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Vyatta Background

- Past : how did Vyatta start?
- Present: what is current status
- Future: where are we headed?

Complete Network OS



Vyatta Remote Access API

Graphical User Interface

Command-Line Interface

Secure Web Filter

VRT IPS Signatures

Antivirus*

TACACS+

WAN / Serial Drivers

VPN Client Manager

Routing

FW

NAT

VPN

IPS

URL Filt

QoS

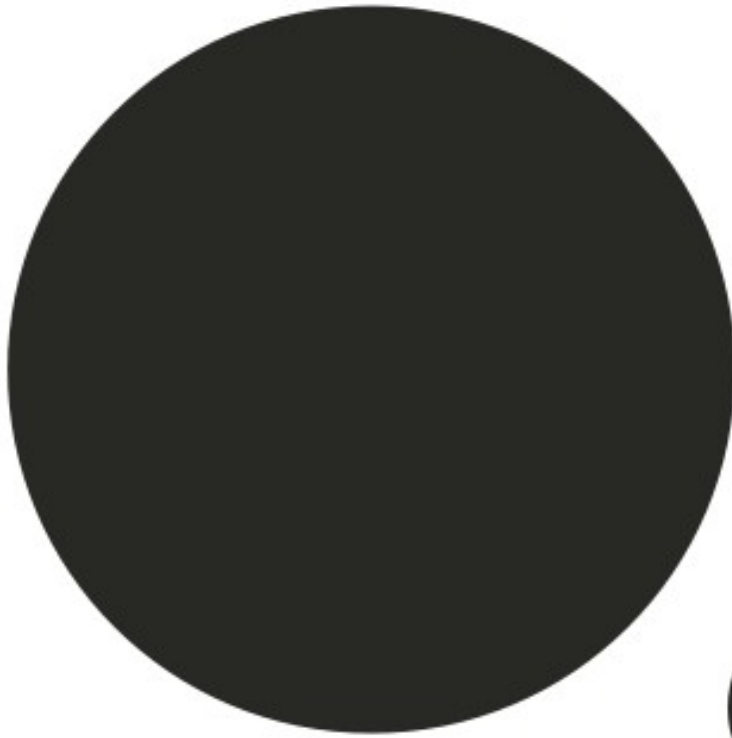
WAN LB

IPv6

 = Open-source

 = Vyatta licensed

- System
 - CLI
 - System & User management
 - Flow Accounting, Logging, SNMP
- IP Services
 - SSH, Telnet, DHCP, DNS, Web caching
 - Network address translation
- LAN Interfaces
 - Ethernet, Loopback
 - VLAN
 - Bridging, Ethernet Bonding
 - Wireless
- WAN Interfaces
 - Serial (T1/T3/E1/E3), DSL,
 - Wireless modem
- Encapsulations
 - Cisco HDLC, Frame Relay
 - IPoA, Bridged Ethernet
- PPP-Based Encapsulations
 - PPP, PPPoE, PPPoA, Multilink PPP
- Tunnels
 - GRE, IP-in-IP
- Basic Routing
 - Forwarding and routing, static routes
- BGP Routing
 - BGP Configuration
 - Global and Router-Specific Configuration
 - Route Reflection, Confederations
 - Neighbors and Peer Groups
 - Route Redistribution
 - Route Server
- OSPF
 - OSPF configuration
 - Router-level configuration
 - OSPF Areas, / Commands
- RIP Routing
 - RIP Configuration
 - Router-level configuration
 - Route redistribution
 - Route filtering
 - RIP interfaces
- Routing Policies
 - Configurations, commands
- Firewall
 - IPv4
 - IPv6
 - Zone-based firewall
- VPN
 - IPSec site-to-site
 - Remote access
 - OpenVPN
- Security
 - Intrusion Prevention
 - Traffic Filtering
 - Web Filtering
- QoS
 - Configuration, Commands



Vyatta – among giants!

	Cisco	Juniper	Vyatta
<i>Annual Revenue (B\$)</i>	40	3	
<i>Research & Development (M\$/Q)</i>	5,300	900	
<i>Employee</i>	70,714	7,231	35



Vyatta Community

Debian Developers

Open Source Community

Secret #1

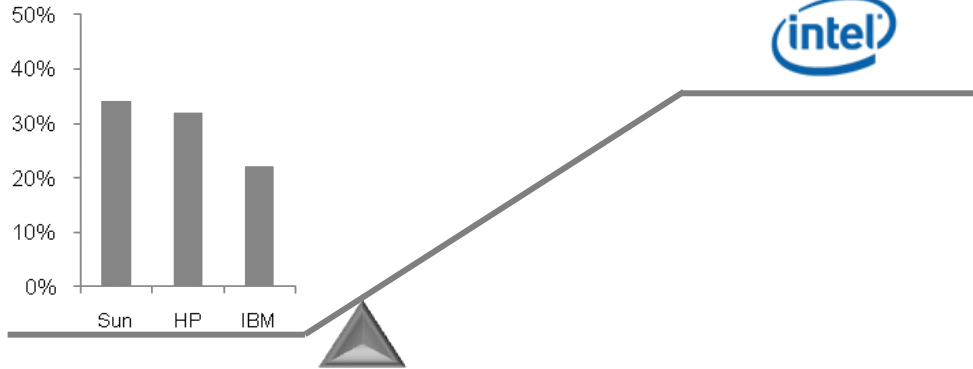
Networking maintainers are more friendly to foreign developers than they are with others.

Vyatta allies

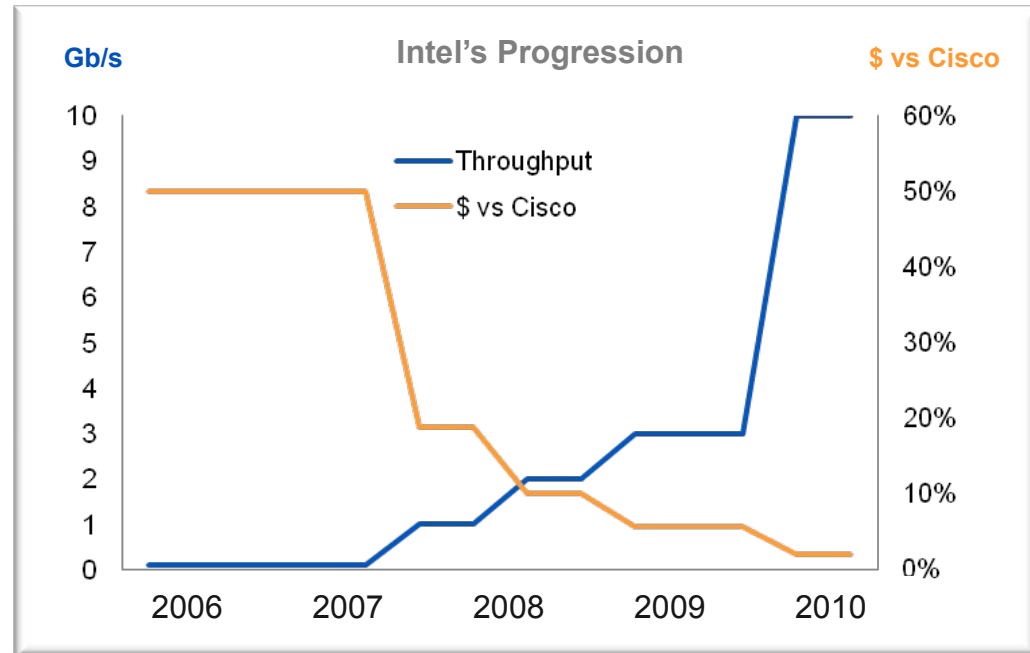
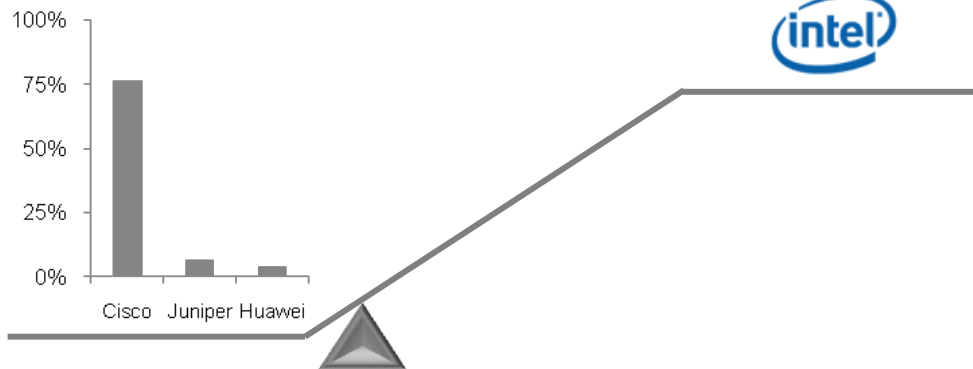


Intel Effect

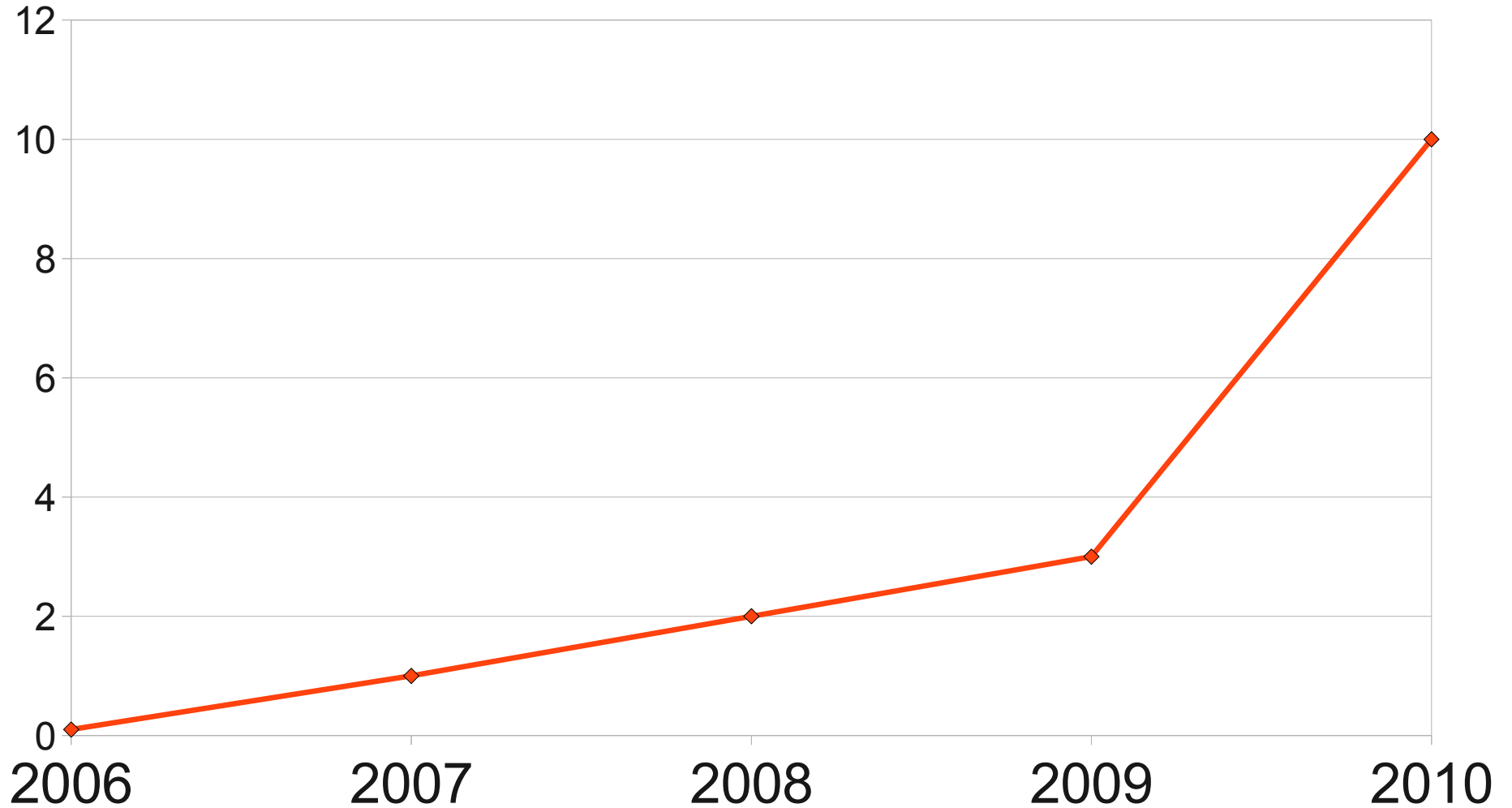
Unix OS



Network OS



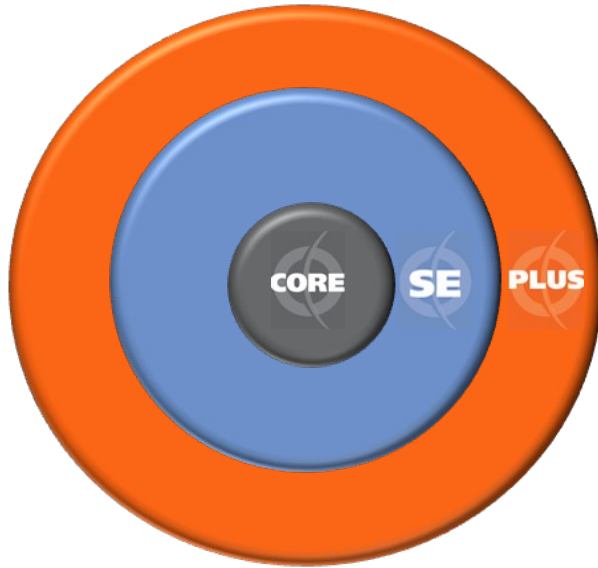
Vyatta Throughput (Gbits/sec)



Secret #2

There is a huge potential for another performance jump.

Packaging



VYATTA CORE

- Free download
- Open-source (GPL)
- Enables Vyatta Community
- Enables extended evaluation cycles
- Unsupported



VYATTA SUBSCRIPTION EDITION

- Commercial license
- Seamless upgrade from Core
- Vyatta value-adding software
- Technical support



VYATTA PLUS SERVICES

- Commercial license
- Optional modules



VYATTA APPLIANCES

- Pre-loaded Vyatta Subscription Edition
- Small Office to Datacenter

**Networking
is software.**

**No
it's not.**

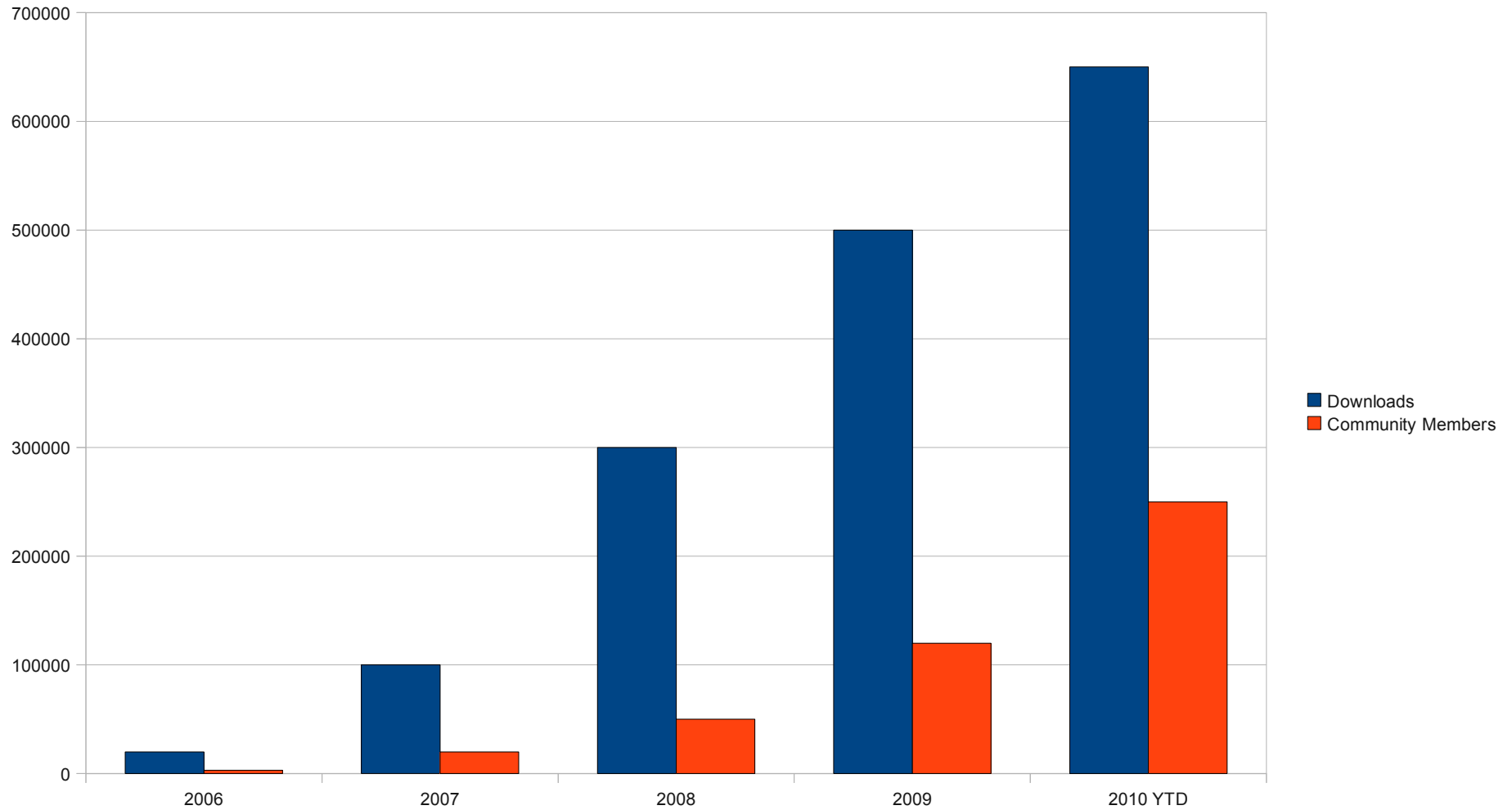


“Virtualization.”

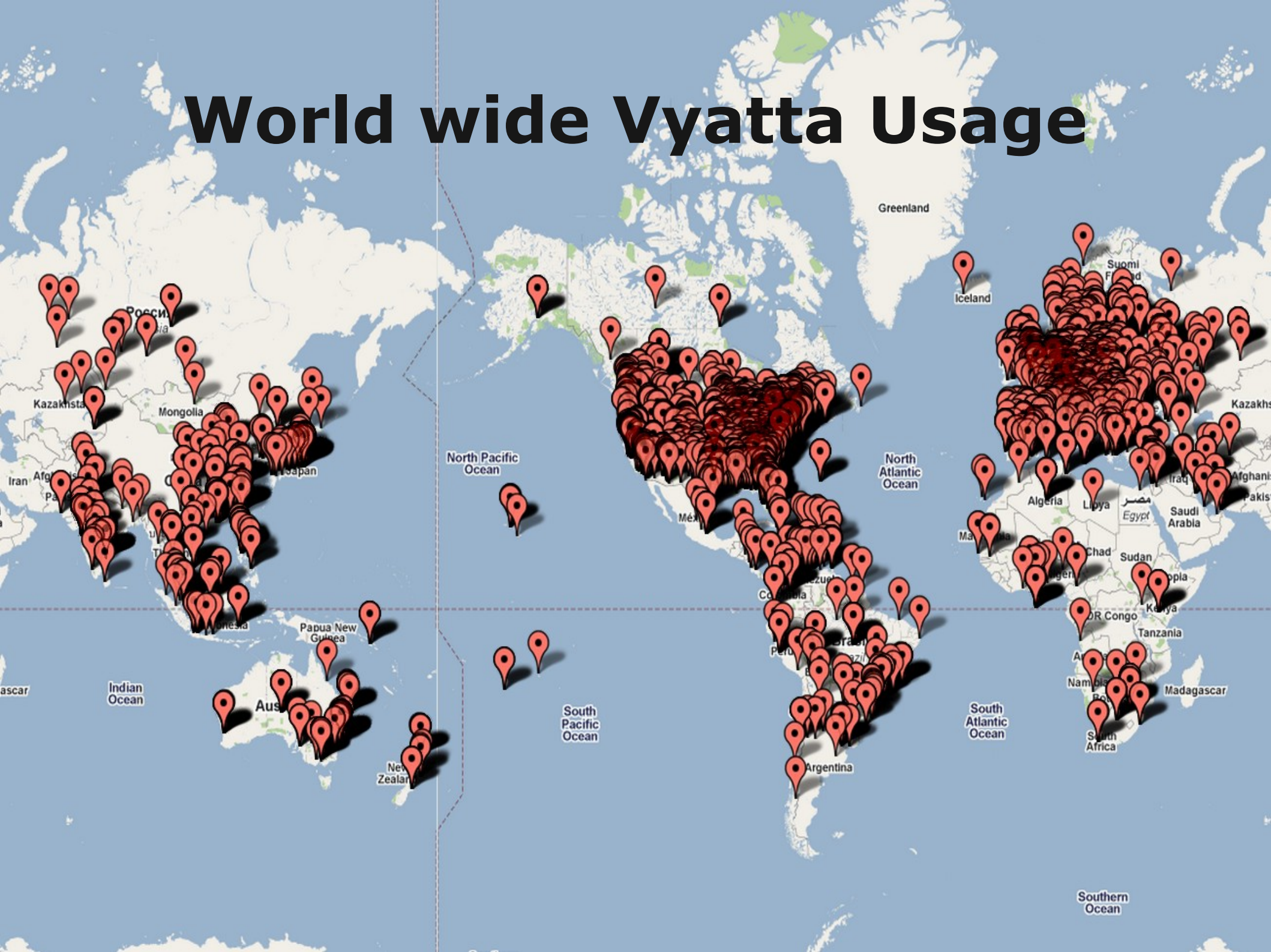
**Networking
is software.**



Vyatta Growth



World wide Vyatta Usage



Under the hood

vu sur YATAHONGA.com



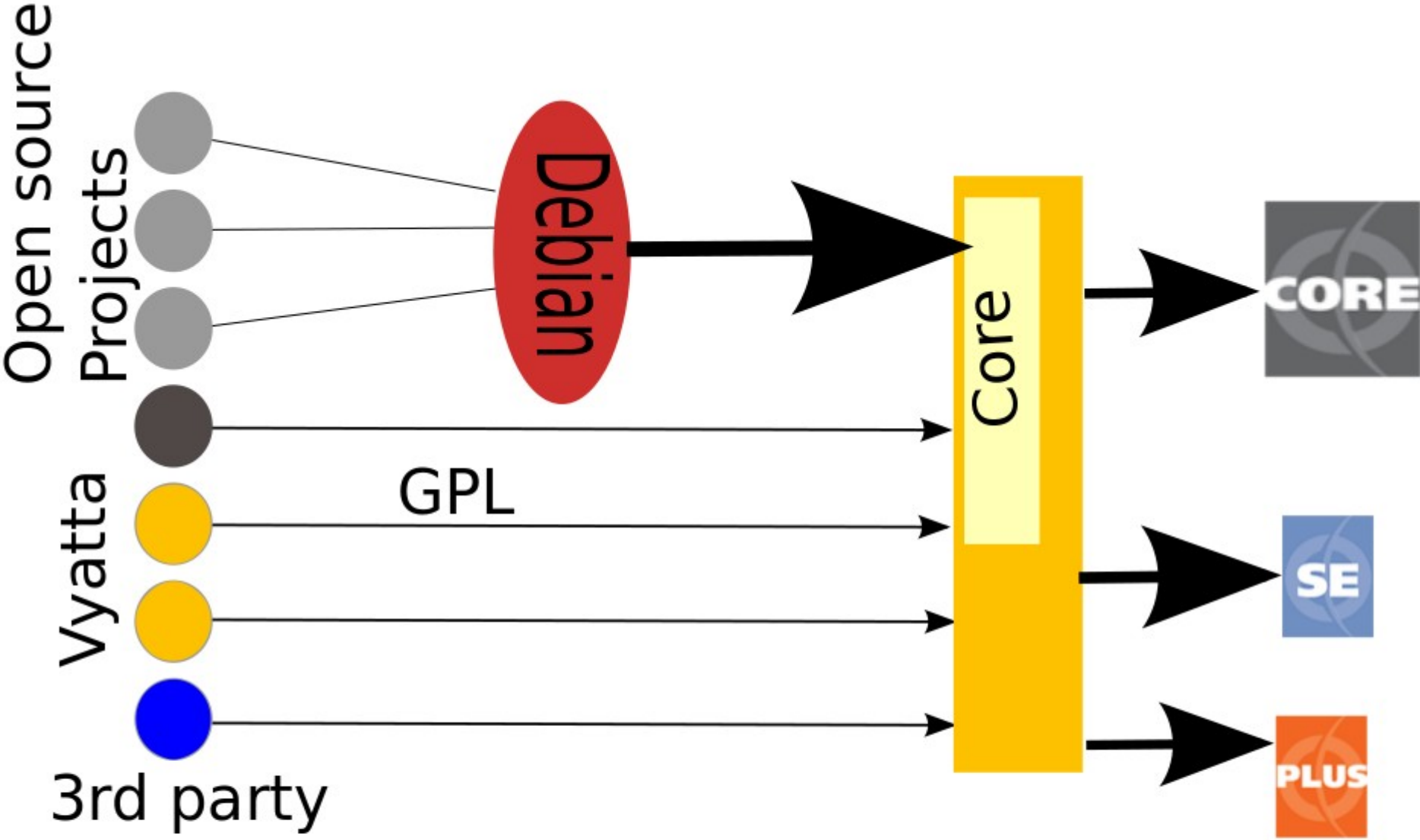
Vyatta Software Releases

- Major releases
2x year
- Maintenance updates
~2x year
- Critical updates
(unscheduled)



"I REALLY LOVE THIS STUFF, BUT I STILL HAVE A LOT OF TROUBLE WITH SUSHI."

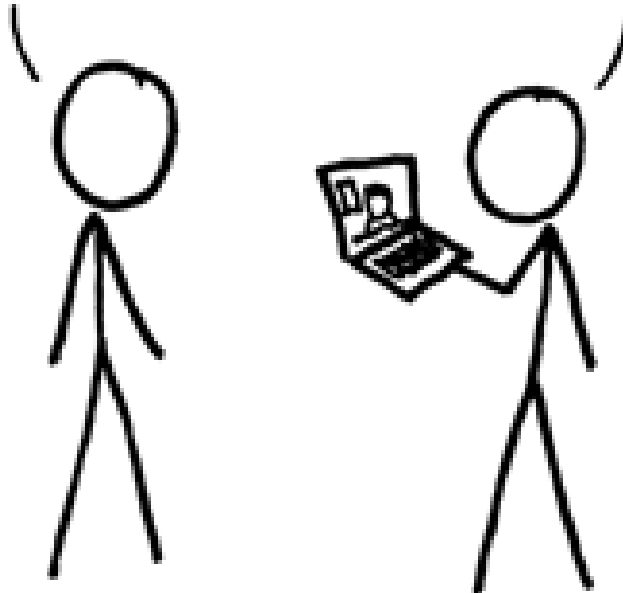
Vyatta integration process



IT TOOK A LOT OF WORK, BUT THIS
LATEST LINUX PATCH ENABLES SUPPORT
FOR MACHINES WITH 4,096 CPUs,
UP FROM THE OLD LIMIT OF 1,024.

DO YOU HAVE SUPPORT FOR SMOOTH
FULL-SCREEN FLASH VIDEO YET?

NO, BUT WHO USES THAT?



<http://xkcd.com/619/>

Release planning

- Customer requests
- Customer problems
- Upstream treadmill
- Incremental improvements

bugzilla.vyatta.com

- Prioritization
- Notebook
- Target planning

250 (out of 950)
planned to fix

COMPLAINT

TO: _____

_____	_____	_____
_____	_____	_____

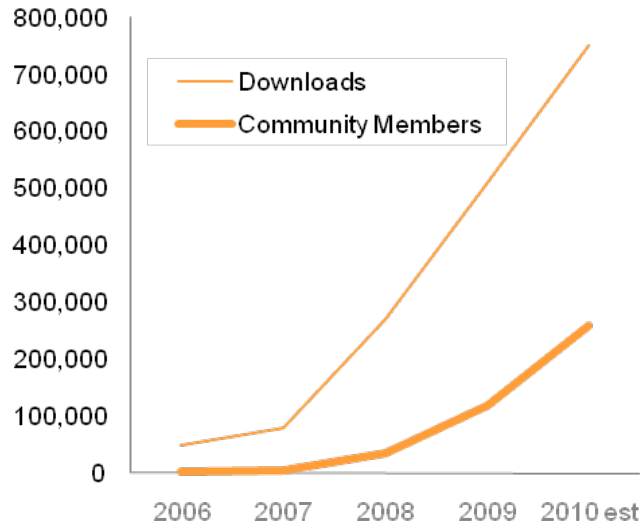
WHOSE FAULT: MINE OURS
 YOURS OTHER: _____

DESIRED OUTCOME: APOLOGY LITIGATION RESTITUTION
 EXPLANATION PROMOTION CHANGE

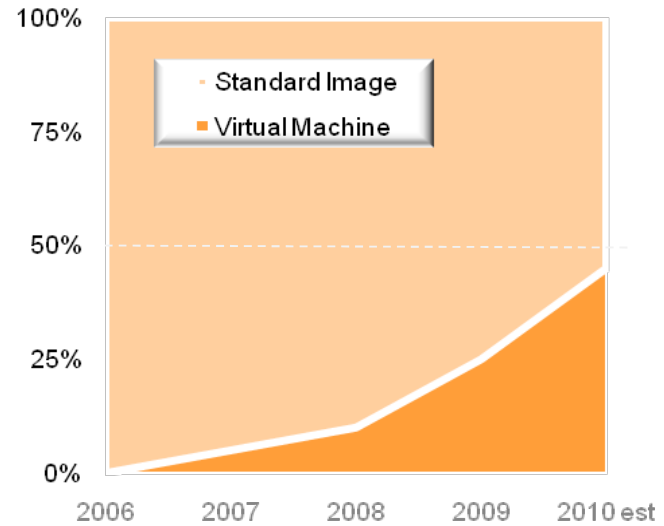
COMPLAINANT: _____ ANONYMOUS

Growth

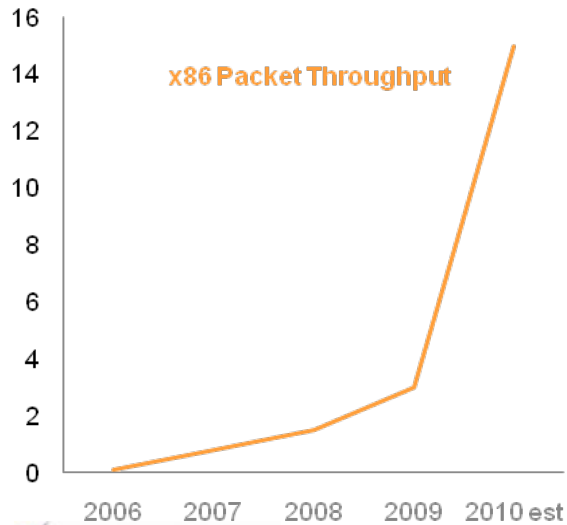
Community-Driven Penetration



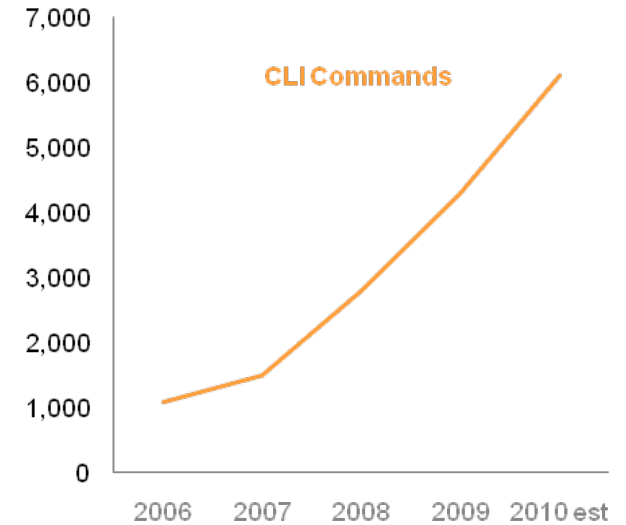
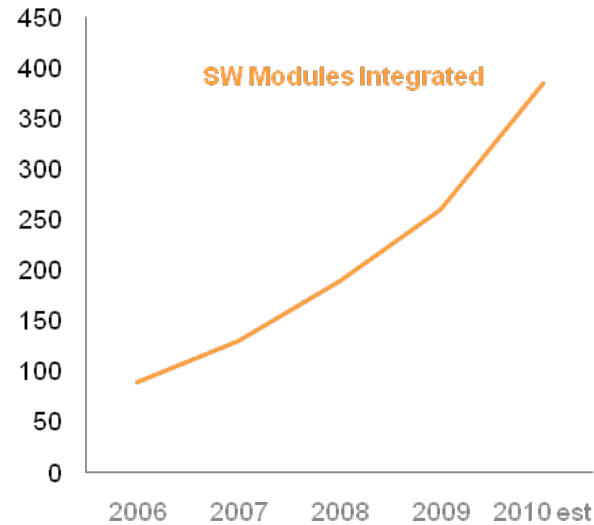
Trending Toward Virtualization



Hardware Performance



Vyatta Software Functionality



Upcoming

- Update to new Debian version (Squeeze)
- Kernel 2.6.35
- 64 bit support
- New hardware
- 4G wireless modems