



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:

- [Objectives, page 1](#)
- [Document Revision History, page 1](#)
- [Organization, page 2](#)
- [Related Documentation, page 2](#)
- [Document Conventions, page 2](#)
- [Obtaining Documentation and Submitting a Service Request, page 4](#)

Objectives

This document describes the Cisco ASR 1000 Series Route Processor 3 (Cisco ASR1000-RP3) that is supported on the Cisco ASR 1000 Series Aggregation Services Routers. This document also describes how to install and configure the Cisco ASR1000-RP3 module.

Document Revision History

The Document Revision History records changes made to this document. The table shows the Cisco IOS XE software release number and document revision number pertaining to the change, the date of the change, and a brief summary of the change.

Release No.	Date	Change Summary
Cisco IOS XE Denali 16.3.1	November, 2016	First version of the document.

Organization

This document contains the following chapters:

Chapter	Title	Description
1	Cisco ASR1000-RP3 Module Overview	Provides an introduction to the Cisco ASR1000-RP3 module. Also provides information about the characteristics of the module.
2	Preparing to Install the Cisco ASR1000-RP3 Module	Describes the required tools, equipment, and safety guidelines for installing the Cisco ASR1000-RP3 module.
3	Installing the Cisco ASR1000-RP3 Module	Describes the procedures for installing and removing the Cisco ASR1000-RP3 module from a Cisco ASR 1000 Series Aggregation Services Router.
4	Software Licensing on Cisco ASR1000-RP3 Module	Provides an high-level overview of the licensing options available for the Cisco ASR1000-RP3 module.
5	Configuring the Cisco ASR1000-RP3 Module	Describes a basic router configuration, and configuration pertaining to the Cisco ASR1000-RP3 module.
6	Upgrading the Cisco ASR1000-RP3 Module	Provides information on the In-Service Software Upgrades (ISSU) procedure for the Cisco ASR1000-RP3 module.
7	Upgrading the ROMMON	Provides information about ROMMON used in the Cisco ASR1000-RP3 module.
8	Removing and Replacing FRUs from the Cisco ASR1000-RP3 Module	Describes the procedures for replacing field-replaceable units (FRUs) from the Cisco ASR1000-RP3 module.

Related Documentation

For information about associated services and modules in Cisco ASR 1000 Series Aggregation Services Routers, see:

- [Documentation Roadmap for Cisco ASR 1000 Series, Cisco IOS XE Denali 16.x.](#)
- [Cisco ASR 1009-X Router and Cisco ASR 1006-X Router Hardware Installation Guide](#)

Document Conventions

Within the guide, the term *router* is generally used to refer to a variety of Cisco products (for example, routers, access servers, and switches). Routers, access servers, and other networking devices that support Cisco IOS software are shown interchangeably within examples. These products are used only for illustrative purposes, that is, an example that shows one product does not necessarily indicate that other products are not supported.

This documentation uses the following conventions:

Convention	Description
^ or Ctrl	The ^ and Ctrl symbols represent the Control key. For example, the key combination ^D or Ctrl-D means hold down the Control key while you press the D key. Keys are indicated in capital letters, but are not case sensitive.
<i>string</i>	A string is a nonquoted set of characters shown in italics. For example, when setting a Simple Network Management Protocol (SNMP) <i>community</i> string to <i>public</i> , do not use quotation marks around the string. If you do, the string will include the quotation marks.

Command syntax descriptions use the following conventions:

Convention	Description
bold	Bold text indicates commands and keywords that you enter exactly as shown.
<i>italics</i>	Italic text indicates arguments for which you supply values.
[x]	Square brackets enclose an optional element (keyword or argument).
	A vertical line indicates a choice within an optional or required set of keywords or arguments.
[x y]	Square brackets enclosing keywords or arguments separated by a vertical line indicate an optional choice.
{x y}	Braces enclosing keywords or arguments separated by a vertical line indicate a required choice.

Nested sets of square brackets or braces indicate optional or required choices within optional or required elements. For example:

Convention	Description
[x {y z}]	Braces and a vertical line within square brackets indicate a required choice within an optional element.

Examples use the following conventions:

Convention	Description
screen	Examples of information displayed on the screen are set in Courier font.
bold screen	Examples of text that you must enter are set in Courier bold font.
< >	Angle brackets enclose text that is not printed to the screen, such as passwords.
!	An exclamation point at the beginning of a line indicates a comment line. (Exclamation points are also displayed by the Cisco IOS software for certain processes.)
[]	Square brackets enclose default responses to system prompts.

The following conventions are used to attract the attention of the reader:



Caution

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



Note

Means *reader take note*. Notes contain helpful suggestions or references to materials that may not be contained in this manual.



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.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.