

VYATTA, INC. | **Release Notes**

Vyatta Release 3.4.6

October 2009

Document Part No. A0-0095-10-0018



Vyatta
1301 Shoreway Road
Suite 200
Belmont, CA 94002
vyatta.com

Contents

These release notes document changes in R3.4.6.

- Security
- New in This Release
- Behavior Changes
- Documentation Changes
- Upgrade Notes
- Resolved Issues
- Known Issues

Security

There are no security announcements in this release.

New in This Release

- **Firewall Enhancements.** This release introduces a number of important additions to firewall:
 - Zone-based firewall: The ability to define groups of interfaces as “zones” and apply firewall rule sets to traffic entering and leaving zones.
 - Firewall groups: The ability to configure sets of addresses, networks, or ports, and a new “show” command for firewall groups.
 - Filtering rules for peer-to-peer application packets.
 - Time-based firewall rules.
 - Rate-limiting and burst-limiting actions.
 - The ability to configure TCP flags as match conditions.
 - ICMP type filtering by name.
 - The ability to tune security-related kernel parameters.Vyatta firewall features and commands are described in the *Vyatta Firewall Reference Guide*.
- **NAT Enhancements.** This release includes several enhancements to Network Address Translation (NAT) capability:
 - The ability to statically map whole networks as inside and outside addresses in source and destination NAT.
 - Per-rule logging for NAT.
 - Improvements and clarifications in the output of “show nat rules.”

NAT features are described in the *Vyatta NAT Reference Guide*.

- **BERT Capability for Sangoma E1/T1 Cards.** The Vyatta system now includes commands to configure and execute Bit Error Rate Tests (BERTs) on Sangoma T1/E1 cards that support this feature. BERT features are described in the *Vyatta WAN Interfaces Reference Guide*.
- **Time-Based URL Filtering.** URL filtering features have been extended to allow definition of source groups, where each group can have its own filtering policy, as well as time periods during which filtering rules can be applied to groups. URL filtering features are described in the *Vyatta Security Reference Guide*.
- **Pseudo-Ethernet Interfaces.** This release allows you to define multiple virtual Ethernet devices, each with a difference media access control (MAC) address, for a single physical Ethernet port. Pseudo-Ethernet interfaces have application in virtualized environments, where they can be used by other virtual machines, and allow you to work around the general limit of 4096 virtual LANs (VLANs) per physical Ethernet port. Pseudo-Ethernet interface support is described in the *Vyatta LAN Interfaces Reference Guide*.
- **QoS Enhancements.** Quality of service (QoS) features are now supported on all interface types. In addition, this release adds support for Random Detect and Weighted Random Detect, round-robin policies, network emulation policies, matching based on Ethernet header fields (source, destination, and protocol), ingress filtering based on VLAN tag, and matching based on IPv6 address and port values. QoS features are described in the *Vyatta QoS Reference Guide*.
- **WAN Load Balancing Improvements.** This release adds several new features to WAN load balancing.
 - Source-based routing. If source-based routing is enabled, traffic is load balanced on a per-packet basis and the source address is considered when choosing the egress interface.
 - Ability to flush the connection tracking table when a connection changes state.
 - DHCP support. DHCP WAN load balancing can be used with a DHCP client; next-hop and interface addresses can be learn via DHCP.
 - Ability to disable generation of source NAT rules for balanced traffic.
- **Load Configuration Enhancements.** In previous releases, loading a saved configuration replaced the running configuration. This release adds the ability to choose to merge saved configuration parameters with existing parameters.
- **Support for XenServer.** Release 3.4.6 includes delivery as a XenServer "template." The Vyatta template can be imported into XenServer and cloned into Xen virtual machines, which can then be managed by XenCentral. Instructions for installing the Vyatta system onto XenServer are provided in the guide *Installing the Vyatta System on XenServer*.
- **Security Enhancements.** Starting in this release, the root user is not created by the system by default. To be able to log on as the root user, the root account

must be explicitly created by a user with admin privileges (such as the default “vyatta” user).

- **Improvements to Software Upgrade.** The “full-upgrade” command has been improved to be more robust and better handle failure conditions. Status and failure messages have been clarified for improved usability.
- **Linux Kernel 2.6.30.** The Linux kernel of the Vyatta system has been upgraded to version 2.6.30. This upgrade provides greater system robustness and reliability, better support for multi-queue network interface cards (NICs), and adds drivers for several new NICs and other devices.
- **IPv6 Firewall.** This release provides experimental firewall functionality for IPv6, with the ability to configure firewall rule sets for filtering IPv6 packets and operational commands to display the status of IPv6 firewall features. IPv6 firewall features are described in the *Vyatta Firewall Reference Guide*.

Behavior Changes

There is a change to the minimum size required for a root partition. Previously, the minimum root partition size was 450 MB. This minimum requirement has been increased to 1 GB. Vyatta recommends using a minimum of 2 GB to provide sufficient space for package upgrades.

The Vyatta system integrates Snort rule engine for intrusion protection and traffic filtering. In this release, the Vyatta system Snort version has been upgraded to version 2.8, and the Vyatta system can now use the Snort version 2.8 rule base. This change of behavior fixes Bug 4634. Note that the previous Snort rule base (version 2.7) is no longer available for download from snort.org. In addition, all new alerts are being added only to the Snort version 2.8 rule base.

Documentation Changes

- **New Installation Guides.** Information on installing the Vyatta system on VMware products has been split out into a new guide: *Installing the Vyatta System on VMware*. A new guide has also been created to document new Vyatta system support for XenServer: *Installing the Vyatta System on XenServer*.
- **New Guide to IPv6 Support.** A new short document has been added to the technical library providing a brief overview of the Vyatta system’s support for the IPv6 protocol: *Guide to IPv6 Support*.
- **New Firewall Guide.** Documentation for Vyatta firewall features has been removed from the *Vyatta Security Reference Guide* into a new guide: *Vyatta Firewall Reference Guide*.

- **New NAT Guide.** Documentation for Vyatta NAT features has been removed from the *Vyatta IP Services Reference Guide* into a new guide: *Vyatta NAT Reference Guide*.
- **New Routing Policies and QoS Guides.** Routing policy documentation and QoS documentation, previously together in a single guide, have each been moved into their own guides: *Vyatta Routing Policies Reference Guide* and *Vyatta QoS Reference Guide*, respectively.
- **New Encapsulation, PPP-Based Encapsulation, and Tunnel Guides.** The Vyatta Encapsulation and Tunnels Reference Guide has been split into three guides. The *Vyatta Encapsulation Reference Guide* describes support for Cisco HDLC, Frame Relay, Classical IPOA, and RFC 2684 bridged Ethernet. The *Vyatta PPP-Based Encapsulation Reference Guide* describes support for PPP, PPPoE, PPPoA, and multilink PPP interfaces. The *Vyatta Tunnels Reference Guide* describes support for GRE and IP-in-IP tunnels.

To see the complete list of documents produced for this release of the Vyatta system, including a graphical map of the document set, see the *Guide to Vyatta Documentation*.

Upgrade Notes

For detailed information about upgrading Vyatta software to this release, please see the *Vyatta System Installation and Upgrade Guide*.

Resolved Issues

Bug ID	Severity	Component	Description
BGP			
3088	major	BGP	vyatta-bgpd listens on tcp/179 while bgp is not configured
3219	enhancement	BGP	Include a list of configured BGP neighbors for 'show ip bgp neighbors' help and command completion
3436	major	BGP	BGP process terminates when BGP is deconfigured
4391	enhancement	BGP	Allow interface name in BGP update source
4625	enhancement	BGP	Allow IPV6 address in BGP update source
Bridging			
2290	unassigned	Bridging	Add IP layer configuration to bridge interfaces
CLI			
2426	unassigned	CLI	Carriage returns should be treated as white space in config files

3242	minor	CLI	load config.boot fails to load tunnel interface local-ip
3961	minor	CLI	Command "show tech-support" hangs when name server is unreachable.
4138	unassigned	CLI	cli behaves different than bash on parameter expansion in configure mode
4235	minor	CLI	missing help on built-in config mode commands
4434	unassigned	CLI	commit after using 'rename' command to swap two rules results in inaccurate swapping
4722	trivial	CLI	Output inconsistent from 'save' and 'load' commands
DHCP			
3917	unassigned	DHCP	dhcp brings interface up for lease acquire/renew even though interface has been disabled in CLI
4785	unassigned	DHCP	dhcrelay forwards DHCP OFFER packets from server to '255.255.255.255:0' when relay-options set
DNS-dynamic			
4416	enhancement	DNS-dynamic	Add the ability to configure a specific server for DynDNS
Documentation			
4159	unassigned	Documentation	Default ceiling value for Qos is not 100%
4218	unassigned	Documentation	Update documentation to mention configuring of all interfaces involved with dhcp-relay
4257	major	Documentation	"prefix-length" option missing for 'set system ... pppoe ...'
4561	minor	Documentation	Documentation Error – IP Services VC5v.03 – Page 148
Firewall			
676	enhancement	FW	FW – misleading counter increments and log messages
1041	enhancement	FW	Add "clear firewall name <name> rule <number> counters" command
2223	enhancement	FW	Add rate rate limiting / burst limiting functions to the Vyatta firewall
2474	enhancement	FW	Firewall: Enable the ability to configure tcp flags as a match condition from within the CLI
2563	enhancement	FW	Add firewall-rule-specific enable/disable configuration parameters
2741	enhancement	FW	ENH: filter based on ICMP Type/code by name
3369	enhancement	FW	CLI: Enable Reverse Path Filtering from the Vyatta CLI
3422	minor	FW	fw logging fails if logprefix is too long (> 29 characters)
3423	minor	FW	Can't configure firewall on multilink PPP VIF

3626	minor	FW	Not all protocol numbers are accepted in firewall rules
3653	enhancement	FW	Add the ability to configure time-based firewall rules
3815	minor	FW	FW: Hyphenated port names treated as ranges in firewall rules
3951	minor	FW	default values for kernel tunable security parameters under firewall
3972	minor	FW	"show firewall" does not show filter expression for mac-address rule
3973	trivial	FW	FW: inconsistent cli to "show stats" & "clear counters"
3974	minor	FW	Firewall "modify" rule sets not displayed in "show firewall"
4074	major	FW	firewall broadcast ping parameter needs to be clarified
4147	major	FW	operator should not be able to run all contrack commands
4180	enhancement	FW	ENH: Perform completion for firewall names under interfaces
4239	unassigned	FW	Cannot apply firewall to a WAN interface when logged in as user vyatta
4244	minor	FW	Committing firewall changes breaks WAN Load-balancing (WLB)
4261	unassigned	FW	Features missing in various firewall sub-trees
4295	unassigned	FW	Unable to configure firewall on multilink interfaces
4297	unassigned	FW	A modify rule-set should not be able to be applied to "local"
4390	enhancement	FW	Firewall config error: Cannot specify multiple ports when both source and destination ports are specified
4394	unassigned	FW	reject is an invalid action for rules in modify rulesets
4408	unassigned	FW	ENH: allow firewall default policy to be configurable
4683	enhancement	FW	Firewall Rule number maximum 1024 reached
GUI			
4120	minor	GUI	Extraneous <value> item at top of Operation tree
4422	unassigned	GUI	webgui service can hang at 100% cpu
4853	minor	GUI	Web GUI can fill disk with output chunks in /opt/vyatta/tmp/webgui
IDS			
3898	minor	IDS	wrong license on package
4634	minor	IDS	Cannot update IDS rules

Installer			
3634	enhancement	Installer	Package upgrade should indicate process status
3731	unassigned	Installer	The minimum root size 450MB is no longer enough
3754	enhancement	Installer	install-system should not allow default passwords
3963	unassigned	Installer	error messages if "install-system" is run from a non-writable directory
4056	minor	Installer	full-upgrade run from admin account results in misleading error
4139	minor	Installer	install-system minimum partition size requirement should be increased
4490	minor	Installer	install-system doesn't mark root partition as "bootable"
Interfaces			
2231	unassigned	Interfaces	With certain hardware configurations, config.boot is incorrect and xorp fails to start
2597	unassigned	Interfaces	Serial: Manual restart of limin-wan fails due to module not found.
2795	major	Interfaces	DHCP client lease needs to be renewed on a link up event
3336	major	Interfaces	Remove MTU and MRU configuration from physical layer for serial interfaces
3340	minor	Interfaces	Remove MRU configuration from Frame Relay and Cisco HDLC
3534	critical	Interfaces	BONDING: Bonding interface link status not detected properly
3779	trivial	Interfaces	vlan scripts should use 'ip link' rather than vconfig
3797	unassigned	Interfaces	liminat configuration causes extra phy renegotiation during boot
3861	minor	Interfaces	Need ability to enable debug on pppoe, pppoa and WAN interfaces
3863	enhancement	Interfaces	Provide ability to configure static ARP table entries
3871	minor	Interfaces	Can't configure t1-options or e1-options without encapsulation
3892	enhancement	Interfaces	Include 10GigE card drivers
3943	major	Interfaces	BONDING: bonding modes help is incorrect
3945	minor	Interfaces	BONDING: bonding modes from show interfaces bonding do not match configuration
3952	minor	Interfaces	An Ethernet interface that is physically removed from the system remains in the configuration and cannot be deleted
4025	minor	Interfaces	Negative statistic value displayed in show interfaces serial/ multilink
4029	major	Interfaces	Can't configure ip node parameters under openvpn, wireless or bridge interfaces

4045	minor	Interfaces	Delete of bonding interface issues
4059	minor	Interfaces	Configuration load ranking does not account for openvpn
4061	major	Interfaces	Disconnected interface responds to pings
4247	trivial	Interfaces	help completion doesn't work for op mode bonding vif
4269	unassigned	Interfaces	Using dhcp to get IPv4 address prevents assignment of static IPv6 address on an interface
4273	enhancement	Interfaces	Add support for macvlan
4275	minor	Interfaces	link_filter error reported when configuring multilink PPP interface
4369	major	Interfaces	When a disabled physical Ethernet interface is re-enabled after a reboot it's associated VIFs are not recreated
4410	major	Interfaces	BONDING: Bonding doesn't detect carrier change
4427	major	Interfaces	Can't set smp_affinity on multiqueue NICs
4432	minor	Interfaces	Assignment of smp_affinity at boot time fails for certain NICs
4464	unassigned	Interfaces	BONDING: Vlans fail on bonding interface
4648	minor	Interfaces	BONDING: Do not allow configuration of bonding IP addresses under liminat.
4700	minor	Interfaces	Cannot load configuration file which changes interface from DHCP to a static IP address, or vice versa.
Kernel			
1656	minor	Kernel	64-bit processor kernel
4200	enhancement	Kernel	ENH: Enable dmesg/printk timestamps
4222	major	Kernel	Nat Semi IDE driver not included in Hollywood or Isla Vista kernels
4435	unassigned	Kernel	ICMP Redirect in violation of RFC1812
4476	major	Kernel	Kernel doesn't enable more than 8 CPUs
4646	major	Kernel	Invalid neighbor table overflow
Load balancing			
3329	enhancement	Load balancing	ENH: Automated Dual ISP DHCP Route Management for WAN Load-Balancing
4011	unassigned	Load balancing	Mixed static/dhcp default routes breaks targeting in wanlb if configured dhcp
4130	enhancement	Load balancing	WLB should balanced traffic sourced from router as well as traffic that transits router
4254	enhancement	Load balancing	Add an option to wan load-balancing to support source based routing
4351	unassigned	Load balancing	WLB replaces first rule in raw table's PREROUTING chain
4409	unassigned	Load balancing	SNAT rules are not set on disconnected pppoe

			interface when WLB is configured
4601	enhancement	Load balancing	make ping target optional
4624	major	Load balancing	load balancing source port rule not working
4658	enhancement	Load balancing	Add an option to wan load-balancing to support source based routing on per-rule basis
Logging			
2536	enhancement	Logging	Enhancement: Suppress FATAL Wanpipe error message displayed in console boot messages
NAT			
1267	major	NAT	NAT - "outbound-interface" and "inbound-interface" allowed values
3179	enhancement	NAT	Show NAT rules does not show ports, states or protocols specified in the rules
3287	enhancement	NAT	Add the ability to configure the iptables "NETMAP" target via the CLI
3401	enhancement	NAT	some indication is needed for the excluded rules in the "show nat rules" result
3419	enhancement	NAT	Add the ability to log NAT rule matches
3635	unassigned	NAT	The last page of the result appears twice after "G" is input after "show nat rules" is executed
3887	enhancement	NAT	Generate a warning message when NAT inbound/outbound-interface does not match a configured interface
4055	major	NAT	bridge conf not cleared between failed commits
4069	enhancement	NAT	Add NAT Alerts when configuring Outside and Inside Addresses
NTP			
4337	major	NTP	Change NTP server in default configuration file
OSPF			
3646	trivial	OSPF	Help string for ospf passive-interface only lists liminat interfaces
Packaging			
4063	minor	Packaging	full-upgrade without name server configured destroys linux-headers packages
4325	unassigned	Packaging	disable-link-detect code moved from limin-cfg-quagga to limin-cfg causes error on full-upgrade
Policy			
3351	unassigned	Policy	"set as-path-prepend 55095509" got as-path "..... 45269" on the bgp neighbor
PPPoE			
4052	minor	PPPoE	Can't configure PPPOE on an liminat VIF
4065	enhancement	PPPoE	Put PPPoE username and password in quotes in

			the peer file.
QoS			
3424	minor	QoS	Can't configure QoS Policy on multilink PPP VIF
3425	minor	QoS	Can't configure QoS Policy on PPP, Frame Relay or Cisco HDLC interfaces
3799	enhancement	QoS	Add support for QoS ingress filtering based on vlan
3859	major	QoS	interface dies when you remove a qos policy from vif
3885	trivial	QoS	Output of "show queueing" is not sorted
3896	minor	QoS	show queuing doesn't decode ingress classes
4201	enhancement	QoS	Add QoS support for OpenVPN
4267	enhancement	QoS	Add the ability to match on source or destination MAC address in QoS policies
4516	unassigned	QoS	Missing "random-detect" as an option in round-robin ... queue-type
RAID			
3889	minor	RAID	INSTALL-SYSTEM: RAID installation, configuration directory not found when installing new RAID when user deletes /dev/md0
RIB			
3606	major	RIB	same route entered from multiple places will be removed if route is removed from one place
4259	enhancement	RIB	Add quagga vtysh show daemons command
RIP			
2848	minor	RIP	IPTOS_PREC_INTERNETCONTROL is not set for RIP packets
3999	unassigned	RIP	"show ip rip status" shows an Ethernet interface and its VIF which are deleted
Serial			
3454	minor	Serial	CLI/SERIAL: Possible configuration errors when configuring E1 and latest Sangoma driver
3667	unassigned	Serial	ADSL is not available for 64-bit x86 architecture
3906	critical	Serial	update serial loses QoS settings
3954	major	Serial	Wanpipe terminates connectivity to Occam Networks DSLAMs with message "Overall failure = 3, 5 consec, time to retrain!"
3981	minor	Serial	serial: Show interfaces serial displays wanpipemon error when run a non-root user
4349	minor	Serial	Upgrade to wanpipe version 3.4.1
SNMP			
3846	minor	SNMP	SNMP reports incorrect ifSpeed for VIFs

Static			
2814	minor	Static	Show ip route (show route) no longer displays route and path summary
2815	enhancement	Static	Add a 'show ip route summary' command
System			
492	minor	System	"show users" does not show host mapping for Telnet Sessions
1587	major	System	Unable to install from bootable USB drive to other physical drive on system
3644	trivial	System	Enabling ssh is too noisy
3747	trivial	System	System ID left set to "linux raid autodetect" after re-installation without RAID
3774	major	System	operator level user should not be able to reboot system
3777	enhancement	System	Improve log management
3781	enhancement	System	eliminate root account login by default
3916	minor	System	ENH: Full-Upgrade script should fail with a succinct error message when the repository is not accessible
3955	minor	System	No shutdown or halt command
4005	major	System	ACPI support missing
4133	minor	System	Misspelling in help text for plain-text password
4142	minor	System	Unable to view disk format
4176	minor	System	During full-upgrade, the SSH server gets enabled, perhaps other services?
4272	trivial	System	Boot time config output messages are not logged by default
4299	enhancement	System	ENH: Custom login banners (pre- and post-login)
4528	major	System	Accounts which are not present in the active configuration can log in to the system
VPN			
2387	minor	VPN	VPN will not start if an unconfigured interface is specified
3051	critical	VPN	VPN fails to initialize if the interface is not up
3284	minor	VPN	IPsec does not bind to interfaces that are not yet up or IP addresses that are not yet applied when initialized on boot
3836	enhancement	VPN	Allow VPN authentication ID to accept values of IP address, domain name and " " enclosed phrases
3909	unassigned	VPN	The openvpn static interface route being set failed when config is loaded or system is booted
3930	unassigned	VPN	Not "show ip route forward" but "show ip route kernel" may return with an inactive default route through openvpn interface after "replace-default-

			route" being set
4219	minor	VPN	IPsec VPN does not launch on boot, error "The local-ip address X.X.X.X of peer "X.X.X.X" has not been configured in any of the local interfaces."
4238	major	VPN	openvpn: config-loader: commit failed at rank 1000
4378	major	VPN	ISAKMP DPD Remote Vulnerability with Openswan IPsec - CVE-2009-0790
4623	critical	VPN	Removing IPSEC VPN config without removing cluster ipsec config drops all interfaces.
VRRP			
3778	enhancement	VRRP	vrrp should allow prefix to be included with the virtual-address
4068	minor	VRRP	'show vrrp' last transition times are not updated when a transition occurs on boot
4152	enhancement	VRRP	Add support for VRRP operation on unnumbered interfaces
4183	unassigned	VRRP	No auto completion for group number when running 'clear vrrp master interface <iface> group <group-num>'
4190	unassigned	VRRP	vrrp may fail to start daemon if previous commit of vrrp partially failed
Webproxy			
4007	enhancement	Web proxy	Add ability to allow direct IP requests when URL filtering is enabled
4008	enhancement	Web proxy	Add the ability to configure time-based url-filtering rules
4012	trivial	Web proxy	Typo in web proxy validation
4028	unassigned	Web proxy	Add the ability to update individual blacklist category
4032	enhancement	Web proxy	Webproxy: Add support for content filtering based on MIME types
4033	enhancement	Web proxy	Webproxy: Add support for url-filtering based on url regular expression
4151	minor	Web proxy	ENH: Add command to restart the squid webproxy service
4174	enhancement	Web proxy	Add the ability to configure the 'append_domain' option for 'service webproxy' (squid.conf)
4246	unassigned	Web proxy	webproxy url-filter should log ip-address url drops
4358	minor	Web proxy	Webproxy: Cache in /var/tmp isn't cleared on squid shutdown/restart
4360	enhancement	Web proxy	Webproxy: Add the ability to bypass the cache for certain domains

Known Issues

Bug ID	Component	Description
BGP		
4376	BGP	<p>CLI error on creating a policy route-map</p> <p>The additive keyword is not accepted when creating a policy route map, as in the following example:</p> <pre>set policy route-map <i>map-name</i> rule <i>rule-num</i> set community "XXX:YYY XXX:YYY1 XXX:YYY2" additive</pre> <p>In addition, the CLI accepts the additive keyword as follows without a syntax error but generates an error when the command is committed:</p> <pre>set policy route-map <i>map-name</i> rule <i>rule-num</i> set community additive</pre> <p>Recommended action: The CLI accepts the additive keyword if it is enclosed in double quotation marks along with the community identifiers, as in the following example:</p> <pre>set policy route-map <i>map-name</i> rule <i>rule-num</i> set community " XXX:YYY XXX:YYY1 XXX:YYY2 additive"</pre>
CLI		
2654	CLI	<p>Commands for privileged users are shown to non-privileged users in Help. A number of commands that cannot be executed by non-privileged users ("operator" users) are displayed as valid commands and are completed with tab completion.</p> <p>Recommended action: Please note that the "configure" and "install-system" commands are not available to users with "operator" role.</p>
2777	CLI	<p>Stray quote confuses CLI. This affects both operational and configuration mode.</p> <p>Recommended action: Avoid typing stray single quotes.</p>
3383	CLI	<p>The "load" command does not ignore invalid configurations.</p> <p>If you attempt to load a configuration file that is not valid, the CLI effectively removes the running configuration. The CLI should validate that the new configuration is valid.</p> <p>Recommended action: The CLI now warns you if the configuration file you are attempting to load is invalid. If this warning appears, stop loading the configuration and verify the configuration file before attempting to load it again.</p>
Cluster		
3105	Cluster	<p>If both HA routers reboot with master's monitored interface down, the still becomes active.</p> <p>In service clusters where the service entries for the cluster are greater than 15, if the master router's HA-side interface (the monitored interface) is administratively disabled and both routers are rebooted at the same time, the master router negotiates as active after it comes up, even though its interface is disabled. If the interface is enabled, traffic flows normally. If interfaces is disabled a second time, HA fails over as expected. This issue does not occur if the two routers are rebooted 30 or more seconds apart.</p> <p>Recommended action: If the system enters this state, restart one of the HA</p>

		daemons.
GUI		
4091	GUI	The system time zone cannot be set through the GUI. Recommended action: Set the system time zone using the CLI.
4145	GUI	"Stop" button may be ineffective. Under rare circumstances when an operational command produces a high volume of continuous output the "Stop" button may not cancel the command. The "Stop" button will switch to "Run" and then back to "Stop" when additional output is received. Recommended action: Should this occur, click "Stop", then click "Run" to restart the command; subsequently, clicking "Stop" will correctly cancel the command.
4214	GUI	Shutdown issues. Shutting down the system using the GUI causes error messages to display and the system does not shut down Recommended action: Shut down the system using the CLI.
4517	GUI	Root user cannot log into GUI. When the root user attempts to log in via the GUI, the system displays an "Invalid username" message. This message is misleading, because it does not alert the user to the fact that root user access is restricted to the CLI. Recommended action: Be aware that root user access is provided only through the CLI.
IDS		
4270	IDS	Content inspection rule sid:100000122 causes an extremely high amount of false positive matches. This rule causes a large amount of false positive matches for otherwise legitimate traffic. Some legitimate sites and secure login pages are blocked with this rule (for example, the hotmail.com login). Since this rule is unlikely to be required by most users (it protects against a vulnerability in an old version of Macromedia Jrun), it should be disabled by default. Recommended action: Comment out this rule in the content inspection rule base to prevent it from causing false positive matches.
4685	IDS	Enabling content-inspection traffic-filter ipv6-preset breaks IPv6. The following two content inspection options, documented in the <i>Vyatta Security Reference Guide</i> , have been removed from the Vyatta CLI since they cause issues with other IPv6 support: content-inspection traffic-filter ipv6-preset content-inspection traffic-filter ipv6-custom Recommended action: None.
Interfaces		
3221	Interfaces	DSL: "pvc auto" does not properly detect PVC. The DSL PVC is not detected properly when the "pvc auto" setting is configured, and the connection does not establish. DSL PVC auto-detection is unreliable; it does not work when the carrier uses an uncommon VPI/VCI pair. It also fails if anything causes the ATM pings used to detect the VPI/VCI pair. Recommended action: Specify DSL PVCs manually. Use auto-detection only if you do not know the VPI/VCI numbers used by your carrier.

4695	Interfaces	<p>Poor error message for VLAN-challenged devices.</p> <p>Some older hardware does not support VLANs. For such hardware, the Vyatta system blocks the operation and returns an "Operation not supported" message. Drivers that are known not to support VLANs are rare, but include the following:</p> <ul style="list-style-type: none"> • Ethernet bonding interfaces • PS3 network interfaces • Intel i2400m WIMAX interfaces • 4. IP over Infiniband <p>Recommended action: Avoid using VLANs on devices that do not support them.</p>
NAT		
1445	NAT	<p>The "service nat protocol" option should have a selection for TCP and UDP without including ICMP.</p> <p>The "service nat protocol" option should have a selection for TCP and UDP that does not include ICMP. Currently, the options are [TCP UDP ICMP all].</p> <p>Recommended action: To include both TCP and UDP but not ICMP, create two different NAT rules.</p>
OSPF		
2801	OSPF	<p>Pre-existing protocol configuration files are not initialized.</p> <p>When a system with OSPF statements saved in the configuration is rebooted, the system fails to load with a "Commit failed" error. The "interfaces" and "system" configuration nodes load correctly, but other configuration nodes do not. This issue recurs each time the system is rebooted.</p> <p>Recommended action: None.</p>
3004	OSPF	<p>Deleting OSPF area returns "Area does not exist" if a virtual link is included in the area and no interface is included in the area.</p> <p>Recommended action: Remove virtual links from an OSPF area configuration prior to deleting the OSPF area.</p>
3348	OSPF	<p>The OSPF process dies if "router-id" value is modified while the router's OSPF process is performing convergence.</p> <p>Recommended action: Avoid changing the router ID during convergence. Wait until after the OSPF process has completed converging.</p>
Serial		
2319	Serial	<p>Serial E1 Unframed G.703 connection doesn't work on some cards.</p> <p>Unframed connections work correctly on the following cards: A102SH A104SH with Maxim framer</p> <p>Unframed E1 is does not work correctly on the following cards: A104SH with PMC framer</p> <p>Recommended action: None.</p>
3786	Serial	<p>The Sangoma serial loopback framer fails the loop test. The loop test does start, but results in a timeout. The expected success rate should be 100%, since the data never leaves the local machine. Analog and local loopbacks work as expected.</p> <p>Recommended action: None.</p>

Static		
4228	Static	<p>Static route set inactive when next hop is learned from another or a dynamic routing protocol.</p> <p>This problem can be operationally relevant when the next hop is a VRRP virtual IP, when a /32 prefix is learned via OSPF and is more specific than the connected route, or in a scenario where the static route points to a loopback address learned via OSPF.</p> <p>Recommended action: None.</p>
System		
3319	System	<p>System error rebooting LiveCD.</p> <p>When a "reboot" command is issued, the system reports a "Umount" error on the console.</p> <p>Recommended action: None. This error has no operational impact and can safely be ignored.</p>
4051	System	<p>SYSLOG: The "set system syslog console" command now requires a mandatory facility option. Upgrading the system from a saved configuration that does not include syslog facilities will cause an error.</p> <p>Recommended action: If the "set system syslog console" command has been set, then before upgrading, set the default facility configuration by committing and saving the following command:</p> <pre>set system syslog console facility all</pre>
VPN		
2388	VPN	<p>The VPN process restarts when an interface is added or deleted, even if the interface is not specified in VPN configuration. As a result, all existing VPN tunnels will be re-established.</p> <p>Recommended action: None.</p>
VRRP		
4580	VRRP	<p>The "show interfaces" command returns the wrong prefix for a VRRP virtual address if another virtual address having the same IP address but a different prefix has been deleted.</p> <p>Recommended action: None.</p>