VYATTA, INC. | Release Notes

Vyatta Release 6.3-2011.07.21

July 2011

Document Part No. A0-0095-10-29

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These release notes document changes made for Release 6.3-2011.07.21.

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Security

There are no security announcements in this release.

New in This Release

This release of the Vyatta system includes features for the Vyatta Subscription Edition, Vyatta Plus, and the Vyatta Core.

The following new features are available for the Vyatta Subscription Edition:

- **New web GUI infrastructure.** The Vyatta web GUI has been ported to the Vyatta REST API in order to improve security, reliability, and responsiveness. This change in underlying infrastructure also improves extensibility and allows for easier integration with third-party applications. Because of its reliance on the Vyatta REST API, the web GUI is now only available in the Vyatta Subscription Edition and is no longer available in the Vyatta Core.

The following new feature is available for the Vyatta Plus subscription service:

- **Support for Snort VRT 2.9 rule sets in Vyatta Plus Snort VRT Service.** This release adds support for version 2.9.0.5 of Snort rule sets to Snort VRT Service support. The system still supports Snort rule sets version 2.8.6.1; however, since Snort reports that it plans to deprecate support for version 2.8.6.1, Vyatta recommends upgrading rule sets to version 2.9.0.5.

The following new features are available for the Vyatta Core:

- **Image upgrade improvements.** The structure of configuration information has been changed to improve user experience and make it easier to migrate configuration during image upgrade. With the new structure, all information on which configuration depends can be stored in the **/config** directory and automatically migrated during image upgrade. The new structure is described in "Behavior Changes"; the procedure for migrating to the new structure is described in "Upgrade Notes."

- **New file management tools.** New commands have been implemented for simplifying file management tasks. The **show file**, **copy file**, and **delete file** commands use image-relative command completion to make it easier to work with multiple images. These commands are described in the "Using the CLI" chapter of the *Vyatta Basic System Reference Guide*. The **show log image** command allows you to view log information across images. This command is described in the "Logging" chapter of the *Vyatta Basic System Reference Guide.*

- **IPsec VPN enhancements.** IPsec VPN functionality has been enhanced with a number of new capabilities:

  - Ability not to bring up a tunnel until the other endpoint brings up the tunnel.

  - X.509 authentication for site-to-site VPN

  - Adjustment of IKE lifetime for L2TP remote-access connections

  - Set protocol and port for IPsec VPN tunnels

  - On L2TP and PPTP services, assign fixed IP addresses to a client

  The *Vyatta VPN Reference Guide* has been updated with this information. In addition, a number of other IPsec VPN enhancements and bug fixes have been implemented in this release. For the complete list of changes and fixes, see the IPsec VPN section of "Resolved Issues."

- **OpenVPN enhancements.** OpenVPN functionality has been enhanced with a number of new capabilities:

  - Reset individual clients from the OpenVPN server

  - Reject individual clients from accessing the OpenVPN server

  - Reset a running OpenVPN process

  - Configure the OpenVPN server to "push" or send a set of domain names/DNS suffixes to connecting clients

  The *Vyatta VPN Reference Guide* has been updated with this information. In addition, a number of other OpenVPN enhancements and bug fixes have been implemented in this release. For the complete list of changes and fixes, see the OpenVPN section of "Resolved Issues."

- **Bridging across OpenVPN in client-server mode.** This release allows you to configure a bridge across either a site-to-site or a client-server OpenVPN tunnel. For information about using this feature, please see the "Bridging" chapter of the *Vyatta LAN Interfaces Reference Guide.*

Behavior Changes

PACKAGE UPGRADE IS DEPRECATED

The package upgrade method of upgrading and the full-upgrade command are **no longer supported**. Note that, while the full-upgrade command is still visible in the command line,

it is not supported. Image-based upgrade is now the only supported upgrade method for physical systems. If you are upgrading in a virtualized environment, use the procedures specific to virtual system upgrade described in the *Vyatta Installation and Upgrade Reference Guide*.

STRUCTURE OF CONFIGURATION INFORMATION

This release changes the location for storing some configuration information and files on which features in the configuration depend. (The location of the **/config** directory itself has not changed.) This change has been made to provide a consistent, standard location for configuration information, to improve the user experience and simplify upgrade, and to reduce the likelihood of configuration errors during upgrade. The **/config** directory now has the following subdirectories:

- **archive** - Existed previously; no change. Archive directory for configuration changes. Used by the configuration management function.
- **auth** - New. Stores security certificates.
- **ips** - New. Stores IPS rules and other IPS data on which content-inspection configuration depends.
- **scripts** - New. Stores scripts referenced from within the CLI (for example, VRRP transition scripts).
- **support -** New. Stores information generated when the **show tech-support** command is issued.
- **url-filtering** - New. Stores the URL-filtering database and other data on which URL-filtering configuration depends.
- **user-data** - New. Stores user-generated scripts and user data. Use this directory as the single place for keeping all files you want to preserve across images.

More details about the new structure of configuration information can be found in the "Working with Configuration" chapter of the *Vyatta Basic System Reference Guide.*

Preserving configuration of some features during upgrade to this release requires a migration procedure. See the "Upgrade Notes" section for this information.

WEB GUI SUPPORT NO LONGER AVAILABLE IN VYATTA CORE

Support for the web GUI has been ported to new infrastructure and is therefore no longer available in the Vyatta Core system. The new enhanced web GUI is available for the Vyatta Subscription Edition.

Documentation Changes

In the *Vyatta System Basic System Reference Guide*, configuration-related information in the "Using the CLI" chapter has been consolidated with configuration management information in the "Configuration Management" chapter to form a new chapter: "Working with Configuration."

Upgrade Notes

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 in a virtualized environment, use the procedures specific to virtual system upgrade described in the *Vyatta Installation and Upgrade Reference Guide.*

If you are upgrading from R6.1, 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 post-R6.1.

This release also changed the location of certain configuration information. To preserve configuration information for some features, you must perform a migration procedure. Affected features are as follows:

- Web proxy and URL filtering (community blacklists and the Vyattaguard database)

- Intrusion prevention (community rules and SNORTVRT subscriptions)

- 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 *Vyatta System Installing and Upgrading Reference Guide.* This is the "running system."

1. 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/

2. 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/

3. Restart your system to reload configuration.

INTRUSION PREVENTION SYSTEM

To preserve IPS information, copy the required IPS files from the old image to the new image.

1. Upgrade to the new image, following the procedures in the *Vyatta System Installing and Upgrading Reference Guide.* This is the "running system." Have the files from the old image available to you.

2. Copy the file *image-name***://opt/vyatta/etc/ips/snortrules-snapshot-***num***.tar.gz** (where *image-name* is the name of the pre-upgrade image and *num* is the number of your Snort rules database. The following example copies the Snort version 2.8.5.3 rule set from image VSE6.2-2011.04.06 to the running system:

  copy file VSE6.2-2011.04.06://opt/vyatta/etc/ips/snortrules-snapshot-2583.tar.gz to running://config/ips/snortrules-snapshot-latest.tar.gz

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 *Vyatta System Installing and Upgrading Reference Guide.* 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 *Vyatta System Installing and Upgrading Reference Guide.* 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
API 2.0		
5980	3 - major	remote api gets errors trying to run "show tech-support"
6011	3 - major	remote api escape encoding error
6477	3 - major	"show version" from remote api returns dpkg error message
5989	7 - unassigned	rest api sometimes doesn't work with connection caching
6743	7 - unassigned	semicolon character can cause api command to fail.
BGP		
5777	3 - major	BGP commit failure with attributes
6433	3 - major	BGP Peer configuration becomes out of sync with routing engine when adding or deleting peers to peer-group
6840	3 - major	bgp session with md5 can't be re-established after a peer-group is attached to a neighbor
6981	3 - major	BGP commit failure with shutdown and peer-group attributes
7121	3 - major	IPv6 peer-groups not working
5971	4 - minor	committing delete "... peer-group <> timers" removes "... peer-group <> remote-as <>" from the routing engine

6692	4 - minor	BGP commit error when maximum-prefix and peer-group both are set for a neighbor
6841	4 - minor	a neighbor becomes inactivated in the routing engine after its peer-group is removed
6677	6 - enhancement	address-family ipv6-unicast context missing peer-group command
CLI		
3161	3 - major	Configuration infrastructure doesn't allow nested "begin:"/"end:" within a single priority group
5516	3 - major	Longer public keys are not commited
6069	3 - major	loading config.boot contains different bgp ASN got two bgp instances which shouldn't occur
6782	3 - major	Committing twice no longer fails the erroneous firewall rules.
7224	3 - major	Validation field 'commit:expression:' not run when child node is changed
2480	4 - minor	Interrupting a configuration session (e.g., lost connection) doesn't clean up
6851	4 - minor	ipv6 networks not being normalized
6985	4 - minor	renaming a "tag value" to another that is being deleted produces incorrect result
6996	5 - trivial	"show system commit diff X" inconsistent when commit from edit mode
7120	5 - trivial	Typo in help/completion for "compare" command
498	6 - enhancement	show system commit
1170	6 - enhancement	Add toggle for "save last known good config"
1887	6 - enhancement	Autosave of configuration file if not done manually
5214	6 - enhancement	Configuration and commit rollback?
5587	6 - enhancement	Provide a failsafe commit in case of Erronous configuration
5460	7 - unassigned	Terminating multinodes commited with different order do not execute actions
5884	7 - unassigned	variable reference library does not handle "@@" correctly when reference ends in multi-value node
5970	7 - unassigned	Set and Commit command have inconsistent behavior with empty string
5982	7 - unassigned	commit crashes with long string lengths
6095	7 - unassigned	tag node values exceeding N characters (N is variable) cause "commit" to segfault
6400	7 - unassigned	CLI: multi leaf nodes show as modified even when they're not
6635	7 - unassigned	bgp configuration is left in the routing engine when bgp and static route configuraions are deleted
6754	7 - unassigned	config-mode completion outputs error message if a word on the command line starts with '-'
6771	7 - unassigned	Commit does not terminate when configuration spawns child process(es) in certain way
6785	7 - unassigned	commit fails when deleting comment from a leaf node with "u32" type and "begin:"/"end:" action
6787	7 - unassigned	commit's "begin:"/"end:" behavior is inconsistent when adding/deleting comments
6927	7 - unassigned	incorrect show output when node is modified to/from "default state"

7003	7 - unassigned	"commit" incorrectly adds failed nodes when updating "progress file"
Cluster		
6107	4 - minor	cluster monitor-dead-interval range listed in the help string isn't correct
Config Sync		
6725	3 - major	config-sync will fail on master reboot when "double commits" are encountered
7025	4 - minor	Config sync fails when entitlement is not configured on the remote-router
6736	7 - unassigned	Sync fails when "~" character is encountered in text field
6809	7 - unassigned	config-sync not updating all configured sync-map parameters
Documentation		
7034	4 - minor	Bridge discards frames larger than the smallest MTU among members in a bridge group
6867	5 - trivial	Question mark character (?) not permitted in configuration values
6097	6 - enhancement	Create RA VPN example with X.509 certificates
Entitlement		
7300	5 - trivial	no autocompletion for "remove entitlement service-assignment"
6945	6 - enhancement	'add entitlement service-assignment' should auto-populate with configured entitlement key
Firewall		
5342	4 - minor	ENH: simplify fw groups logic
4368	5 - trivial	"show firewall" doens't show icmp type-name
6915	7 - unassigned	config parameters requiring a reboot are out-of-sync with underlying value when system boots with new image for the first time
IDS		
6560	3 - major	content-inspection failure causes IP address to get out of sync with system
7030	3 - major	VC 6.2 -- Snort "packet recv contents failure: No buffer space available" error
5738	4 - minor	snort config file does not include back exclude category from the snort rules correctly
6196	4 - minor	content-inspection configuration commit checks need to be implemented
7004	7 - unassigned	Snort fails when a bonding interface is enabled.
Installer		
7038	3 - major	Default disk partitioning is not aligned properly
5550	4 - minor	add system image handling out of disk space error
6686	4 - minor	Error during image-based upgrade procedure - "cannot create regular file" ... ".wh.__dir_opaque: Operation not permitted"
5856	6 - enhancement	ENH: Simplify providing the supported repo credentials in the "add system image [ISO_URL]" command
5886	6 - enhancement	Retain a copy of /opt/vyatta/etc/config/snort/local.rules across image upgrades
Interfaces		
6908	3 - major	Deleting of address from interface does not allow system to communicate to another device with that address

6983	3 - major	incorrect MTU value not handled in user friendly manner
3864	4 - minor	Remote access VPN interfaces in "show interfaces" may confuse users
5383	4 - minor	vif bonding dependancy requires bond-group to be applied to an interface
5452	4 - minor	dhcp under bonding interface can't get the lease during system boot
5491	4 - minor	Can't change tunnel endpoint address without re-creating tunnel interface
5965	4 - minor	dhclient depends on Vyatta config but shouldn't
6801	4 - minor	commit error when switching addresses on interfaces within same commit
6803	4 - minor	HW-ID not present on ethernet interfaces when running from a stick

IPv6		
6917	6 - enhancement	Implement radvd interface option AdvDefaultPreference

Kernel		
6792	2 - critical	Kernel crash following WARNING: at net/sched/sch_generic.c:261 dev_watchdog+0xaf/0x13e()
6847	2 - critical	BUG: unable to handle kernel NULL pointer dereference at (null)
7287	2 - critical	bridge not forwarding broadcast packets
5749	3 - major	Intel 82599 10 GbE NIC stops receiving
6334	3 - major	Broadcom 57711 10GbE NIC doesn't come up properly
7043	3 - major	No receive hashing on 10 GbE NICs
6833	6 - enhancement	Need to compile driver AX88772B_772A_760_772_178_Linux2.6.35_Driver_v3.5.0 in VSE6.2

Load Balancing		
6779	4 - minor	default route no longer created when using "nexthop dhcp" with pppoe interfaces
6850	5 - trivial	load-balancing help under destination should be changed
3191	6 - enhancement	ENH: Show command to view flow assignments when WAN Load Balancing is Configured
6959	6 - enhancement	Add the ability to run a user defined script to determine wan load-balancing interface health
6831	7 - unassigned	help text under set load-balancing wan interface-health <txt> failure-count should be changed

Logging		
3650	5 - trivial	"show log tail" should not be paged
6767	6 - enhancement	ENH: Debug output logs in /tmp should be written to a persistent file system

NAT		
3915	4 - minor	Update commit error help strings for NAT inside-address values

Netflow		
6846	5 - trivial	Typo in vyatta-show-acct.pl

OpenVPN		
6374	4 - minor	OpenVPN commit fails with mode server / topology subnet when subnet prefix length is /30 or greater
3588	6 - enhancement	openvpn - add ability on server to reset individual clients
3590	6 - enhancement	openvpn - add ability to reset interface

3603	6 - enhancement	openvpn - show commands
3640	6 - enhancement	openvpn - add ability on server to reject specific clients
4923	6 - enhancement	ENH: Add the ability to change the OpenVPN device type
6593	6 - enhancement	ENH: Allow openvpn client/server bridging.
6868	6 - enhancement	ENH: add a "reset" top-level verb for operation mode
6903	6 - enhancement	ENH: add option to push domain name/DNS suffix to OpenVPN clients
6992	6 - enhancement	ENH: openvpn-options parameter should be multinode
6912	7 - unassigned	unable to delete openvpn interface when description is configured
7235	7 - unassigned	ENH: auto-populate client names in completion under "reset openvpn client"
OSPFv3		
6419	4 - minor	Invalid interface in RIPNG or OSPFv3 config kills system startup
QoS		
7023	3 - major	Qos does not work on some VLAN configurations
RIP		
6911	4 - minor	remove rip packet detail op mode commands
Serial		
6759	4 - minor	serial-specific template packages are incorrectly included in virt ISO
SNMP		
6432	3 - major	cannot do an snmpwalk if ipv6 is disabled/blacklisted.
6874	4 - minor	interface aliases are SNMP accessible only for one digit indexes
6861	7 - unassigned	ifDescr with more than 10 interfaces in VC6.2
Snort VRT		
6597	4 - minor	snortvrt code uses duplicate hardcoded urls
Static Routes		
6816	3 - major	commit of static route should not be permitted when leaf statement such as next-hop is missing
6986	3 - major	static arp entry regression
6580	4 - minor	the 7th static arp entry wasn't displayed as a permanent one
4911	6 - enhancement	ENH: Add static route/interface description field
System		
7192	2 - critical	Passwords containing $ are not commited correctly
6830	3 - major	irq affinity confused by device renaming
6947	3 - major	Incorrect IRQ affinity configuration when NIC is part of a bond group
7062	3 - major	Auto IRQ affinity broken on NetXen NIC
6243	4 - minor	domain-name validation doesn't check maximum length correctly
6694	4 - minor	Syslog sets date/time in UTC even though timezone is set
6934	4 - minor	ERST table is invalid error recieved on Vyatta 3520 appliance
7059	4 - minor	show file <file-name> gives an error while being run as user type "operator"
1442	6 - enhancement	enhancement request: "show version" should indicate booted from

			device/partition
	4976	6 - enhancement	Allow Grub to boot from ext4 partition
	5498	6 - enhancement	ENH: Store files generated by op-mode commands in sub-directories of config/
	6592	6 - enhancement	ENH: Include Quagga config in show tech-support output
	6702	6 - enhancement	add new cpu summary
	6769	6 - enhancement	ENH: "show version" output needs to indicate virtualized/physical image type
	6810	6 - enhancement	ENH: standardize persistent locations for user-generated files referenced by configuration
	6811	6 - enhancement	ENH: add a proper post-configuration boot script
	7010	6 - enhancement	Update commands to save/retrieve files from /config
	7067	6 - enhancement	full-upgrade command should impel the user toward image-based upgrade
	7124	6 - enhancement	"show tech-support" filename should include .txt suffix
	7133	6 - enhancement	ENH: show tech-support save... commands should use new /config as path instead of /opt/vyatta/etc/config
	7326	6 - enhancement	ENH: Add /config/support directory to default file system
URL Filtering			
	6793	4 - minor	webproxy https filter needs to validate the configuration before modifying system
Virtual Environment			
	6756	3 - major	smp_affinity fails on ESX4 guest
	7223	3 - major	image-install incompatible with Xen virt
	6960	4 - minor	vmxnet driver irq's not named with ethX
	3789	6 - enhancement	ENH: Create Vyatta image with Xen Paravirtualized Drivers
VPN			
	5684	3 - major	/dev/urandom generates rsa keys that are not parsable by StrongSwan
	6057	3 - major	Invalid parsing of PKCS#7 w/ VPN
	6752	3 - major	PPTP is broken in mendocino 01.27.2011 iso
	5246	4 - minor	Windows clients cannot connect to multiple Vyatta L2TP servers which use unique X.509 CA certificates
	5305	4 - minor	VPN: "show vpn ipsec sa" reports incorrect SPIs when multiple SPIs are present in SAD structure.
	6068	4 - minor	VPN: perl errors with incomplete vpn site-to-site config
	6228	4 - minor	"show vpn ipsec sa detail" returns 'up' for inactive tunnels
	6229	4 - minor	ipsec site-to-site tunnel shouldn't allow duplicated local-subnet and remote-subnet
	7009	4 - minor	Mandatory L2TP parameter "outside-nexthop" should not be mandatory
	2103	6 - enhancement	VPN enhancement: "show vpn ipsec sa" should be sorted numerically by tunnel #
	2506	6 - enhancement	enhancement request: add vpn cli to not auto start tunnel
	2837	6 - enhancement	ENH: Change VPN key generation operational mode command to 'verb object' format

4079	6 - enhancement	Add command `clear vpn remote-access iface`
4132	6 - enhancement	Options needed for SonicWALL compatibility
4350	6 - enhancement	Support x509 certificate authentication for site to site VPN in the Vyatta CLI
4950	6 - enhancement	ENH: Need PPTP configuration with a dhcp learned outside-address
5313	6 - enhancement	ENH: Set MTU on PPTP remote-access server interfaces
5547	6 - enhancement	ENH: Allow adjustment of IKE lifetime for L2TP remote-access connections
5677	6 - enhancement	Setting Protocol/Port for IPSEC VPN tunnels
5802	6 - enhancement	DNS cache not updated: IPsec peers with canonical names / TTL ignored
6079	6 - enhancement	ENH: Assign fixed IP addresses to configured local-users in remote-access VPN services
6772	6 - enhancement	ENH: Use remote-access username and remote IP as interface alias/description
6797	6 - enhancement	New Operational Mode commands for IPSEC VPN
6842	6 - enhancement	Allow a dhcp-interface to be defined for all vpn services to listen on.
6659	7 - unassigned	IPsec/L2TP remote-access with dynamic IP; both ends
6783	7 - unassigned	Cut out the redundant esp-group line from tunnel configuration
6848	7 - unassigned	Add description to IPsec VPN show commands
VRRP		
6393	3 - major	keepalived shutdown too late - can cause lost traffic
5912	6 - enhancement	"show vrrp" doesn't list sync-group
6731	6 - enhancement	ENH: 'show vrrp' should include sync-group
Wireless		
6818	3 - major	Multiple HW-ID on wireless interfaces
7071	3 - major	Cannot setup wireless AP
5488	4 - minor	Not able to detect secutiry mechanisms of vyatta using client machine
7149	4 - minor	Can not configure 5Ghz channels
Wireless Modem		
7019	3 - major	Wireless modem network chat scripts are not preserved on upgrade or reinstallation

Known Issues

Bug ID	Description
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

	vtysh –c 'conf t' -c 'router bgp *local-asn*' -c 'no neighbor *peer-group-name* ebgp-multihop'
6030	Currently, BGP redistribution is not supported for both IPv4 and IPv6 at the same time. Recommended action: None.
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.
Bridging	
7164	In bridged environments where stp (Spanning Tree Protocol) is enabled, stp is taking a long time (several minutes) to stabilize when there are enough Vyatta systems present to form a bridging loop. Recommended action: Set the hello-time to 1 for all bridge interfaces on all systems involved.
CLI	
2654	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. Recommended action: Please note that the "configure" and "install-system" commands are not available to users with "operator" role. Recommended action: None

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 *Vyatta Basic System Reference Guide*.

7267	I-node exhaustion artificially limits the number of sets (or size of the loaded config) in a single commit. Recommended action: Run 'commit' more frequently so that no more than a few hundred 'sets' are applied in each commit.
7331	In previous releases, comments from a configuration migration could be removed by saving the configuration after a successful boot. This is no longer possible, because the "save" command no longer ignores comments. Recommended action: None.
7362	The "edit" command (in configuration mode) cannot be used to traverse the configuration tree. On occasion, if you use the "edit" command to navigate to a location other than the top level, the system returns a syntax error. Recommended action: If this problem occurs, exit "edit" mode and set the configuration option from the top level, using its full configuration path.
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
DHCPv6	
6844	Currently DHCPv6 doesn't properly distribute options when using SLAAC for addresses. A way to distribute these options is by making them global for the DHCP server instead of under a subnet block. Adding these options will give the DHCPv6 server more flexibility, and will make configuration easier if the options for an organization are the same for all subnets.
	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
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	
4983	Wanpipe ADSL Link status reads "Disconnected , 0x1" while link is connected on some circuits.
	Recommended action: None
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.
IPv6	
6900	IPv4-over-IPv6 and IPv6-over-IPv6 tunnels are currently unsupported.
	Recommended action: None
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
NAT	
5678	"show nat translations monitor" cannot currently be used to continuously monitor both source and destination NAT translations together.

	Recommended action: Monitor source and destination NAT translation separately using "show nat translations source monitor" and "show nat translations destination monitor".
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.
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
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.
Serial	
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.
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: • 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.
7183	Packet capture results indicate that the source address of SNMP trap is not changed if the address is set or modified. Even if the trap source is configured, the system uses its own IP address as the source IP of the trap. Recommended action: None.

Static Routes	
5905	If the distance for a static IPv6 route is updated or deleted, the change is not recorded in the routing engine. Recommended action: Delete the route, then set it again with the new distance.

System	
5792	When executed the 'show system image', 'show system image version', and 'show system image storage' commands on a livecd, the output is "Can not open Grub config file" and just the header with no information about storage respectively. The message is cryptic should indicate that it is not valid to run these commands on a livecd. Recommended action: None
6825	Possible memory leak in conntrack leading to page allocation failure Recommended action: None

Virtual Environment	
7314	The "show version" command is returning an extra line of information for hypervisors. Recommended action: None

VPN	
6839	A configuration change to "ipsec vpn pre-shared-secret" does not take effect immediately as it should. Recommended action: Restart the VPN process after changing the pre-shared secret, using the "restart vpn" command.
7084	A "restart vpn" command will fail with large numbers of configured tunnels. The maximum number of tunnels that can be configured depends on the hardware resources available on the system. Recommended action: None
7087	The PPTP and L2TP VPN services, it is possible to create local users without specifying a password and have the users be authenticated. Recommended action: Ensure that every local-user under "vpn remote-access" is assigned a password.
7092	The IPsec daemon fails if more than 301 interface addresses are configured. Recommended action: None

VRRP	
1819	Allow VRRP set to same address as interface address with auto 255 priority. Recommended action: None
6843	When the "conntrack sync" option is enabled, changing the size of the conntrack table causes the VRRP process to reload. Recommended action: If conntrack-sync is enabled, perform conntrack-table size changes only within a disruptive maintenance window whenever possible.
7093	With keepalived version 1.2.2, the VRRP "clear vrrp master" command does not work correctly, such that the expected 0 priority packet is not sent out; instead, IGMP leave/join messages are observed and three seconds later, the backup router takes over. Recommended action: None

Web GUI	
7239	The "delete system image" operation is not working on the web GUI. Recommended action: Use "delete system image ..." from the command line interface only.
7258	The Interactive command "generate->vpn->x509->key-pair" fails to execute. Recommended action: Use "generate vpn x509 ..." from the command line interface only.

7228	If HTTPS listen-address configuration is committed, the GUI fails.
	Recommended action: Modify the "service https listen-address" from the command line interface only.
7354	When Safari is used as the web browser, duplicate requests are sent to the server.
	Recommended action: None
Web Proxy	
4952	If the web proxy feature is configured together with clustering, both configurations may be lost.
	Recommended action: None