

Cisco IOS Software Release 12.3(2)XE

This product bulletin describes the content and delivery information for Cisco IOS Software Release 12.3(2)XE. It should be used in conjunction with the Cisco IOS Software Release 12.3T product bulletin. Cisco IOS Software Release 12.3(2)XE is a short-lived, early-deployment release that will be supported in the fourth release of Cisco IOS Software Release 12.3T. It supports the Cisco 1700 Series routers (Cisco 1701, Cisco 1710, Cisco 1711, Cisco 1712, Cisco 1720, Cisco 1721, Cisco 1751, Cisco 1751-V and Cisco 1760) and Cisco SOHO 90 Series (SOHO 91, SOHO 96, SOHO 97), Cisco 827-4V and Cisco 828 and 830 Series Routers (Cisco 831, Cisco 836 and Cisco 837).

The platform and features delivered with this early-deployment release will be immediately incorporated into the fourth release of Cisco IOS Software Release 12.3T. The timeframe for the availability of the fourth release of the Cisco IOS Software Release 12.3T train is the second quarter of 2004 (target Cisco.com date is April/May 2004). Please note that this timeframe is subject to change.

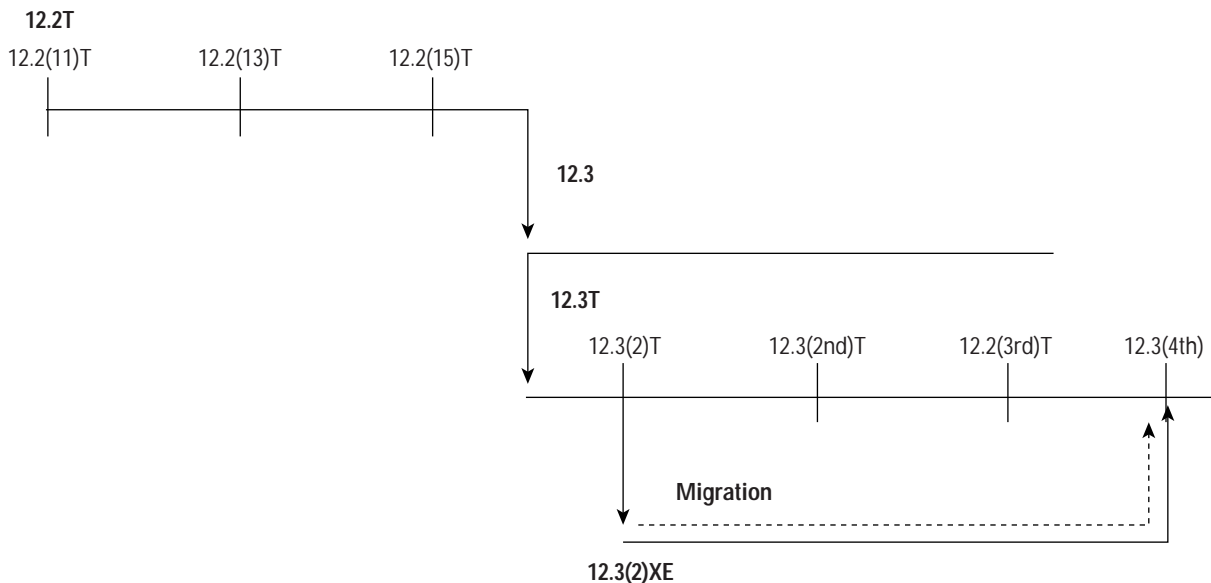
Future early deployment releases will be provided for maintenance support until Cisco IOS Software Release 12.3(2)XE becomes available in the fourth release of Cisco IOS Software Release 12.3T.

In addition to the supported features described in this product bulletin, more information is available in the release notes for Cisco IOS Software Release 12.3(2)XE.

Customers should prepare to upgrade using the migration path shown in Figure 1.

Note: This 12.3(2)XE release only lists features which are new to the respective platforms.

Figure 1
Cisco IOS Software Release 12.3(2)XE Release Train and Migration Guide





New Features in Cisco IOS Software Release 12.3(2)XE

Table 1 lists the features delivered in the Cisco IOS Software Release 12.3(2)XE.

Table 1 Cisco IOS Software Release 12.3(2)XE features

New Features	SOHO91	SOHO96	SOHO97	Cisco 827-4V	Cisco 828	Cisco 831	Cisco 836	Cisco 837
New Software Features								
ADSL Firmware enhancements for U-R2	No	Yes	No	No	No	No	Yes	No
Public Wireless LAN	No	No	No	No	Yes	Yes	Yes	Yes
NBAR	No	No	No	No	No	Yes	Yes	Yes
SSHv2	No	No	No	No	No	Yes	Yes	Yes
Embedded syslog mgr (SMTP e-mail alert)	No	No	No	No	No	Yes	Yes	Yes

Table 2 Cisco IOS Software Release 12.3(2)XE features

New Features	Cisco 1701	Cisco 1710	Cisco 1711	Cisco 1712	Cisco 1720	Cisco 1721	Cisco 1751/1751-V	Cisco 1760
New Software Features								
Dial Backup	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Conferencing and Transcoding for Voice Gateway Routers	No	No	No	No	No	No	Yes	Yes
NAT—Support for H.323v3 and v4 in v2 Compatibility mode	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
AutoQoS Phase 1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Modem Passthrough over Voice over IP (for SIP & MGCP)	No	No	No	No	No	No	Yes	Yes
Easy VPN server enhancements	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Crypto Map for DNS peers	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
SSH version 2 support	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Embedded syslog manager	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
IPSec tunnel status, peer diagnostics and debug support enhancements	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Access Control List Bypass support	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Cisco IOS Infrastructure Security enhancements	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes



Table 2 Cisco IOS Software Release 12.3(2)XE features (Continued)

New Features	Cisco 1701	Cisco 1710	Cisco 1711	Cisco 1712	Cisco 1720	Cisco 1721	Cisco 1751/1751-V	Cisco 1760
Cisco CallManager Express 3.0	No	No	No	No	No	No	Yes	Yes
SIP-SRST	No	No	No	No	No	No	Yes	Yes
Survivable Remote Site Telephony 3.0	No	No	No	No	No	No	Yes	Yes

Detailed Information

New Software Features

Cisco 836 Interoperability Enhancements for U-R2

Supported platforms: Cisco 836 and SOHO 96; supported in all images.

An enhanced version of ADSL firmware is available for Cisco 836, specifically for U-R2 interfaces. This firmware is not bundled with the Cisco IOS release, but is available from Cisco upon request for download to the router from the Flash memory.

Public Wireless LAN

Supported platforms: Cisco 831, 836, 837 and 828; supported in all images.

- Access Zone Router Function
 - **Static IP Support**—The Cisco solution will support client computers with static-IP addresses whereby these clients are able to connect to a Cisco enabled public WLAN without any reconfiguration of the client computer.
 - **Location Identification**—Option 82 Support on Access Router – Service providers that install the Cisco solution in locations such as airports need to be able to differentiate which access point (via the AP’s IP address) a new user is attempting to connect to in the initial stage of the authentication process. Using the AP’s IP address, Subscriber Edge Services Manager (SESM) can be configured to provide a distinct logon web page per AP or set of APs.
 - **Common MAC format in Calling_Station_ID**—Accommodate MAC address format in Calling_Station_ID change from vxWorks format (AP350) to IOS format (AP1100 and AP1200). AZR will be modified to support IOS Calling_Station_ID MAC address format and all access points must be IOS (if an AP350 is used, it must be upgraded to Cisco IOS Software, available in 4QCY’03) to compatible.

The following IOS features have been implemented on the Cisco 800 Series broadband platforms to support this application.

- Authenticated ARP
- DHCP-IP spoofing
- DHCP option 82
- DHCP accounting
- Static IP

Network-Based Application Recognition (NBAR)

Supported platforms: Cisco 831, 836, 837; supported in PLUS, PLUS ISDN DIAL BACKUP images.



NBAR is a functionality to look deep into packets in order to classify packets based on application level protocol information such as to understand the application and the content of data.

Embedded Syslog Manager (SMTP Email alert)

Supported platforms: Cisco 831, 836 and 837; supported in all images.

The embedded syslog manager features real-time alerts sent via e-mail to specific users. In addition to provide syslog files, it sends e-mail to predefined users.

Secure Shell Version 2 (SSHv2) Support

Supported platforms: Cisco 831, 836 and 837; supported in all images.

SSHv2 addresses the weaknesses and vulnerabilities that exist today with SSHv1 implementations. These include malicious man-in-the-middle (MITM) attacks and integrity violations.

An enterprise customer or service provider intending to use automated remote secure telnet access for configuration and administration of router resources on a larger scale in the network will benefit from SSHv2. The secure telnet session establishment with SSHv2 is much faster than SSHv1.

Reliable Static Routing Backup Using Object Tracking

Supported platforms: Cisco 1701, 1710, 1711, 1712, 1721, 1751/1751-V and 1760; supported in all legacy images (y) and all cross-platform images except IP BASE.

The Reliable Static Routing Backup Using Object Tracking feature allows for backup connections (for example, DDR) to be initiated by customer premises equipment (CPE) in scenarios where only static routes are used. The feature allows a target to be identified and pinged (or notified) via SAA over the primary interface. If the pings fail, the static route is removed from the routing table, triggers the predefined backup connection to be initiated on a backup interface. The pings continue to be transmitted over the primary interface. If the pings become successful again, the connection is reconstituted over the primary interface.

Conferencing and Transcoding for Voice Gateway Routers

Supported platforms: Cisco 1751/1751-V and 1760; supported in legacy images containing VOX/PLUS images (sv8) and cross-platform images containing IP VOICE.

The Cisco Conferencing and Transcoding for Voice Gateway Routers feature provides enhanced multiservice support for Cisco routers in a Cisco CallManager network. This is accomplished by enabling audio conference and transcoding functions in the routers. This single-package solution simplifies deployments and eases administration. Cisco 1751 and 1760 support one conferencing sessions of six parties per single DSP (PVDM-256K-4); and support two transcoding channels per single DSP (PVDM-256K-4) to/from G.729a, G.729ab, G.723r63 to G.711 u-law and a-law.

Note: This requires Cisco CallManager 3.3(2) or higher.

For the DSP resources required for your configuration, please refer to the DSP Calculator in the following URL link: <http://www.cisco.com/cgi-bin/Support/DSP/dsp-calc.pl>

NAT—Support for H.323v3 & v4 in v2 Compatibility Mode

Supported platforms: Cisco 1701, 1710, 1711, 1712, 1721, 1751/1751-V and 1760; supported in all legacy images (y) and cross-platform images;



NAT support of H.323 Version 3 and Version 4. This support is required by Cisco and third-party gatekeepers, such as Clarent.

AutoQoS Phase 1

Supported platforms: Cisco 1701, 1710, 1711, 1712, 1721, 1751/1751-V and 1760; supported in all legacy images (y) and cross-platform images.

The AutoQoS—VoIP feature allows you to automate the delivery of quality of service (QoS) on your network and provides a means for simplifying the implementation and provisioning of QoS for voice-over-IP (VoIP) traffic.

Modem Passthrough over Voice over IP (for SIP and MGCP)

Supported platforms: Cisco 1751/1751-V and 1760; supported in legacy images containing VOX/PLUS images (sv8) and cross-platform images containing IP VOICE.

It delivers VoIP Modem Passthrough functionality over SIP and MGCP signaling protocols.

Cisco IOS VPN and Firewall enhancements

Supported platforms: Cisco 1701, 1710, 1711, 1712, 1721, 1751/1751-V and 1760; supported in legacy images containing IPSec 3DEC (k9) and cross-platform images containing SP Services or Advanced Security Services.

- **Easy VPN Server**

This release adds enhancements to the existing support for accepting IPSec VPN connections from Cisco VPN clients and Cisco Easy VPN remote devices on the Cisco 1700 platforms.

- **Real-Time Resolution for IPSec Tunnel Peer**

This feature allows the user to configure the IPSec peers as DNS names, instead of IP addresses. This feature also allows DNS resolution at the time of IPSec tunnel establishment, instead of using a cached entry.

- **Secure Shell Version 2 Support**

This version of Cisco IOS Software adds support for SSHv2, a standards-based protocol that provides secure Telnet capability for router configuration and administration.

- **IPSec VPN Monitoring**

This feature adds enhancements for VPN session monitoring enhancements via the Cisco IOS command-line interface (CLI).

- **Firewall ACL Bypass**

This feature provides performance enhancements by removing redundant access control list (ACL) checks in the Cisco IOS firewall inspection code.

- **Embedded Syslog Manager (ESM)**

This feature provides enhanced system logging services, including device-level syslog message filtering and reliable delivery of syslog messages to a remote syslog server.

Cisco IOS Infrastructure Security Enhancements

Supported platforms: Cisco 1701, 1710, 1711, 1712, 1721, 1751/1751-V and 1760; supported in legacy images containing IPSec 3DEC (k9) and cross-platform images containing SP Services or Advanced Security Services.

- **Image Verification**



This feature adds support for checking integrity of Cisco IOS images. The user can verify the validity of the image while copying to Flash or before reload using the verify command.

- **Silent Operation Mode**

This feature adds support for silent operating mode in which a Cisco 1700 router operates in a network without sending any messages (such as syslog).

- **Control Plane Policing**

This feature allows user to apply QoS to Control and Management plane traffic.

- **DIOS CPU usage monitoring**

This feature adds enhancements for CPU usage monitoring interface on the Cisco 1700 routers.

- **IOS login enhancements**

This feature adds enhancements for capturing failed access in syslog, better protection from dictionary attacks with increased prompt delays with each failed attempt.

Cisco CallManager Express Version 3.0

Supported platforms: Cisco 1751/1751-V and 1760; supported in legacy images containing VOX/PLUS images (sv8) and cross-platform images containing IP VOICE.

Cisco CallManager Express (CCME) Version 3.0 delivers the next-generation CCME feature set.

Cisco CCME Version 3.0 supports the following enhancements:

- CCME setup tool for quick installation
- Automatic assignment of free extension numbers to new IP phones
- Call pickup and call-pickup groups
- Night service
- Call-blocking (toll bar) based on time of day, day of week, or date
- Hunt groups
- Secondary dial tone
- Cisco IP Phone 7902G Support
- Cisco IP Phone 7912G Support
- Speed dial
- Account code entry
- Callback Busy Subscriber
- Do Not Disturb feature
- Several international languages and call-progress tone sets are newly supported, as well as international date and time formats; the set of supported languages varies by phone type
- Call-forward-all soft key on Cisco IP phones
- Flash soft key for hookflash functionality for the PSTN
- Dual-line mode
- Extension overlays for better call handling and distribution
- CCME GUI enhancements



- Label support
- Busy lamp monitor and direct station select
- Phone directory entry
- Silent and feature ring options
- New and modified commands

Approximately 35 new and modified commands are described in the Command Reference at

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122limit/122z/122zj15/itsv30/its30cmd.htm>

For further information, refer to the Cisco CCME System Administrator Guide Version n 3.0 at the following URL: <http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122limit/122z/122zj15/itsv30/index.htm>

SIP Survivable Remote Site Telephony (SRST)

Supported platforms: Cisco 1751/1751-V and 1760; supported in legacy images containing VOX/PLUS images (sv8) and cross-platform images containing IP VOICE;

The SIP Survivable Remote Site Telephony (SRST) feature describes SRST functionality for Session Initiation Protocol (SIP) networks. SIP-SRST provides backup to an external SIP proxy server by providing basic registrar and redirect services. An SIP IP phone uses these services in the event of a WAN connection outage and the SIP phone is unable to communicate with CCME primary SIP proxy. The SIP-SRST device also provides PSTN gateway access for placing and receiving PSTN calls.

SIP-SRST provides four new features:

- SIP registrar
- Sending 300 Multiple choice Messages
- NOTIFY-Based Out-of-Band DTMF Relay
- SIP Register Support

For additional information, refer to the SIP Survivable Remote Site Telephony (SRST) feature module at:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122limit/122z/122zj15/ftsprst.htm>

Cisco Survivable Remote Site Telephony (SRST) Version 3.0

Supported platforms: Cisco 1751/1751-V and 1760; supported in legacy images containing VOX/PLUS images (sv8) and cross-platform images containing IP VOICE.

The Cisco SRST Version 3.0 feature supports the following enhancements:

- Cisco IP Phone 7902G Support
- Cisco IP Phone 7912 Support
- Customized System Message for Cisco IP Phones
- Consultative Call Transfer Using the H.450.2 Standard
- Dual-Line Mode
- European Date Formats
- Music-on-Hold for Multicast from Flash Files
- Ringing Timeout Default
- Show ephone Command



The show ephone command has been enhanced to display the following:

- Configuration and status of phones of the specified type (new keywords:7914, 7905, 7935, ATA)
- Status of all phones with the call-forwarding all calls (CFA) feature enabled on at least one of their DN's (new keyword:cfa),
- Syslog Messages for Phone Registrations
- Three-Party G.711 Ad Hoc Conferencing
- Additional language support on Cisco IP Phones
- New and modified commands

There are approximately 10 new and modified commands. They are described at: http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122limit/122z/122zj15/srs30/srs_cmds.htm

For further information about the SRST Version 3.0 features, refer to the Cisco SRST System Administrator Guide Version 3.0 at the following URL: <http://www.cisco.com/univercd/cc/td/doc/product/software/ios122/122newft/122limit/122z/122zj15/itsv30/index.htm>

Product Numbers

Table 3, Table 4 and Table 5 provide the feature sets, images and memory recommendations for Cisco IOS Software Release 12.3(2)XE.

Note:

1. Cisco 1710 is limited to 16 MB of Flash memory.
2. All Cisco 1700 platforms with the exception of Cisco 1710 that are listed in Table 3 support Security Device Manager (SDM). Please note that SDM requires an additional 2.3 MB of Flash memory.

Table 3 Cisco IOS Software Release 12.3(2)XE Cisco SOHO and 800 Feature Sets, Images and Memory Recommendations

Platform	Feature Set	Image Name	Image File Name	Recommended Memory	
				Flash	DRAM
Cisco 827-4V	IP/VOICE	Cisco 827-4V IOS IP/VOICE	c820-v6y6-mz	12 MB	48 MB
	IP/VOICE PLUS	Cisco 827-4V IOS IP/VOICE PLUS	c820-sv6y6-mz	12 MB	48 MB
	IP/FW/VOICE	Cisco 827-4V IOS IP/FW/VOICE	C820-ov6y6-mz	12 MB	48 MB
	IP/FW VOICE PLUS 3DES	Cisco 827-4V IOS IP/FW/VOICE PLUS 3DES	C820-k9osv6y6-mz	12 MB	48 MB



Table 3 Cisco IOS Software Release 12.3(2)XE Cisco SOHO and 800 Feature Sets, Images and Memory Recommendations

Platform	Feature Set	Image Name	Image File Name	Recommended Memory	
				Flash	DRAM
Cisco 828	IP	Cisco 828 Series IOS IP	c828-y6-mz	8 MB	32 MB
	IP/FW	Cisco 828 Series IOS IP/ FW	c828-oy6-mz	8 MB	32 MB
	IP PLUS	Cisco 828 Series IOS IP PLUS	c828-sy6-mz	8 MB	32 MB
	IP/FW/PLUS 3DES	Cisco 828 Series IOS IP/ FW/PLUS 3DES	c828-k9osy6-mz	8 MB	32 MB
Cisco 831	IOS IP/FW 3DES	Cisco 831 IOS IP/FW 3DES	c831-k9o3y6-mz	12 MB	32 MB
	IOS IP/FW/PLUS 3DES	Cisco 831 IOS IP/FW PLUS 3DES	c831-k9o3sy6-mz	12 MB	48 MB
Cisco 836	IOS IP/FW 3DES	Cisco 836 IOS IP/FW 3DES	c836-k9o3y6-mz	12 MB	48M B
	IOS IP/FW/PLUS 3DES	Cisco 836 IOS IP/FW PLUS 3DES	c836-k9o3sy6-mz	12 MB	48 MB
	IOS IP/FW/PLUS DIAL BACKUP 3DES	Cisco 836 IOS IP/FW PLUS DIAL BACKUP 3DES	c836-k9o3s8y6-mz	12 MB	48 MB
Cisco 837	IOS IP/FW 3DES	Cisco 837IOS IP/FW 3DES	c837-k9o3y6-mz	12 MB	48 MB
	IOS IP/FW/PLUS 3DES	Cisco 837 IOS IP/FW PLUS 3DES	c837-k9o3sy6-mz	12 MB	48 MB
SOHO91	IP/FW 3DES	Cisco SOHO91 Series IP/ FW 3DES	soho91-k9oy6-mz	8 MB	32 MB
SOHO96	IP/FW 3DES	Cisco SOHO96 Series IP/ FW 3DES	soho96-k9oy1-mz	8 MB	32 MB
SOHO97	IP/FW 3DES	Cisco SOHO97 Series IP/ FW 3DES	soho91-k9oy1-mz	8 MB	32 MB
SOHO78	IP	Cisco SOHO78 Series IP	soho78-y1-mz	8 MB	16 MB



Table 4 Cisco IOS Software Release 12.3(2)XE Cisco 1700 Legacy Feature Sets, Images, and Memory Recommendations

Cisco 1700 Legacy Images				Recommended Memory	
Platform	Image Name	Feature Set	Image File Name	Flash	DRAM
Cisco 1710 ¹	Cisco 1700 IOS IP/FW/IDS PLUS IPSEC 3DES	IP/FW/IDS PLUS IPSEC 3DES	c1710-k9o3sy-mz	16 MB	64 MB
Cisco 1710 ¹	Cisco 1700 IOS IP/IPX/AT/IBM/FW/IDS PLUS IPSEC 3DES	IP/IPX/AT/IBM/FW/IDS PLUS IPSEC 3DES	c1710-bk9no3r2sy-mz	16 MB	64 MB
Cisco 1751/1751-V/1760	Cisco 1700 IOS IP/ADSL/VOX PLUS	IP/ADSL/VOX PLUS	c1700-sv8y7-mz	32 MB	96 MB
Cisco 1751/1751-V/1760	Cisco 1700 IOS IP/ADSL/VOX/FW/IDS PLUS IPSEC 3DES	IP/ADSL/VOX/FW/IDS PLUS IPSEC 3DES	c1700-k9o3sv8y7-mz	32 MB	96 MB
Cisco 1751/1751-V/1760	Cisco 1700 IOS IP ADSL/IPX/AT/IBM/VOX/ FW/IDS PLUS IPSEC 3DES	IP ADSL/IPX/AT/IBM/VOX/ FW/IDS PLUS IPSEC 3DES	c1700-bk9no3r2sv8y7-mz	32 MB	128 MB
Cisco 1701/1721/ 1751/1751-V/1760	Cisco 1700 IOS IP ADSL PLUS	IP ADSL/PLUS	c1700-sy7-mz	16 MB	64 MB
Cisco 1720/1721/ 1751/1751-V/1760	Cisco 1700 IOS IP	IP	c1700-y-mz	16 MB	48 MB
Cisco 1701/1721/1751/1751-V/1760	Cisco 1700 IOS IP ADSL/IPX/ AT/IBM PLUS	IP ADSL/IPX/ AT/IBM PLUS	c1700-bnr2sy7-mz	16 MB	64 MB
Cisco 1701/1711/1712/1721/1751/1751-V/1760	Cisco 1700 IOS IP ADSL/IPX/AT/IBM/FW/IDS PLUS IPSEC 3DES	IP ADSL/IPX/AT/IBM/FW/ IDS PLUS IPSEC 3DES	c1700-bk9no3r2sy7-mz	32 MB	96 MB
Cisco 1701/1720/1721/1751/1751-V/1760	Cisco 1700 IOS IP/ADSL	IP/ADSL	c1700-y7-mz	16 MB	48 MB
Cisco 1701/1711/1712 /1721/1751/1751-V/1760	Cisco 1700 IOS IP/ADSL/FW/IDS PLUS IPSEC 3DES	IP/ADSL/FW/IDS PLUS IPSEC 3DES	c1700-k9o3sy7-mz	16 MB	64 MB

1. Security Device Manager (SDM) is NOT supported on the Cisco 1710



Table 5 Cisco IOS Software Release 12.3(2)XE Cisco 1700 Cross-Platform Feature Sets, Images, and Memory Recommendations

Cisco Cross-Platform Images				Recommended Memory	
Platform	Image Name	Feature Set	Image File Name ¹	Flash	DRAM
Cisco 1751/ 1751-V/ 1760	Cisco 1700 IP VOICE	IP VOICE	c1700-ipvoice-mz	32 MB	96 MB
Cisco 1701/ 1721/1751/ 1751-V/1760	Cisco 1700 IOS ADVANCED IP SERVICES	ADVANCED IP SERVICES	c1700-advipservicesk 9-mz	32 MB	96 MB
Cisco 1701/ 1721/1751/ 1751-V/ 1760	Cisco 1700 IOS SP SERVICES	SP SERVICES	c1700-spservicesk9- mz	32 MB	96 MB
Cisco 1701/ 1721/1751/ 1751-V/1760	Cisco 1700 IOS ENTERPRISE SERVICES	ENTERPRISE SERVICES	c1700-entservicesk9- mz	32 MB	96 MB
Cisco 1701/ 1711/1712/1721/ 1751/1751-V/ 1760	Cisco 1700 IOS ADVANCED ENTERPRISE SERVICES	ADVANCED ENTERPRISE SERVICES	c1700-adventerprisek 9-mz	32 MB	128 MB
Cisco 1701/ 1721/1751/ 1751-V/1760	Cisco 1700 IP BASE	IP BASE	c1700-ipbase-mz	16 MB	64 MB
Cisco 1701/ 1721/1751/ 1751-V/1760	Cisco 1700 ENTERPRISE BASE	ENTERPRISE BASE	c1700-entbase-mz	16 MB	64 MB
Cisco 1701/ 1711/1712/1721/ 1751/1751-V/ 1760	Cisco 1700 ADVANCED SECURITY	ADVANCED SECURITY	c1700-advsecurityk9- mz	16 MB	64 MB

1. Please see product bulletin “Cisco IOS Software Release 12.3 Mainline and 12.3T Feature Sets for Cisco 1700 Series Routers”—http://www.cisco.com/en/US/products/hw/routers/ps221/prod_bulletin09186a008016122f.html

Download Information

Customers can download Cisco IOS Software Release 12.3(2)XE Software from the [Cisco.com](http://www.cisco.com) software image library.

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