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Release Notes for Cisco Portware Versions 2.2.2.2 and 2.2.3.0

These release notes document Cisco Portware Versions 2.2.2.2 and 2.2.3.0. This document includes the following sections:

- Overview
- Known Problems with Portware Versions 2.2.2.2 and 2.2.3.0
- Known Problems with Portware Versions 2.2.2.2
- Portware Download Instructions
- Cisco Connection Online

Overview

The Portware versions 2.2.2.2 and 2.2.3.0 software are designed for the MICA 6-port modem module carrier card. The card requires the following images:

- Cisco IOS image
- Cisco IOS Boot image (for Cisco AS5200 access servers only)
- Portware image

The Portware versions must be compatible with the Cisco IOS software release level. Table 1 provides a compatibility matrix.

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Table 1 Portware Compatibility

Hardware Platform	Portware Version	Cisco IOS Release	Cisco IOS Boot Image
Cisco AS5200	Version 2.2.3.0	Cisco IOS Software Release 11.3(2)T and higher	Cisco IOS release 11.2(11)P1[1]
Cisco AS5300	Version 2.2.3.0	Cisco IOS Software Release 11.2(10a)P1 and higher or Cisco IOS Software Release 11.3(2)T and higher	NA
Cisco 3600 series	Version 2.2.3.0	Cisco IOS Software Release 11.2(9)XA and higher or Cisco IOS Software Release 11.3(2)T and higher	NA

1. If you are not using this boot code image, you must upgrade your system in order to run Portware 2.2.3.0 on a Cisco AS5200 access server.

Table 2 describes the features in Portware versions 2.2.2.2 and 2.2.3.0:

Table 2 Firmware Version Feature Summary

Firmware Version	Feature Content
2.2.2.2 and 2.2.3.0	**Modulation** • Rockwell K56flex at 56000 to 32000 in 2000 bps increments • ITU-T V.34 Annex 12 at 33600 and 31200 bps • ITU-T V.34 at 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, and 2400 bps • ITU-T V.32*bis* at 14400, 12000, 9600, 7200, and 4800 bps • ITU-T V.32 at 9600 and 4800 bps • ITU-T V.23 in two modes: split speed and half-duplex 1200/75(backchannel) bps • ITU-T V.22*bis* at 2400 and 1200 bps • ITU-T V.22 at 1200 bps • ITU-T V.21 at 300 bps • Bell212A at 1200 bps • Bell103A at 300 bps (Async) **Protocols** • ITU-T V.42 (including MNP 2-4 and LAPM) Error Correction • ITU-T V.42*bis* (1K nodes) and MNP 5 Data Compression **Modem Standards** • ITU V. 25—Automatic calling or answering equipment on dialup lines. This standard includes the procedures for disabling echo control devices for calls that are established manually and automatically.

Known Problems with Portware Versions 2.2.2.2 and 2.2.3.0

The following list describes known problems with Portware versions 2.2.2.2 and 2.2.3.0. In some cases, workarounds are provided. If a workaround is not provided, the problem requires further investigation or a solution is being developed. For the latest information, consult "Cisco Connection Online."

Note If the client modem is not connecting to MICA or if a K56flex-compatible modem is not connecting at K56flex speed (see Table 2 for modulation speeds), try changing S0 to a setting of 2 to alleviate the problem.

- CSCdj55296—In certain circumstances, call drops could occur when a K56flex call is established.
- CSCdj71728—On rare occasions the uplink (receive) rate falls below 19.2 kbps during connection. Fails with various modems and line conditions.
- CSCdj85230—Modem erroneously reports that it is in Steady_State_retrain mode. No workaround is needed because the modem works properly.
- CSCdj45522 & CSCdj54904—Occasional call drops may occur when connecting a US Robotics Courrier modem.
- CSCdj80580 —A V.42bis error occasionally occurs when connected to a Multitech or US Robotics Sportster modem, resulting in a call drop.
- CSCdj56697, CSCdj58605, CSCdj38981—Unable to connect in MNP 4/5 with some client modems when LAPM is disabled. Since most modems use LAPM instead of MNP 4/5, this problem can be avoided in most cases by using LAPM.
- CSCdj44302 and CSCdj13463—Uplink connect speeds are temporarily limited to 31.2 kbps max. This will be addressed in a subsequent release.
- CSCdj74549—Some Zoom 14.4 modems connect in async mode, instead of LAPM, and the call drops after about 10 minutes.
- CSCdj50614—When a USR X2 Sportster modem on a Macintosh computer is used for an ARA connection, the connection is unsuccessful.
- CSCdj73645—Occasionaly when using a modem to dial out, the call disconnects within 2 seconds with "no answer."
- CSCdj84343—On rare occasions, a modem call gets connected in async mode instead of in Error Correction mode.
- CSCdj87010—The Robbed Bit Signalling (RBS) field displays an incorrect value of 0 when using the **show modem** command.

Known Problems with Portware Versions 2.2.2.2

This section describes a known problem with Portware version 2.2.2.2 that was fixed in version 2.2.3.0.

- CSCdj85412—In some cases, Portware 2.2.2.2 provides a lower connect rate than Portware 2.0.1.7 for client modems connecting to a MICA card.

Portware Download Instructions

For Portware download instructions, see the following documents:

- Cisco AS5300 access servers: See “Appendix A, Managing Modems” in the *Cisco AS5300 Universal Access Server Software Configuration Guide* publication.
- Cisco AS5200 access servers: See “Appendix B, Managing Modems” in the *Cisco AS5200 Universal Access Server Software Configuration Guide* publication.

Cisco Connection Online

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You can access CCO in the following ways:

- WWW: http://www.cisco.com
- WWW: http://www-europe.cisco.com
- WWW: http://www-china.cisco.com
- Telnet: cco.cisco.com
- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and connection rates up to 28.8 kbps.

For a copy of CCO’s Frequently Asked Questions (FAQ), contact cco-help@cisco.com. For additional information, contact cco-team@cisco.com.

Note If you are a network administrator and need personal technical assistance with a Cisco product that is under warranty or covered by a maintenance contract, contact Cisco’s Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or tac@cisco.com. To obtain general information about Cisco Systems, Cisco products, or upgrades, contact 800 553-6387, 408 526-7208, or cs-rep@cisco.com.

This document is to be used in conjunction with Cisco hardware and software documentation for the system in which the MICA modems are installed.

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