

❖ What is Vyatta?

Vyatta is a software-based, open-source, network operating system that is portable to standard x86 hardware as well as common virtualization and cloud computing platforms. Vyatta software provides a complete enterprise-class routing and security feature set capable of scaling from DSL to 20Gbps performance at a fraction of the cost of proprietary solutions. Thousands of physical and virtual infrastructures around the world, from small enterprise to Fortune 500 customers, are connected and protected by Vyatta.

❖ 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, 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, Intrusion Prevention, 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 [Vyatta Software Datasheet](#)

❖ 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
- > 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 [Vyatta Application Briefs](#) and [Vyatta Customer Case Studies](#)

❖ What is the difference between Vyatta editions?

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

Vyatta Core (VC) – Vyatta Core is the open source code that is the base Vyatta software product and provides the features necessary for most basic networking tasks. This software, its source code, as well as associated documentation can be downloaded and used at no cost. Updates are provided periodically and users have the ability to communicate with the Vyatta user community for support in the [Vyatta forums](#). Vyatta Core does not contain the complete Vyatta feature set and is not eligible for Vyatta's [professional services](#) or Vyatta commercial support.

Vyatta Core is available for download from [Vyatta.com](#) and [Vyatta.org](#)

Vyatta Subscription Edition – Vyatta Subscription Edition is a combination of open source and proprietary code delivering an enterprise-ready feature set and professional technical services.

Vyatta Subscription Edition builds on the functionality of the open source Vyatta Core with additional enterprise-ready product extensions and is supported by the Vyatta technical support team (up to 24x7). Subscription Edition customers also get proactive notifications of security alerts and software releases, priority access to patches & bug fixes as well as access to an introductory set of online training courses and the Vyatta Knowledge base containing hundreds of technical articles.

Click for detail on [Vyatta Subscription Software](#)

Vyatta PLUS – Additional enhanced services available to Vyatta Subscription Edition customers.

The first Vyatta PLUS service is VyattaGuard enhanced 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, 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 >>](#)

Hardware Appliances

Vyatta hardware appliances integrate Vyatta's award-winning routing and security software with performance tested, supported and warranted hardware platforms. The Vyatta family of hardware appliances offers unmatched price, performance, and flexibility for the enterprise network - starting at \$797. [More Info >>](#)

Network Virtualization Subscriptions

Vyatta network virtualization subscriptions are designed for users deploying Vyatta's routing and security functionality in VMware, Xen and KVM virtual environments. Vyatta network virtualization software includes integrated Xen paravirtualization and vmtools to deliver optimized performance for virtualized datacenters and cloud computing environments - starting at \$933 [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.

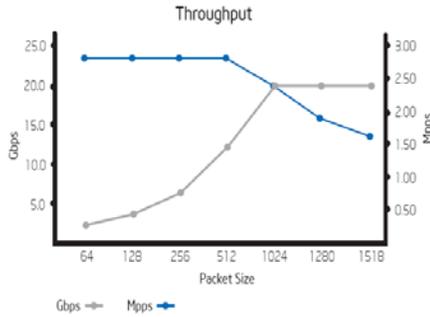
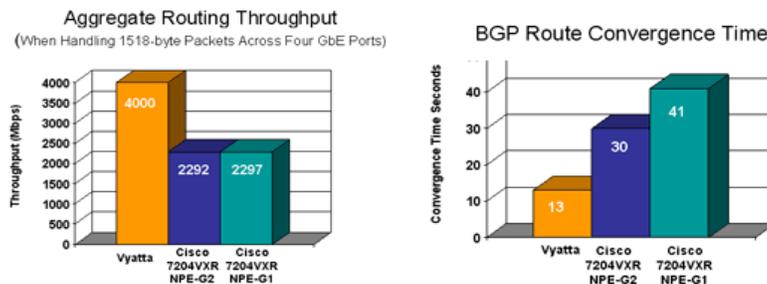


Figure 4. Bi-directional packet-forwarding results.

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.



How it is possible that these solutions based on standard hardware could outperform several that are supposedly powered by “specialized hardware”?

While performance results will vary by hardware platform, the standard x86 hardware architecture has more than enough power for most networking applications. And over time, this power will only increase as the x86 hardware vendors pour billions of dollars into continued development and enhancements.

❖ **Some networking equipment has expensive “specialized” hardware. Don't you need that?**

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.

Professional Consulting Services

The Vyatta professional services team also delivers completely custom consulting services ranging from network design and implementation planning to live training. If your network requires complex configurations or if you need a detailed migration plan or implementation strategy, Vyatta will designate an experienced Vyatta engineer to help you complete your project.

Vyatta's Software Upgrade Service

Vyatta's Software Upgrade Service allows you to leverage Vyatta's expert technical team to expedite software upgrades. Simply tell Vyatta which systems need to be upgraded and Vyatta technical staff can perform the work remotely. Vyatta will ensure that the work gets done with a minimum of downtime and will work with you to schedule the upgrade so that it presents a minimum of disruption to your users.

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.

Vyatta Hardware Warranties

Vyatta offers additional hardware warranties for Vyatta appliance customers with mission critical deployments requiring expedited hardware diagnostics, replacement parts and services.

❖ How do I get Vyatta Software?

The Vyatta Core (VC) Software is available to be downloaded for free from [Vyatta.com](#) or [Vyatta.org](#) as a live CD image and optimized virtual machines for common virtualization platforms.

Vyatta hardware appliances and Vyatta Subscription Edition software can be purchased from <http://www2.vyatta.com/store> or by contacting [Vyatta Sales](#)

The Vyatta Core source code is always available from the [Vyatta.org](#) community site.