



Preface

This preface describes the objectives and organization of this document and explains how to find additional information on related products and services. This preface contains the following sections:

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Objectives

This document describes the Cisco Cable Wideband Solution, Release 1.0. It explains how to design and implement a cable network with that uses the DOCSIS 3.0 Downstream Channel Bonding feature.



Note

This document describes release-specific functionality for Cisco IOS Releases 12.3(21)BC and 12.3(21a)BC3.

Document Revision History

[Table 1](#) records technical changes to this document. The table shows Cisco IOS software release number and document revision number for the change, the date of the change, and a brief summary of the change.

Table 1 *Document Revision History*

Release No.	Revision	Date	Change Summary
12.3(21)BC	OL-10705-01	February 2007	First release
12.3(21a)BC3	OL-10705-02	July 2007	Added information on the Linksys WCM300-NA, WCM300-EURO, and WCM300-J modems.

Document Organization

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	Solution Overview	Provides an overview of the Cisco Cable Wideband Solution, Release 1.0.
Chapter 2	Cisco Cable Wideband Components	Describes the components of the Cisco Cable Wideband Solution, Release 1.0.
Chapter 3	Cisco Cable Wideband Architecture	Explains the architecture used for the Cisco Cable Wideband Solution, Release 1.0.
Chapter 4	Implementing and Configuring the Solution	Provides implementation and configuration information for the Cisco Cable Wideband Solution, Release 1.0.
Chapter 5	Monitoring and Troubleshooting Wideband Components	Provides an introduction to monitoring and troubleshooting the wideband components of the Cisco Cable Wideband Solution, Release 1.0.

Related Documentation

The following is a list of documents and URLs for the Cisco uBR10012 router and the Cisco Wideband SIP and Wideband SPA:

Related Topic	Document Title
Documentation Roadmap	<ul style="list-style-type: none"> • <i>Cisco uBR7200 Series Routers and Cisco uBR10012 Universal Broadband Router Documentation Roadmap</i> http://www.cisco.com/en/US/partner/products/hw/cable/ps2209/products_documentation_roadmap09186a0080733a04.html
Cisco uBR10012 Hardware Installation	<ul style="list-style-type: none"> • <i>Cisco uBR10012 Universal Broadband Router SIP and SPA Hardware Installation Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/sipspa/hwsips/index.htm • <i>Cisco uBR10012 Universal Broadband Router Hardware Installation Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/hig/ • <i>Regulatory Compliance and Safety Information for the Cisco uBR10012 Universal Broadband Router</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10rcsi.htm
Cisco uBR10012 Field Replaceable Units (FRUs) and Fiber-Optic Maintenance	<ul style="list-style-type: none"> • <i>Cisco uBR10012 Field Replaceable Units (FRUs) Documentation Web Page</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/frus/index.htm • <i>Cisco uBR10012 Quick Start Guides Web Page</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/qsg/index.htm • For information about cleaning fiber-optic connections, go to the following URL: http://www.cisco.com/warp/public/127/cleanfiber2.html

Related Topic	Document Title
Cisco uBR10012 Software, Configuration, and Features	<ul style="list-style-type: none"> • <i>Cisco uBR10012 Universal Broadband Router SIP and SPA Software Configuration Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/sipspa/swsipspa/index.htm • <i>Cisco Cable Wideband Solution Design and Implementation Guide, Release 1.0</i> (this document) http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/wbsolu/index.htm • <i>Release Notes for Cisco uBR10012 Universal Broadband Router for Cisco IOS Release 12.3 BC</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10krns/123bcu10.htm • <i>Cisco uBR10012 Universal Broadband Router Software Configuration Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/scg/index.htm • <i>Cisco uBR10012 Router Software Features</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/ubr10ksw/index.htm • <i>Cisco Cable Modem Termination System Feature Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/cab_rout/cmtsfg/index.htm
Cisco IOS Command Reference and Related Information	<ul style="list-style-type: none"> • For Cisco Wideband SIP and SPA commands, see <i>Chapter 11, “SIP and SPA Commands”</i> in the <i>Cisco uBR10012 Universal Broadband Router SIP and SPA Software Configuration Guide</i>. • <i>Cisco Broadband Cable Command Reference Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/bbccmref/index.htm • <i>Cisco IOS Release 12.3 Web Page</i> http://www.cisco.com/univercd/cc/td/doc/product/software/ios123/index.htm • <i>Cisco CMTS Error Messages</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/cab_rout/ubrerrs.htm • <i>Cisco CMTS Universal Broadband Router MIB Specifications Guide</i> http://www.cisco.com/univercd/cc/td/doc/product/cable/ubr10k/ubr10012/ubrmib5/index.htm
Additional Cable/Broadband Information Resources	<ul style="list-style-type: none"> • Cisco uBR10012 troubleshooting and alerts http://www.cisco.com/en/US/products/hw/cable/ps2209/tsd_products_support_troubleshoot_and_alerts.html • <i>Cisco Cable/Broadband Software Center Web page</i> http://www.cisco.com/public/sw-center/sw-cable.shtml • <i>Cisco Cable/Broadband Technical Support Web page</i> http://www.cisco.com/en/US/tech/tk86/tsd_technology_support_category_home.html • <i>Cisco Multiservice Broadband Cable Guide</i> http://www.cisco.com/application/pdf/en/us/guest/netsol/ns289/c643/ccmigration_09186a008014eeb0.pdf

Conventions

This guide uses the following conventions for command syntax descriptions and textual emphasis:

Table 2 *Command Syntax and Emphasis Conventions*

Convention	Description
boldface font	Commands and keywords are in boldface .
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{x y z}	Alternative, mutually exclusive, keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <i>screen font</i> .
boldface screen font	Information you must enter is in boldface screen font .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords, are in angle brackets in contexts where italics are not available.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.



Note

This symbol means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.



Tip

This symbol means *the following are useful tips*.



Timesaver

This symbol means *the described action saves time*. You can save time by performing the action described in the paragraph.



Caution

This symbol means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Obtaining Documentation, Obtaining Support, and Cisco Security Guidelines

For information on obtaining documentation, providing documentation feedback, obtaining technical assistance, and Cisco product security guidelines, see the monthly *What's New in Cisco Product Documentation* at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

What's New in Cisco Product Documentation also lists all new and revised Cisco technical documentation.

