

VYATTA, INC. | **Release Notes**

## Vyatta Community 4.0.2

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## Security

There are no security announcements in this release.

## New in This Release

- **New command shell.** Release VC4.0.2 introduces a redesigned command shell for the Vyatta system: the FusionCLI™ management interface. The FusionCLI management interface is based on the Bash command shell but integrates network-specific commands and a configuration mode. The resulting management interface has a look and feel similar to the previous Vyatta CLI, but also provides direct access to Linux commands at the CLI prompt. The FusionCLI management interface introduces some differences past Vyatta CLI behavior and user experience; please see the “Behavior Changes” section for details.
- **Redesign of routing protocol support.** Routing protocols and routing policy support has been completely redesigned in VC4.0.2. The following routing components have been re-implemented:
  - BGP
  - RIP
  - OSPF
  - Routing policies, including support for access lists, community lists, AS path lists, prefix lists, and route maps

The new implementation offers greatly improved stability and performance, along with a large increase in the number of commands and options available.

- **Role-based user access.** In Release VC4.0.2, there are three distinct user roles supported:
  - There is one user who has a role of “root”: the root user. The root user has full access to all Vyatta commands plus all Linux commands in the FusionCLI. Access to Linux commands is direct: the root user need not exit another shell or mode before executing Linux commands. Command completion and CLI help show all commands and files, including Linux commands and files.
  - Users assigned a role of “admin” have full access to all Vyatta-specific commands plus all Linux commands in the FusionCLI. Access to Linux commands is direct: the user need not exit another shell or mode before executing Linux commands. A user with a role of “admin” user has a more streamlined view of the system than the root user does: although “admin” users can execute any command implemented in the system, command completion and CLI help show only Vyatta commands. Note that “admin” users can execute commands as root user through the use of the “sudo” command.
  - Users assigned a role of “operator” have access to operational commands in the FusionCLI. They do not have access to configuration commands, or to Linux commands. However, some operational commands (for example, setting the system date, rebooting the system, displaying firewall rules, and so on) may impact system operation. For this reason, it is not advisable to give “operator” access to untrusted users.

Non-root users can be assigned a role using the “set system login user *username* level” command.

- **DHCP client capability.** This release introduces DHCP client capability. You can configure an interface to obtain its address from a DHCP server by setting the address to “dhcp” instead of to an actual IP address.
- **Ability to configure a black-hole address for static routes.** In this release, you can configure a “black-hole” address for interface routes. Traffic sent to a black-hole address is discarded. To specify a black-hole address, use the “set protocols static interface-route *ipv4net* blackhole distance *1-255*” command.
- **Equal-cost multi-path routing.** The Vyatta system now supports equal-cost multi-path routing (ECMP). When multiple “best paths” of equal cost exist in the routing table, the system will load balance traffic among the paths. There are no CLI changes associated with this feature; however, equal-cost paths in the routing cache and the forwarding table can be viewed using the “show ip route cache” and “show ip route forward” commands, respectively.
- **Remote access VPN.** The Vyatta system’s VPN support has been extended to allow remote users to establish a VPN tunnel with a Vyatta system acting as the VPN server. This allows, for example, a user working from home to connect to the private corporate network across the WAN. Both PPTP and L2TP/IPsec

VPN tunnels are supported. L2TP/IPsec VPN tunnels can be authenticated using either pre-shared key or X.509 certificates.

- **Tunnel interfaces.** The Vyatta system now supports tunnel interfaces, which are logical interfaces supporting IP tunneling protocols. IP tunneling protocols provide a mechanism for encapsulating packets from one network protocol into a packet from another protocol, creating a “tunnel.” Vyatta tunnel interfaces support Generic Routing Encapsulation (GRE) tunnels (which can be used to carry non-IP protocols such as Novell IPX, Banyan VINES, AppleTalk, and DECNet, or to carry multicast, broadcast, or IPv6 traffic) and IP-in-IP tunnels (which can be used to carry IPv4 packets across IP networks with differing network capabilities).
- **PPPoE support.** This release introduces support for Point-to-Point Protocol over Ethernet (PPPoE). PPPoE encapsulates Point-to-Point Protocol (PPP) frames inside Ethernet frames. This provides the circuit-based connections and security features available with PPP to be used in Ethernet environments, commonly for use with DSL networks.
- **WAN load balancing.** The Vyatta system now supports automatic load balancing for outbound traffic across two or more WAN-facing interfaces. When WAN load balancing is enabled on interfaces, load balancing will automatically be performed across those interfaces. You can also determine which traffic egresses a specific interface and you can weight interfaces differently to reflect different link performance or administrative policies.
- **Quality of Service.** In this release, Quality of Service (QoS) policies can be defined to allow congestion management and traffic conditioning. Two QoS mechanisms are introduced in the current release:
  - Fair queuing, which uses the Stochastic Fair Queuing algorithm aiming to provide per-flow-based fair access to network resources and prevent any one flow from consuming an inordinate amount of output port bandwidth
  - Traffic shaping, which uses traffic classification and packet marking to provide class-based levels of service.
- **Ability to clear interface statistics.** A number of “clear interface” commands have been added to clear statistics from interfaces, including Ethernet interfaces, bridge interfaces, multi-link interfaces, tunnel interfaces, and serial interfaces.

## Behavior Changes

Release VC4.0.2 includes the following behavior changes:

- The mechanisms for command completion and for obtaining CLI help have changed.

- Pressing <Tab> generates auto-completion. If the entry is unambiguous, the system generates the next token in the syntax. If more than one completion is possible, the system displays the set of next possible tokens. (Note that the space following a command or keyword counts as a token.)
- Pressing <Tab> a second time generates CLI help for the current set of tokens.
- Pressing the question mark key (“?”) also generates command completion. To enter a literal question mark, first enter <Ctrl>+v, then the question mark.
- The web GUI interface is not supported in this release.
- Multicast routing is not supported. Previous releases included experimental support for IGMP and PIM-SM. Multicast routing support will be restored in a future (post-Glendale) release.
- Interface addressing has changed from previous releases. Previously, IP addresses were configured using an “address *A.B.C.D* prefix *NN*” format. Beginning with this release, IP addresses are configured using the format “address *A.B.C.D/NN*”, where *A.B.C.D* is the IP address and *NN* is the network prefix length.
- The default for “show interfaces” operational commands is now “brief” mode when the command could show multiple interfaces.
- The configuration partition for hard disk installations is no longer created. The system is now installed into a single hard disk partition.
- The “rtrmgr” configuration node has been obsoleted. With the removal of the “rtrmgr” configuration node, the ability to modify the default location for saving configuration files is also removed.
- The configuration structure for firewall and NAT has been simplified.

## Upgrade Notes

There is no package upgrade from previous releases to Release VC4.0.2. Automatic migration of existing configurations to Release VC4.0.2 is not supported. Users must recreate equivalent configuration manually.

Before upgrading to Release VC4.0.2, save your existing configuration file for reference. Your configuration file is named “config.boot”, and is located in the directory “/opt/vyatta/etc/config”.

## Resolved Issues

Bug ID	Severity	Component	Description
122	enhancement	Static	XORP 165: STATIC_ROUTES don't support "floating static routes"
129	minor	CLI	XORP 169: Overlapping IP addresses
149	major	VRRP	UNH IOL VRRP test 3.2b test failure
164	major	CLI	XORP 196: "disabled" interfaces are not clearly identified
233	enhancement	System	Feature Request: Add load balancing (ECMP)
234	enhancement	CLI	Feature Request: ssh & telnet client not available in xorpsh
238	minor	CLI	XORP 230: CLI allows creation of more interfaces than the
252	enhancement	DHCP	Feature Request: Allow DHCP configured interface IP address
297	major	CLI	ping command - ping timeouts (failed pings) not reported
323	major	RIP	XORP 265: RIP does not support summarization (TC 3.2.2.11.1)
326	major	RIP	XORP 262: Change Request: add "show rip database" command
354	major	BGP	XORP 341: default BGP TTL is > 1 (TC 3.2.4.1.17)
400	major	BGP	When interface is disabled, router shows as VRRP master
412	major	Policy	XORP 310: policy statement output for "neighbor"
439	critical	RIP	XORP 345: after export policy is deleted RIP continues to announce routes with metric 16 (TC 3.2.2.9.12)
460	enhancement	BGP	XORP 362: Feature Request: "show bgp route policy < policy-name>" command
527	enhancement	OSPF	Feature Request: add "show ospf interface" command
530	major	OSPF	show ospf route
541	major	RIP	XORP 385: "show rip peer" command does not work
566	enhancement	OSPF	XORP 372: Random LSA refresh timers
615	major	OSPF	XORP 434: Feature Request: add OSPF origin types to "show route" command

635	enhancement	VRRP	Feature Request: allow multiple VRRP groups to be configured on interface
641	major	Firewall	FW - firewall accepts illegal ICMP types and codes
663	major	System	XORP 437: Feature Request: graceful restart for router manager
681	major	RIB	XORP 465: Enabling RIP on interface does not result in network announcements
713	minor	CLI	XORP 603: Help may incorrectly indicate commands as executable
716	critical	CLI	Disconnected interface responds to icmp requests
722	major	CLI	Update help strings for "show route" command
728	enhancement	Logging	Feature Request: show log tail
745	major	CLI	Inconsistent display of user plaintext passwords
776	major	Interfaces	need "clear interface" command to clear counters
780	major	OSPF	XORP 493: OSPF - router sending duplicate LS updates
781	major	OSPF	XORP 494: OSPF - LSAs are sent individually rather than grouped in a single LS update
786	enhancement	BGP	XORP 326: BGP - add BGP group functionality
804	major	VRRP	VRRP - add "show vrrp interface <interface> group <group>" command
818	major	Bridging	Bridging - help edits needed for "create system bridging" command
819	major	Bridging	Bridging - committing both bridge group and applying to interface fails
821	unavailable	OSPF	XORP 512: OSPF does not properly announce summary-LSA with same base network
893	major	Interfaces	Arp confusion. vyatta sees ip addresses on two interfaces
914	major	Interfaces	XORP 561: Addresses added to interface when disable=true
916	enhancement	CLI	Add ability to run arbitrary shell commands from xorps
921	critical	Policy	XORP 567: policy tag per route is not reset in case the policies are removed
931	major	CLI	cannot delete "system gateway-address" and add static default route in single commit
943	enhancement	Interfaces	add "show interfaces <type>" commands

953	major	Interfaces	vif value is text, should be integer
957	minor	CLI	Update help syntax for "show route protocol"
965	enhancement	System	Feature Request: Remote Access IPsec VPN
997	major	CLI	XORP 599: simultaneous commit on same nodes hangs one xorpsh session
1013	major	Interfaces	VLAN: Standardize on error returned for Illegal VLAN values
1017	minor	CLI	XORP: incorrect help for set configuration commands
1021	major	OSPF	XORP 605: OSPF - create "default-lsa" node for area-type stub and nssa
1051	major	CLI	Help for creating vif should be changed to reflect vlan range
1095	enhancement	Interfaces	Enhancement Request: "Show interface brief" command
1120	minor	CLI	Configuration changes should not be broadcast to all users
1123	major	CLI	XORP 626: Pipe ignores invalid / unsupported commands
1156	major	CLI	Logged error messages on successful commits
1224	enhancement	Interfaces	Feature Request: update 'show interface' vif handling
1258	critical	CLI	"show log" results in sluggish response and xorpsh death
1270	critical	OSPF	OSPF - saved OSPF configurations with serial interfaces cause rtrmgr to fail
1312	enhancement	VRRP	setting mac address / vrrp master conflict
1314	minor	CLI	"More" prompt not provided on first page of piped commands
1384	minor	System	Memory leak in router manager
1415	major	SNMP	Excessive CPU use by SNMP agent
1418	major	System	can only log in as root: terminal type not correctly set.
1433	minor	System	Reboot command may not take effect
1451	enhancement	BGP	Add support for 32 bit AS Numbers
1474	enhancement	Policy	XORP 674: Enhance policy network-lists to include prefix length modifiers
1495	enhancement	BGP	Policy: Need ability to strip private ASNs
1501	minor	CLI	Default config directory should be created on configuration



1504	minor	Interfaces	Mac address does not revert to original address on interface node removal
1506	minor	System	Invalid error message when saving configuration
1512	trivial	BGP	BGP - add help to 'damping' commands
1513	minor	BGP	BGP - peer-port and local-port accept invalid values
1514	minor	BGP	BGP - value for 'damping half-life' only enforces range on initial set
1515	minor	BGP	BGP - delay-open-time accepts invalid values
1516	minor	OSPF	OSPF - add better error message for 'area-type' commit failure
1517	minor	OSPF	OSPF - commit error if 'transit-delay' is set to 0
1521	major	CLI	Receive "Finder disconnected. No Finder?" error when deleting an IPv6 ethernet interface
1523	minor	CLI	Receive XRL error when changing vif address IPv6 point-to-point
1524	minor	CLI	Receive XRL error when attempting to disable vif address IPv6 node
1527	minor	BGP	BGP - commit error on "peer <X> client true" if non-standard ports used
1550	minor	Policy	POLICY: Able to enter invalid BGP Community value in Community-list
1554	major	OSPF	OSPF is not interoperable with MD5 authentication configured
1562	major	OSPF	OSPF doesn't detect interface IP changes
1571	critical	CLI	Show route displays inconsistent output
1592	enhancement	System	Password Recovery Process
1602	critical	RIB	Routes appear in xorpsd, but not in netstat
1614	unavailable	Interfaces	Incompatibility with Routerboard 44 Quad Port FE NIC
1616	enhancement	System	Feature Request: Add eject command to the distribution.
1625	enhancement	CLI	Please print the phrase "End of show tech-support output" after the last line of the "show tech-support" output
1626	enhancement	CLI	Please add cat of the config.boot file to the "show tech-support" output
1669	unavailable	VPN	VPN: "show route" inconsistent with "show route system forward"

1691	enhancement	System	Please add the "less" command to the Vyatta distro for use with the Linux command line.
1762	enhancement	Interfaces	ARP Cache Enhancement: "clear arp address" does not work for PERM entries
1769	enhancement	BGP	Add a "show bgp advertised routes" per peer command to the CLI
1792	enhancement	BGP	"show bgp routes" should indicate if the prefix has been filtered
1793	major	OSPF	XORP 566: OSPF passive interfaces always have /32 netmask
1804	unavailable	BGP	BGP crash - unknown cause (merged XORP build)
1809	critical	BGP	BGP Process Termination with Assert "/xorp/bgp/subnet_route.hh bump_refcount ] Assertion (refs > 0) failed"
1810	enhancement	BGP	Enhancement Request: Add the ability to perform a BGP "soft-reset"
1812	enhancement	CLI	Update help to include syslog severity numbers (rankings)
1823	minor	BGP	BGP peer-port option seems to be ignored
1828	unavailable	CLI	xorpsh --version should display the package version for xorp
1831	unavailable	BGP	BGP "dump_entire_table" warning message generated on boot
1857	enhancement	Policy	Implement a "neighbor-list" policy object to specify multiple neighbors within a single term
1869	unavailable	BGP	BGP process terminates if eBGP ASNs are misconfigured
1880	unavailable	CLI	xorpsh coredumps upon quit command read from file
1895	unavailable	System	xorp_fea process consumes too much CPU
1900	unavailable	BGP	BGP crashes peer after manual flap from Juniper or Vyatta
1903	minor	Build System	copyright information needs to be in /usr/share/doc
1904	major	Interfaces	Unable to add interface to bridge-group
1920	enhancement	BGP	BGP does not support extended community attribute
1924	unavailable	Policy	Policy/BGP: The result should be unmatched if unmatched and matched elements exist concurrently in a community-list
1929	unavailable	CLI	Xorp ERROR message is logged on startup
1931	major	OSPF	OSPF improperly sets IP TOS bits

1933	unavailable	Interfaces	discard interface and discard route not working
1938	major	CLI	No way to specify certain apt-get repository configurations
1946	unavailable	CLI	Policy: "set policy policy-statement E0 term 1 from network4 ?" returned insufficient information
1948	unavailable	CLI	Policy: "set policy policy-statement E0 term 1 from network4 == 10.0.0.0/8 ?" returned wrong information
1953	trivial	Policy	Policy/BGP: The default action for matched routes is accept
1958	trivial	OSPF	Adding 'brief' Output Modifier to 'show ospf4 database' Does not Modify Output
1961	unavailable	BGP	FATAL xorp_bgp: unreachable code reached
2006	enhancement	Policy	Policy: if there is no "from protocol WHATEVER" in a term, then "from protocol WHATEVER" is set as the default there and the WHATEVER is set as the protocol calls the policy.
2017	enhancement	Policy	Policy/BGP: To implement redistribution through import policy
2023	enhancement	Policy	Policy: inconsistent policy object syntax
2027	critical	OSPF	OSPF routes are not removed with area is removed
2044	unavailable	System	Interface routes are not removed from down interfaces
2067	major	NAT	Provide the Ability to Exclude VPN Tunnel Packets from Masquerade Rules
2072	unavailable	BGP	add no-enforce-first-as functionality to bgp
2083	major	System	Radius PAM authentication module is broken
2108	minor	System	Config partition can't be seen during 'install-system' when it was created using fdisk
2112	unavailable	BGP	BGP: setting/committing bgp confederation identifier without enabling peer confederation member made bgp process crashed.
2113	minor	System	"domain-search" does not provide additional domains for name lookup
2125	critical	System	Cannot boot from ComputerLINK installed to system
2132	critical	OSPF	Policy for redistributing RIP routes into OSPF fails with a "commit" error and terminates policy process
2140	trivial	RIB	127.0.0.0/8 is displayed as a connected route to interface lo in 'show route' output

2141	minor	Static	Changing static route next-hop value to an unreachable address results in original route "sticking" and its deletion failing
2150	unavailable	Interfaces	FE 100 Interface: Driver not supported with 8139 NIC chipset in v500 system
2158	minor	System	No boot times in "show version" output
2164	unavailable	Policy	Policy: "aggregate-brief-mode" == false does not set ASPath
2165	unavailable	Policy	Policy: "prefix-list" should be renamed to "prefix4-list"
2167	unavailable	Policy	Policy/BGP: community-list should support regex
2170	enhancement	RIB	XORPSH: recursive routing does not work in xorpsH.
2172	unavailable	CLI	variable referencing not consistent
2173	unavailable	CLI	Too Many Escapes!
2184	enhancement	VRRP	VRRP: Allow multiple instances of 'virtual-address' per interface for running VRRP on multinetted interfaces
2189	unavailable	CLI	Need ability to configure NIC interrupt processor affinity
2195	minor	Interfaces	FEA process dies when removing and adding vif interface
2200	minor	CLI	show version does not report testing version number
2201	unavailable	BGP	BGP Crash after iBGP peer enabled
2211	unavailable	CLI	[new cli] "commit:expression:" action (for syntax checking) is not implemented yet
2234	major	BGP	VMware: In the operational mode "bgp" option disappears even though it shows as configured in configuration mode
2241	critical	RIP	RIP termination in passive mode
2242	minor	RIP	Default route not accepted when configured
2248	minor	RIP	Only one authentication type should exist in configuration
2251	major	RIP	Deleting simple password does not take affect

2256	major	System	Vyatta CLI defined domain search order not retained in etc/resolv.conf
2257	major	System	Some system files are not cleaned up when the config is defaulted or config is committed but not saved and the box rebooted
2265	unavailable	System	Operate reliably using compact flash as mass storage device
2273	unavailable	CLI	type error reporting returns help string
2281	unavailable	BGP	BGP: There was NO withdraw for route-reflector client's route being sent to nonclient peer(s) after the client was changed from true to false.
2296	unassigned	Interfaces	changing mac address works until reboot
2298	major	OSPF	OSPF termination with prefix area change
2299	unavailable	Policy	Policy: Setting or changing an export policy a term "then action reject" and then committing did NOT reject routes as expected.
2317	unavailable	System	Operate reliably with limited disk space
2321	unavailable	CLI	Enhancement: Add MTU/MRU to serial link layer
2332	blocker	RIB	RIB/PPP: Configured subnet mask value is ignored on PPP and MLPPP connections - -connected routes are always set as a /32
2333	unavailable	RIP	RIP: there was no RIP packet being sent through the up serial interface/subinterface being configured with IP address and frame-relay encapsulation.
2342	minor	VRRP	Interface VRRP configuration must be removed prior to removing vif
2347	unavailable	BGP	BGP: The eBGP routes, from Cisco and/or Juniper routers, without MED or with any number as the value of MED, were sent to eBGP peers with 1 as the value of MED, while there was no policy under BGP.
2367	enhancement	System	Include a kernel header file package for the current kernel
2369	major	VRRP	Gratuitous ARPs not sent on VRRP interfaces
2370	major	VRRP	VRRP 'flaps' between master/backup when transitioning between machines.
2371	unavailable	CLI	Multilink interface counters do not increment as packets traverse the interface.
2377	unavailable	Static	Static: "next-hop-vif" for interface-route is NOT implemented
2380	major	CLI	CLI / PPPD: Show logging command to view the pppd log files.

2384	unavailable	VRRP	deleting interface doesn't remove vrrp process
2389	minor	VPN	VPN help issues
2392	unassigned	BGP	BGP: The BGP session is established even though the AS numbers were misconfigured
2394	minor	VRRP	VRRP Gratuitous ARP sent out incorrect VRRP group
2395	unassigned	BGP	"show bgp peers" doesn't show the correct state when router is configured as Route Reflector Server
2403	minor	DHCP	DHCP Relay cannot be configured to listen and send on vif interfaces
2404	minor	DHCP	DHCP Relay configuration should only require DHCP server address for a successful commit
2414	unavailable	System	Use serial port as console on systems without VGA
2417	major	Interfaces	On a multi-netted interface, ip address with the lowest values gets assigned as the primary interface address
2418	critical	DHCP	Need to expose dhcp-server-identifier option in CLI
2422	unassigned	VRRP	VRRP: Gratuitous ARP needs to be generated for Master->Backup->Master State Transitions
2427	unavailable	CLI	List syslog levels in order of decreasing severity
2437	unavailable	Interfaces	V500: xorpsh fails after running long throughput test
2439	enhancement	VRRP	VRRP Enhancement: Authentication mechanism using MD5 need to be supported
2441	unavailable	Kernel	Upgrade kernel to 2.6.23
2447	major	DHCP	Unable to configure DHCP server when subnet is associated with a VIF interface
2448	unavailable	Kernel	Can't re-build the kernel repository
2456	minor	OSPF	OSPF: Network 127.0.0.0 is advertised via OSPF when including the loopback interface in the OSPF area
2459	trivial	System	No command to set tty rows and columns from within the CLI
2466	unassigned	Interfaces	Cannot enable a "discard" interface on a VIF
2471	major	Kernel	kernel panic in unionfs triggered by config system
2473	unavailable	CLI	Impossible to specify a non 'eth#' interface in DHCP relay configuration
2481	critical	System	Interfaces occasionally come up in different order
2486	unavailable	BGP	"show ip bgp" caused SSH session out of resource response, while there were 500k prefixes

2489	unavailable	System	"date" was not changed up-to-date after the ntp-server was set and committed
2494	unavailable	Static	static route was gone away after reboot
2495	blocker	Static	Static route was not removed after the neighbor's next-hop interface was shut down.
2496	blocker	Static	static route was still "invalid" after the "disable" of the next-hop interface was deleted and committed.
2497	unavailable	Static	There is NO interface ip address overlap check
2498	unavailable	VRRP	vrrp configuration can NOT be committed
2499	unavailable	System	"Skip" the partition in the procedure of "install-system" did NOT backup the existed configuration file
2500	blocker	Interfaces	The connected route was NOT gone after its interface was down being caused by the shutdown of the interface on the other side
2504	major	RIB	RIB dies when a an iBGP route is chosen that is the same as an existing connected route
2514	major	System	NTP server is not started
2517	minor	VPN	vpn pre-shared key should allow non-alphanumeric characters
2519	minor	CLI	Operational commands display empty parameter
2523	minor	CLI	Internal error messages should not be returned in user error messages
2528	enhancement	FW	Firewall network and address configuration should be collapsed
2530	unavailable	NTP	NTP server not consistently started at boot time.
2532	critical	Interfaces	Connected routes are not removed from the system routing table when their associated interface goes down
2534	major	Interfaces	Change option "link-detect" to "disable-link-detect"
2536	enhancement	Logging	Enhancement: Suppress FATAL Wanpipe error message displayed in console boot messages
2540	minor	CLI	System errors returned with "load" command
2541	critical	CLI	commit failed after policy was deleted
2542	unavailable	Packaging	Spinner runs during install-system and overwrites user in input.
2544	minor	Build System	Glendale's Nightly-built Version Should be Changed to glendale (instead of eureka beta)



2545	enhancement	VPN	VPN: Enhancement request - Add support for GRE tunnels
2546	unavailable	CLI	Add "Welcome to Vyatta." into login messages.
2547	major	CLI	Clean up use of colons and quotes in config file format
2550	major	FW	clear firewall name Not implemented
2551	unavailable	CLI	Tab key generates error in configure mode.
2553	unavailable	FW	iptables messages show when firewall configuration is com...
2557	unavailable	Interfaces	need more information in show interface
2564	minor	Interfaces	hw-id values are not automatically added to existing interface nodes on boot
2569	unavailable	Kernel	Tickless and High-res timer support
2570	major	System	Errors in messages log: "netlink-listen recvmmsg overrun: No buffer space available"
2578	minor	System	System does not power off after shutdown
2587	enhancement	Interfaces	Add an Ethernet interface identify command to the Vyatta CLI
2592	unavailable	Packaging	Packaging/Serial: Installation of serial packages not completed
2599	enhancement	DHCP	CLI/DHCPd: Feature Request: Add ability to enable/disable the dhcpd server regardless of configuration state.
2634	enhancement	Interfaces	Serial: Need serial related show-techsupport
2646	enhancement	CLI	Pre-migrated config file should be clearly named as such
2733	major	System	Serial console does not show grub message or menu properly
2750	unavailable	BGP	bgp: large ASN shown as negative
2769	enhancement	Cluster	Clustering Service scripts should be allowed to be entered
2770	critical	Cluster	Default script used to add an IP as a cluster service needs to be changed to IPAddr2
2824	critical	Interfaces	VLAN (vif) creation fails at 'commit' - then session hangs on second attempt
2834	minor	Interfaces	a vif can't be set/committed after it's deleted
2914	major	QOS	Boot errors with saved QoS configuration
3027	minor	SNMP	Unable to configure SNMP community client address



## Known Issues

Bug ID	Description
1059	<p>Feature Request: integrate "tcpdump" and "tethereal" into Vyatta CLI. Currently, these commands must be run from the Linux shell.</p> <p>Recommended action: Using the FusionCLI, Administrative users can now execute all available Linux commands, including "tcpdump", "tethereal", and "tshark" from the same prompt.</p>
1445	<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 specify both TCP and UDP (but not ICMP), create two different NAT rules.</p>
2363	<p>Serial MTU defaults to 2064 for the physical serial interface on Sangoma A104-SH cards and cannot be changed via the CLI. If the physical interface MTU is configured for MTU using the "t1-options" configuration option, the MTU remains at 2064. MTU values set at the virtual interface level correctly take effect.</p> <p>Recommended action: The MTU for the physical interface can be changed using the operating system "ifconfig" utility, although after reboot the MTU value returns to 2064 unless the MTU change is added to the startup script.</p>
2387	<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	<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>
2501	<p>If an interface is disabled through configuration and then re-enabled, the following behaviors occur:</p> <ol style="list-style-type: none"> <li>1. Connected routes to the interface are not restored to the RIB but are restored to the FIB.</li> <li>2. The corresponding static route with the IP next-hop is not restored to the RIB or FIB.</li> <li>3. The corresponding static route with the interface next-hop is restored to both the RIB and the FIB.</li> </ol> <p>Recommended action: Save the configuration before disabling the interface. Then, after the interface has been disabled, re-enable the interface as follows:</p> <ol style="list-style-type: none"> <li>1. Delete the whole interface and commit the deletion.</li> <li>2. Load the saved configuration.</li> </ol>
2507	<p>Deleting a BGP leaf node (attribute statement) with its value fails with an error message that the configuration "is not valid."</p> <p>Recommended action: To delete a leaf node (attribute statement), delete the parent configuration node and recreate it.</p>

2654	<p>Non-privileged commands are shown to 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>
2708	<p>Static route stays "inactive" while its next hop is reachable. The "show ip route" command shows the route as inactive even after the next hop becomes available.</p> <p>Recommended action: None.</p>
2752	<p>"Unknown command" after "source any" was configured in the second rule of an access-list. The system generates an "unknown command" error in an error-free configuration subsequent to specifying "source any" in a policy access list rule. Note that the configuration commits successfully in spite of the error message.</p> <p>Recommended action: Avoid using the "source any" option. Instead, use "source network 0.0.0.0/0" or "source inverse-mask 255.255.255.255".</p>
2777	<p>Stray quote confuses CLI. This affects both operational and configuration mode.</p> <p>Recommended action: Avoid typing stray single quotes.</p>
2801	<p>Pre-existing protocol configuration files are not initialized. 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>
2943	<p>For the Sangoma A301 module, the "wan0" configuration disappears if "t3-option" is not set before the configuration is committed.</p> <p>Recommended action: Set the "t3-option" value before committing the configuration.</p>
2948	<p>Interface configurations using invalid interface names are incorrectly accepted and committed by the system. No error message displays, and the incorrect configuration does not cause any errors.</p> <p>Recommended action: Validate interface configuration before committing, and avoid specifying invalid interface names in a configuration.</p>