

Cisco IOS Software Release 11.3AA

Introduction

This product bulletin describes the process used to deliver Cisco IOS™ Software for the Cisco AS5800 Universal Access Server and the AS5300 Universal Access Server. This bulletin should be used in conjunction with Product Bulletin #537, Cisco IOS Software Release Process.

Summary

Cisco IOS software release 11.3AA is an Early Deployment (ED) release, which delivers support for the Cisco AS5800 Universal Access, the Cisco 7200 Series Router, the Cisco AS5300 Universal Access Server and the AS5200 Universal Access Server. 11.3AA is being offered for the following reasons:

- Early delivery of crucial IOS service provider features (please see below for list of features)
- Providing the same release/code base for AS5200, AS5300, and AS5800

The process to deliver 11.3AA is based on the Cisco IOS ED release process. Unique distinctions for 11.3AA are:

- 11.3AA is based on the 11.3 Major Release, and is directly parented from 11.3T.
- Except for the first release of 11.3AA, there is a one-to-one correspondence of maintenance releases between 11.3AA and 11.3T. The first release of 11.3AA is 11.3(2)AA. 11.3(1)AA was not released.

Release Process

Release 11.3AA is based on the 11.3 Major Release, and is parented directly from the 11.3T ED release. As maintenance is performed on release 11.3, it is synced to 11.3AA. For every maintenance release of 11.3, there is a maintenance release of 11.3AA, which contains all defect corrections on 11.3, in addition to maintenance or new functionality unique to 11.3AA.

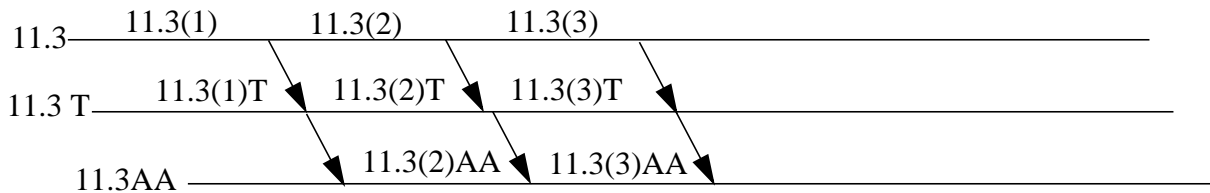
Figure 1



As maintenance is performed on release 11.3, it is synced to 11.3T and 11.3AA. For every maintenance release of 11.3, there is a maintenance release of 11.3T and 11.3AA, which contains all defects corrections delivered on 11.3 and 11.3T, in addition to maintenance or new functionality unique to 11.3AA.

Figure 2 shows the relationship between 11.3, 11.3T and 11.3AA. As described in Product Bulletin #537, the numbering scheme explicitly describes the level of maintenance on 11.3, 11.3T and 11.3AA. For example, 11.3(2)AA includes all maintenance that has been performed on 11.3(2) and 11.3(2)T. It may also include additional maintenance or new functionality specific to 11.3AA.

Figure 2



Based on the unique needs of the Cisco AS5800 or Cisco 7200, there may be times when 11.3AA specific functionality or maintenance is required, but no additional maintenance is required from the 11.3T parent release. In these situations, a new maintenance release of 11.3AA will be created, but it will remain at the current maintenance level of 11.3T. These maintenance releases are clearly numbered to identify:

- the maintenance level of 11.3T to which they are synced
- revision level of 11.3AA since that last sync to 11.3T

Figure 3

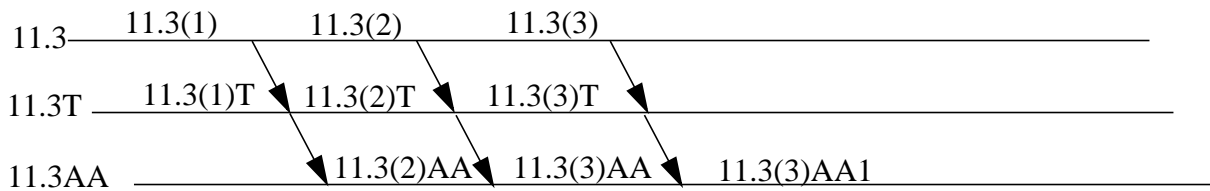


Figure 3 shows an example in which the maintenance is required on 11.3(3)AA and is called 11.3(3)AA1. In this example, the number "1" is added to the release number to identify that this maintenance release is synced from 11.3(3)T, and that there are differences between this release and the previous maintenance release, 11.3(3)AA. Readme files are created to clearly identify what was integrated into each maintenance release of 11.3AA.

Life span


The expectation is that Cisco IOS Software 11.3AA will be sold until the end of calendar year 1998. Future Product Bulletins will be issued containing further information.

Support

Cisco IOS Software 11.3AA is supported by the Cisco Systems Product Support Policy. Release Notes will exist on CCO for every maintenance release.

Features

- Cisco AS5800 Universal Access Server Feature Module
- System Error Messages for Cisco AS5800 Universal Access Server
- Cisco IOS File System
- Conditionally Triggered Debugging

- 
- Shelf Discovery and Autoconfiguration
 - Health Monitor
 - Virtual Console
 - FTP Server
 - Syslog Disk Logging
 - AAA Scalability Feature
 - OSPF LSA Group Pacing
 - OSPF Point-to-Multipoint Networks with Neighbors
 - Cisco AS5800
 - Multiple ISDN Switch Types
 - National ISDN Switch Types
 - 7200 Scalability

Feature detail can be found at:

- Release Notes for the Cisco AS5800 for Cisco IOS Release 11.3 AA
- Release Notes for Cisco 7200 Series for Cisco IOS Release 11.3 AA
- Release Notes for Cisco AS5200 and Cisco AS5300 Access Servers for Cisco IOS Release 11.3AA

Supported Hardware Platforms

Cisco IOS Software release 11.3AA supports the following platforms:

- Cisco AS5800 Universal Access Server
- Cisco 7200 Series Router
- Cisco AS5200 Universal Access Server
- Cisco AS5300 Universal Access Server

11.3AA Product Summary

For additional information on Cisco IOS Release 11.3AA software, refer to:

- Release Notes for Cisco IOS Release 11.3
- Product-Specific Release Notes
- Cisco IOS Software Release 11.3 Product Bulletins

Memory Size

The AS5800 has two components, the Dial Shelf and the Router Shelf. The Dial Shelf contains sufficient memory for all current software and feature sets. Specifically:

- The DSC has 32MB on-board RAM and 8MB PCMCIA flash card
- The CE1/CT1 Trunk card has 32MB on-board RAM
- The Modem card has 16MB on-board RAM

The Router Shelf requires both Flash memory and DRAM. The memory requirements for the Router Shelf are:

- 16MB of Flash is required for the Router Shelf
- 64 MB DRAM required for up to 12 PRIs
- 128 MB DRAM required for more than 12 PRIs
- 128 MB DRAM is recommended for all installations.

The default memory configuration for the AS5300 is sufficient memory for all current software and feature sets. Specifically:

- 16 MB DRAM
- 8 MB Flash


The default memory configuration for the AS5200 is sufficient memory for all current software and feature sets. Specifically:

- 16 MB DRAM
- 8 MB Flash

Port and Service Adapters Supported

The following is a list of all currently supported Port Adapters and Service Adapters.

Port Adapter	Description
PA-FE-TX	Port Adapter: 1-Port FE, 100TX
PA-FE-FX	Port Adapter: 1-Port FE, 100FX
PA-8E	Port Adapter: 8-Port Ethernet, 10BT
PA-4E	Port Adapter: 4-Port Ethernet, 10BT
PA-5EFL	Port Adapter: 5-Port Ethernet, 10FL
PA-4T+	Port Adapter: 4-Port Serial, 5IN1
PA-4R	Port Adapter: 4-Port Token Ring
PA-4R-FDX	Port Adapter: 4-Port Token Ring 4/16Mbps, Full Duplex
PA-2CE1/PRI-75	Port Adapter: 2-Port Channelized E1/PRI, 75 Ohm
PA-2CE1/PRI-120	Port Adapter: 2-Port Channelized E1/PRI, 120 Ohm
PA-2CT1/PRI	Port Adapter: 2-Port Channelized T1/PRI
SA-COMP/1	Service Adapter: Compression (64 VC's Stac)
SA-COMP/4	Service Adapter: Compression (256 VC's Stac)
PA-F-MM	Port Adapter: 1-Port FDDI Multi-mode
PA-F-SM	Port Adapter: 1-Port FDDI Single-mode
PA-F/FD-MM	Port Adapter: 1-Port FDDI Full Duplex Multi-mode
PA-F/FD-SM	Port Adapter: 1-Port FDDI Full Duplex Single-mode
PA-8T-V35	Port Adapter: 8-Port Serial, V.35
PA-8T-X21	Port Adapter: 8-Port Serial, X.21
PA-8T-232	Port Adapter: 8-Port Serial, 232
PA-A1-OC3MM	Port Adapter: 1-Port ATM OC3 Multi-mode
PA-A1-OC3SM	Port Adapter: 1-Port ATM OC3 Single-mode
PA-100VG	Port Adapter: Single-Port 100VG
PA-8B-S/T	Port Adapter: 8-Port BRI, S/T Interface
PA-4B-U	Port Adapter: 4-Port BRI, U Interface
PA-12E/2FE	Port Adapter: Dual-Wide Ethernet-Switch
PA-H	Port Adapter: 1-Port HSSI
PA-A2-4E1XC-E3ATM	Port Adapter: CES E3/E1 120 Ohms
PA-A2-4E1XC-OC3SM	Port Adapter: CES OC3 4E1 Ports 120 Ohms
PA-A2-4T1C-OC3SM	Port Adapter: ATM CES, 4T1 CES Ports and 1 OC3 ATM SM Port
PA-A2-4T1C-T3ATM	Port Adapter: ATM CES, 4T1 CES Ports and 1 T3 ATM Port
PA-1C-E	Port Adapter: 1-Port ESCON Channel Port Adapter



Product Number and File Name

For greater affordability at lower port counts, the Cisco IOS software for the AS5800 is licensed per port instead of per box. One Cisco IOS software license is required for every modem card or every T1 or E1 of ISDN-only that are put into service. In addition, a base IOS set is required which includes software, media, and documentation.

Cisco IOS Software can be ordered using the following product numbers:

Product Number	Description
SF364SC-11.3.2A	Cisco IOS SC3640 IP/System Controller
SW364SC-11.3.4A=	Cisco IOS SC3640 IP/System Controller (spare)
SF58CP-11.3.2A	Cisco IOS AS5800 Series IP Plus
SW58CP-11.3.2A=	Cisco IOS AS5800 Series IP Plus (spare)
FL58CP-72	Cisco IOS AS5800 Series 72-port modem
FL58CP-T1	Cisco IOS AS5800 Series T1 ISDN
FL58CP-E1	Cisco IOS AS5800 Series E1 ISDN
SF52B-11.3.4A	Cisco IOS AS5200 Series Desktop
SW52B-11.3.4A=	Cisco IOS AS5200 Series Desktop (spare)
SF52BP-11.3.4A	Cisco IOS AS5200 Series Desktop Plus
SW52BP-11.3.4A=	Cisco IOS AS5200 Series Desktop Plus (spare)
SF52C-11.3.4A	Cisco IOS AS5200 Series IP
SW52C-11.3.4A=	Cisco IOS AS5200 Series IP (spare)
SF52CP-11.3.4A	Cisco IOS AS5200 Series IP Plus
SW52CP-11.3.4A=	Cisco IOS AS5200 Series IP Plus (spare)
SF52A-11.3.4A	Cisco IOS AS5200 Series Enterprise
SW52A-11.3.4A=	Cisco IOS AS5200 Series Enterprise (spare)
SF52AP-11.3.4A	Cisco IOS AS5200 Series Enterprise Plus
SW52AP-11.3.4A=	Cisco IOS AS5200 Series Enterprise Plus (spare)
SF53B-11.3.4A	Cisco IOS AS5300 Series Desktop
SW53B-11.3.4A=	Cisco IOS AS5300 Series Desktop (spare)
SF53BP-11.3.4A	Cisco IOS AS5300 Series Desktop Plus
SW53BP-11.3.4A=	Cisco IOS AS5300 Series Desktop Plus (spare)
SF53C-11.3.4A	Cisco IOS AS5300 Series IP
SW53C-11.3.4A=	Cisco IOS AS5300 Series IP (spare)
SF53CP-11.3.4A	Cisco IOS AS5300 Series IP Plus
SW53CP-11.3.4A=	Cisco IOS AS5300 Series IP Plus (spare)
SF53CW-11.3.4A	Cisco IOS AS5300 Series IP Plus 40
SW53CW-11.3.4A=	Cisco IOS AS5300 Series IP Plus 40 (spare)
SF53CL-11.3.4A	Cisco IOS AS5300 Series IP Plus IPSEC 56
SW53CL-11.3.4A=	Cisco IOS AS5300 Series IP Plus IPSEC 56 (spare)
INT53CL-11.3.4A	Cisco IOS AS5300 Series IP Plus IPSEC 56
SF53A-11.3.4A	Cisco IOS AS5300 Series Enterprise
SW53A-11.3.4A=	Cisco IOS AS5300 Series Enterprise (spare)
SF53AP-11.3.4A	Cisco IOS AS5300 Series Enterprise Plus

Product Number	Description
SW53AP-11.3.4A=	Cisco IOS AS5300 Series Enterprise Plus (spare)
SF53AW-11.3.4A	Cisco IOS AS5300 Series Enterprise Plus 40
SW53AW-11.3.4A=	Cisco IOS AS5300 Series Enterprise Plus 40 (spare)
SF53AL-11.3.4A	Cisco IOS AS5300 Series Enterprise Plus IPSEC 56
SW53AL-11.3.4A=	Cisco IOS AS5300 Series Enterprise Plus IPSEC 56 (spare)
INT53AL-11.3.4A	Cisco IOS AS5300 Series Enterprise Plus IPSEC 56
SF72A-11.3.4A	Cisco IOS 7200 Series Enterprise
SW72A-11.3.4A=	Cisco IOS 7200 Series Enterprise (spare)

The image file names are:

Image Filename	Description
c5800-p4-mz	Cisco IOS AS5800 IP Plus Image
dsc-c5800-mz	Cisco AS5800 Dial Shelf BOOT and Controller Image
c7200-boot-mz	Cisco AS5800 Router Shelf BOOT Image
c3640-c2is-mz	Cisco SC3640 IP/System Controller Image
c7200-js-mz	Cisco IOS 7200 Series Enterprise Image
c5200-d-l	Cisco IOS AS5200 Series Desktop Image
c5200-ds-l	Cisco IOS AS5200 Series Desktop Plus Image
c5200-i-l	Cisco IOS AS5200 Series IP Image
c5200-is-l	Cisco IOS AS5200 Series IP Plus Image
c5200-j-l	Cisco IOS AS5200 Series Enterprise Image
c5200-js-l	Cisco IOS AS5200 Series Enterprise Plus Image
c5300-d-mz	Cisco IOS AS5300 Series Desktop Image
c5300-ds-mz	Cisco IOS AS5300 Series Desktop Plus Image
c5300-i-mz	Cisco IOS AS5300 Series IP Image
c5300-is-mz	Cisco IOS AS5300 Series IP Plus Image
c5300-is40-mz	Cisco IOS AS5300 Series IP Plus 40 Image
c5300-is56i-mz	Cisco IOS AS5300 Series IP Plus IPSEC 56 Image
c5300-j-mz	Cisco IOS AS5300 Series Enterprise Image
c5300-js-mz	Cisco IOS AS5300 Series Enterprise Plus Image
c5300-js40-mz	Cisco IOS AS5300 Series Enterprise Plus 40 Image
c5300-js56i-mz	Cisco IOS AS5300 Series Enterprise Plus IPSEC 56 Image

**Corporate Headquarters**

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

European Headquarters

Cisco Systems Europe s.a.r.l.
Parc Evolic, Batiment L1/L2
16 Avenue du Quebec
Villebon, BP 706
91961 Courtaboeuf Cedex
France
<http://www-europe.cisco.com>
Tel: 33 1 6918 61 00
Fax: 33 1 6928 83 26

**Americas
Headquarters**

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

Asia Headquarters

Nihon Cisco Systems K.K.
Fuji Building, 9th Floor
3-2-3 Marunouchi
Chiyoda-ku, Tokyo 100
Japan
<http://www.cisco.com>
Tel: 81 3 5219 6250
Fax: 81 3 5219 6001

**Cisco Systems has more than 200 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the
Cisco Connection Online Web site at <http://www.cisco.com>.**

Argentina • Australia • Austria • Belgium • Brazil • Canada • Chile • China (PRC) • Colombia • Costa Rica • Czech Republic • Denmark • England
• France • Germany • Greece • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The
Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Russia • Saudi Arabia • Scotland • Singapore
South Africa • Spain • Sweden • Switzerland • Taiwan, ROC • Thailand • Turkey • United Arab Emirates • United States • Venezuela

Copyright © 1998 Cisco Systems, Inc. All rights reserved. Printed in USA. AccessPath, AtmDirector, the CCIE logo, CD-PAC, Centri, Centri Bronze, Centri Gold, Centri Security Manager, Centri Silver, the Cisco Capital logo, Cisco IOS, the Cisco IOS logo, *CiscoLink*, the Cisco NetWorks logo, the Cisco Powered Network logo, the Cisco Press logo, ClickStart, ControlStream, Fast Step, FragmentFree, IGX, JumpStart, Kernel Proxy, LAN²LAN Enterprise, LAN²LAN Remote Office, MICA, Natural Network Viewer, NetBeyond, Netsys Technologies, *Packet*, PIX, Point and Click Internetworking, Policy Builder, RouteStream, Secure Script, SMARTnet, StrataSphere, StrataSphere BILLder, StrataSphere Connection Manager, StrataSphere Modeler, StrataSphere Optimizer, Stratm, StreamView, SwitchProbe, *The Cell*, TrafficDirector, VirtualStream, VlanDirector, Workgroup Director, Workgroup Stack, and XCI are trademarks; Empowering the Internet Generation and The Network Works. No Excuses. are service marks; and BPX, Catalyst, Cisco, Cisco Systems, the Cisco Systems logo, EtherChannel, FastHub, FastPacket, ForeSight, IPX, LightStream, OptiClass, Phase/IP, StrataCom, and StrataView Plus are registered trademarks of Cisco Systems, Inc. in the U.S. and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. 9802R