

VYATTA, INC. | **Release Notes**

Vyatta Release 6.4-2012.03.27

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Contents

These release notes document changes made for the Vyatta Release 6.4-2012.03.27. These release notes include the following sections:

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

Security

The following security vulnerabilities are addressed in this release:

- CVE-2012-0249– Quagga ospfd DoS on malformed LS-Update packet
 - Resolved in bug 7934
- CVE-2012-0250– Quagga ospfd DoS on malformed Network-LSA packet
 - Resolved in bug 7934
- CVE-2012-0255– Quagga bgpd DoS on malformed OPEN message
 - Resolved in bug 7935

In addition, Vyatta has updated multiple packages to address security vulnerabilities and improve general security.

New Features in This Release



The following features are available for Vyatta Subscription Edition.

- **GUI Dashboard and Statistics.** The Vyatta system web GUI now opens to a new Dashboard screen, which provides a snapshot of critical configuration and operation status. The new Statistics screen provides real-time visibility into operational statistics for selected system features. For information on how to enable the web GUI, please see the *Vyatta Quick Start Guide*.



The following features are available for Vyatta Subscription Edition and Vyatta Core.

- **Operational Mode enhancements and restructuring.** Operational mode has been restructured to enhance consistency and usability. As part of this feature, the syntax for a number of operational commands has been changed. Important changes are as follows:
 - **clear**– A number of **clear** commands were disruptive in nature while others were not. Now, all clear commands are nondisruptive; they clear statistics, counters, and so on.
 - **reset**– These commands are disruptive in nature, resetting connections or data (for example, clearing caches). The **clear** commands that were disruptive have been changed to use the “reset” verb.
 - **restart**– Commands that restart a service now use the **restart** verb. When a service is restarted, all connections are terminated and the service is unavailable while it restarts.
 - **monitor**– All commands that capture traffic or events now use the **monitor** verb. These include all former **debug**, **nodebug**, **undebug**, and **show interfaces ... capture** commands.
 - **ping**– All former **ping** and **ping6** commands now use the **ping** verb. The **ipv4** and **ipv6** arguments can be used to specify IPv4 and IPv6 hosts, respectively.
 - **traceroute**– All former **traceroute** and **traceroute6** commands now use the **traceroute** verb. The **ipv4** and **ipv6** arguments can be used to specify IPv4 and IPv6 hosts, respectively.

To help you migrate to the new commands, a new document has been prepared, the *Vyatta Command Changes* document. This document, delivered as the spreadsheet **Vyatta_Command_Changes.xls** for easy searching and sorting, summarizes the changes and maps all old commands onto the new command names.

- **Enhancements to connection tracking.** This release provides several enhancements that extend the connection tracking functionality provided within the Vyatta CLI:
 - **Per-entry removal from the contrack table.** This release provides the ability to remove specific entries or groups of entries from the contrack table without clearing the entire table. The **delete contrack table {ipv4 | ipv6}** command has been added to delete IPv4 and IPv6 connection entries. The **show contrack table {ipv4 | ipv6}** command has been added to show IPv4 and IPv6 connection entries, including TCP state and timeouts for each entry.
 - **Log messages for contrack entry creation and deletion.** This release adds the ability to log the creation and deletion of connections in the main connection tracking

table. The system generates a log file entry for every conntrack entry, with separate entries for creation and deletion. Connection entries can be logged per protocol. To support this command, the **system conntrack log** command has been added in configuration mode.

- **Connection timeout configuration.** This release adds the ability to configure timeout values in the connection tracking module. You can now use the CLI to set timeout values for generic connections, ICMP connections, UDP generic connections and connection streams, and TCP connections in various states. You can also define customized timeouts for subsets of connections, selected based on protocol, source and destination IP address, and source and destination port number. To support this feature, the **system conntrack timeout** family of commands has been added in configuration mode.
- **Connection tracking command restructuring.** This release moves a number of commands that were previously **firewall** commands to connection tracking (**system conntrack**). For example, **firewall conntrack-table-size** is now **system conntrack table-size**. For a list of all changes, see the *Vyatta Command Changes* document.
- **Expect table synchronization.** In high availability scenarios, the connection tracking table is synchronized across redundant systems so that if the master system fails, a redundant system can take over without having to reestablish existing connections. However, certain connection types (for example, FTP, H.323, and SIP) are tracked by the expect table, which supplements the main connection tracking table. Prior to this release, there was no mechanism for the expect table to be synchronized across redundant systems. The result was that these connections would need to be reestablished when a failover occurred. In this release, it is possible to configure the system to synchronize the expect table on failover using **service conntrack-sync**. For a description of supported connection tracking mechanisms, see the *Vyatta Connection Tracking Reference Guide*.

For full information on connection tracking functionality, see the new *Vyatta Connection Management Reference Guide*.

- **Configurable global stateful behavior for firewall.** For many stateful firewalls, when an initiation flow is allowed in one direction, the responder flow is automatically and implicitly allowed in the return direction. In previous releases, Vyatta firewall rules had to be explicitly configured on a per-ruleset basis to accept the responder flow for established or related traffic. This release adds a new global firewall configuration command, the **firewall state-policy** command, which can globally allow any established or related traffic, while dropping invalid traffic. For information about support for stateful firewall, see the *Vyatta Firewall Reference Guide*.
- **Enhancements to NAT.** In previous releases, source and destination NAT rules were mixed within NAT configuration. This resulted in rule processing order that sometimes seemed counter-intuitive. In this release, source and destination rules are separate. The resulting design is intended to be more intuitive, readable, and representative of the system's actual behavior. As part of this change, the **outside-address** and **inside-**

address options are no longer required. Instead, the **translation** keyword is now used to specify the new address and/or port within source and destination rules. As part of this change, the entire **nat** configuration tree has been moved from beneath the **service** node to its own top-level node. For a complete description of NAT support, see the *Vyatta NAT Reference Guide*.

- **Multi-queue support for VMXNET3 drivers.** New support for VMXNET3 drivers provides the ability to scale throughput in a VMware vSphere 5 environment by assigning multiple cores to the Vyatta virtual machine.
- **Enhancements to upgrade.** This release adds improvements to the upgrade process, especially for systems running in virtual environments. In previous releases, the upgrade process cumbersome for systems running on virtual machines. This release adds the new **upgrade system image** command, which improves image-based upgrades for both physical hardware environments and virtual machines. From Release 6.4, you will be able to upgrade virtualized systems to future releases using the new simplified image-based upgrade. For a complete description of installation and upgrade procedures, see the *Installing and Upgrading* guide for your deployment platform.

Behavior Changes

Support for IPS is deprecated. In this release, the Intrusion Prevention System (IPS) and content inspection are deprecated. Note that documentation is not yet updated in this regard, so Vyatta documentation incorrectly indicates that IPS are supported. Please disregard any mention of IPS in Vyatta documentation.

Operational command redesign. In this release, several operational commands have been renamed. To see a summary of the changes, refer to the new *Vyatta Command Changes* spreadsheet, which maps the old command names onto the new ones.

NAT enhancements. NAT support has been redesigned. As a result, the **nat** configuration node has moved from beneath the **service** node to the top level of the configuration tree. The configuration tree is also redesigned, and is now divided into **nat source** and **nat destination**. The **nat source** node contains all source NAT (SNAT) rules; the **nat destination** node contains all the destination NAT (DNAT) rules. In addition, the **inside-address** and **outside-address** options have been replaced by the **translation** options, which specifies address and port translations. To see the impact on NAT commands, refer to the *Vyatta Command Changes* spreadsheet.

Documentation Changes

In this release, the Vyatta technical library includes a new artifact, the *Vyatta Command Changes* document, designed to assist you in tracking changes made to the Vyatta CLI over time and to identify specific changes in the current release. The *Vyatta Command Changes* document lists any deprecated or obsoleted commands. It also lists commands that have been renamed (as have many operational commands in this release), mapping the old

command name onto the new name. To facilitate easy searching and sorting, the new artifact is delivered in spreadsheet form.

This release introduces a new guide, the *Vyatta Remote Management Reference Guide*. This guide includes the information for SSH, Telnet, and the web GUI (previously located in the *Vyatta Services Reference Guide*), as well as the information for SNMP (previously found in the *Vyatta Basic System Reference Guide*.)

This release introduces another new guide, the *Vyatta Connection Tracking Reference Guide*. This new guide includes content related to flow accounting (previously found in the *Vyatta Basic System Reference Guide*) and collects all material related to connection tracking previously located in other guides, as well as documenting the new connection tracking enhancements implemented in this release.

The new *Vyatta Bridging Reference Guide* splits out content related to Layer 2 bridging. This content was previously located in the *Vyatta LAN Interfaces Reference Guide*.

The *Vyatta Installation and Upgrade Guide* has also been split into several guides, with the goal of simplifying and clarifying installation and upgrade information. You can now download just the information you need for your selected deployment platform. The Vyatta technical library now includes the following suite of installation and upgrade guides:

- *Installing the System: Deployment Options*
- *Installing the System: Creating and Using a LiveCD*
- *Installing and Upgrading: Hard Disks and Persistent Devices*
- *Installing and Upgrading: VMware*
- *Installing and Upgrading: XenServer*
- *Installing and Upgrading: Red Hat KVM*
- *Installing and Operating: Vyatta AMI*

Upgrade Notes

Please note that the new “upgrade system image” command cannot be used to upgrade from earlier releases to Release 6.4. For information on how to upgrade to Release 6.4, please see the *Installing and Upgrading* guide for your deployment platform.



VYATTAGUARD MUST BE UPGRADED

It is **very important** that all VyattaGuard subscribers **immediately** upgrade to Release 6.4 to ensure continued operation of the Vyatta web proxy and URL filtering features. Vyatta Subscription Edition customers who subscribe to the Vyatta Plus VyattaGuard service must upgrade to Release 6.4 to prevent potential commit and load failures with the Vyatta web proxy and URL filtering features. This upgrade is also required to continue receiving VyattaGuard database updates. Information on upgrading and migrating the VyattaGuard database to the Release 6.4 image can be found in the *Installing and Upgrading* guide for your deployment platform.

FULL-UPGRADE COMMAND DEPRECATED

The package upgrade method of upgrading and the “full-upgrade” command are **no longer supported**. Image-based upgrade is now the only supported upgrade method for physical systems. If you are upgrading to Release 6.4 in a virtualized environment, use the procedures specific to virtual system upgrade described in the *Installing and Upgrading* guide for your deployment platform.

DISK SPACE REQUIREMENTS

If you are upgrading from VSE6.1, please ensure that you have enough disk space to upgrade, as the system does not automatically detect lack of space and notify you. This issue is corrected in releases later than VSE6.1.

DOUBLE-QUOTE CHARACTERS IN CONFIGURATION

If you are upgrading a system that uses the double quote (") character in a value string within the configuration, you must remove the configuration lines containing the double quote character before upgrading. Some such lines can be replaced with functionally equivalent configuration after the upgrade. Failure to do so can render the system inaccessible once it is upgraded.

The double quote character is sometimes used in free-form text values such as the `openvpn-option`, `DHCP global-parameters` and `shared-network-parameters`, system login banner, and interface description values. Some instances can be worked around using alternate configuration. For example, the configuration:

```
interfaces openvpn vtunX openvpn-option "--push "route 10.254.0.0 255.255.0.0"
```

can be replaced after upgrade with either:

```
interfaces openvpn vtunX openvpn-option "--push route 10.254.0.0 255.255.0.0"
```

or:

```
interfaces openvpn vtunX server push-route 10.254.0.0/16
```

Instances that cannot be worked around must be removed from the configuration prior to upgrading.

MIGRATION OF CONFIGURATION DATA

Release 6.2 changed the location of certain configuration information. If you are upgrading from VSE6.2 or an earlier release, you must perform a migration procedure to preserve configuration information for some features. Affected features are as follows:

- Web proxy and URL filtering (VyattaGuard database and the community blacklists)
- Configuration parameters that reference file locations from the CLI (for example, WAN load-balancing hook, OpenVPN and L2TP/IPsec certificates, IPsec and RSA keys, and so on)

If you are not using these features, you can skip the procedures below.

These procedures will store your data in a manner consistent with the ongoing image-upgrade process. The procedures only need to be performed once; subsequent upgrades do not require them.

URL-Filtering/Web Proxy

To preserve web proxy information, copy the required URL-filtering files from the old image to the new image.

Upgrade to the new image, following the procedures in the *Installing and Upgrading* guide for your deployment platform. This is the “running system.”

1. If your web proxy uses the VyattaGuard database, restore configuration as follows:
 - If it exists, delete the directory **/config/url-filtering/sitefilter/** on the running system, as follows:

```
delete file running://config/url-filtering/sitefilter/
```
 - Copy the file **image-name://var/lib/sitefilter/** (where *image-name* is the name of the pre-upgrade image; for example, **VSE6.2-2011.04.06**), to **/config/url-filtering/sitefilter/** on the running system, as in the following example:

```
copy file VSE6.2-2011.04.06://var/lib/sitefilter/ to running://config/url-filtering/sitefilter/
```
2. If your web proxy uses a community blacklist, restore configuration as follows:
 - On the running system, delete the directory **/config/url-filtering/squidguard/**, as follows:

```
delete file running://config/url-filtering/squidguard/
```
 - Copy the file **image-name://var/lib/squidguard/** (where *image-name* is the name of the pre-upgrade image) to **/config/url-filtering/squidguard/** on the running system, as in the following example:

```
copy file VSE6.2-2011.04.06://var/lib/squidguard/ to running://config/url-filtering/squidguard/
```

3. Restart your system to reload configuration.

Scripts and Certificates

To preserve script and certificate information, three steps are required after upgrading to the new image:

1. Copy certificates and scripts to the new directory.
2. Update any configuration node referencing the script to use the new path.
3. Restart your system to reload configuration.

As an example, the following procedure migrates X.509 certificates. In this example, the certificates on the old image reside in `/opt/vyatta/etc/certs/x509` and are copied to the `x509` subdirectory in `/config/auth`.

1. Upgrade to the new image, following the procedures in the *Installing and Upgrading* guide for your deployment platform. This is the “running system.” Have the files from the old image available to you.
2. Copy the certificates, as follows:

```
copy file VSE6.2-2011.04.06://opt/vyatta/etc/certs/x509/ to running://config/auth/x509/
```
3. Restart your system to reload configuration.

The following example migrates a script called **wlb-hook**. In the example, this script is referenced in the **load-balancing wan hook** configuration node using the absolute path **/home/vyatta/wlb-hook**.

1. Upgrade to the new image, following the procedures in the *Installing and Upgrading* guide for your deployment platform. This is the “running system.” Have the files from the old image available to you.
2. Copy the file `image-name://home/vyatta/wlb-hook` (where *image-name* is the name of the pre-upgrade image; for example, `VSE6.2-2011.04.06`), to **/config/scripts/wlb-hook** on the running system.

```
copy file VSE6.2-2011.04.06://home/vyatta/wlb-hook to running://config/scripts/wlb-hook
```

3. In WAN load balancing configuration, modify the **load-balancing wan hook** node to have the value of the new path: **/config/scripts/wlb-hook**.

```
configure
set load-balancing wan hook / config/scripts/wlb-hook
commit
exit
```

4. Restart your system to reload configuration.

Resolved Issues

The following issues have been resolved in this release.

Bug ID	Severity	Description
10G		
7186	3 - major	Intel 82599 10gbe NIC still loses some packets when iMIX tcp packets with 10k different source addresses and the offered load is just 1% of the line rate
AMI		
7449	4 - minor	Cannot ssh into an instance (outside VPC) if it is stopped and started again.
7501	4 - minor	"show system image" does not display correct information after running the add system image on template-installed XenServer
7502	3 - major	'add system image' does not function correctly in Citrix XenServer
7558	4 - minor	Typo in AMI grub menu.lst and grub.cfg preventing console messages from displaying on boot
BGP		
3220	6 - enhancement	Include a list of configured BGP neighbors for 'clear ip bgp' help and command completion
6033	4 - minor	There is no auto completion for "bgp <> neighbor <> peer-group"
7205	4 - minor	peer-group maximum-prefix incorrectly takes precedence
7522	3 - major	Unable to use default-originate in IPv4 peer-group
7530	3 - major	Peer-group commit fails with perl error when no remote-as is defined
7935	2 - critical	BGP vulnerable to malformed OPEN packet
Bridging		
5993	6 - enhancement	Add ability to spoof HWaddr on bridge interfaces
CLI		
2618	5 - trivial	Invalid node error messages need to be reworked
2654	4 - minor	Non-privileged commands are shown to users in help
2823	6 - enhancement	Support unambiguous partial command strings
3455	4 - minor	tab completion doesn't work when editing the line
3631	4 - minor	lazy people type "sh" in configure mode
5611	6 - enhancement	ENH: Prompts for operators and admins should differ to indicate

		user level
6169	5 - trivial	tab completion can fail after backspace
6174	4 - minor	error path only reported when a commit:expression fails
6691	4 - minor	Sometimes command completion provides incorrect matches
6747	4 - minor	command completion after special character causes vbash error
6753	4 - minor	command completion doesn't work for some special characters
6828	5 - trivial	Message 'Use "exit" to leave the shell.' on EOF in configure mode
7162	4 - minor	allowed tag does not do variable expansion
7188	3 - major	vyatta-cfg won't compile with gcc-4.6
7374	4 - minor	Vyatta boot config loader calls commit 3 times
7380	4 - minor	pager exceptions do not work
7442	4 - minor	running any op mode commands from the config mode when the user is a root user, gives bash errors.
7527	4 - minor	"terminal length 0" should apply to the whole login session, not just op mode
7603	3 - major	operational mode 'reset' commands are not available to operator level users
7674	3 - major	CLI allowed scripts(help auto completion) dont display strings of format [xyz]:abc, needed by IPv6 contrack commands.
Clustering		
3238	6 - enhancement	Add command to force cluster failover
Configuration Synchronization		
7312	4 - minor	Commit error "unexpected EOF..." with config-sync when login banner has newlines
Connection Tracking		
2123	6 - enhancement	Need ability to configure nf_contrack / ip_contrack time-out values
7384	6 – enhancement	Contrack sync needs to sync the expect table to keep ALG related connections
7397	6 - enhancement	ENH: Log the creation/deletion of flow/contrack entries
7411	6 - enhancement	enh: ability to remove specific connections from the contrack table
7676	6 - enhancement	ENH: Warn user when zero entries returned to check the configurations

7866	4 - minor	Use [IPv6 Address]:port in contrack show/delete command output / logs
Connection Tracking Synchronization		
7772	3 - major	Wrong expect-sync error on committing changes in contrack table size
DHCP		
4271	4 - minor	'show dhcp statistics' reports incorrect statistics
7483	6 - enhancement	op-mode commands "clear/reset dhcp ..." should specify "dhcp-server" instead of just "dhcp"
DNS Forwarding		
4086	6 - enhancement	Add option to re-direct DNS queries for a particular domain to specified nameserver
Documentation		
7365	6 - enhancement	Promote the "compare" command in the documentation
7386	4 - minor	Update LAN Interfaces Guide to use /config/auth directory for OpenVPN WAN bridging example
7593	5 - trivial	Private ASN note wrong
7737	5 - trivial	No "Overview" section for Ethernet Interfaces
7738	6 - enhancement	"Loopback Interfaces" chapter missing overview section
7739	6 - enhancement	Loopback Configuration chapter has no configuration examples
7741	6 - enhancement	No Configuration Examples for VLAN Interfaces
7742	4 - minor	Pseudo-Ethernet Chapter configuration commands do not correctly reflect restricted capabilities of pseudo-Ethernet interfaces
7744	4 - minor	Missing command: "interfaces ethernet <ethx> disable-flow-control"
Entitlement		
7401	4 - minor	The Vyatta system does not successfully validate entitlement on systems that do not have an eth0 interface present.REST API fails when eth0 is not configured.
Firewall		
6063	6 - enhancement	ENH: Provide option(s) to globally allow stateful return traffic
6870	4 - minor	"show firewall" command set uses reverse DNS lookups
7047	4 - minor	"show firewall" error when 'enable-default-log' is configured under a firewall with a name longer than 19 characters

7712	6 - enhancement	ENH: Add operational command to show zone policy summary.
Installer		
6770	5 - trivial	No completion/help for second parameter after "rename system image [old-image] ..."
7350	6 - enhancement	Add an option to copy config.boot.default as the config.boot during install-image
7352	5 - trivial	change references to config file in install-system and install-image commands to mention /config instead of /opt/vyatta/etc/config
7361	5 - trivial	image-install undo's "delete system console"
7469	3 - major	install-image doesn't have hooks for installing onto Xen
7497	4 - minor	'add system image <> username <> password <>' ignores un/pw when attempting to download signature file
Interfaces		
4053	6 - enhancement	ENH: Add a command to show interface bandwidth utilization stats
4992	6 - enhancement	"show interfaces <> <> capture" parameters are too restrictive
6486	4 - minor	run show interface causes contention (if left running) with netlink bus and other netlink clients
7370	5 - trivial	"show interfaces <foo> capture" doesn't work when bond interfaces exist
7417	4 - minor	netplugd attempts to control non-existent interface
7492	3 - major	the actual mac address value isn't restored to hw-id after ethernet interface 'mac' config is deleted/comitted
7551	4 - minor	VLAN tab-completion needs standardized with other interface commands
IPv6		
5840	5 - trivial	show commands + IPv6 address have broken formatting
6900	6 - enhancement	Missing support for IPv4-over-IPv6 and IPv6-over-IPv6 tunnels
7553	3 - major	Delete of IPv6 tunnel fails when parameters are set
KVM		
7435	2 - critical	KVM guest boot stops after the grub menu is displayed
7436	3 - major	KVM guest boots with "Mounting local filesystem...failed"
7437	4 - minor	KVM guest boots with "... ifup: failed to open statefile ..."

LLDP		
7419	4 - minor	lldpd filling log when broken cdp implementation is received
Load Balancing		
7315	4 - minor	Incorrect test result output displayed for "show wan-load-balance"
NAT		
3888	6 - enhancement	Generate a warning message when NAT outside-address does not match a configured address or subnet on the system
4582	6 - enhancement	NAT - Include "Any" option as a valid Nat interface target
4946	4 - minor	NAT configuration warning: interface eth+ does not exist on this system
5678	4 - minor	`show nat translations monitor` does not work with conntrack package in larkspur
5681	5 - trivial	Move NAT out of service branch of configuration
5682	6 - enhancement	NAT configuration should be divided into destination (PREROUTING) and source/masq (POSTROUTING) branches
6071	6 - enhancement	NAT inside-address, outside-address are misnomers
6365	5 - trivial	show nat rules output in opmode doesnot display the rules description
6616	3 - major	Show Nat statistics count displays incorrect count
6617	3 - major	clear nat counters rule x throws error message when logging is enable for that rule
7353	6 - enhancement	keep the auto completion and help text for protocols uniform throughout the system
7500	4 - minor	Bug in 6.3 'show nat statistics'
NTP		
7528	4 - minor	sometimes "delete system ntp" doesn't stop ntp daemon
7552	4 - minor	"set date ntp" doesn't seem to work
7623	4 - minor	ntp server options don't actually do anything
OpenVPN		
6685	4 - minor	vyatta-show-ovpn shows wrong tunnel IP when >1 connection with same CN
7194	6 - enhancement	ENH: openvpn-option should no longer require the double-hyphen "--" prefix
7385	4 - minor	Update commit failed help text for openvpn local-address / bridge

		group option
7387	3 - major	OpenVPN tunnel is added to bridge group prior to a successful commit
7561	6 - enhancement	ENH: tag openvpn log messages with interface name
7563	5 - trivial	Move 'generate vpn openvpn-key' to 'generate openvpn'
OSPF		
2851	4 - minor	'show debugging' root command does not produce any output even when debugging is enabled
7934	2 - critical	OSPF security vulnerable to malformed LSA packets
OSPFv3		
7065	4 - minor	"show ipv6 route ospf6" should have been "show ipv6 route ospfv3"
PPPoE		
7420	3 - major	deleting pppoe interface can kill other pppd that were created in same commit
QoS		
7023	3 - major	Qos does not work on some VLAN configurations
7108	4 - minor	Show queueing not displaying queue type
7322	5 - trivial	Traffic-policy help text refers to "IP ports"
7547	4 - minor	Setting bandwidth to 0 in shaper policy gives Linux-ese error
RAID		
7774	4 - minor	show raid command broken in Oxnard Beta
RIB		
7189	3 - major	[Quagga] Can't delete ipv6 interface route
Serial		
3003	4 - minor	under serial/wan/ppp, "key-id <> md5-key <>" not sent to the routing engine after "ip ospf authentication md5 ..." being set and committed
SNMP		
7367	4 - minor	Errors "Error: unknown notification OID", "Error: unknown monitor OID" from snmpd on boot with SNMP configured
7415	4 - minor	errors in log from inetCidrTable
7533	5 - trivial	snmp: log shows unknown token perl

System		
1765	6 - enhancement	Please add dos2unix / unix2dos text conversion utility package (tofromdos)
2002	6 - enhancement	Please add the screen program to the installation CD and package repository.
2458	5 - trivial	Date command help and docs suggest incorrect format
2463	6 - enhancement	Allow the neighbor table threshold values to be modified via the CLI - (modify ARP table size)
2852	4 - minor	The <all> option for the 'undebug' command is misleading
2859	6 - enhancement	ENH: Add the 'mtr' traceroute tool
4940	6 - enhancement	ENH: Add the "netcat-openbsd" or "netcat-traditional" package
4941	6 - enhancement	ENH: Include the "ipcalc" package
5410	6 - enhancement	host command doesn't support IPv6.
5806	4 - minor	ntp.vyatta.com is displayed in the output of show ntp whether it is configured or not
6526	4 - minor	Prevent immediate reboot via Ctrl-Alt-Del
6886	4 - minor	perl critic warnings in image scripts
6916	4 - minor	Use /etc/sudoers.d/Vyatta
7390	6 - enhancement	ENH: Include "show bridge ..." outputs in show tech-support
7396	4 - minor	loadkey behavior should not require remote host to be already known
7400	4 - minor	Bogus cpufreq warnings on boot
7448	6 - enhancement	Add a keymap configuration
7489	3 - major	system console configuration should warn on deletion
7490	3 - major	system console device ttyXX shouldn't be able to be set if hvc0 is already there, or vise versa
7507	5 - trivial	Change syntax for 'show openvpn server status' in 'show tech-support' command
7544	5 - trivial	typo in vyatta-cfg-system (napa)
7577	4 - minor	"copy file <>://config/[tab]" returns all the remote options unnecessarily
URL Filtering		
7399	4 - minor	Vyattaguard operational commands should respond appropriately

		when the vyattaguard service is not configured
7541	3 - major	fail or warn when vyattaguard is configured without auto-update
Virtual Machine		
7202	3 - major	xenserver guest PV boot failed on Xenserver 5.5
7314	4 - minor	"show version" returns two lines info for hypervisors
7381	5 - trivial	open-vm-tools error message on shutdown
7488	3 - major	login can't be done through the console after system console hvc0 being set/committed on a Xen DomU
VPN		
6839	3 - major	changed ipsec vpn pre-shared-secret doesn't take effect immediately
7087	3 - major	pptp and l2tp authenticates passwordless VPN local users
7426	4 - minor	Remote access user disable affect both L2TP and PPTP if same user exists for both
7433	6 - enhancement	Add possibility to reset all remote access VPN sessions
7456	3 - major	IPSec VPN Hostname Peer id Failed
7512	4 - minor	Improve the regex for "vpn site-to-site peer <peer-id> authentication id "
7705	4 - minor	L2TP and PPTP remote-access VPN will not allow more than 11 concurrent connections each
VRRP		
5707	6 - enhancement	ENH: add support for vrrp vmac
6905	3 - major	vrrp group with same priority and greater primary interface address doesn't become master
7203	6 - enhancement	Upgrade keepalived to latest version
7684	2 - critical	VRRP sync-groups can get out of sync and enter an infinite loop preventing transition.
Web Proxy		
7359	4 - minor	permission to view webproxy log is denied
Web GUI		
7523	4 - minor	ExtJS Library need to be update to 4.0 version

Known Issues

The following issues have been resolved in this release.

Bug ID	Description
AMI	
7450	"Failed to read ..." errors can display on the console when an AMI instance boots. Recommended action: None. This issue is display-only.
BGP	
5822	The "neighbor <peer-group-name> ebgp-multihop 255" configuration entry appears in the routing engine after committing "delete peer-group <peer-group-name> remote-as <>". This issue only occurs when the peer-group remote-as is the same as the local one, i.e., the peer-group is iBGP. Recommended action: Remove the peer group entirely; alternatively, issue the following command vttysh -c 'conf t' -c 'router bgp local-asn' -c 'no neighbor peer-group-name ebgp-multihop'
6042	The BGP "confederation peers asn" option cannot be used after the peer's ASN configuration has already been committed. Recommended action: None.
6817	A "delete protocols bgp <>" operation fails to commit when "redistribute" and "address-family ipv6-unicast" are configured. Recommended action: Delete either of the two latter options first, then delete BGP configuration in its entirety.
CLI	
2777	Stray quote confuses CLI. Accidentally typing a single quote puts the CLI into a mode where it expects additional input, as in the following example: root@charon# set interfaces ethernet eth' [edit] root@charon# commit > > > This occurs in both operational and configuration mode. Recommended action: Avoid typing stray single quotes when entering commands. Note: This is currently designed behavior. For more information about using the Vyatta CLI, please see the "Using the CLI" chapter of the <i>Vyatta Basic System Reference Guide</i> .
Clustering	
3105	If two clustered routers reboot when the master router's monitored interface is down, the master still becomes active. This issue occurs only when both routers are booting and the master's monitored interface is disabled in configuration. After the routers come up, master negotiates to active even though its interface is disabled. If the interface is enabled, traffic flows normally. If the interface is disabled again, the routers fail over as expected. This issue does not occur if fewer than 15 services are entered in the cluster. This issue does not occur if the two routers are rebooted with a gap of 30 seconds or greater. Recommended action: Reboot the primary router, or delete the cluster configuration on the primary router and reload the configuration.
DHCP	
2657	Lease expiration is not displayed in local time; it is displayed in GMT timezone only irrespective of the system's configured timezone.

	Recommended action: None.
Firewall	
5065	A commit error is generated if a firewall "name" configuration is deleted at the same time as deleting the assignment of the firewall "name" to an interface. Recommended action: Delete the assignment and commit the change, then delete the "name" configuration and commit the change.
6965	The "show firewall" command returns incorrect information for 'packets' and 'bytes' after some million packets are traversed. Recommended action: None.
7139	Enhancement request: The experimental "firewall modify" feature should be tested, documented, and supported. Recommended action: None.
IDS	
7182	Content inspection can fail when the IPv6 protocol is blacklisted. Recommended action: Avoid specifying IPv6 as a blacklisted protocol.
Installer	
6135	An error occurs when the install-system command is executed at the point where the default root partition size is chosen and the install fails. Recommended action: If this problem occurs, manually select a partition size slightly smaller than the size reported by the drive. Install should subsequently be successful.
Interfaces	
6714	A vif interface cannot be deleted if it belongs to a bridge. Recommended action: To avoid this problem, delete the vif's bridge configuration before deleting the vif itself.
7430	If Vyatta system configuration is cloned, Ethernet interface identifiers on the destination cloned machine "shifted" to identifiers number sequentially higher than the actual interfaces: for example, eth0 and eth1 on the source system become eth2 and eth3 on the destination system. The new interfaces are in most cases inoperative, since do not physically exist on the system. Recommended action: After cloning configuration, reconfigure Ethernet interfaces on the destination system.
Kernel	
5295	Connection tracking helper modules cannot re-assemble application layer PDUs residing in two or more TCP segments. This is typically only a problem when an application layer PDU is larger than 1500 bytes. The result of this issue is that the application can fail. Recommended action: None.
Load Balancing	
7503	The WAN load balancing feature is changing the source interface and address during outbound session from the inside. As a result, HTTPS sites (such as webmail and banking sites) are requiring the user to reauthenticate during the session. Recommended action: To prevent this issue, create a separate WAN load balancing rule that exclusively binds HTTPS traffic to a particular outbound interface. If you do this, however, the HTTPS traffic does not receive the bandwidth aggregation benefits of load balancing.
OSPF	
3004	Deleting an OSPF area may fail if the network entry is not a connected network and virtual links are in use. The configuration commit fails with an "Area does not exist" error message. Recommended action: Remove virtual links included in an OSPF area configuration prior to deleting the OSPF area.
3348	OSPF process dies if the router ID value is modified while OSPF routers are converging. This issue may also occur after convergence if the OSPF router ID is changed twice within a short interval.

	Recommended action: If the OSPF router ID must be changed, it must be changed after OSPF routers have finished converging, when OSPF adjacencies are stable and OSPF routes in the RIB are synced with OSPF LSAs.
6762	A "delete protocols ospf" operation fails if the "passive-interface-exclude" option has been configured. Recommended action: Delete the "passive-interface-exclude" configuration setting before deleting OSPF configuration.
Policy	
6166	Configuration commit fails when a route-map is deleted using the "comm-list" option. Recommended action: To avoid this problem, do not attempt to delete using the "comm-list" option if it is already set. Alternatively, use the "set community" command with values that exclude the community to be deleted.
PPP	
6609	When a high-load test is performed with a four-link multilink PPP bundle on Sangoma A104 cards, a receive-side panic occasionally occurs, with the panic signature beginning as follows: 487.026549] BUG: unable to handle kernel NULL pointer dereference at (null) Recommended action: None.
Serial	
4983	On some circuits, the Wanpipe ADSL Link status shows as "Disconnected , 0x1" even though the link is connected. Recommended action: None. This issue is display-only.
5724	Serial interfaces cannot be recreated once they are deleted. Recommended action: If this problem occurs, reboot the system and it will be possible to recreate the interface.
7548	With the Sangoma A142 serial card installed, upgrading the Vyatta system caused a system kernel panic. The kernel panic occurred when the system attempted to load configuration while booting to the new image load to the new image and the boot process did not complete. Recommended action: Removing the serial card restored the system's ability to complete boot normally.
SNMP	
5442	64-bit SNMP traffic counters do not work for all ethernet interfaces Recommended action: Use SNMP OIDs for 32-bit counters instead of 64-bit for unsupported interfaces.
6789	No response to SNMP request if the reverse path forwarding check fails. In certain network topologies, the system does not respond to SNMP requests. This problem occurs when the packet containing the SNMP request arrives on one interface, but the system's active route to the request's source IP goes through a different interface. In these situations, the reverse path forwarding filter fails and the request is dropped. Recommended action: Depending on your network topology, you can use either of the following methods to avoid this issue: <ul style="list-style-type: none"> • Send SNMP requests to an IP address on the interface facing the next hop on the route back to your SNMP client. • Add a route from the router to the SNMP client's address or network so that the route to the client uses the same interface which the request arrives through.

Static Routes	
5905	<p>If the distance for a static IPv6 route is updated or deleted, the change is not recorded in the routing engine.</p> <p>Recommended action: Delete the route, then set it again with the new distance.</p>
System	
5792	<p>When the “show system image”, “show system image version”, and “show system image storage” commands are executed on a system deployed from a LiveCD, the system displays the following message: "Can not open Grub config file." No other information is displayed, and in particular, it is not clear that the issue is storage. The message should inform the user that it is not valid to run these commands on a LiveCD.</p> <p>Recommended action: None.</p>
6952	<p>The system reports the following message if it boots immediately prior to receiving a login prompt:</p> <p style="padding-left: 40px;">ata2: failed to resume link (SControl 0)</p> <p>Recommended action: None. This issue is display-only.</p>
7072	<p>Enhancement request: The Vyatta software supports two upgrade mechanisms: the package-based "full-upgrade" method and image-based upgrade. There should be one consistent, reliable upgrade path between Vyatta versions.</p> <p>Recommended action: None.</p>
Virtual Environment	
7398	<p>Deactivating a network interface from within the guest settings Network tab causes the XenServer guest account to crash with a kernel panic.</p> <p>Recommended action: To avoid this issue, use the Vyatta CLI to disable the network interface.</p>
VRRP	
1819	<p>Allow VRRP set to same address as interface address with auto 255 priority.</p> <p>Recommended action: None.</p>
7703	<p>The kernel only allows one of bridging, bonding, VRRP, and pseudo-Ethernet to be selected, but Vyatta templates do not enforce this restriction for VRRP and pseudo-Ethernet. Additional checks should be implemented in the templates to enforce this restriction for devices using bonding or bridging.</p> <p>Recommended action: None.</p>
Web GUI	
7354	<p>When Safari is used as the web browser, duplicate requests are sent to the server.</p> <p>Recommended action: None.</p>
Web Proxy	
4952	<p>If the web proxy feature is configured together with clustering, both configurations may be lost.</p> <p>Recommended action: None.</p>