



## Preface

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This *site planning guide* describes how to plan and prepare your site facilities for the installation of a Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced router (also referred to in this document as the “Cisco CRS 8-slot LCC Enhanced router”). The guide provides a brief description of the chassis and its components, and basic site facilities requirements.

This guide describes all power, cooling, and environmental specifications to consider before ordering and installing the Cisco CRS 8-slot LCC Enhanced router. This guide also describes site facilities requirements, such as floor space, weight requirements, receiving and staging, and installation information to help you plan the site where the routing system will be installed.



### Note

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The installation of a Cisco CRS 8-Slot Line Card Chassis Enhanced router may require space, floor loading, power, and cooling modifications to a facility; therefore, you should plan the site well in advance of the scheduled delivery of the system.

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## Audience

This guide is for customers who must plan the facilities for the site where the Cisco CRS 8-Slot Line Card Chassis Enhanced router is to be installed. It should be used with Cisco Systems site planning coordinators and site inspections, well in advance of the delivery of the routing system.

## Document Organization

This guide contains the following chapters and appendices:

- [Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Overview](#) provides an overview of the routing system and its main components.
- [Power and Cooling](#) provides an overview of the chassis power and cooling systems, and describes the power and grounding requirements for the routing system.
- [Technical and Environmental Specifications](#) provides technical and environmental specifications.
- [Site Planning Considerations](#) describes the site facilities requirements to plan for before you receive and install the routing system.
- [Preliminary Site Survey](#) provides checklists for the site preparation process.
- [Product IDs for the Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router](#) provides information about how to order the Cisco CRS 8-Slot Line Card Chassis Enhanced router components.

## Documentation Conventions

This document uses the following conventions:

Convention	Description
<b>bold font</b>	Commands and keywords and user-entered text appear in <b>bold font</b> .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
[ ]	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.
<code>courier font</code>	Terminal sessions and information the system displays appear in <code>courier font</code> .
	Indicates a variable for which you supply values, in context where italics cannot be used.
<>	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.

**Note**

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

**Caution**

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

**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

**Warning**

Statements using this symbol are provided for additional information and to comply with regulatory and customer requirements.

## Related Cisco CRS Documentation

For a complete listing of Cisco CRS 8-Slot Line Card Chassis Enhanced router planning, installation, and configuration documents, see the following publications:

- [Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router System Description](#)
- [Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Installation Guide](#)
- [Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Unpacking, Moving, and Securing Guide](#)
- [Cisco CRS 3-Phase AC Power Distribution Unit Installation Guide](#)
- [Cisco Carrier Routing System Hardware Documentation Revision Roadmap](#)
- [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](#)

See the [Obtaining Documentation and Submitting a Service Request](#), on page iv for information on obtaining these and other publications.

# Changes to This Document

**Table 1: Changes to This Document**

Date	Change Summary
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 installation process changes.
January 2012	<p>Initial release of this document.</p> <p>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:</p> <ul style="list-style-type: none"> <li>• The mid plane on the Cisco CRS 8-Slot Line Card Chassis Enhanced router is redesigned to support 400G per slot.</li> <li>• The Cisco CRS 8-Slot Line Card Chassis Enhanced router has its own power and cooling subsystems.</li> <li>• 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.</li> <li>• The Cisco CRS 8-Slot Line Card Chassis Enhanced router removes the zone circuit breaker and thus, eliminates the need to configure power-zoning.</li> </ul>

## 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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