Preface

This preface explains the objectives, intended audience, and organization of this *Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router System Description* , commonly referred to as the "system description" in this document, and presents the conventions used in this manual .

Objective

This guide describes the Cisco CRS 8-Slot Line Card Chassis Enhanced router from a system point of view. This guide focuses on the hardware elements, including descriptions of most of the major assemblies, such as the power and cooling systems, the switch fabric, route processor, and modular services cards. It also provides background information and the basic theory of operation for this routing system .

This guide can be read as a supplement to the Site Planning Guide, Installation Guide, and the related software documents.

Audience

This guide is intended for service provider customers and Cisco installation partners who have substantial background in configuring router-based internetworks and experience with routers and Cisco IOS XR software. The system description provides a high-level introduction to the components and vocabulary used within the Cisco CRS 8-Slot Line Card Chassis Enhanced router product.

Related Cisco CRS Documentation

For a complete listing of planning, installation, and configuration documents, see the following publications:

- Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Unpacking, Moving, and Securing Guide

- Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Site Planning Guide

- Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Installation Guide

- Cisco CRS-1 Carrier Routing System to Cisco CRS-3 Carrier Routing System Migration Guide

- Cisco CRS Carrier Routing System Regulatory Compliance and Safety Information

Changes to This Document

Table 1: Changes to This Document

Date	Change Summary
April 2015	Added information about the new back-to-back fabric card CRS-8-FC400/M
December 2014	Added support for the CRS-MSC-X-L and CRS-FP-X-L line cards.
July 2014	Added support for new 2x100GE-FLEX-40 PLIM.
January 2014	Added updates to support the Cisco CRS-X, which includes new line cards, switch fabric cards, and PLIMs.
September 2013	Added updates to support new fan tray.
May 2012	Added corrections based on unpacking, moving and installing process changes.
January 2012	Initial release of this document. This document introduces the Cisco CRS 8-Slot Line Card Chassis Enhanced router. The Cisco CRS 8-Slot Line Card Chassis Enhanced router includes the following new features : • The mid-plane on the Cisco CRS 16-Slot Line Card Chassis Enhanced router is redesigned to support 400G per slot. • The Cisco CRS 8-Slot Line Card Chassis Enhanced router has its own power and cooling subsystems . • A new power shelf with an upgraded 70 Amp circuit breaker has been introduced for the new Cisco CRS 8-Slot Line Card Chassis Enhanced router . • The Cisco CRS 8-Slot Line Card Chassis Enhanced router removes the zone circuit breaker and thus, eliminates power-zoning .

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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