

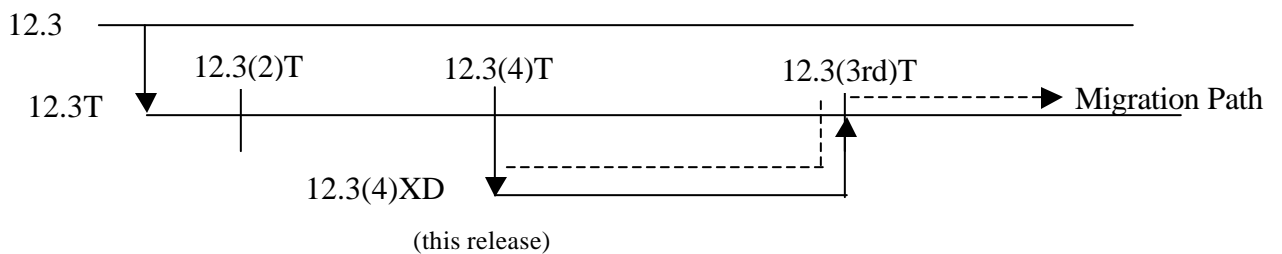
Cisco IOS X-Release 12.3(4)XD

Introduction

This Product Bulletin describes the content and delivery information concerning Cisco IOS(TM) software release 12.3(4)XD. It should be used in conjunction with Product Bulletin titled, Cisco IOS Software Release 12.3T. 12.3(4)XD is a short lived Early Deployment (ED) release parented to 12.3(4)T and supporting Cisco VG224, IAD2430, c2600XM, c2691, c3631, c3640, c3660, c3725, and c3745 Platforms. This release contains all new features delivered in 12.3 up to 12.3(4)T.

The platform and features delivered with this ED release will be immediately incorporated into Cisco IOS 12.3(3rd)T and subsequent Cisco IOS 12.3(3rd)T releases. **It is important to note that there are three planned maintenance releases for this X release. In addition, please note the migration path to the latest T release. Customers should prepare to upgrade using this migration path**

Diagram 1: Cisco IOS Release 12.3(4)XD Release Train and Migration Guide



New Features in Cisco IOS Release 12.3(4)XD

The following features will be delivered in the initial release of [12.3\(4\)XD](#).

Table 1. Cisco IOS Release 12.3(4)XD New Features

New Feature	Cisco VG224	Cisco IAD 2430	Cisco 2600XM	Cisco 2691	Cisco 3640/A	Cisco 3660	Cisco 3725	Cisco 3745
Four-Wire Mode for SHDSL			x	x			x	x
E1 support on IAD2430 Series	x	x						
VG224 Platform	x							
NM-8AM-V2, NM-16AM-V2			x	x		x	x	x
Loss Less Compression R1, ATM Cell Switching, External BITS Clocking Source						x		x
ADSL over POTS with Dying Gasp			x	x			x	x
Land Mobile Radio over IP			x	x		x	x	x
Enhanced ITU-T G.168 Echo Cancellation		x	x	x	x	x	x	x
Static IP (AZR) and SSG Plug-and-Play			x	x			x	x
VxML capability on 26/37 platforms				x			x	x
Network Analysis Module (NAM)			x	x		x	x	x

Please see the next section for documents that address details on these new features. Any ED release of software should be utilized first in a test network before being deployed in a production network.

Detailed Information

Four -Wire Mode for SHDSL

Four-Wire Mode for SHDSL can provide increased data rates over SHDSL (up to 4.6Mbps) and/or longer reach on lower data rates.

E1 support on IAD2430 Series

Support of E1 WAN and E1 Digital PBX on board for products: IAD2431-8FXS, IAD2431-16FXS, IAD2431-1T1E1, IAD2432-24FXS

NM-8AM-V2, NM-16AM-V2

8 Port and 16 Port Analog Modem Network Module with v.92

Loss Less Compression R1, ATM Cell Switching, External BITS Clocking Source

Lossless Compression Codec for compression of TDM bit streams (e.g., GSM) using NM-HDV, ATM cell switching using AIM-ATM-xxx for ATM traffic (e.g., 3G UMTS), External BITS Clocking Source (T1/E1)

ADSL over POTS with Dying Gasp

1 port ADSL over POTS Wan Interface Card with Dying Gasp support

Land Mobile Radio over IP

LMR enabled Cisco Multi-service routers will be able to transport LMR traffic over IP networks enabling Land Mobile Radio systems to extend beyond their traditional geographic limitations created by transmitter signal strength.

Enhanced ITU-T G.168 Echo Cancellation

The Enhanced ITU-T G.168 Echo Cancellation is extended to include platforms using the TI C5510 DSP.

Static IP (AZR) and SSG Plug-and-Play

AZR, SSG and associated Plug-and-Play features

VxML capability on the next generation 26/37 platforms
VxML capability on the next generation 26/37 platforms

Network Analysis Module (NAM)
Network Analysis Module for platforms providing RMON2 and extended RMON capabilities

VG224 Platform
24 port analog phone gateway for AVVID architectures

For more detailed information about the platforms and features being delivered in 12.3(4)XD, please reference the following documents:

- <http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/iad2430/index.htm>
- <http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/2600/index.htm>
- <http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/3600/index.htm>
- <http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/3700/index.htm>
- <http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/vg224/index.htm>

Support

Cisco IOS software release 12.3(4)XD follows the standard Cisco support policy as indicated in the following link.
<http://www.cisco.com/warp/public/437/27.html>

Product Numbers

Table 2. Cisco IOS Release 12.3(4)XD Feature Sets, Images, and Memory Recommendations

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
725	ADVANCED ENTERPRISE SERVICES	S372AESK9-12304XD	c3725-adventerprisek9-mz	32MB	128MB
725	ENTERPRISE BASE	S372SEB-12304XD	c3725-entbase-mz	32MB	128MB
725	IP BASE	S372IPB-12304XD	c3725-ipbase-mz	32MB	128MB
725	IP VOICE	S372IPV-12304XD	c3725-ipvoice-mz	32MB	128MB
725	SP SERVICES	S372SPSK9-12304XD	c3725-spservicesk9-mz	32MB	128MB
745	ADVANCED ENTERPRISE SERVICES	S374AESK9-12304XD	c3745-adventerprisek9-mz	64MB	128MB
745	ENTERPRISE BASE	S374EB-12304XD	c3745-entbase-mz	32MB	128MB
745	IP BASE	S374IPB-12304XD	c3745-ipbase-mz	32MB	128MB
745	IP VOICE	S374IPV-12304XD	c3745-ipvoice-mz	32MB	128MB
745	SP SERVICES	S374SPSK9-12304XD	c3745-spservicesk9-mz	64MB	128MB

atform	Software Feature Set	Product Code	Image	Flash	DRAM
VD2430	IP SUBSET/IPSEC 64BIT/FW/VOICE	S243VGK9-12304XD	c2430-i6k9o3s-mz	32MB	64MB
VD2430	IP SUBSET/VOICE	S243VG-12304XD	c2430-i6s-mz	32MB	64MB
VD2431-IAD2432	IP PLUS/IPSEC 64BIT/FW/VOICE	S243CHK9-12304XD	c2430-ik9o3s-mz	64MB	128MB
VD2431-IAD2432	IP PLUS	S243CP-12304XD	c2430-is-mz	64MB	128MB
310XM-2611XM /2620XM-321XM /2651XM /2650XM-351XM	ADVANCED ENTERPRISE SERVICES	S26AESK9-12304XD	c2600-adventerprisek9-mz	32MB	128MB
310XM-2611XM /2620XM-321XM /2651XM /2650XM-351XM	ENTERPRISE BASE	S26EB-12304XD	c2600-entbase-mz	32MB	96MB
310XM-2611XM /2620XM-321XM /2651XM /2650XM-351XM	IP BASE	S26IPB-12304XD	c2600-ipbase-mz	16MB	64MB
310XM-2611XM /2620XM-321XM /2651XM /2650XM-351XM	IP VOICE	S26IPV-12304XD	c2600-ipvoice-mz	32MB	96MB
310XM-2611XM /2620XM-321XM /2651XM /2650XM-351XM	SP SERVICES	S26SPSK9-12304XD	c2600-spservicesk9-mz	32MB	128MB
391	ADVANCED ENTERPRISE SERVICES	S269AESK9-12304XD	c2691-adventerprisek9-mz	64MB	128MB
391	ENTERPRISE BASE	S269EB-12304XD	c2691-entbase-mz	32MB	128MB
391	IP BASE	S269IPB-12304XD	c2691-ipbase-mz	32MB	128MB
391	IP VOICE	S269IPV-12304XD	c2691-ipvoice-mz	32MB	128MB
391	SP SERVICES	S269SPSK9-12304XD	c2691-spservicesk9-mz	64MB	128MB
340 /3640A	IP/FW/IDS PLUS IPSEC 3DES	S364CHK9-12304XD	c3640-ik9o3s-mz	32MB	128MB
340 /3640A	IP PLUS	S364CP-12304XD	c3640-is-mz	32MB	96MB
340 /3640A	ENTERPRISE/FW/IDS PLUS IPSEC 3DES	S364AHK9-12304XD	c3640-jk9o3s-mz	32MB	128MB
340 /3640A	ENTERPRISE PLUS	S364AP-12304XD	c3640-js-mz	32MB	128MB
360	IP/FW/IDS PLUS IPSEC 3DES	S366CHK9-12304XD	c3660-ik9o3s-mz	64MB	128MB
360	IP PLUS	S366CP-12304XD	c3660-is-mz	32MB	128MB
360	ENTERPRISE/FW/IDS PLUS IPSEC 3DES	S366AHK9-12304XD	c3660-jk9o3s-mz	64MB	64MB
360	ENTERPRISE PLUS	S366AP-12304XD	c3660-js-mz	64MB	64MB
G224	IP SUBSET/IPSEC 64 BIT/VOICE	SVGVGK9-12304XD	vg224-i6k9s-mz	32MB	64MB
G224	IP SUBSET/VOICE	SVGVG-12304XD	vg224-i6s-mz	32MB	64MB

Download Information

Customers can download Cisco IOS Release 12.3(4)XD software from Cisco Connection Online (CCO) in the Software Image Library.

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/iad2430/index.htm>

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/2600/index.htm>

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/3600/index.htm>

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/3700/index.htm>

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/123relnt/vg224/index.htm>

Special Note to Customers[Directions: Use this section to provide any special information to customers. It is an optional section and should be deleted if not used. An example is provided.]