

# About This Guide

This *ERX Physical and Link Layers Configuration Guide* provides the information you will need to configure interfaces and link layer protocols.



**Note:** If the information in the *ERX Release Notes* differs from the information in this guide, follow the *ERX Release Notes*.

Your ERX system is shipped with the latest system software installed. If you need to install a future release or reinstall the system software, refer to the procedures in the *ERX Installation and User Guide, Appendix E, Installing ERX System Software*.

## ERX Edge Routers

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Four models of ERX edge router are available:

- ERX-1440 system
- ERX-1410 system
- ERX-705 system
- ERX-700 system

All models use the same software. For information about the differences between the models, see *ERX Installation and User Guide, Chapter 1, ERX System Overview*.

In the ERX documentation, the term ERX-1400 series refers to both the ERX-1440 system and the ERX-1410 system. Similarly, the term ERX-700 series refers to both the ERX-705 system and the ERX-700 system. The terms ERX-1440 system, ERX-1410 system, ERX-705 system, and ERX-700 system refer to the specific models.




## Audience

This guide is intended for experienced system and network specialists who will configure a Juniper Networks ERX system in an Internet access environment.

## Conventions

Table 1, Table 2, and Table 3 list all the conventions used in the ERX documentation. Table 1 defines notice icons. Table 2 shows text conventions used throughout the book, except for command syntax. Table 3 provides command syntax conventions used primarily in the *ERX Command Reference Guide*. For more information about command syntax, see *ERX System Basics Configuration Guide, Chapter 2, Command Line Interface*.

**Table 1** Notice icons

Icon	Meaning	Description
	Informational note	Indicates important features or instructions.
	Caution	Indicates that you may risk losing data or damaging your hardware.
	Warning	Alerts you to the risk of personal injury.

**Table 2** Text conventions (except for command)

Convention	Description	Examples
<b>Bold typeface</b>	Represents commands and keywords in text.	<ul style="list-style-type: none"> <li>Command example: Issue the <b>clock source</b> command.</li> <li>Keyword example: Specify the keyword <b>exp-msg</b>.</li> </ul>
<b>Bold Courier typeface</b>	Represents text that the user must type.	<b>user input</b>
Key name in angle brackets	Indicates the name of a key on the keyboard.	Press <Enter>.
Key names linked with a plus sign (+) in angle brackets.	Indicates that you must press two or more keys simultaneously.	Press <Ctrl+B>.
Plain Courier typeface	Represents information as displayed on your terminal's screen.	<pre>host1#show ip ospf 2 Routing Process OSPF 2 with Router ID 5.5.0.250 Router is an Area Border Router (ABR)</pre>

**Table 2** Text conventions (except for command) (continued)

Convention	Description	Examples
<i>Italics</i>	<ul style="list-style-type: none"> <li>Emphasize words.</li> <li>Identify variables.</li> <li>Identify chapter, appendix, and book names.</li> </ul>	<ul style="list-style-type: none"> <li>There are two levels of access, <i>user</i> and <i>privileged</i>.</li> <li><i>clusterId</i>, <i>ipAddress</i>.</li> <li><i>Appendix A, System Specifications</i>.</li> </ul>

**Table 3** Syntax conventions in *Command Reference Guide*

Convention	Description	Examples
Words in plain text	Represent keywords.	terminal length
Words in italics	Represent variables.	<i>mask</i> , <i>accessListName</i>
Words separated by the   symbol	Represent a choice to select one keyword or variable to the left or right of this symbol. (The keyword or variable may be either optional or required.)	diagnostic   line
Words enclosed in [ brackets ]	Represent optional keywords or variables.	[ internal   external ]
Words enclosed in [ brackets ]*	Represent optional keywords or variables that can be entered more than once.	[ level1   level2   l1 ]*
Words enclosed in { braces }	Represent required keywords or variables.	{ permit   deny } { in   out } { clusterId   ipAddress }

## Documentation

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The *ERX Installation Quick Start* poster is shipped in the box with all new systems. This poster provides the basic procedures to help you get the system up and running quickly.

With each software release, we provide the *ERX Edge Routers Documentation CD*. The documentation CD contains the document set in PDF format and HTML format (with and without frames). From the HTML files, you can also access PDF files of individual chapters and appendices.

The documentation is also available on the Web. You can order a set of printed documents from your Juniper Networks sales representative.

The document set comprises the following books:

- *ERX Installation and User Guide* – Provides the necessary procedures for getting your system operational, including information on installing, cabling, powering up, configuring your system for management access, and general troubleshooting.
- *ERX System Basics Configuration Guide* – Describes planning and configuring your network, managing the system, passwords, and security, and configuring the system clock and virtual routers.
- *ERX Physical and Link Layers Configuration Guide* – Describes configuring physical and link layer interfaces.
- *ERX Routing Protocols Configuration Guide, Vol. 1* – Provides information about configuring routing policy and configuring IP, IP routing, and IP security.
- *ERX Routing Protocols Configuration Guide, Vol. 2* – Describes BGP routing, MPLS, BGP-MPLS VPNs, and encapsulation of layer 2 services.
- *ERX Policy and QoS Configuration Guide* – Provides information about configuring policy management and quality of service (QoS).
- *ERX Broadband Access Configuration Guide* – Provides information about configuring remote access.
- *ERX Command Reference Guide* – Contains important information about all system commands implemented in the system software. Use to look up command descriptions, command syntax, a command's related mode, or a description of a command's parameters. It is intended to be used with the ERX configuration guides.
- *ERX Product Overview Guide* – Gives a thorough overview of the system from a software and hardware perspective. It provides illustrations and configuration examples that present the “big picture.”

### *MIBs*

Copies of the MIBs available in a software release are included on the *ERX Edge Routers Software CD*.

### *Release Notes*

The *ERX Release Notes* are included on the *ERX Edge Routers Software CD* and are available on the Web. In the *Release Notes*, you will find information about features, changes, known problems, resolved problems, and system maximum values.

### *Abbreviations*

A complete list of abbreviations used in this document set, along with their spelled-out terms, is provided in the *ERX System Basics Configuration Guide, Appendix A, Abbreviations and Acronyms*.

### *Web Access*

To view the ERX documentation on the Web, go to:

<http://www.juniper.net/techpubs/>

## Comments About the Documentation

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We encourage you to provide feedback, comments, and suggestions so that we can improve the documentation to better meet your needs. Please e-mail your comments to:

- [techpubs-comments@juniper.net](mailto:techpubs-comments@juniper.net)

Along with your comments, be sure to indicate:

- Document name
- Document part number
- Page number
- Software release version

## Contacting Customer Support

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For technical support, contact Juniper Networks at [support@juniper.net](mailto:support@juniper.net), or at 1-888-314-JTAC (within the United States) or 408-745-9500 (from outside the United States).

