Software Revision v202r1262-070212 Release Notes for Series 2320 and 2325 Residential Gateways

Overview

Introduction

These release notes present the new features and enhancements introduced in software revision v202r1262-070212 for Series 2320 and 2325 DOCSIS®* and EuroDOCSIS™ Residential Gateways.

* Data Over Cable Service Interface Specifications

Audience

These release notes are written for network administrators, system operators, technicians, and installers of cable modem networks that comply with DOCSIS standards and provisions.

Document Version

This is the second release of this document.

Cable Modem Hardware and Software Summary

Latest Hardware and Software Version

The software version described in these release notes is currently in use. The following table provides a summary of this software version. Refer to this table as you read these release notes.

Important! Refer to *Software File Naming Convention* (on page 8) for a detailed description of the naming convention used for Cisco cable modem software.

Cable Modems	Hardware Versions	Software Version	Standards Compliance	Release Date
DPR2320™ EPR2320™ DPR2325™ EPR2325™	DPR2320R2 EPR2320R2 DPR2325R3 EPR2325R3	v202r1262 -070212	CableHome® 1.1 DOCSIS 2.0, 1.1, and 1.0 EuroDOCSIS 2.0, 1.1, and 1.0 (EPR2320 and DPR2320 only)	February 12, 2007

Note: This release is the second release of software for the DPR2320R2, EPR2320R2, DPR2325R3, and EPR2325R3 residential gateways. This document describes recent software modifications to the cable modem software stream since the release of v202r1262-060630.

Release Notes

Introduction

This section provides brief descriptions of the new features, enhancements, and changes incorporated into the following software revisions for Series 2320 and 2323 Residential Gateways:

- v202r1262-070212

- v202r1262-060630

In addition, this section provides a description of any known issues for these software revisions.

Software Enhancements, Fixes, and Known Issues

The following tables show the enhancements, fixes, and known issues for software revisions v202r1262-070212 and v202r1262-060630.

Software Revision v202r1262-070212

Enhancements and Changes

Software Revision	Enhancements and Changes
v202r1262-070212	Corrected the behavior of the Cisco enterprise Management Information Base (MIB) "cmAPWebAccessLvlPassword" so the MIB can be administered using a configuration file.
	Made changes to the cable modem Web pages layout to remove "Antivirus" URLs.
	Fixed an issue where excessive address resolution protocol (ARP) traffic would take the CPU utilization to 100 percent.
	Fixed an issue where MAX_CPE was not taking effect correctly in the cable modem configuration files.
	Notes: ■ This software image is shipped from the factory with wired equivalent privacy (WEP) wireless local area network (LAN) security DISABLED for the EPR2320 and EPR2325 products. ■ This software image is shipped from the factory with WEP wireless LAN security set to "wep128" for the DPR2320 and DPR2325 products.

Known Issue

A resolution for this issue is in process.

Software Revision	Known Issue
v202r1262-070212	On random and infrequent occasions, the Status tab of the Web page displays incorrect IP addresses for the customer premises equipment (CPE).

Software Revision v202r1262-060630

Enhancements and Changes

Software Revision	Enhancements and Changes
v202r1262-060630	Added a new Cisco identity MIB file that provides detailed information about the device including factory options and special features.

Known Issue for Software Revision v202r1262-060630

A resolution for this issue is in process.

Software Revision	Known Issue
v202r1262-060630	On random and infrequent occasions, the Status tab of the Web page displays incorrect IP addresses for the CPE.

Installation Prerequisites

Introduction

This section provides information on requirements that must be met before you install cable modem software.

SNMP Manager

This release of the cable modem software requires an SNMP v1 or SNMP v2c manager. Cisco recommends that you load the SNMP manager with the MIBs shown in the following table.

MIB Name	Version
Bridge MIB CM and CMTS	RFC-1493
MIB for SNMPv2 CM and CMTS	RFC-1907
SNMPv2 MIB for the Internet Protocol using SMIv2 CM and CMTS	RFC-2011
SNMPv2 MIB for the User Datagram Protocol using SMIv2 CM and CMTS	RFC-2013
The Interface Group MIB using SMIv2 CM and CMTS	RFC-2233
Ethernet Interface MIB CM and CMTS	RFC-2665
DOCSIS Cable Device MIB CM and CMTS	RFC-2669
Radio Frequency (RF) Interface MIB CM and CMTS	RFC-2670

Important!

■ In addition to the MIBs shown in this table, the SNMP manager must have the appropriate Cisco vendor-specific MIB values loaded. If the vendor-specific MIB values are not loaded, the new features of the cable modem software will not be enabled. If necessary, contact your Cisco sales representative to obtain the DPXCM.MIB source file.

■ If the Cisco vendor-specific MIB values are not loaded, the new cable modem features assume their factory default values.

Note: For more information, contact Cisco Services.

Install the Software

Introduction

Before installing cable modem software, you must first ensure that you configure the cable modem properly for the environment in your system.

This section provides two procedures you can use to install cable modem software. You can download the new cable modem software using either the SNMP manager or a configuration file.

Setting Up the Environment

You can configure the cable modem to enable or disable certain features. Verify that you have configured the cable modem properly for your system's environment and requirements.

Installing the Software Using the SNMP Process

Complete the following steps to download the new cable modem software using an SNMP manager by means of the docsDevSoftware MIB objects.

1   Set the docsDevSwServer MIB object to the IP address of the Trivial File Transfer Protocol (TFTP) server that contains the software image.

2   Set the docsDevSwFilename MIB object to the image file name that you wish to download (including the path).

3   Set the docsDevSwAdminStatus object to **1** (upgradeFromMgt).

Result: When the software has downloaded, the cable modem reboots and reestablishes communication.

Notes:

■   If you have trouble downloading the software, make sure your TFTP server is configured correctly.

■   Ensure that the modem is provisioned (configured) with the correct Code Verification Certificate (CVC) in the cable modem configuration file when the modem registers with the CMTS. This CVC must match the CVC in the signed image (.p7b) file.

Installing the Software Using the Configuration File Process

Complete the following steps to initiate a download of the new cable modem software using a cable modem configuration file.

1 Create or modify a cable modem configuration file so that it sets the docsDevSwFilename MIB object to the upgrade image file name.

2 Set the docsDevSwServer MIB object to the IP address of the TFTP server.

   Note: The configuration file must also contain the correct CVC so it matches the CVC in the signed image (.p7b) file.

3 Set the docsDevSwAdminStatus object to **2** (allowProvisioningUpgrade) in the cable modem configuration file.

4 Reboot the cable modem using an SNMP command or a CMTS command.

   Result: The cable modem reboots, downloads the new software, reboots again, and then reestablishes communication.

Software Image File Naming Convention

Introduction

This section provides a description of the software image file naming convention for Cisco cable modems. You will find this information useful in understanding the various software versions available for Cisco cable modems.

Software Image File Name Description

The following illustration provides a detailed description of the software image file naming convention for Cisco cable modems.
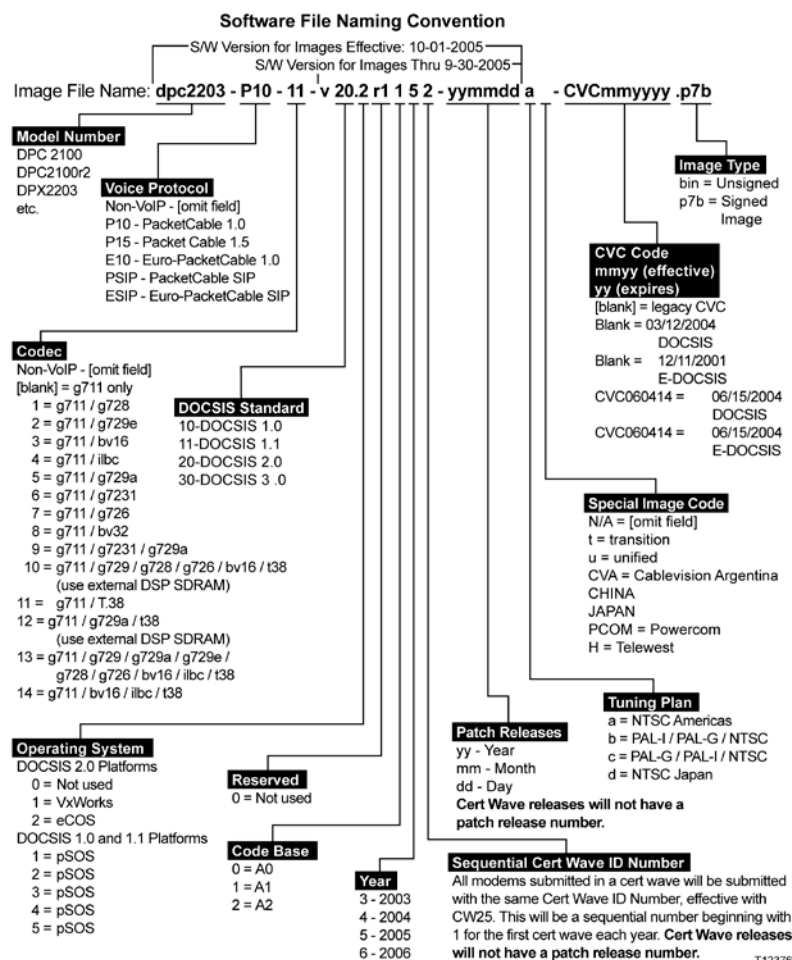
For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.