About this Guide

Audience

The *Performance Routing Version 3 Configuration Guide* is for network managers and administrators. This guide provides an overview on Performance Routing v3 and describes how to configure performance routing v3 on Cisco devices.

Document Organization

This document is organized into the following chapters:

Chapter	Description
Overview of Performance Routing v3	Describes the design and different device roles in PfRv3.
Configuring Performance Routing v3	Describes the configuration, verification, and monitoring operations for different components of PfRv3.
Performance Routing v3 Transit Site Support	Describes PfRv3 transit site support, and provides information on how to configure and verify PfRv3 transit sites configurations.
Performance Routing v3 Zero SLA Support	Describes PfRv3 Zero SLA support, and provides information on how to configure and verify PfRv3 Zero SLA configurations.
Troubleshooting	Describes the common troubleshooting scenarios along with the workaround.
PfRv3 Remote Prefix Tracking	Describes the PfRv3 remote site prefixes, prefix tracking, and how to display site prefixes.

Chapter	Description
Command Reference	Lists the various commands required to configure, verify, and debug PfRv3 configurations.

Document Conventions

This document uses the following conventions:

Convention	Description
^ or Ctrl	Both the ^ symbol and Ctrl represent the Control (Ctrl) key on a keyboard. For example, the key combination **^D** or **Ctrl-D** means that you hold down the Control key while you press the D key. (Keys are indicated in capital letters but are not case sensitive.)
bold font	Commands and keywords and user-entered text appear in **bold** font.
Italic font	Document titles, new or emphasized terms, and arguments for which you supply values are in *italic* font.
Courier font	Terminal sessions and information the system displays appear in `courier` font.
Bold Courier font	Bold Courier font indicates text that the user must enter.
[x]	Elements in square brackets are optional.
...	An ellipsis (three consecutive nonbolded periods without spaces) after a syntax element indicates that the element can be repeated.
		A vertical line, called a pipe, indicates a choice within a set of keywords or arguments.
[x | y]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
{x | y}	Required alternative keywords are grouped in braces and separated by vertical bars.
[x {y | z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
< >	Nonprinting characters such as passwords are in angle brackets.
[ ]	Default responses to system prompts are in square brackets.

Convention	Description
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

Reader Alert Conventions

This document uses the following conventions for reader alerts:

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.*

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

Timesaver   Means *the described action saves time.* You can save time by performing the action described in the paragraph.

Warning   **Means *reader be warned.* In this situation, you might perform an action that could result in bodily injury.**

New and Changed Information

This chapter provides release-specific information for each new and changed feature in the *Cisco Performance Routing v3 Configuration Guide*.

The following table summarizes the new and changed features for the *Cisco Performance Routing v3 Configuration Guide* and where they are documented.

Table 1: New and Changed Features

Feature Name	Releases	Feature Information	Where Documented
Performance Routing v3	15.5(1)T Cisco IOS XE 3.13S	PfRv3 is an intelligent-path control mechanism for improving application delivery and WAN efficiency. PfRv3 protects critical application and increases bandwidth utilization and serves as an integral part of the overall Cisco Intelligent WAN (IWAN) solution.	• Overview of Performance Routing v3 • Configuring Basic PfRv3 • Overview of Performance Routing v3 • Configuring Basic PfRv3
Performance Routing v3 Zero SLA Support	15.5(1)T Cisco IOS XE 3.14S	The PfRv3 zero SLA support feature enables users to reduce probing frequency on various ISP links.	Performance Routing v3 Zero SLA Support Performance Routing v3 Zero SLA Support
Performance Routing v3 Transit Site Support	15.5(2)T Cisco IOS XE 3.15S	The PfRv3 transit site support feature enables enterprise organizations to configure multiple data centers at the hub site.	PfRv3 Transit Site Support PfRv3 Transit Site Support

Additional References for PfRv3

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Command List, All Releases
Cisco PfRv3 commands: complete command syntax, command mode, command history, defaults, usage guidelines and examples	Cisco IOS Performance Routing Command Reference

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies. To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html http://www.cisco.com/support