



## Preface

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- [Document Revision History](#), on page i
- [Document Objectives](#), on page i
- [Audience](#), on page i
- [Document Organization](#), on page ii
- [Conventions](#), on page ii
- [Related Documentation](#), on page iv
- [Obtaining Documentation and Submitting a Service Request](#), on page iv

## Document Revision History

The following table records the changes made to this document.

Date	Change Summary
May 2016	First version of the document.

## Document Objectives

This publication describes the installation of the and replacement or upgrade of field-replaceable units (FRUs).

## Audience

This publication is primarily designed for persons responsible for installing, maintaining, and troubleshooting the . The users of this guide should:

- Be familiar with electronic circuitry and wiring practices.
- Have experience working as electronic or electromechanical technicians.
- Have experience in installing high-end networking equipment.



**Note** Certain procedures described in this guide require a certified electrician.

## Document Organization

The following table describes the chapters and appendixes in this installation guide:

Chapter and Appendix		Description
1	<a href="#">Cisco ASR 1002-HX Router Overview</a>	Provides an overview of the
2	Cisco ASR 1002-HX Supported Hardware Components	Provides an overview of the hardware components for the
3	<a href="#">Preparing Your Site for Installation</a>	Provides site preparation guidelines for installing the
4	<a href="#">Cisco ASR 1002-HX Router Installation</a>	Provides information about the installation methods and steps to install the
5	<a href="#">Cisco ASR 1002-HX Router Power Up and Initial Configuration</a>	Provides basic system startup and initial configuration information
6	<a href="#">Cisco ASR 1002-HX Router License Verification</a>	Provides information about the licenses
7	<a href="#">Removing and Replacing FRUs from the Cisco ASR 1002-HX Router</a>	Provides instructions for removing and replacing the various FRUs in the
A	<a href="#">Cisco ASR 1002-HX Router Specifications</a>	Provides router specifications for the
B	<a href="#">Cisco ASR 1002-HX Router Signals and Pinouts</a>	Lists pinout specifications for the

## Conventions

Text Type	Indication
User input	Text the user should enter exactly as shown or keys a user should press appear in <b>this font</b> .
Document titles	Document titles appear in <i>this font</i> .
System output	Terminal sessions and information that the system displays appear in <b>this font</b> .
CLI commands	CLI command keywords appear in <b>this font</b> . Variables in a CLI command appear in <i>this font</i> .

Text Type	Indication
[ ]	Elements in square brackets are optional.
{x   y   z}	Required alternative 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.
< >	Nonprinting characters such as passwords are in angle brackets.
[ ]	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.




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**Note** Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the document.

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**Tip** Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.

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**Caution** Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

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**Timesaver** Means *the described action saves time*. You can save time by performing the action described in the paragraph.

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**Warning** IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

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## Related Documentation

See the following documentation for Cisco ASR 1001-HX Router:

- *Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Denali 16.3*
- *Open Source Used In Cisco ASR 1001-HX Router*
- *Cisco IOS XE Denali 16.3 Migration Guide for Access and Edge Routers*

See the following documentation for Cisco ASR 1002-HX Router:

- *Release Notes for Cisco ASR 1000 Series, Cisco IOS XE Denali 16.2*
- *Open Source Used In Cisco ASR 1002-HX Router*
- *Cisco IOS XE Denali 16.2 Migration Guide for Access and Edge Routers*

The [Documentation Roadmap for Cisco ASR 1000 Series, Cisco IOS XE Denali 16.x](#) provides links to all Cisco ASR 1000 Series product documentation.

## 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.

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