

VYATTA, INC. | **Release Notes**

Vyatta Community Edition 5.0.2

March 2009

Document Part No. A0-0097-10-0007



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Contents

These release notes document changes in VC5.0.2 relative to VC4.1.4.

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Security

There are no security announcements in this release.

New in This Release

- **Web GUI Functionality.** This release introduces the first phase of a redesigned web GUI interface for interacting with the Vyatta system. In this initial phase, the GUI simply reflects visually the structure of the CLI, and the command hierarchy in the GUI follows the basic CLI configuration structure. Supported web browsers are Firefox 3 and Microsoft Internet Explorer 7. The GUI is turned off by default, for security reasons, and must be enabled through the CLI. For more information about using the web GUI, please see the *Vyatta System Quick Start Guide*.
- **OpenVPN.** Previous releases of the Vyatta system supported IPsec site-to-site Virtual Private Network (VPN) and remote access IPsec and Point-to-Point Tunneling Protocol (PPTP) VPN. This release adds support for OpenVPN. OpenVPN is an open-source VPN solution that provides both site-to-site and remote access modes of operation. OpenVPN implements its own communication protocol, which is transported on top of UDP or TCP, to provide a secure “tunnel” for VPN traffic. OpenVPN can more easily handle NAT than other VPN protocols and may be a better choice for environments with NAT between two endpoints, where the endpoints can both run Vyatta (or OpenVPN on Linux). OpenVPN commands are described in the *Vyatta VPN Reference Guide*.
- **Intrusion Protection System and Traffic Filtering.** This release implements support for intrusion protection system (IPS) and traffic filtering based on inspection of traffic content. Using Snort and its signature database, the Vyatta system detects intrusion attempts by using signature-based and network-based detection mechanisms. In addition, the Vyatta system can prevent malicious

behavior by dropping packets that are associated with a detected attack. Commands for IPS and Traffic filtering are described in the *Vyatta Security Reference Guide*.

- **URL Filtering.** The Vyatta system can be now configured to act as a web proxy server for URL filtering. Before allowing an HTTP request to proceed, the filtering functionality first determines whether the requested URL belongs to a category that the administrative user has configured for blocking. If the URL has been configured for blocking, the filtering function returns an error page to the user. Commands for URL filtering are described in the *Vyatta Security Reference Guide*.
- **Web Caching.** The Vyatta system can now be configured to act as a web proxy server for web caching and URL filtering. A client can request a web page from the Vyatta system, which connects to the web server and requests the page on the client's behalf. The Vyatta system caches the response; if the page is requested again it can be served directly from the cache, saving the time and bandwidth required for transacting with the web server. Web caching commands are described in the *Vyatta IP Services Reference Guide*.
- **DNS Forwarding.** The Vyatta system now includes support for DNS forwarding (also called DNS relay). This feature allows DNS to be used in environments where the IP address of the DNS server is subject to change—for example, because the IP address of the DNS server is assigned through DHCP by an Internet Service Provider (ISP). When DNS forwarding is used, the client router offers its own client-side IP address (which is static) as the DNS server address to the hosts on its network, so that all client DNS requests are made to the client router's client-side address. When DNS requests are made, the client router forwards them to the ISP DNS server; answers are directed back to the client router and forwarded through to the client hosts. DNS forwarding commands are described in the *Vyatta IP Services Reference Guide*.
- **Dynamic DNS.** This release introduces support for Dynamic DNS. Dynamic DNS (DDNS) allows network endpoints whose IP addresses are assigned dynamically (for example, through DHCP) to participate in the Domain Name System (DNS). Devices using dynamic DNS can notify a domain name server in real time of changes to host name, IP address, or other DNS-related information. This feature is particularly useful for systems where a dynamic IP address is provided by the Internet Service Provider (ISP). Whenever the IP address changes, the Vyatta system updates a DDNS service provider with the change. The DDNS provider is responsible for propagating this change to other DNS servers. The Vyatta system supports a number of DDNS providers. Commands for configuring DDNS are described in the *Vyatta IP Services Reference Guide*.
- **Enhanced VMware support.** Starting in this release, Vyatta includes the open-vm-tools library to provide enhanced performance in VMware environments. The appropriate accelerated drivers are automatically loaded on startup, with the exception of the accelerated network driver. To use the accelerated driver, edit your VMware vmx configuration file and set the device type for your Ethernet cards, by adding a line similar to the following for each Ethernet

device:

```
ethernet0.virtualdev = "vmxnet"
```

Add similar lines for ethernet1, ethernet2, etc. To verify that the vmxnet driver has loaded correctly, boot Vyatta and execute the following operational mode command:

```
show interfaces ethernet eth0 physical
```

Verify that the "driver" field in the output displays "vmxnet." Do the same for all other interfaces (eth1, eth2, etc.).

- **Support for RFC 2684 (formerly RFC 1483) Bridged Ethernet over ADSL.** Previous versions of the Vyatta system supported Classical IP over ATM, PPPoE, and PPPoA. This version adds support for RFC 1483 bridged Ethernet encapsulation over ADSL. Bridged Ethernet support is described in the *Vyatta Encapsulation and Tunnels Reference Guide*.
- **Support for Synchronous Serial Cards.** The Vyatta system now supports Sangoma A142 two-port and the A144 four-port synchronous serial WAN network interface cards (NICs). The A142 and A144 provide connectivity using the V.35, X.21, RS-422, or EIA530 physical interface standards. Commands for configuring synchronous serial cards are described in the *Vyatta WAN Interface Reference Guide*.
- **Serial Loopback Commands.** This release includes new commands for serial loopbacks for isolating problems on serial lines. The exact loopbacks available depend on the type of card and the chipset used by the card. The Vyatta system auto-detects the chipset and the CLI command completion mechanism displays all the options, and only the options, supported by the chipset on your card. Serial loopback commands are described in the *Vyatta WAN Interface Reference Guide*.
- **RAID-1.** This release introduces support for RAID 1 operation. A Redundant Array of Independent Disks (RAID) uses two or more hard disk drives to improve disk speed, store more data, and/or provide fault tolerance. RAID can be implemented using special hardware or it can be implemented in software. The Vyatta system supports a software "RAID 1" deployment on two disks. This deployment allows two disks to mirror one another to provide system fault tolerance. Every sector of one disk is duplicated onto every sector of all disks in the array. Provided even one disk in the RAID 1 array is operational, the system continues to run, even through disk replacement (provided that the hardware supports in-service replacement of drives). RAID 1 can be used to reduce or eliminate downtime associated with disk failure without having to resort to flash-based, solid-state storage, which is often lower performance, lower density, and more expensive. RAID 1 is configured during installation. Commands for setting up RAID 1 are described in the *Vyatta High Availability Reference Guide*.

- **Experimental Support for Ethernet Link Bonding.** Multiple physical Ethernet links can now be bundled to create a larger virtual Ethernet link. Bundling Ethernet links increases performance between two devices without requiring an expensive higher-speed physical link. It also provides redundancy, since the bundle retains connectivity if an individual link fails. Commands for configuring Ethernet link bonding are described in the *Vyatta LAN Interface Reference Guide*.
- **Experimental Support for Wireless Modem.** This release of the Vyatta system implements experimental support for USB wireless modems (e.g. providing connectivity to 3G networks). Currently, wireless modem support has been tested against a Sierra Wireless USB Connect 881 modem and a UT Starcom (Pantech) 3G modem. Wireless modem support can provide backup connectivity or primary connectivity to remote devices. Commands for wireless modem support are described in the *Vyatta WAN Interfaces Reference Guide*.
- **Experimental Support for IPv6.** Experimental support for IP version 6 (IPv6) has been added in this release. IPv6 versions of configuration commands have been added for BGP, RIP next generation (RIPng), and static routes. IPv6 versions of operational commands have been added for RIPng, Neighbor Discovery, ping, and showing routes. Support for IPv6 is documented in a special stand-alone chapter, "IPv6." IPv6 is not yet supported for firewall, VPN, and other high-level services. IPv6 compatibility with these features will be added in following releases.

Behavior Changes

This release removes support for antivirus functionality. It has come to Vyatta's attention that this functionality may be covered by one or more patents worldwide. We are currently investigating this issue and will reintroduce this functionality at a later date if possible.

There is also a change to the minimum size required for a root partition. Previously, the minimum root partition size was 450MB. This minimum requirement has been increased to 1000MB. Vyatta recommends using a minimum of 2000MB to provide room for package upgrades.

Documentation Changes

- **Redesigned Technical Library.** The Vyatta Command Reference and Configuration Guide, which had grown very large, have been reorganized into a library of smaller, targeted guides. Each guide contains all command reference and configuration information for the feature. The new technical library is fully described in the *Guide to Vyatta Documentation*, new in this release and described below.

- **New Overview Guides.** This release introduces two new guides to the Vyatta library:
 - *Guide to Vyatta Documentation.* This guide provides an overview of Vyatta product documentation. It includes a graphical "map" of the documentation set and briefly describes each guide. This guide expands and replaces the *Vyatta Documentation Roadmap*.
 - *Vyatta System Installation and Upgrade Guide.* This guide explains how to deploy and upgrade Vyatta software. The upgrade information in this guide replaces the upgrade information previously found in the *Vyatta System Quick Start Guide*.
- **Cross-Document PDF Search.** This release introduces the ability to use PDF search across all documents in the software document set. To use cross-document PDF search, extract the set of zipped files into the same folder as the PDF documents you want to be able to search. Double-click the PDX file and enter your search string in the search bar.
- **Web GUI Documentation.** To support the first phase of web GUI functionality, the *Vyatta Quick Start Guide* has been expanded with a new chapter introducing you to the web GUI interface.

Upgrade Notes

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

Resolved Issues

Bug ID	Severity	Component	Description
BGP			
3270	minor	BGP	missing/useless bgp operational help strings
3711	minor	BGP	'show ip bgp regexp 'regex'' returns % Command incomplete.
3990	critical	BGP	Removing device kill BGP
CLI			
1130	major	CLI	Interrupting load command does not cancel load
1283	major	CLI	CLI becomes confused after entering illegal character
3459	unassigned	CLI	Entering configure mode causes a spurious error message

Cluster			
3481	major	Cluster	Vyatta 514 configured with Clustering does not reboot successfully
3560	unassigned	Cluster	Setting cluster dead-interval and keep-alive interval to low values causes system to hang
DHCP			
3159	minor	DHCP	Enhancement: Permit dynamically derived DNS Server to be assigned for DHCP Service
3318	enhancement	DHCP	ENHANCEMENT REQUEST: Option to NOT Accept DHCP MTU Offers Below Specified Value
3366	minor	DHCP	dhcp-relay vif workaround does not Discover/Offer correct transaction
3493	unassigned	DHCP	DHCP server leases from the shared-network of an Ethernet's vif to the Ethernet's client
3564	minor	DHCP	dhcp-server still sends out an address even though exclude is configured
3582	minor	DHCP	dhcp-server allocates dhcp client incorrect IP Address through dhcp-relay server from remote subnet
3638	enhancement	DHCP	ENHANCEMENT REQUEST: Option to NOT Accept Duplicate DHCP Failover Names
3699	unassigned	DHCP	DHCP-server node 'authoritative' under 'subnet' should be moved under 'shared-network-name'
3715	unassigned	DHCP	DHCP server should be allowed to declare static-mappings without having to configure a start-stop range
3793	minor	DHCP	Unable to configure static map within dhcp lease range
3800	enhancement	DHCP	Automatically exclude address from DHCP lease range when it is configured as a static map
3803	minor	DHCP	Unable to configure DHCP if DHCP lease subnet is configured on a non-Ethernet interface
3991	major	DHCP	Unable to configure DHCP server on a multi-netted interface
Documentation			
3595	minor	Documentation	Documentation request: Create example configuration using multiple shared-network names

3690	minor	Documentation	Document "protocols bgp <asn> neighbor <id> password." The "protocols bgp <asn> neighbor <id> password" command is missing from the Vyatta documentation.
DSL			
2663	enhancement	DSL	Add drivers to wanpipe for support of Sangoma DSL and Serial cards
3517	unassigned	DSL	CLI/DSL: Operator cannot run "show interfaces adsl <> status"
Dynamic DNS			
3586	unassigned	Dynamic DNS	Enhancement Request: Support Dynamic DNS Client
4022	unassigned	Dynamic DNS	Dynamic DNS config fails during system boot if interface does not exist
Firewall			
2224	enhancement	Firewall	Add the ability to configure anti- "brute force attack" rules in the Vyatta firewall
Installer			
3073	enhancement	Installer	Request to include support for CCISS created devices in the install script
3432	minor	Installer	"Undefined video mode number: 314" on the screen before "Uncompressing Linux" while an installed system is booting
3647	unassigned	Installer	install-system echoes root and admin passwords as they are entered
3648	major	Installer	install-system does not have password confirmation
3703	major	Installer	Installation from ISO doesn't add grub menu item to boot diagnostics
3712	minor	Installer	Two programs named grub-setup
3726	minor	Installer	Cannot install to USB from installed system
3738	unassigned	Installer	install-system allows installation onto a degraded RAID group
3775	minor	Installer	Allow RAID-1 configuration on systems with mismatched disk sizes
Interfaces			
2632	enhancement	Interfaces	Serial: T1/ E1 Need loopback and other troubleshooting commands

2666	enhancement	Interfaces	Support for the Sangoma Serial cards (V.35, X.21) should be added to the CLI
2836	minor	Interfaces	Replacing NIC makes the related ethX disappeared
3173	enhancement	Interfaces	bonding should be supported
3226	minor	Interfaces	Incorrect hw-id values should be handled more gracefully on boot
3377	minor	Interfaces	Update help strings for deletion of unknown address
3421	enhancement	Interfaces	Need CLI support for Sangoma A142 and A144 cards
3463	minor	Interfaces	"Can't enable link-detect, /proc/sys/net/ipv4/conf/wan0.1/link_detect" after ppp vif is created
3495	minor	Interfaces	Configuration allows invalid interface
3563	enhancement	Interfaces	Not all interfaces are displayed in the output of show interfaces
3576	enhancement	Interfaces	ENH: Add 'description' parameter for ADSL interfaces.
3679	major	Interfaces	WAN interfaces do not come up
3684	enhancement	Interfaces	ENH: Add RFC-1483 Bridged Ethernet support for ADSL interfaces
3691	trivial	Interfaces	Typo: PPPoA connect-on-demand help refers to PPPoE
3732	major	Interfaces	Routing engine cannot recognize MTU size change
3742	minor	Interfaces	Changing MTU on base Ethernet interface does not propagate to VIFs
3773	minor	Interfaces	Missing interfaces don't show up in running configuration
3825	major	Interfaces	Clear interfaces counters breaks show interfaces
3835	minor	Interfaces	set fail on setting 'address dhcp' for a bond interface
3894	minor	Interfaces	Loopback options not available A301-SH card
3959	unassigned	Interfaces	"ttyWP0: unknown flag" fills buffer when bringing up back-to-back DS3 cards
3978	critical	Interfaces	PPP fails to come back up after a failure when running Internet speed test over DS3
4004	critical	Interfaces	The Ethernet bonding interface is still up after all its member Ethernet interfaces are down
IPv6			
1939	unassigned	Ipv6	ipv6 address not accepted
3589	unassigned	Ipv6	IPV6 duplicate route in RIB

3696	unassigned	Ipv6	ipv6 address lost when bringing the interface down
Kernel			
3313	major	Kernel	TCP md5 option is not compatible with SACK
3569	major	Kernel	Kernel bug: soft lockup – CPU#1 stuck for 11s! [bond1:3795]
4066	major	Kernel	"rename" deletes all configured values
Load Balancing			
3332	enhancement	Load balancing	Allow wan load balancing to evenly forward traffic without NAT
3446	enhancement	Load balancing	WAN load balancing "protocol" configuration mirrors new NAT/FW config
3530	enhancement	Load balancing	Enhancement: Make inbound-interface and interface-health nexthop required fields for wan load-balancing
3608	minor	Load balancing	Operator level user cannot view load balance status
3620	enhancement	Load balancing	Implement "exclude" rules for wan load balancing
3639	enhancement	Load balancing	Enhancement: Add support for failover mode
3710	unassigned	Load balancing	Wrong mangle jump target for multiple WLB rule set
3817	minor	Load balancing	'show wan-load-balance connection' returns "permission denied" to all non-root users
3843	enhancement	Load balancing	Send a message to syslog when a wan load-balancing link state transition occurs
3848	enhancement	Load balancing	Add the ability to place user defined source NAT rules into the WANLOADBALANCE NAT chain
Logging			
3089	minor	Logging	"set service syslog host <txt>" commits but does not function without required child node "facility"
3566	minor	Logging	Debug messages are not logged by default on upgraded system
NAT			
522	enhancement	NAT	Feature Request: add "show nat translations" command to list active NAT translations
3622	enhancement	NAT	Allow the ability to enter NAT rules that are read after the wan load balancing NAT chain

3636	minor	NAT	"show nat statistics" always returns 1 under "packets" and the first packet size under "bytes"
3717	minor	NAT	documented interface restrictions for NAT rules are not enforced
NTP			
2313	minor	NTP	Time computed incorrectly
OSPF			
3550	minor	OSPF	Setting kernel redistribution metric generates internal error
Packaging			
1649	enhancement	Packaging	Add a "Package Update Complete" echo at the end of the 'update package' command output
1881	major	Packaging	"update package" does not work in CLI
1884	enhancement	Packaging	Need package facility to upgrade to a specific "release"
2420	unassigned	Packaging	Lighttpd is getting installed with generic files from the stock Debian package that sometimes cause the default placeholder page to be displayed
3565	trivial	Packaging	%operator entry appears multiple times in sudoers file
3573	minor	Packaging	Package upgrade automatically deletes all extra packages without prompting the user
3618	enhancement	Packaging	ENH: PACKAGING: full-upgrade should pass the CLI arguments and options to the latest full-upgrade
3619	unassigned	Packaging	PACKAGING: full-upgrade from 3.0.6 displays <fopen: Permission denied> error for man-db package
PPP			
3350	major	PPP	MLPPP cannot establish a connection using authentication "none".
4071	minor	PPP	PPP interface is not renamed to create multilink interface ml*
PPPoE			
3388	unassigned	PPPoE	PPPOE interface resetting repeatedly
3492	minor	PPPoE	PPPoX/CLI: connect interface <>, disconnect interface <>, clear interfaces connection <> do not work as Operator

QoS			
2917	minor	QoS	QoS: show interface operational command output does not correspond to configuration
2918	enhancement	QoS	"show class" and "show policy" are not implemented
3458	major	QoS	Internal errors while set some qos-policy under an interface
3642	enhancement	QoS	Add support for pure FIFO
3976	major	QoS	Description field on match causes problems
RAID			
3928	major	RAID	yatta-raid-event script not installed
RIB			
3428	minor	RIB	DHCP routes not managed by quagga
Serial			
1427	minor	Serial	sangoma 961: E3 doesn't work
3454	minor	Serial	CLI/SERIAL: Possible configuration errors when configuring E1 and latest Sangoma driver
3893	critical	Serial	Juniper M5 receives no frames from A301
3956	unassigned	Serial	Package upgrade of wanpipe does not get completely installed if a second kernel is also installed
3979	major	Serial	MLPPP does not pass traffic when connected to a Cisco 12.0 access device
SNMP			
1413	major	SNMP	SNMP walk of system fails with BGP configured
3162	major	SNMP	SNMP dies with segmentation fault shortly after starting
3791	critical	SNMP	SNMP Enterprise ID and sysDesc needed for auto-detection in ZipTie
Static			
3989	critical	Static	Static route via multilink interface does not get reinstalled on link up event
System			
250	enhancement	System	Feature Request: user command logging
1292	enhancement	System	Vyatta logo on installed system boot

1587	major	System	Unable to install from bootable USB drive to other physical drive on system
1657	enhancement	System	Turn on SW RAID in linux
1725	enhancement	System	Add output of "fdisk -l" for each mounted disk to the output of "show tech-support"
2149	enhancement	System	Add proxy arp as a configurable option
2367	enhancement	System	Include a kernel header file package for the current kernel
2603	unassigned	System	SSHD: sshd not always restarted upon reboot.
2694	enhancement	System	ENH: Add scheduled/delayed reboots to CLI
2860	enhancement	System	Implement DNS relay/forwarding
2881	minor	System	"show tech-support" should limit the output of "show ip route"
3143	minor	System	Unable to save or load config from remote server
3225	major	System	sudoers file contents are duplicated instead of replaced in a package upgrade
3259	enhancement	System	Login prompt immediately rejects non existent usernames for telnet and SSH
3277	enhancement	System	ENH: Options to manage priorities for multiple apt sources
3280	minor	System	ENH: Exclude plaintext-password values from bash history
3293	minor	System	Mount errors on boot
3333	minor	System	SERIAL: "show tech-support" as operator mode does not allow display of serial debug information.
3395	major	System	Via system fails to boot with external USB CD drive
3467	major	System	Operator level user cannot save tech-support file
3518	minor	System	No boot prompt on serial console after upgrade
3519	minor	System	GRUB Menu: Root password reset to factory not resetting the password to default
3554	major	System	delete system login user causes kernel panic and rebooting
3567	major	System	setting global syslog level may mess up /etc/syslog.conf
3609	minor	System	"show tech-support" does not display open file information for operator level user
3660	unassigned	System	name servers are sorted in resolv.conf

3663	major	System	Grub-pc won't boot from RAID-1 group after failure of first member
3725	minor	System	CLI should limit T1 time-slot range to 1-24
3730	minor	System	The term "OFR" needs to disappear from the system
3751	unassigned	System	configuring multiple global syslog facilities overwrites previous ones in /etc/syslog.conf
3841	major	System	Admin level users can't run RAID-1 op mode commands
3873	minor	System	ssh v1 host key being regenerated on every boot
3935	blocker	System	full-upgrade allows upgrade to proceed without enough disk space
VPN			
1348	enhancement	VPN	Add support for OpenVPN client/server
2070	unassigned	VPN	With VPN configured over serial interfaces, routes for remote subnet are missing in FIB while VPN tunnel is up
2585	minor	VPN	'delete vpn ipsec' returns errors on commit
3624	major	VPN	Unable to connect to remote VPN using non-NATed Windows XP client
3685	minor	VPN	Openvpn: "client-connect" script fails in latest Debian/Lenny version of Openvpn
Webproxy			
3946	minor	Webproxy	Cannot configure webproxy to listen to an address on a VLAN/vif interface

Known Issues

Bug ID	Component	Description
BGP		
3436	BGP	<p>BGP process terminates when BGP is deconfigured.</p> <p>If the "protocols bgp" configuration is deleted after being successfully configured, not all routes are removed from the BGP routing table and the forwarding table.</p> <p>Recommended action: Before deleting the "protocols bgp" configuration node, delete all BGP neighbors using the "delete protocols bgp neighbor" command and commit the deletion. Then delete the "protocols bgp" configuration node.</p>

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, it 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 daemons.</p>
3877	Cluster	<p>Cluster configuration does not load if cluster communication interface is down on boot</p> <p>If the cluster communication interface is down while a cluster node is booting, the cluster portion of the configuration will not load and an error is generated on boot:</p> <p>"Commit failed at rank 0"</p> <p>If the cluster communication interface is restored after the system boots, clustering cannot be started because the configuration did not load. If the configuration is saved after booting, the cluster configuration will be deleted.</p> <p>Recommended action: None</p>
DHCP		
3606	DHCP	<p>The same route entered from multiple places will be removed if the route is removed from one place</p> <p>For example, on release of a DHCP lease the dhcp client removes routes received by dhcp-server. It should only remove routes that only it added.</p> <p>Recommended action: None</p>

GUI		
4087	GUI	<p>Table sort order</p> <p>Table values, such as those for NTP servers, may not be sorted in the same order in the displayed configuration as in the CLI.</p> <p>Recommended action: None</p>
4091	GUI	<p>Cannot set time zone</p> <p>The system time zone cannot currently be set from the GUI.</p> <p>Recommended action: Use the CLI ("set system time-zone" command) to set the time zone.</p>
4142	GUI	<p>Unable to view disk format</p> <p>Disk format information cannot currently be obtained using the GUI.</p> <p>Recommended action: Use the CLI ("show disk <value> format" command) to obtain disk format information.</p>
4145	GUI	<p>"Stop" button may be ineffective</p> <p>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.</p> <p>Recommended action: Should this occur, click "Stop", then "Run" to restart the command followed by "Stop" to cancel the command.</p>
Installer		
4139	Installer	<p>Install-system minimum partition size requirement should be increased</p> <p>Previously the minimum root partition size was 450MB. This has been changed to 1000MB. Messages still need to be added warning users that installs onto partitions smaller than 2000MB may not have enough space to perform a package upgrade.</p> <p>Recommended action: None</p>
Interfaces		
3221	Interfaces	<p>DSL: "pvc auto" does not properly detect PVC.</p> <p>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.</p> <p>Recommended action: Specify DSL PVCs manually. Use auto-detection only if you do not know the VPI/VCI numbers used by your carrier.</p>
4045	Interfaces	<p>Deleting a bonding interface before removing constituent links from Ethernet bond groups causes problems.</p> <p>Recommended action: Remove constituent links before removing a Ethernet link bonding interface.</p>
4061	Interfaces	<p>Disconnected interface responds to pings</p> <p>When an interface is down it should not respond to pings but this is currently not the case.</p> <p>Recommended action: None</p>

4085	Interfaces	<p>Bonding vif does not work on reboot</p> <p>If you configure a vif on an ethernet link bonding interface the interfaces are created (e.g. bond0.10) and function properly. Once the system is rebooted any configured vif interface on a bonding interface (bond0) is not created during the boot process. The bond0 interface is available but the bond0.10 interface is not.</p> <p>Recommended action: None</p>
NAT		
1445	NAT	<p>The "service nat protocol" option should have a selection for TCP and UDP w/o 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 G703 connection doesn't work.</p> <p>Unframed E1 is WORKS correctly on the following cards: A102SH A104SH with Maxim framer</p> <p>Unframed E1 DOES NOT WORK correctly on the following cards: A102SH with PMC framer</p> <p>Recommended action: None.</p>
3705	Serial	<p>Systems with wanpipe hardware lock up when connected to Cisco MFT T1 interface card configured with ESF/B8ZS and no timeslots. System performance is degraded due to high interrupt processing as the Sangoma card tries to find the timeslots on the T1. Lockup does not occur with Cisco non-MFT T1 interface cards. A mismatched timeslots configuration may also result in lockup.</p> <p>Recommended action: Completely configure the link on both sides. A matching timeslot configuration on both sides of the link is required to avoid excessive interrupts. In addition to the ideal solution, workarounds include: unplugging the interface, configuring the Cisco side (timeslots and speed) to match the Vyatta side, and using the "wanrouter stop wanX" command.</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>
3983	Serial	<p>The "ppp" sub-command to the "show interfaces serial" command produces inadequate information for troubleshooting PPP connections.</p> <p>Recommended action: To determine the status of PPP negotiation on a serial interface, first enable "logging" on the PPP interface, then increase the syslog level to "debug". After doing that, the status of PPP negotiation can be determined from the messages logged by the PPP daemon to the /var/log/messages file.</p>
System		
2682	System	<p>selinuxfs mount failure</p> <p>During system boot a message appears indicating a problem mounting selinuxfs on /selinux.</p> <p>Recommended action: None</p>
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>The "set system syslog console" command now requires a mandatory facility option.</p> <p>If a user previously has configured "set system syslog console" without a facility option, the commands after the "set system syslog console" command in the config.boot file will fail to load.</p> <p>Configuration migration does not migrate the command "set system syslog console" to "set system syslog console facility all".</p> <p>Recommended action: If the "set system syslog console" command is configured, prior to upgrade configure, commit, and save the command:</p> <p style="text-align: center;">set system syslog console facility all</p> <p>The above command restores default facility of the syslog command as seen pre-5.0.1 for the console method.</p>
VPN		
2387	VPN	<p>VPN will not start if an unconfigured interface is specified.</p> <p>VPN will not start if an interface without a configured IP address is specified. The system should check to ensure that an interface is configured for the before the commit should succeed.</p> <p>Recommended action: Before specifying an interface in VPN configuration, ensure the interface is configured with an IP address.</p>
2388	VPN	<p>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>

3909	VPN	<p>The openvpn static interface route being set fails when the configuration is loaded or the system is booted</p> <p>This is a timing issue, i.e., the interface takes time to come up, and the route is configured before the interface comes up.</p> <p>Recommended action: To work around this issue either reload the configuration file after the system is booted or use a static route that points to the second IP address in the subnet used by the tunnel instead of using an interface route. In that case the route will be configured and marked inactive until the tunnel comes up.</p>
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