

Brocade Vyatta Network OS Guide to Documentation, 5.2R1

Supporting Brocade 5600 vRouter, VNF Platform, and Distributed
Services Platform

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Preface

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Document conventions

The document conventions describe text formatting conventions, command syntax conventions, and important notice formats used in Brocade technical documentation.

Notes, cautions, and warnings

Notes, cautions, and warning statements may be used in this document. They are listed in the order of increasing severity of potential hazards.

NOTE

A Note provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

ATTENTION

An Attention statement indicates a stronger note, for example, to alert you when traffic might be interrupted or the device might reboot.



CAUTION

A Caution statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.



DANGER

A Danger statement indicates conditions or situations that can be potentially lethal or extremely hazardous to you. Safety labels are also attached directly to products to warn of these conditions or situations.

Text formatting conventions

Text formatting conventions such as boldface, italic, or Courier font may be used to highlight specific words or phrases.

Format	Description
bold text	Identifies command names. Identifies keywords and operands. Identifies the names of GUI elements.
<i>italic text</i>	Identifies text to enter in the GUI. Identifies emphasis. Identifies variables.
Courier font	Identifies document titles. Identifies CLI output.

Format	Description
	Identifies command syntax examples.

Command syntax conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
bold text	Identifies command names, keywords, and command options.
<i>italic text</i>	Identifies a variable.
value	In Fibre Channel products, a fixed value provided as input to a command option is printed in plain text, for example, <code>--show WWN</code> .
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options. In Fibre Channel products, square brackets may be used instead for this purpose.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <code>member[member...]</code> .
\	Indicates a "soft" line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Brocade resources

Visit the Brocade website to locate related documentation for your product and additional Brocade resources.

White papers, data sheets, and the most recent versions of Brocade software and hardware manuals are available at www.brocade.com.

Product documentation for all supported releases is available to registered users at MyBrocade.

Click the **Support** tab and select **Document Library** to access documentation on MyBrocade or www.brocade.com. You can locate documentation by product or by operating system.

Release notes are bundled with software downloads on MyBrocade. Links to software downloads are available on the MyBrocade landing page and in the Document Library.

Document feedback

Quality is our first concern at Brocade, and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you. You can provide feedback in two ways:

- Through the online feedback form in the HTML documents posted on www.brocade.com
- By sending your feedback to documentation@brocade.com

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Contacting Brocade Technical Support

As a Brocade customer, you can contact Brocade Technical Support 24x7 online, by telephone, or by e-mail. Brocade OEM customers should contact their OEM/solution provider.

Brocade customers

For product support information and the latest information on contacting the Technical Assistance Center, go to www.brocade.com and select **Support**.

If you have purchased Brocade product support directly from Brocade, use one of the following methods to contact the Brocade Technical Assistance Center 24x7.

Online	Telephone	E-mail
<p>Preferred method of contact for non-urgent issues:</p> <ul style="list-style-type: none"> Case management through the MyBrocade portal. Quick Access links to Knowledge Base, Community, Document Library, Software Downloads and Licensing tools 	<p>Required for Sev 1-Critical and Sev 2-High issues:</p> <ul style="list-style-type: none"> Continental US: 1-800-752-8061 Europe, Middle East, Africa, and Asia Pacific: +800-AT FIBREE (+800 28 34 27 33) Toll-free numbers are available in many countries. For areas unable to access a toll-free number: +1-408-333-6061 	<p>support@brocade.com</p> <p>Please include:</p> <ul style="list-style-type: none"> Problem summary Serial number Installation details Environment description

Brocade OEM customers

If you have purchased Brocade product support from a Brocade OEM/solution provider, contact your OEM/solution provider for all of your product support needs.

- OEM/solution providers are trained and certified by Brocade to support Brocade® products.
- Brocade provides backline support for issues that cannot be resolved by the OEM/solution provider.
- Brocade Supplemental Support augments your existing OEM support contract, providing direct access to Brocade expertise. For more information, contact Brocade or your OEM.
- For questions regarding service levels and response times, contact your OEM/solution provider.

About This Guide

This guide describes all of the available documentation guides for Brocade Vyatta Network OS, plus the guides that apply specifically to Brocade 5600 vRouter, VNF Platform, and Distributed Services Platform.

Brocade Vyatta Network OS Documentation

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Brocade Vyatta Network OS

TABLE 1 Overview documentsdmvprn

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Guide to Documentation</i>	Describes all the guides that compose Brocade Vyatta documentation.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Product Guide</i>	Introduces the Vyatta Network OS products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS IPv6 Support Configuration Guide</i>	Describes IPv6 support on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 2 Licensing

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS License and Entitlement Management Configuration Guide</i>	Introduces procedures for the management of evaluation licenses on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 3 System and services

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS ALG Configuration Guide</i>	Describes the ALGs available on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS BFD Configuration Guide</i>	Describes how to run and configure the Bidirectional Forwarding Detection (BFD) protocol on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Basic System Configuration Guide</i>	Describes the architecture of Brocade Vyatta products and basic system concepts. It also describes how to use the CLI of the router, perform basic system management and monitoring tasks, manage user accounts, access system logs, and hot-plug interfaces.	Yes	Yes	Yes

TABLE 3 System and services (continued)

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Bridging Configuration Guide</i>	Describes how to configure Layer 2 bridging on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS NAT Configuration Guide</i>	Describes how to configure NAT on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Remote Management Configuration Guide</i>	Describes how to configure SSH, Telnet, Web GUI access (HTTPS), NETCONF and SNMP for remote management of Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Services Configuration Guide</i>	Describes how to configure the DHCP, DHCPv6, DNS, flow monitoring, NHRP, sFlow, TWAMP, and port monitoring services on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 4 Interfaces

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS LAN Interfaces Configuration Guide</i>	Describes how to configure data plane, loopback, VLAN, L2TPv3, Q-in-Q, IP unnumbered, and Ethernet link bonding interfaces on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 5 Encapsulations and tunnels

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Tunnels Configuration Guide</i>	Describes how to configure GRE, mGRE, IP-in-IP, and SIT tunnels on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 6 Unicast routing

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Basic Routing Configuration Guide</i>	Describes how to configure forwarding and routing on Brocade Vyatta products and provides overview information on Virtual Routing and Forwarding (VRF) support for Brocade Vyatta product features.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS BGP Configuration Guide</i>	Describes how to configure BGP on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS OSPF Configuration Guide</i>	Describes how to configure OSPF on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS OSPFv3 Configuration Guide</i>	Describes how to configure OSPFv3 on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 6 Unicast routing (continued)

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Policy-based Routing Configuration Guide</i>	Describes how to define and configure routing policies on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS RIP Configuration Guide</i>	Describes how to configure Routing Information Protocol (RIP) on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS RIPng Configuration Guide</i>	Describes how to configure Routing Information Protocol next generation (RIPng) on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Routing Policies Configuration Guide</i>	Describes how to configure routing policies on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 7 Multicast routing

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS IGMP and MLD Configuration Guide</i>	Describes how to configure IGMP and MLD on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS MSDP Configuration Guide</i>	Describes how to configure and run the Multicast Source Discovery Protocol (MSDP) protocol for Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Multicast Routing Configuration Guide</i>	Describes how to configure and run multicast routing for Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS PIM Configuration Guide</i>	Describes how to configure PIM on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 8 Security

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Firewall Configuration Guide</i>	Describes firewall functionality on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 9 VPN

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS DMVPN Configuration Guide</i>	Describes how to configure DMVPN on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS VPN Support Configuration Guide</i>	Describes the VPN support available on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 9 VPN (continued)

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS IPsec Site-to-Site VPN Configuration Guide</i>	Describes how to configure site-to-site IPsec VPNs on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS OpenVPN Configuration Guide</i>	Describes how to configure OpenVPN on Brocade Vyatta products.	Yes	Yes	Yes
<i>Brocade Vyatta Network OS Remote Access IPsec VPN Configuration Guide</i>	Describes how to configure Remote Access VPN on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 10 QoS

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS QoS Configuration Guide</i>	Describes the QoS architecture and how to configure QoS on Brocade Vyatta products.	Yes	Yes	Yes

TABLE 11 High Availability

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS High Availability Configuration Guide</i>	Describes how to configure Brocade Vyatta products to provide high availability.	Yes	Yes	Yes

TABLE 12 MPLS

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS MPLS Configuration Guide</i>	Describes how to configure Multiprotocol Label Switching (MPLS) on Brocade Vyatta products.	Yes	Yes	No

TABLE 13 API Guides

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Remote Access API Reference Guide</i>	Describes how to use the Remote Access API 2.0 to remotely run commands over HTTPs.	Yes	No	No
<i>Brocade Vyatta Network OS Scripting Reference Guide</i>	Describes how to use the Scripting API to create scripts for programmatic configuration and administration. Also describes how to create vcli scripts to access CLI commands.	Yes	No	Yes

TABLE 14 Deployment Guides

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS vRouter Deployment Options Configuration Guide</i>	Outlines deployment options for Brocade Vyatta products.	Yes	No	No
<i>Brocade Vyatta Network OS in AWS Quick Start Guide</i>	Describes how to get started with Brocade Vyatta products in the Amazon Web Services environment. Also applies to Distributed Services Platform.	Yes	No	Yes
<i>Brocade Vyatta Network OS OpenStack Plugin Deployment Guide</i>	Describes how to install and use the OpenStack Plugin on Brocade Vyatta products. Also applies to Distributed Services Platform.	Yes	No	Yes

Brocade 5600 vRouter

TABLE 15 Brocade 5600 vRouter software installation and upgrade

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS vRouter Quick Start Guide</i>	Gets you started using and configuring Brocade vRouter. It describes how to deploy the router and introduces you to the CLI and web GUI interfaces that you can use to access, configure, and manage the router.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter AMI Installation Guide</i>	Describes the Brocade vRouter Amazon Machine Image (AMI) and how to install it within the Amazon Web Services (AWS) cloud.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter Hard Disks and Persistent Devices Installation Guide</i>	Describes how to install and upgrade software on a persistent device, such as a hard disk, flash drive, or USB stick.	Yes	Yes	No
<i>Brocade Vyatta Network OS vRouter Hyper-V Installation Guide</i>	Describes how to install and upgrade the Brocade vRouter image for Hyper-V systems.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter Linux KVM Installation Guide</i>	Describes how to install and upgrade the Brocade vRouter image for Linux KVM systems.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter VMware Installation Guide</i>	Describes how to install and upgrade the Brocade vRouter image for VMware systems.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter XenServer Installation Guide</i>	Describes how to install and upgrade the Brocade vRouter image for XenServer systems.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter PXE Boot Installation Guide</i>	Describes how to boot Brocade vRouter over the network by using the Preboot eXecution Environment (PXE) protocol.	Yes	No	No
<i>Brocade Vyatta Network OS vRouter LiveCD Installation Guide</i>	Describes how to create and use a LiveCD for Brocade vRouter.	Yes	No	No

TABLE 15 Brocade 5600 vRouter software installation and upgrade (continued)

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS vRouter Azure Installation Guide</i>	Describes how to install and upgrade Brocade vRouter on Microsoft Azure.	Yes	No	No

Brocade VNF Platform

TABLE 16 VNF Platform

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS VNF Platform Installation Guide</i>	Describes how to install Brocade VNF Platform.	No	Yes	No
<i>Brocade Vyatta Network OS Quick Start Guide for VNF Platform</i>	Describes how to get started using Brocade VNF Platform.	No	Yes	No
<i>Brocade Vyatta Network OS VNF Platform Virtualization Support User Guide</i>	Describes how to set up the guest environment for Brocade VNF Platform and is intended for experienced system administrators.	No	Yes	No
<i>Brocade Vyatta Network OS VNF Platform Automated Provisioning User Guide</i>	Describes how to configure Zero Touch Provisioning and Call Home for Brocade VNF Platform.	No	Yes	No

Brocade Distributed Services Platform

TABLE 17 Distributed Services Platform

Document title	Description	Applies to Brocade 5600 vRouter	Applies to VNF Platform	Applies to Distributed Services Platform
<i>Brocade Vyatta Network OS Distributed Services Platform Provisioning User Guide</i>	Describes how to install and configure Brocade Distributed Services Platform, a large-scale distributed router consisting of a controller and multiple virtual data planes (vplanes) operating together as a large distributed system across many hypervisors.	No	No	Yes