



Q&A

CISCO AS5350XM AND AS5400XM

MIGRATING FROM THE CISCO AS5350, AS5400, OR AS5400HPX TO THE CISCO AS5350XM OR AS5400XM

- Q.** Will my current digital signal processor (DSP) and time-division multiplexing (TDM) cards work in the new Cisco® AS5000XM products?
- A.** All NP60, NP108, T1, E1, and CT3A cards work. CT3 cards shipped after January 2005 are supported in the new Cisco AS5000XM. Cards shipped prior to this date may not work and are not supported on the Cisco AS5000XM.
- Q.** Are all the features on the Cisco AS5000 (Cisco AS5350, AS5400, and AS5400HPX) supported on the Cisco AS5000XM (Cisco AS5350XM and AS5400XM)?
- A.** The Cisco AS5000XM products support all the applications that are supported on the Cisco AS5000, including dial, voice over IP (VoIP), and fax. The Cisco AS5000XM supports all the command-line interface (CLI) and configuration options of the current Cisco AS5000. Cisco Systems® proprietary Inter-Switch Links (ISLs) are not supported. Standard 801.1G VLANs are supported.
- Q.** How can I tell a Cisco AS5350 from a Cisco AS5350XM, or a Cisco AS5400 or AS5400HPX from a Cisco AS5400XM?
- A.** The **show version** command distinguishes the specific hardware. In addition, the chassis contains a silk screen that identifies the unit as a Cisco AS5400XM or AS5350XM and it has GE0 and GE1 identified.
- Q.** Will the Cisco AS5000XM accept my current Cisco IOS® Software configuration?
- A.** Yes, the only item that has changed is that the Ethernet interfaces are identified as Gigabit Ethernet instead of Fast Ethernet. The configuration commands are automatically migrated from FE0 to GE0 and FE1 to GE1. If you want to maintain the interfaces as FE0 or FE1, you can change them by setting a “cookie” as described in the documentation.
- Q.** How will the licensing change with the Cisco AS5000XM?
- A.** The Cisco AS5000XM ships with NP60 and NP108 cards that include licenses for both voice and dial features. You do not have to purchase a separate license for voice or dial. The Cisco AS5000XM bundles and configurations allow you to run both voice and dial with the NP60 or NP108 cards. Separate licenses are required for the dedicated Voice Extensible Markup Language (VXML) server bundles, and integrated signaling link terminator (ISLTs) function for Signaling System 7 (SS7) connectivity. The licensing remains unchanged on the Cisco AS5400, AS5400HPX, AS5350, and AS5850 platforms.
- Q.** What type of performance increase can I expect from the Cisco AS5000XM?
- A.** The Cisco AS5000XM delivers twice the performance as the Cisco AS5400HPX. This means that any application that you have today should run at significantly lower CPU utilization than the current Cisco AS5000, allowing you to enable additional features such as Simple Network Management Protocol (SNMP) polling and authentication, authorization, and accounting (AAA), or run at a higher call rate (calls per second).
- Q.** How many calls per second (CPS) does the Cisco AS5000XM support?
- A.** Both the Cisco AS5350XM and the Cisco AS5400XM share the same CPU and support a sustained rate of 20 CPS in most circumstances. A burst of up to 100 calls in 1 second is also supported when there are no calls on the system. After a high burst of calls, the Cisco AS5000XM rejects new calls until CPU resources are available.
- Q.** How has the file system changed on the Cisco AS5000XM?
- A.** The Cisco AS5000XM provides a full DOS file system to store your images and configuration files. You can create and delete files as you would in DOS without having to “squeeze” the flash memory to recover the space. Each individual directory can have up to 256 files, but you also

can store an unlimited number of files by nesting directories. The file system on the Cisco AS5000XM is the same as the file system on all Cisco integrated services routers.

Q. How much memory is available on the Cisco AS5000XM?

A. The Cisco AS5000XM comes standard with 512 MB of memory. The maximum memory supported is 1 GB.

Q. Can the Gigabit Ethernet interfaces support lower speeds?

A. Yes, the autosensing interface supports connectivity to a current 10, 100, or 1000 Mb switch

Q. What are the advantages of upgrading my Cisco AS5400HPX to a Cisco AS5400XM?

A. The AS5000XM series has the additional CPU horsepower to run all applications at a lower CPU utilization, allowing the user to enable more functions including SNMP monitoring, debug logging and AAA. In addition, the enhanced TDM backplane allows for new applications such as CT3-to-CT3 TDM switching. Overall the platform supports a higher call rate and higher call density for complex applications such as VxML. The AS5400XM doubles the performance of the AS5400HPX, while maintaining your investment in trunk cards, giving you the advantage of better performance with investment protection. Finally, the GigE interfaces allow for enhanced connectivity options adding to the overall benefits of the new chassis.

Q. What Cisco IOS Software images does the Cisco AS5400XM support?.

A. The Cisco AS5000XM supports five Cisco IOS Software images:

- ENTERPRISE PLUS—Supports all voice features as well as non-voice routing protocols such as AppleTalk
- ENTERPRISE PLUS IPSEC 3DES—Supports all the ENTERPRISE PLUS features, plus adds support for Triple Digital Encryption Standard (3DES) encryption to enable features that require this security, such as Secure Shell (SSH) Protocol and IP Security (IPSec) tunnels
- IP PLUS— Supports all voice features and IP routing features
- IP PLUS IPSEC 3DES—Supports all voice features and IP routing features, plus adds support for 3DES encryption to enable features that require this security, such as SSH and IPSec tunnels
- IP PLUS IPSEC 3DES LAWFUL INTERCEPT—Supports all voice features, plus 3DES encryption, plus support for the Lawful Intercept MIB.

Q. Can I run an earlier Cisco IOS Software image (12.2/12.3) on a Cisco AS5000XM?

A. No, the Cisco AS5000XM is supported only on Cisco IOS Software 12.3(14)T images and later (that is, 12.4 Mainline and 12.4T images).

Q. Can I swap feature cards between the Cisco AS5000 and the Cisco AS5400XM?

A. Yes, with the understanding that all cards except some old CT3 cards will work in the new Cisco AS5000XM chassis.

Q. Does Cisco have a program to help me upgrade old Cisco AS5000s to the new Cisco AS5000XMs?

A. Yes, the Cisco Technology Migration Program (TMP) gives you a credit for trading any Cisco product (including the Cisco AS5300, AS5800, AS5400, AS5350, AS5400HPX, and AS5850) for a new Cisco AS5000XM chassis.

<http://www.cisco.com/go/tradein>

Q. When the Cisco AS5400XM is released, will the Cisco AS5400HPX continue to be supported?

A. The Cisco AS5400, AS5350, AS5400HPX, and AS5850 are all supported products in the Cisco AS5000 product line. Cisco has not announced end of life of any of these products. The Cisco end-of-life process is published at: http://www.cisco.com/en/US/products/prod_end_of_life.html.

Q. Can I replace my Cisco AS5850 with multiple Cisco AS5400XMs?

A. Yes, the Cisco AS5400XM supports most of the same applications that the Cisco AS5850 supports, at a higher density per rack unit.

Q. Is there a document that compares all Cisco AS5000 products side by side?

A. Yes, a Cisco AS5000 Migration Quick Look is available on <http://www.cisco.com/>, and it has this information in a single chart.

**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Website at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus
Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel
Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal
Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan
Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2005 Cisco Systems, Inc. All rights reserved. CCSP, CCVP, the Cisco Square Bridge logo, Follow Me Browsing, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Access Registrar, Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, Packet, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StrataView Plus, TeleRouter, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0502R)

205290.BI_ETMG_CC_7.05

