz	32	128
S26ES Cisco 2600 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c2600-entservices-mz	32	128
S26ESK9 Cisco 2600 IOS ENTERPRISE SERVICES c2600-entservicesk9-mz	32	128
S26IPB Cisco 2600 IOS IP BASE WITHOUT CRYPTO c2600-ipbase-mz	16	64
S26IPBK9 Cisco 2600 IOS IP BASE c2600-ipbasek9-mz	16	64

Software Product Description		
Product ID		
Product Description	Recommended Flash	Recommended DRAM
Image Filename	12.4M	12.4M
S26IPV Cisco 2600 IOS IP VOICE WITHOUT CRYPTO c2600-ipvoice-mz	32	128
S26IVS Cisco 2600 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-ipvoice_ivs-mz	32	128
S26IPVK9 Cisco 2600 IOS IP VOICE c2600-ipvoicek9-mz	32	128
S26SPSK9 Cisco 2600 IOS SP SERVICES c2600-spservicesk9-mz	32	128
S26T Cisco 2600 IOS TELCO FEATURE SET c2600-telco-mz	32	64

Table 4. Cisco 2691—12.4M Feature Set Memory Recommendations

Software Product Description		
Product ID		
Product Description	Recommended Flash	Recommended DRAM
Image Filename	12.4M	12.4M
S269AESK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES c2691-adventerprisek9-mz	64	192
S269AVSK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-adventerprisek9_ivs-mz	64	192
S269SNAK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2691-adventerprisek9_sna-mz	64	192
S269AISK9 Cisco 2691 IOS ADVANCED IP SERVICES c2691-advipservicesk9-mz	64	128
S269ASK9 Cisco 2691 IOS ADVANCED SECURITY c2691-advsecurityk9-mz	32	128

Software Product Description Product ID Product Description Image Filename	Recommended Flash 12.4M	Recommended DRAM 12.4M
S269EB Cisco 2691 IOS ENTERPRISE BASE WITHOUT CRYPTO c2691-entbase-mz	32	128
S269EBK9 Cisco 2691 IOS ENTERPRISE BASE c2691-entbasek9-mz	32	128
S269ES Cisco 2691 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c2691-entservices-mz	64	128
S269ESK9 Cisco 2691 IOS ENTERPRISE SERVICES c2691-entservicesk9-mz	64	128
S269IPB Cisco 2691 IOS IP BASE WITHOUT CRYPTO c2691-ipbase-mz	32	128
S269IPBK9 Cisco 2691 IOS IP BASE c2691-ipbasek9-mz	32	128
S269IPV Cisco 2691 IOS IP VOICE WITHOUT CRYPTO c2691-ipvoice-mz	32	128
S269IVS Cisco 2691 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-ipvoice_ivs-mz	32	128
S269IPVK9 Cisco 2691 IOS IP VOICE c2691-ipvoicek9-mz	32	128
S269SPSK9 Cisco 2691 IOS SP SERVICES c2691-spservicesk9-mz	64	128

End-of-Sales Feature Sets in Cisco IOS Software Release 12.4 Mainline and Suggested Migration Paths

Table 5 lists Cisco IOS Software feature sets that will be discontinued in Cisco IOS Software Release 12.4 Mainline, and suggested migration paths. It should be noted that other active release trains continue to issue maintenance releases of these feature sets. The end-of-sales applies only to Cisco IOS Software Release 12.4 Mainline and subsequent 12.4T release trains.

Cisco SMARTnet® and other support contracts are transferable from an end-of-sale image to any image suggested as a migration path.

Table 5. Cisco 2600XM—12.4M End of Sale Feature Sets

End of Sale Software Product Description	Suggested Migration Path
Product ID	Product ID
Product Description	Product Description
Image Filename	Image Filename
S26AR1K9 Cisco 2600 IOS ENTERPRISE/SNASW PLUS IPSEC 3DES c2600-a3jk9s-mz	S26SNAK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2600-adventerprisek9_sna-mz
S26AR1P Cisco 2600 IOS ENTERPRISE/SNASW PLUS c2600-a3js-mz	S26SNAK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2600-adventerprisek9_sna-mz
S26CU Cisco 2600 IOS IP/H323 c2600-ix-mz	S26IVS Cisco 2600 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-ipvoice_ivs-mz
S26AK9G Cisco 2600 IOS VOICE IP TO IP VOICE GATEWAY IPSEC 3DES c2600-jk9s2-mz	S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz
S26APG Cisco 2600 IOS VOICE IP TO IP VOICE GATEWAY c2600-js2-mz	S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz
S26APU Cisco 2600 IOS ENTERPRISE PLUS/H323 MCM c2600-jsx-mz	S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz

Table 6. Cisco 2691—12.4M End of Sale Feature Sets

End of Sale Software Product Description	Suggested Migration Path
Product ID	Product ID
Product Description	Product Description
Image Filename	Image Filename
S269AR1K9 Cisco 2691 IOS ENTERPRISE/SNASW PLUS IPSEC 3DES c2691-a3jk9s-mz	S269SNAK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2691-adventerprisek9_sna-mz
S269AR1P Cisco 2691 IOS ENTERPRISE/SNASW PLUS c2691-a3js-mz	S269SNAK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2691-adventerprisek9_sna-mz

End of Sale Software Product Description	Suggested Migration Path
Product ID	Product ID
Product Description	Product Description
Image Filename	Image Filename
S269CU Cisco 2691 IOS IP/H323 c2691-ix-mz	S269IVS Cisco 2691 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-ipvoice_ivs-mz
S269APU Cisco 2691 IOS ENTERPRISE PLUS/H323 MCM c2691-jsx-mz	S269AVSK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-adventerprisek9_ivs-mz

CISCO IOS SOFTWARE RELEASE 12.4T

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

Table 5 lists the Cisco IOS Software Release 12.3T feature sets that are available for the Cisco 2600XM and 2691 routers.

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

Table 7. Cisco 2600XM—12.4T Feature Set Memory Recommendations

Software Product Description	Recommended Flash	Recommended DRAM
Product ID	12.4T	12.4T
Product Description		
Image Filename		
S26AESK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES c2600-adventerprisek9-mz	48	256
S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz	48	256
S26SNAK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2600-adventerprisek9_sna-mz	48	256
S26AISK9 Cisco 2600 IOS ADVANCED IP SERVICES c2600-advipservicesk9-mz	48	192
S26ASK9 Cisco 2600 IOS ADVANCED SECURITY c2600-advsecurityk9-mz	32	128
S26EB Cisco 2600 IOS ENTERPRISE BASE WITHOUT CRYPTO c2600-entbase-mz	32	128

Software Product Description		
Product ID		
Product Description	Recommended Flash	Recommended DRAM
Image Filename	12.4T	12.4T
S26EBK9 Cisco 2600 IOS ENTERPRISE BASE c2600-entbasek9-mz	32	128
S26ES Cisco 2600 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c2600-entservices-mz	48	192
S26ESK9 Cisco 2600 IOS ENTERPRISE SERVICES c2600-entservicesk9-mz	48	192
S26IPB Cisco 2600 IOS IP BASE WITHOUT CRYPTO c2600-ipbase-mz	32	128
S26IPBK9 Cisco 2600 IOS IP BASE c2600-ipbasek9-mz	32	128
S26IPV Cisco 2600 IOS IP VOICE WITHOUT CRYPTO c2600-ipvoice-mz	48	192
S26IVS Cisco 2600 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-ipvoice_ivs-mz	48	192
S26IPVK9 Cisco 2600 IOS IP VOICE c2600-ipvoicek9-mz	48	192
S26SPSK9 Cisco 2600 IOS SP SERVICES c2600-spservicesk9-mz	48	192
S26T Cisco 2600 IOS TELCO FEATURE SET c2600-telco-mz	32	128

Table 8. Cisco 2691—12.4T Feature Set Memory Recommendations

Software Product Description Product ID Product Description Image Filename	Recommended Flash 12.4T	Recommended DRAM 12.4T
S269AESK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES c2691-adventerprisek9-mz	64	256
S269AVSK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-adventerprisek9_ivs-mz	64	256
S269SNAK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2691-adventerprisek9_sna-mz	64	256
S269AISK9 Cisco 2691 IOS ADVANCED IP SERVICES c2691-advipservicesk9-mz	64	256
S269ASK9 Cisco 2691 IOS ADVANCED SECURITY c2691-advsecurityk9-mz	64	256
S269EB Cisco 2691 IOS ENTERPRISE BASE WITHOUT CRYPTO c2691-entbase-mz	64	256
S269EBK9 Cisco 2691 IOS ENTERPRISE BASE c2691-entbasek9-mz	64	256
S269ES Cisco 2691 IOS ENTERPRISE SERVICES WITHOUT CRYPTO c2691-entservices-mz	64	256
S269ESK9 Cisco 2691 IOS ENTERPRISE SERVICES c2691-entservicesk9-mz	64	256
S269IPB Cisco 2691 IOS IP BASE WITHOUT CRYPTO c2691-ipbase-mz	32	128
S269IPBK9 Cisco 2691 IOS IP BASE c2691-ipbasek9-mz	32	128
S269IPV Cisco 2691 IOS IP VOICE WITHOUT CRYPTO c2691-ipvoice-mz	64	256

Software Product Description Product ID Product Description Image Filename	Recommended Flash 12.4T	Recommended DRAM 12.4T
S269IVS Cisco 2691 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-ipvoice_ivs-mz	64	256
S269IPVK9 Cisco 2691 IOS IP VOICE c2691-ipvoicek9-mz	64	256
S269SPSK9 Cisco 2691 IOS SP SERVICES c2691-spservicesk9-mz	64	256
S269AESK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES c2691-adventerprisek9-mz	64	256
S269AVSK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-adventerprisek9_ivs-mz	64	256

End-of-Sales Feature Sets in Cisco IOS Software Release 12.4T and Suggested Migration Paths

Table 9 lists Cisco IOS Software feature sets that will be discontinued in Cisco IOS Software Release 12.3T, and suggested migration paths. It should be noted that other active release trains continue to issue maintenance releases of these feature sets. The end of sales applies only to Cisco IOS Software Release 12.3T.

Cisco SMARTnet and other support contracts are transferable from an end-of-sale image to any image suggested as a migration path.

The suggested migration paths are high-level directions for customers migrating from classic feature sets to the cross-platform feature sets introduced in Cisco IOS Software Release 12.3 Mainline. Cisco provides several tools to perform detailed analysis of feature content. To find out which Cisco IOS Software release best supports your needs, Cisco recommends using the [Cisco Software Advisor](#), [Cisco IOS Software Upgrade Planner](#), and [Cisco IOS Software Feature Navigator](#), allowing registered customers and partners to search by feature(s) or release and compare different releases and feature sets.

Table 9. Cisco 2600XM—12.4T End of Sale Feature Sets

End of Sale Software Product Description Product ID Product Description Image Filename	Suggested Migration Path Product ID Product Description Image Filename
S26AR1K9 Cisco 2600 IOS ENTERPRISE/SNASW PLUS IPSEC 3DES c2600-a3jk9s-mz	S26SNAK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2600-adventerprisek9_sna-mz

End of Sale Software Product Description	Suggested Migration Path
Product ID	Product ID
Product Description	Product Description
Image Filename	Image Filename
S26AR1P Cisco 2600 IOS ENTERPRISE/SNASW PLUS c2600-a3js-mz	S26SNAK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2600-adventerprisek9_sna-mz
S26CU Cisco 2600 IOS IP/H323 c2600-ix-mz	S26IVS Cisco 2600 IOS IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-ipvoice_ivs-mz
S26AK9G Cisco 2600 IOS VOICE IP TO IP VOICE GATEWAY IPSEC 3DES c2600-jk9s2-mz	S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz
S26APG Cisco 2600 IOS VOICE IP TO IP VOICE GATEWAY c2600-js2-mz	S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz
S26APU Cisco 2600 IOS ENTERPRISE PLUS/H323 MCM c2600-jsx-mz	S26AVSK9 Cisco 2600 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2600-adventerprisek9_ivs-mz

Table 10. Cisco 2691—12.4T End of Sale Feature Sets

End of Sale Software Product Description	Suggested Migration Path
Product ID	Product ID
Product Description	Product Description
Image Filename	Image Filename
S269AR1K9 Cisco 2691 IOS ENTERPRISE/SNASW PLUS IPSEC 3DES c2691-a3jk9s-mz	S269SNAK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2691-adventerprisek9_sna-mz
S269AR1P Cisco 2691 IOS ENTERPRISE/SNASW PLUS c2691-a3js-mz	S269SNAK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH SNA SWITCHING c2691-adventerprisek9_sna-mz
S269CU Cisco 2691 IOS IP/H323 c2691-ix-mz	S269IVS Cisco 2691 IP VOICE WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-ipvoice_ivs-mz
S269APU Cisco 2691 IOS ENTERPRISE PLUS/H323 MCM c2691-jsx-mz	S269AVSK9 Cisco 2691 IOS ADVANCED ENTERPRISE SERVICES WITH INTEGRATED VOICE/VIDEO GATEKEEPER, IP-IP GATEWAY, TDM-IP GATEWAY c2691-adventerprisek9_ivs-mz

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, 2691, 3725, and 3745 routers 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 11. 7 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		
Enterprise Services	X	X	X	X		X
Advanced Enterprise Services	X	X	X	X	X	X

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