

## Vyatta Open Networking Replacement Guide for Cisco Integrated Services Routers & Adaptive Security Appliances

This guide is designed to offer some basic guidelines for performance and hardware when comparing Vyatta open routing and security solutions and the Cisco routing and security product families. For detailed configuration information please consult your Vyatta sales representative. [sales@vyatta.com](mailto:sales@vyatta.com)

Vyatta Open Networking		Cisco ISR and ASA Series	
<b>Small Branch</b>	<b>Performance</b>	<b>Small Branch</b>	<b>Performance</b>
Vyatta 514 Appliance Price \$797	L3 forwarding 70,000 pps	Cisco ISR 1800 / 1841 Price - \$1,100-\$2,100	L3 forwarding 75,000 pps
Comparable system: Vyatta Subscription Software Processor: 500MHz -1.5 GHz Memory: 512 MB Storage: 2GB LAN/WAN: Fast Ethernet, T1/E1	VPN forwarding 115 Mbps	Cisco ISR 2801 Price - \$1,800-\$3,300	VPN forwarding: 95 Mbps
	Max VPN tunnels 1500		Max VPN tunnels 800
			L3 forwarding 90,000 pps
		Cisco ASA 5505 Price - \$500-\$2,700	VPN forwarding: 145 Mbps
			Max VPN tunnels 1,500
			L3 forwarding 85,000 pps
			VPN forwarding: 100 Mbps
			Max VPN tunnels 10 / 25
<b>Small-Medium Branch, Small Enterprise</b>		<b>Small-Medium Branch, Small Enterprise</b>	
Vyatta 2501 Appliance Price \$2,347	L3 forwarding 500,000 pps	Cisco ISR 2811 Price - \$1,800-\$4,300	L3 forwarding 120,000 pps
Comparable system: Vyatta Subscription Software Processor: Single core 2.0-3.0 GHz Memory: 1GB Storage: 2GB+ LAN/WAN: GigE, T1/E1, T3	VPN forwarding 420 Mbps	Cisco ISR 2821 Price - \$2,800-\$6,000	VPN forwarding: 145 Mbps
	Max VPN tunnels 2,000		Max VPN tunnels 1,500
			L3 forwarding 170,000 pps
		Cisco ISR 2851 Price - \$4,600-\$9,500	VPN forwarding: 145 Mbps
			Max VPN tunnels 1,500
		Cisco ASA 5510 \$2,500-\$16,000	L3 forwarding 190,000 pps
			VPN forwarding: 170 Mbps
			Max VPN tunnels 250
<b>Large Branch, Medium Enterprise</b>		<b>Large Branch, Medium Enterprise</b>	
Vyatta 2502 Appliance Price \$2,747	L3 forwarding 1,000,000 pps	Cisco ISR 3825 Price - \$6,700-\$12,500	L3 forwarding 350,000 pps
Comparable system: Vyatta Subscription Software Processor: 2.0-3.0 GHz Dual Core Memory: 2 GB Storage: 2GB+ LAN/WAN: GigE, Multi T1/E1, Multi T3	VPN forwarding 515 Mbps	Cisco ISR 3845 Price - \$9,150-\$15,200	VPN forwarding: 175 Mbps
	Max VPN tunnels 3000		Max VPN tunnels 2,000
			L3 forwarding 500,000 pps
		Cisco ASA 5520 Price - \$5,500-\$16,000	VPN forwarding: 185 Mbps
			Max VPN tunnels 2,500
			L3 forwarding 320,000 pps
		Cisco ASA 5540 Price - \$11,700-\$23,000	VPN forwarding: 225 Mbps
			Max VPN tunnels 750
			L3 forwarding 500,000 pps
			VPN forwarding: 325 Mbps
			Max VPN tunnels 5,000
<b>Enterprise, Service Provider Edge</b>		<b>Enterprise, Service Provider Edge</b>	
Vyatta 3510 / 3520 Appliance Price \$4,595	L3 forwarding 3,000,000 pps	Cisco 7200VXR Price - \$30,000-\$36,000	L3 forwarding 2,000,000 pps
Comparable System Processor: 3-4 GHz Quad Core Memory: 2-4 GB Storage: 4GB+ LAN/WAN: 10GigE, Multi T1/E1, Multi T3	Throughput 20Gbps	Cisco ASA 5550 Price - \$13,500-\$60,000	VPN forwarding: 260 Mbps
	VPN forwarding 900 Mbps		Max VPN tunnels 5,000
	Max VPN tunnels 8000		L3 forwarding 600,000 pps
	See Intel Benchmark: Intel® Xeon® Processor 5500 Series Router Solution		VPN forwarding: 425 Mbps
See Tolly Report: BGP Performance Evaluation vs. Cisco 7204VXR Router			Max VPN tunnels 5,000
		Cisco ASR 1000 Series Price - \$50,000-\$180,000	L3 Forwarding 4-20,000,00 pps
			Throughput 2.5 - 20Gbps

Sources: [http://www.cisco.com/en/US/products/ps6120/prod\\_models\\_comparison.html](http://www.cisco.com/en/US/products/ps6120/prod_models_comparison.html)  
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<http://www.cdw.com> - Cisco pricing