



## Preface

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This guide describes how to install a Cisco ASR 9000 Series Aggregation Services Router and its components.

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## Audience

This guide is written for hardware installers and system administrators of Cisco routers.

These users must have a substantial background in installing and configuring router and switch-based hardware. Also, they should be familiar with electronic circuitry and wiring practices, and have experience as an electronic or electromechanical technician.

## Related Documentation

For complete installation, and configuration information, see the following documents that are available on Cisco.com at the following URL: <http://www.cisco.com/c/en/us/support/routers/asr-9000-series-aggregation-services-routers/products-installation-guides-list.html>.

- *Cisco ASR 9000 Series Aggregation Services Router Overview and Reference Guide*
- *Cisco ASR 9000 Series Aggregation Services Router Hardware Installation Guide*
- *Cisco ASR 9001 and Cisco ASR 9001-S Routers Hardware Installation Guide*
- *Cisco ASR 9000 Series Aggregated Services Router VSM (Virtualized Services Module) Card Installation Guide*
- *Cisco ASR 9000 Series Aggregation Services Router SIP and SPA Hardware Installation Guide*
- *Cisco ASR 9000 Series Aggregation Services Router ISM Line Card Installation Guide*
- *Cisco ASR 9000 Series Aggregated Services Router Satellite Systems Installation Guide*
- *Regulatory Compliance and Safety Information for ASR 9000*

# Changes to This Document

This table lists the technical changes made to this document since it was first created.

**Table 1: Changes to This Document**

Date	Summary
September 2018	Added migration sections for RP3, A99-SFC3, A99-SFC3-S, A99-SFC3-T, and RSP5 cards.
March 2018	Added support for RSP880-LT on the Cisco ASR 9906 Aggregation Services Router.
September 2017	Information added about the Cisco ASR 9906 Aggregation Services Router.
July 2017	Information added about the new route processor card RSP880-LT.
May 2016	Information added about the Cisco ASR 9910 Aggregation Services Router.
January 2015	Added new route processor cards RSP-440 Lite and RSP-880, FC2 fabric card, Cisco ASR 9222 support for the version 2 air filter, support for the version 3 power system, and supported optics for Cisco IOS XR software release 5.3.0.
October 2014	Information added for Cisco ASR 9922 version 2 fan tray.
June 2014	Information added about installing optional air baffles on the Cisco ASR 9006 Aggregation Services Router.
September 2013	Information added about the Cisco ASR 9904 Aggregation Services Router.
August 2013	Information added about the Cisco ASR 9912 Aggregation Services Router.
May 2013	Information added about the Cisco ASR 9000v satellite shelf adding support for the Cisco CRS Line Card Chassis in either the 8-slot or 16-slot variation.
February 2013	Updates and corrections made to various portions of the document.

Date	Summary
December 2012	Information added about the Cisco ASR 9000v satellite shelf adding support for the Cisco ASR 9922 Aggregation Services Router and the Cisco ASR 9001 Aggregation Services Router. Also, information added about the Cisco ASR 901 Series Aggregation Services Router as a satellite shelf and the Cisco ASR 903 Series Aggregation Services Router as a satellite shelf.
September 2012	Information added about the new 1-port 40GE Modular Port Adapter (MPA), 36-port 10GE line card, 1-port 100GE line card, Cisco ASR 9922 Aggregation Services Router, RP card, FC card, and Cisco ASR 9000v satellite shelf (adding support for the A9K-36X10GE-TR [36-port 10GE line card, Packet Transport Optimized] and A9K-36X10GE-SE [36-port 10GE line card, Service Edge Optimized]).
May 2012	Information added about the new Cisco ASR 9000v (a satellite system with the Cisco ASR 9000).  The Cisco ASR 9000v satellite shelf provides 44 1GE SFP ports and 4 10GE SFP+ ports.
December 2011	Information added about the new RSP-440 Route Processor card, the new 24-port 10GE fixed line card, the 2-port 100GE fixed line card, and the modular line card supporting the 20-port 1GE MPA, the 4-port 10GE MPA, and the 2-port 10GE MPA.  Information added about the new version 2 power system. The Cisco ASR 9006 Router and Cisco ASR 9010 Router now support version 1 and version 2 power systems.
May 2010	Added power consumption specifications for the new 16-port 10GE SFP+ line card. Updates and corrections made to various portions of the document.
December 2009	Updates and corrections made to various portions of the document.
March 2009	Initial release of this document.

## 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/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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