



FREQUENTLY ASKED QUESTIONS

Contents

FREQUENTLY ASKED QUESTIONS	0
❖ What is Vyatta?.....	1
❖ What Kind of Partner Programs are Available?.....	1
❖ What is the Vyatta Reseller Ready Program?	1
❖ What is the Vyatta Partner Referral Program?	1
❖ What features does Vyatta include?	2
❖ What is new in Release 6.6 of the Brocade Vyatta 54xx vRouter?	2
❖ What are some of the applications for Vyatta?	2
❖ What is the difference between Vyatta editions?	3
❖ How is Vyatta Subscription Edition Packaged?.....	4
❖ What are the Vyatta Subscription Levels?.....	4
❖ How does Vyatta per-core licensing work?	5
❖ How do you price Virtual instances of Vyatta?	5
❖ What hardware do I need to build my own Vyatta system?	5
❖ Is an x86 platform fast enough to perform networking functions?	6
❖ Don't I need "specialized" networking hardware?	7
❖ What other services are available from Vyatta?	7

❖ **WHAT IS VYATTA?**

Vyatta, a Brocade company, is the leader in software networking for physical, virtual and cloud infrastructures. Vyatta delivers fast, flexible and secure networks by offering virtual routers, virtual firewalls and virtual VPN devices. With Vyatta, your virtual networks can match the security and compliance of your physical networks.

The Brocade Vyatta 54xx vRouters provide enterprise-class routing, firewall, VPN, QoS and more. Vyatta supports VMware ESX, Citrix Xen, Microsoft Hyper V, XenServer and Red Hat KVM hypervisors, Amazon's Virtual Private Cloud (VPC) and x86-based servers. Vyatta can be used wherever routing, firewalling or secure communications are required.

❖ **WHAT KIND OF PARTNER PROGRAMS ARE AVAILABLE?**

Vyatta offers two flavors of partner programs,

Vyatta Reseller Ready Program

Vyatta Partner Referral Program

❖ **WHAT IS THE VYATTA RESELLER READY PROGRAM?**

For partner organizations committed to delivering cloud and network virtualization services, Vyatta has established its “**Reseller Ready Program.**”

The Reseller Ready Program is for partners with virtualization, networking and security expertise that have sales, marketing and technical capabilities. Value Added Resellers and System Integrators who invest with Vyatta are offered the ability to register newly qualified opportunities and receive attractive margins to build a profitable business. Ready Resellers are highly trained and certified organizations with the technical and marketing skills our customers need.

[Click here to download and start Vyatta Ready Reseller Application.](#)

❖ **WHAT IS THE VYATTA PARTNER REFERRAL PROGRAM?**

The Vyatta Partner Referral Program is designed for partners who generate business today, but do not yet meet the requirements of the Vyatta Reseller Ready Program.

Vyatta will pay a referral fee for every Vyatta recommendation to an End Customer that result in new business. No volume or technical training/certification requirement is necessary.

[Click here to download and start Vyatta Ready Reseller Application.](#)

❖ **WHAT FEATURES DOES VYATTA INCLUDE?**

Vyatta has a competitive set of advanced routing and security features. The major features include: IPv4 IPv6 routing with RIPv2, OSPFv3, Multicast and BGP4 dynamic routing protocols; DHCP server/client; 802.1Q VLANs; WAN support with DSL, T1/E1 and T3 cards, LAN connectivity support to 10GbE, WAN link load balancing, VoIP QoS, stateful inspection firewall, site-to-site IPsec VPN, SSL VPN, Dynamic Multipoint VPN, Web Filtering, NAT, RADIUS and TACACS+ authentication, VMware and Xen Optimization, VRRP, SNMP, Familiar CLI and web GUI management, Remote Access API for management and configuration, and more.

For a complete list of features, see the [product specifications](#).

❖ **WHAT IS NEW IN RELEASE 6.6 OF THE BROCADE VYATTA 54XX VROUTER?**

Three critical features have been added to the subscription edition (these new features are not available in the free version of the Vyatta Network OS.

1. Multicast Support
2. Dynamic Multipoint VPN (DMVPN)

These features build on top of the already rich feature set of the Vyatta Network OS to provide a powerful software networking solution for virtualized environments.

❖ **WHAT ARE SOME OF THE APPLICATIONS FOR VYATTA?**

- Scalable BGP edge routing service provider / enterprise
- LAN/Wan routing & security for enterprise / branch office
- Affordable migration path from DSL to 10 Gigabit Ethernet
- Security and traffic management for virtual environments
- Secure cloud connectivity
- Cloud migration strategy
- Scalable VPN concentrators for large enterprise
- LAN segmentation for growing networks
- Network redundancy and high availability
- VOIP QOS (quality of service) traffic management
- Build your own best-of-breed branch office solutions

For detail on common Vyatta use cases, see the Vyatta Resource Library.

❖ WHAT IS THE DIFFERENCE BETWEEN VYATTA EDITIONS?

Vyatta develops and delivers three distinct packages of the Vyatta open networking software:

Vyatta Core (VC) (Open Source), **The Brocade Vyatta vRouter** - previously the **Vyatta Subscription Edition** and **VyattaGuard**. The Brocade Vyatta vRouter is also available on Amazon Marketplace.

Below are the primary differences between the Vyatta Open Source and the Brocade Vyatta vRouter

A more detailed list can be found on Vyatta.com.

Feature	Open Source	Subscription Edition
Routing, OSPF, BGP	✓	✓
Firewall, NAT, VPN	✓	✓
API, Common Data Model		✓
Restful API		✓
24x7 Technical Support		✓
Stable, QA'd Image		✓
Web GUI, Dashboard		✓
Multicast Support		✓
Dynamic Multipoint VPN		✓

VyattaGuard Secure Web Filtering. VyattaGuard web filtering adds enhanced protection to enforce web access policies and mitigate web-based threats using a commercial database containing 350 million+ categorized URLs in over 50 categories.

Click for detail on [VyattaGuard Web Filtering](#)

❖ HOW IS VYATTA SUBSCRIPTION EDITION PACKAGED?

Vyatta's open, software-based approach to networking allows us to deliver a complete network OS that takes advantage of high-performance multi-core processor advancements and is portable to modern virtualization and cloud infrastructures. Vyatta Subscription Edition is available from Vyatta as software that can be installed on standard x86 hardware, pre-built x86-based hardware appliances and as optimized virtual machines for VMware, Hyper V Xen, XenServer and KVM.

Software Subscriptions

Vyatta subscription edition software enables customers to deploy routing and security solutions that leverage the performance and economics of single or multi-core x86-based server hardware. This platform flexibility allows Vyatta customers to connect & secure networks large and small using the same software - starting at \$747. [More Info >>](#)

❖ WHAT ARE THE VYATTA SUBSCRIPTION LEVELS?

Vyatta Software and Appliances are priced based on the technical support, service needs and response time requirements of a particular user environment. Subscription services are available at three levels. All levels include the current stable and QA tested Vyatta Subscription Edition software and subsequent updates, upgrades, patches and alerts.

❖ Premium Edition Subscription

The Vyatta Premium Subscription is ideal for mission-critical installations where telephone support and 7x24 response time, priority SLA and customer hot fixes are essential. Premium Edition Support includes all the benefits of Enterprise and Professional Edition support.

❖ Enterprise Edition Subscription

For customers who need a high level of support, Vyatta offers Enterprise Edition, including 5x12 telephone support, severity-based SLAs, as well as all the benefits of Professional Edition support

Professional Edition Subscription

For businesses that aren't using Vyatta in a mission critical environment and don't require telephone support, Vyatta's Professional Edition is the way to go; it includes access to all software releases, updates, and patches as well as web-based ticketing and online case management.

See [Vyatta Subscriptions](#) for more detail

❖ HOW DOES VYATTA PER-CORE LICENSING WORK?

The applications/usage models and performance requirements for Vyatta software vary greatly. Where Vyatta is used as an SMB router/firewall or branch office network solution a single-core processor will likely be sufficient, however at the network edge or in enterprise datacenters, users will benefit from the increased processing power of multiple cores. To eliminate determining, "Is it a quad core or a 2x dual-core?", Vyatta software is licensed to run on a specified number of processor cores, irrespective of how those cores are packaged in hardware. A quad core processor is the same price as two dual-core processors is the same price as four single-core processors in the same system.

❖ HOW DO YOU PRICE VIRTUAL INSTANCES OF VYATTA?

Since virtual machines are not directly dependent on the number of processor cores of the host server platform for performance, Vyatta Subscription Edition for virtual environments is priced per instance at a slightly higher rate than our standard Subscription Edition software.

❖ WHAT HARDWARE DO I NEED TO BUILD MY OWN VYATTA SYSTEM?

A basic system should use a minimum of 512MB RAM, 1GB Disk Space, and a 1GHz CPU. Systems should include a CD-ROM to allow the software to be loaded. A VGA monitor and PS/2 or USB keyboard are helpful when you're first getting started but aren't required to run the system in production. Rather, you can run a "headless" system using an RS-232 serial cable connected to the servers COM port. For customers

who prefer not to download software and load onto x86-based hardware, pre-configured appliances are available from Vyatta.

For more information see [Vyatta Hardware Recommendations](#)

❖ IS AN X86 PLATFORM FAST ENOUGH TO PERFORM NETWORKING FUNCTIONS?

Definitely! The x86 processors produced by Intel, AMD, and others, are some of the fastest on the planet. In a recent independent test performed by Intel, Vyatta running on an Intel Quad Core Xeon processor was able to forward packets at 20Gbps bi-directional.

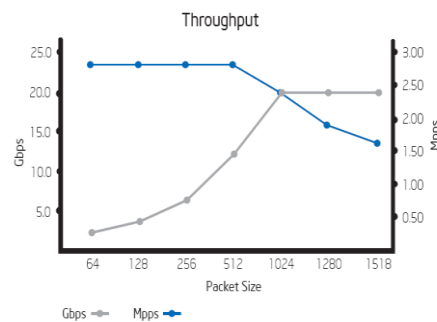
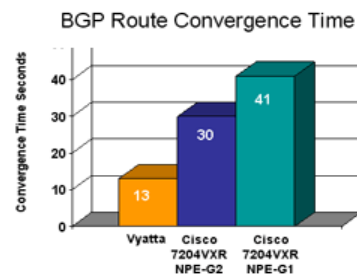
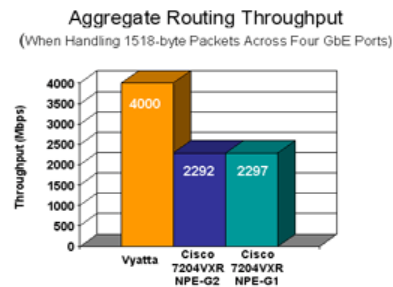


Figure 4. Bi-directional packet-forwarding results.

See [Intel Performance Benchmark](#)

Vyatta has also proven in [independent testing](#) that it can outperform Cisco's most popular BGP edge router in throughput and scalability testing.



The performance charts above are from head-to-head BGP performance testing with the Cisco 7204VXR with a retail price of \$35,000 against a Vyatta and IBM combination with a retail price under \$8000.

❖ DON'T I NEED "SPECIALIZED" NETWORKING HARDWARE?

No we don't and neither do you. Although some networking equipment does include special-purpose hardware and routing systems have used specialized "route processors" that include ASIC or FPGA components for years, we only achieve comparable—or better—performance on standard hardware.

Although it's generally true that you can achieve the absolute highest levels of performance using specialized hardware. That said, the question you have to ask yourself is how fast do you need to go? If you can achieve a given performance level using standard hardware, it's advantageous to do so. ASICs and even FPGAs are expensive, inflexible and cannot easily be reprogrammed to include the latest features or protocol changes.

❖ WHAT OTHER SERVICES ARE AVAILABLE FROM VYATTA?

Vyatta Services are designed to help customers simplify design, installation, configuration and management of Vyatta subscription edition software and Vyatta appliances. From packaged installation and upgrade services to completely custom consulting agreements, the technical team at Vyatta has the knowledge and experience to get your Vyatta-based network up and running and maintaining optimal performance.

Quick Start Configuration Service

With the Quick Start Configuration Service, you complete a simple questionnaire, and Vyatta's technical experts will generate a configuration for you that can be loaded onto your system or Vyatta appliances.

Vyatta University Self-Paced Training

Vyatta also offers technical training through [Vyatta University](#). Vyatta University courses are designed to teach users of Vyatta community and subscription software packages the essential skills to design and deploy affordable networks using Vyatta open-source software.