



## 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.

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## Objectives

This document provides an overview of software functionality that is specific to the Cisco ASR 920 Series Aggregation Services Routers. It is not intended as a comprehensive guide to all of the software features that can be run using the Cisco ASR 920 Series Aggregation Services Routers, but only the software aspects that are specific to this platform.

For information on general software features that are also available on other Cisco platforms, see the Cisco IOS XE technology guide pertaining to that specific software feature.

## Document Revision History

The following table lists the major changes made to this document for each release.

Revision	Date	Change Summary
IOS XE 3.18	February 2017	Added <a href="#">Configuring and Monitoring Alarm</a> chapter.
IOS XE 3.16	August 2015	Added information for Cisco ASR-920-12SZ-IM Aggregation Series Routers.
IOS XE 3.15	March 2015	Added the <a href="#">Dying Gasp Support for Loss of Power Supply Through SNMP, Syslog and Ethernet OAM</a> and <a href="#">Configuring Pseudowire</a> sections. Updated the <a href="#">Configuring Clocking and Timing</a> section.

Revision	Date	Change Summary
IOS XE 3.14	November 2014	Added information for ASR-920-10SZ-PD, ASR-920-24SZ-IM, ASR-920-24SZ-M, ASR-920-24TZ-M
IOS XE 3.13	July 2014	First release.

## Related Documentation

This section refers you to other documentation for configuring your Cisco ASR 920 Series Aggregation Services Routers.

The documentation homepage for the Cisco ASR 920 Series Aggregation Services Routers is:

<http://www.cisco.com/c/en/us/support/routers/asr-920-series-aggregation-services-router/tsd-products-support-series-home.html>

The documentation homepage for Cisco IOS XE contains Cisco IOS XE technology guides and feature documentation and can be viewed at:

[http://cisco.com/en/US/products/ps9587/tsd\\_products\\_support\\_series\\_home.html](http://cisco.com/en/US/products/ps9587/tsd_products_support_series_home.html)

For information on commands, see one of the following resources:

- [Cisco IOS XE Software Command References](#)
- [Command Lookup Tool](#) (cisco.com login required)

## Document Conventions

This documentation uses the following conventions:

Convention	Description
<b>^</b> or <b>Ctrl</b>	The <b>^</b> and <b>Ctrl</b> symbols represent the Control key. For example, the key combination <b>^D</b> or <b>Ctrl-D</b> means hold down the <b>Control</b> key while you press the <b>D</b> 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 an SNMP community string to public, do not use quotation marks around the string or the string will include the quotation marks.

Command syntax descriptions use the following conventions:

Convention	Description
<b>bold</b>	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.

Convention	Description
[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.
<b>bold screen</b>	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:




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**Caution**

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

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**Note**

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

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## 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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