



## Preface

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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 SPA interface processors (SIPs) and shared port adapters (SPAs) that are supported on the Cisco uBR10012 universal broadband router. This document also describes how to install supported SIPs and SPAs and how to troubleshoot the installation.

## Document Revision History

The Document Revision History 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.

Release No.	Revision	Date	Change Summary
12.2(33)SCB	OL-10706-02	December 2008	Updated the document to include support for Cisco 10000 Series SPA Interface Processor-600, 1-Port 10-Gigabit Ethernet SPA, and 5-Port Gigabit Ethernet SPA.
12.3(21)BC	OL-10706-01	February 2007	First release.

# Document Organization

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	<a href="#">SIP and SPA Product Overview</a>	Provides an introduction to SPA interface processors (SIPs) and shared port adapters (SPAs).
Chapter 2	<a href="#">Overview of Cisco uBR10012 Router SIPs</a>	Describes the SPA interface processors (SIPs) that are supported on the Cisco uBR10012 router.
Chapter 3	<a href="#">Overview of Cisco uBR10012 Router Shared Port Adapters</a>	Describes the shared port adapters (SPAs) that are supported on the Cisco uBR10012 router.
Chapter 4	<a href="#">Preparing to Install a SIP or a Shared Port Adapter</a>	Explains the general equipment, safety, and site preparation requirements for installing SIPs and SPAs.
Chapter 5	<a href="#">Installing and Removing a SIP</a>	Describes how to install or remove SIPs on the Cisco uBR10012 router.
Chapter 6	<a href="#">Installing and Removing a Shared Port Adapter</a>	Explains how to install or remove SPAs on the Cisco uBR10012 router.
Chapter 7	<a href="#">Troubleshooting the Installation</a>	Describes how to troubleshoot the installation of SIPs and SPAs on the Cisco uBR10012 router.

## Related Documentation

The following is a list of documents and URLs for the Cisco uBR10012 router and its supported SIPs and SPAs:

- *Cisco uBR10012 Universal Broadband Router Documentation Roadmap*  
<http://www.cisco.com/en/US/docs/cable/cmts/ubr10012/roadmap/u10krdmp.html>
- *Cisco uBR10012 Universal Broadband Router Hardware Installation Guide*  
<http://www.cisco.com/en/US/docs/cable/cmts/ubr10012/installation/guide/hig.html>
- *Regulatory Compliance and Safety Information for the Cisco uBR10012 Universal Broadband Router*  
<http://www.cisco.com/en/US/docs/cable/cmts/ubr10012/regulatory/compliance/ub10rcsi.html>
- *Cisco uBR10012 Universal Broadband Router SIP and SPA Software Configuration Guide*  
[http://www.cisco.com/en/US/docs/interfaces\\_modules/shared\\_port\\_adapters/configuration/ubr10012/12.3\\_23\\_bc/sipsp\\_d3.html](http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/ubr10012/12.3_23_bc/sipsp_d3.html)
- *Cisco Cable Wideband Solution Design and Implementation Guide, Release 1.0*  
[http://www.cisco.com/en/US/docs/cable/cmts/wideband/solution/guide/release\\_1.0/wb\\_solu.html](http://www.cisco.com/en/US/docs/cable/cmts/wideband/solution/guide/release_1.0/wb_solu.html)
- *Cross-Platform Release Notes for Cisco Universal Broadband Routers in Cisco IOS Release 12.2SC*  
[http://www.cisco.com/en/US/docs/cable/cmts/release/notes/12\\_2sc/122sc\\_cmts\\_rn.html](http://www.cisco.com/en/US/docs/cable/cmts/release/notes/12_2sc/122sc_cmts_rn.html)
- *Cisco uBR10012 Universal Broadband Router Software Configuration Guide*  
[http://www.cisco.com/en/US/docs/interfaces\\_modules/shared\\_port\\_adapters/configuration/ubr10012/12.3\\_23\\_bc/sipsp\\_d3.html](http://www.cisco.com/en/US/docs/interfaces_modules/shared_port_adapters/configuration/ubr10012/12.3_23_bc/sipsp_d3.html)
- *Cisco IOS CMTS Cable Command Reference*

- [http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl\\_book.html](http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html)
- *Cisco IOS CMTS Cable System Messages Guide*  
<http://www.cisco.com/en/US/docs/cable/cmts/system/message/uberrmes.html>
- *Cisco CMTS Universal Broadband Router MIB Specifications Guide*  
[http://www.cisco.com/en/US/products/hw/cable/ps2209/prod\\_technical\\_reference\\_list.html](http://www.cisco.com/en/US/products/hw/cable/ps2209/prod_technical_reference_list.html)

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

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

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