



CISCO IOS SOFTWARE RELEASE 12.3(8)T4

This product bulletin describes the content and delivery information for Cisco® IOS Software Release 12.3(8)T4 which is the fourth rebuild of the fourth release of the 12.3T release. Cisco IOS Software Release 12.3(8)T4 supports the Cisco 1841, Cisco 2801, Cisco 2811, Cisco 2821, and Cisco 2851 Integrated Services Routers as well as the Cisco 1700, Cisco 2600 and Cisco 3700 Access Routers.

As shown in figure 1, the platform and features delivered with this Cisco IOS 12.3(8)T4 release will be incorporated into the first release of Cisco IOS Software Release 12.4 mainline.

This product bulletin for the 12.3(8)T4 release only lists features which are new.

Figure 1. Cisco IOS Software Release 12.3(8)T4 Release Train and Migration Guide to 12.4 Mainline

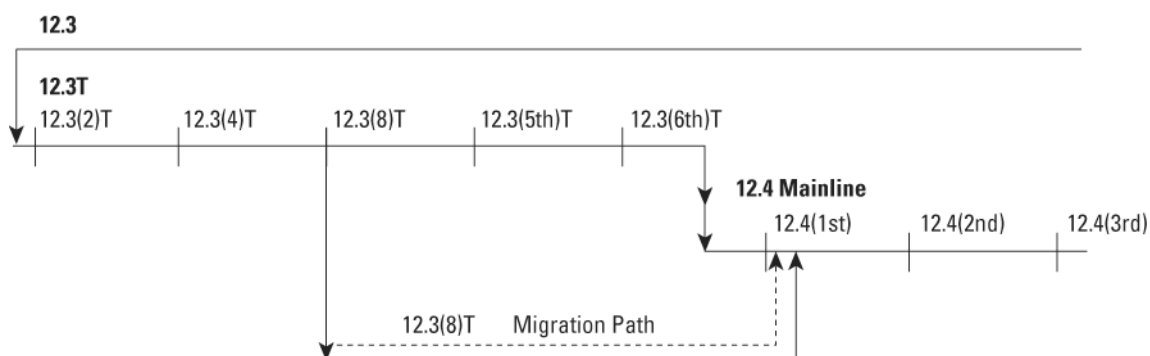


Table 1 lists the features delivered in the Cisco IOS Software Release 12.3(8)T4.

Table 1. Features in 12.8(3)T4

New Hardware Features	Cisco 1841	Cisco 2801	Cisco 2811	Cisco 2821	Cisco 2851
Integrated Services Routing Platforms	Yes	Yes	Yes	Yes	Yes

DETAILED INFORMATION—NEW HARDWARE

Cisco 1800 Series Integrated Services Routers (Modular)

Supported platforms: Cisco 1841; supported in all c1841 cross-platform images

The Cisco 1800 Series Integrated Services Routers (modular) are the next evolution of the award-winning Cisco 1700 Series modular access routers. The Cisco 1800 Series currently consisting of the Cisco 1841 router features secure, fast, and high-quality delivery of multiple, concurrent services for small-to-medium-sized businesses and small enterprise branch offices. It is specifically designed for secure data connectivity and provides significant additional value compared to prior generations of Cisco 1700 Series routers by offering more than a fivefold performance increase. In

addition, the Cisco 1841 router offers embedded hardware-based encryption enabled by an optional Cisco IOS Software security image; further enhancement of VPN performance with an optional VPN acceleration module; an intrusion prevention system (IPS) and firewall functions; interfaces for a wide range of connectivity requirements, including support for optional integrated switch ports; plus sufficient performance and slot density for future network expansion and advanced applications as well as an integrated real-time clock. Further, the Cisco 1841 supports more than 30 existing WAN interface cards (WICs) and multiflex trunk cards (voice/WICs [VWICs] for data only on the Cisco 1841 router) of the Cisco 1700 Series.

For more details see the data sheet of the Cisco 1800 Series <http://www.cisco.com/go/1800>

Cisco 2800 Series Integrated Services Routers

Supported platforms: Cisco 2801, Cisco 2811, Cisco 2821, Cisco 2851; Cisco 2801 is supported in all c2801 cross-platform images and Cisco 2811, Cisco 2821, and Cisco 2851 are supported in all c2800nm cross-platform images.

The Cisco 2800 Series Integrated Services Routers consists of four new platforms: the Cisco 2801, the Cisco 2811, the Cisco 2821, and the Cisco 2851 router. The Cisco 2800 Series provides significant additional value compared to prior generations of Cisco routers at similar price points by offering up to a fivefold performance improvement, up to a tenfold increase in security and voice performance, new embedded service options, and dramatically increased slot performance and density while maintaining support for most of the more than 90 existing interface cards and modules that are available today for the Cisco 1700 Series and Cisco 2600 Series routers. The Cisco 2800 Series features the ability to deliver multiple high-quality simultaneous services at wire speed.

The Cisco 2811, 2821, and 2851 share a single network-module slot, 4 high-density WIC (HWIC) slots, and 2 advanced-integration-module (AIM) slots. The Cisco 2801 offers 4 interface card slots where 2 out of these 4 slots are HWIC slots, 1 slot is a WIC/voice/WIC (VWIC)/voice interface card (VIC)-only slot, and the final slot is a voice-only VWIC/VIC slot. Additionally, the Cisco 2801 offers 2 AIM slots, but does not have network module slots.

All Cisco 2800 routers have onboard hardware-based encryption for Digital Encryption Standard (DES), Triple DES (3DES), Advanced Encryption Standard (AES), and onboard slots for packet voice DSP modules (PVDMs), and they all include high-speed Ethernet interfaces. The Cisco 2801 supports two PVDMs, and two Fast Ethernet connections, whereas the Cisco 2811 adds one single-width network module enhanced (NME) slot as well. The Cisco 2821 offers increased performance, support for an extended single-wide network module, an extension-voice-module (EVM) slot, support for a third PVDM, fixed LAN ports supporting Gigabit Ethernet, and support for up to 48 IP Phones with Cisco Call Manager Express (CME) or Survivable Remote Site Telephony (SRST). The Cisco 2851 offers increased performance over the Cisco 2821, adds support for double-wide and extended double-wide network modules, and offers increased IP phone power support for up to 72* IP Phones with Cisco Call Manager Express (CME) or Survivable Remote Site Telephony (SRST)

***Note:** Up to 96 IP phones will be supported on the Cisco 2851 starting with Cisco IOS 12.3(11)T.

For more details see the data sheet of the Cisco 2800 Series

http://www.cisco.com/en/US/prod/collateral/routers/ps5854/ps5882/product_data_sheet0900aecd8016fa68.html

PRODUCT NUMBERS

Table 2 and Table 3 provide the feature sets, images, and memory recommendations for Cisco IOS Software Release 12.3(8)T4.

Table 2. Cisco IOS Software Release 12.3(8)T4 Cisco 1800 Series Feature Sets, Images, and Memory Recommendations

Platform	Software Product Description	Image File Name	Part Number	Recommended Flash (in Megabyte)	Recommended DRAM (in Megabyte)
Cisco 1841	Cisco 1841 IOS IP BASE	c1841-ipbase-mz	S184IPB-12308T	32	128
Cisco 1841	Cisco 1841 IOS ADVANCED SECURITY	c1841-advsecurityk9-mz	S184ASK9-12308T	32	128
Cisco 1841	Cisco 1841 IOS SP SERVICES	c1841-spservicesk9-mz	S184SPSK9-12308T	32	128
Cisco 1841	Cisco 1841 IOS ENTERPRISE BASE	c1841-entbase-mz	S184EB-12308T	32	128
Cisco 1841	Cisco 1841 IOS ENTERPRISE SERVICES	c1841-entservicesk9-mz	S184ESK9-12308T	32	128
Cisco 1841	Cisco 1841 IOS ADVANCED IP SERVICES	c1841-advipservicesk9-mz	S184AISK9-12308T	32	128
Cisco 1841	Cisco 1841 IOS ADVANCED ENTERPRISE SERVICES	c1841-adventerprisek9-mz	S184AESK9-12308T	32	128

Table 3. Cisco IOS Software Release 12.3(8)T4 Cisco 2800 Series Feature Sets, Images, and Memory Recommendations

Platform	Software Product Description	Image File Name	Part Number	Recommended Flash (in Megabytes)	Recommended DRAM (in Megabytes)
Cisco 2801	IP BASE	c2801-ipbase-mz	S280IPB-12308T	64	128
Cisco 2801	IP VOICE	c2801-ipvoice-mz	S280IPV-12308T	64	128
Cisco 2801	ADVANCED SECURITY	c2801-advsecurityk9-mz	S280ASK9-12308T	64	128
Cisco 2801	SP SERVICES	c2801-spservicesk9-mz	S280SPSK9-12308T	64	128
Cisco 2801	ENTERPRISE BASE	c2801-entbase-mz	S280EB-12308T	64	128
Cisco 2801	ENTERPRISE SERVICES	c2801-entservicesk9-mz	S280ESK9-12308T	64	128
Cisco 2801	ADVANCED IP SERVICES	c2801-advipservicesk9-mz	S280AISK9-12308T	64	128
Cisco 2801	ADVANCED ENTERPRISE SERVICES	c2801-adventerprisek9-mz	S280AESK9-12308T	64	128

Platform	Software Product Description	Image File Name	Part Number	Recommended Flash (in Megabytes)	Recommended DRAM (in Megabytes)
Cisco 2811 Cisco 2821 Cisco 2851	IP BASE	c2800nm-ipbase-mz	S28NIPB-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	IP VOICE	c2800nm-ipvoice-mz	S28NIPV-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	ADVANCED SECURITY	c2800nm-advsecurityk9-mz	S28NASK9-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	SP SERVICES	c2800nm-spservicesk9-mz	S28NSPSK9-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	ENTERPRISE BASE	c2800nm-entbase-mz	S28NEB-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	ENTERPRISE SERVICES	c2800nm-entservicesk9-mz	S28NESK9-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	ADVANCED IP SERVICES	c2800nm-advipservicesk9-mz	S28NAISK9-12308T	64	256
Cisco 2811 Cisco 2821 Cisco 2851	ADVANCED ENTERPRISE SERVICES	c2800nm-adventerprisek9-mz	S28NAESK9-12308T	64	256

DOWNLOAD INFORMATION

Customers can download Cisco IOS Software Release 12.3(8)T4 Software from the Cisco.com software image library.

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