VYATTA, INC. | Release Notes

Vyatta Release 6.6R1

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Contents

These release notes document changes made for the Vyatta Release 6.6R1. These release notes include the following sections:

Security

This release resolves the following security bulletins:

- Bug ID 8803 - (Man-in-the-Middle attack) "lucky 13" has been exposed a vulnerability on OpenVPN TLS.
- Bug ID 8809 – DSA 2644-1 wireshark security update
- Bug ID 8825 – DSA security updates for Squeeze
- Bug ID 8859 - Vulnerability Scan Results - AWS Vyatta v6.5R3.

New Features in This Release

- **DMVPN.** This release of the Vyatta system introduces support for Dynamic Multipoint Virtual Private Networks (DMVPN). DMVPN uses the multipoint Generic Routing Encapsulation protocol (mGRE) with the Next Hop Resolution Protocol (NHRP), secured with IP Security (IPsec) to simplify complex network topologies, especially hub-and-spoke topologies, by allowing dynamic construction of secure tunnels. To support this feature, a new guide has been added: *Vyatta DMVPN Reference Guide*, which describes how to deploy DMVPN on the Vyatta system. New support for mGRE is described in the Vyatta Tunnels Reference Guide, and new support for the NHRP addressing service is described in the *Vyatta Services Reference Guide.*

  This feature is only available in the Vyatta Subscription Edition (VSE).

- **Multicast Routing.** In this release, the Vyatta system introduces support for multicast routing. In addition to basic multicast route management, support includes Protocol Independent Multicast (PIM) for IPv4 and IPv6, and Internet Group Management Protocol (IGMP) with Multicast Listener Discovery (MLD). PIM support includes PIM Sparse Mode (PIM-SM), PIM Dense Mode (PIM-DM), and PIM source-specific multicast (PIM-SSM).

  SNMP MIB support added for multicast includes IPM-ROUTE (RFC 2932, *IPv4 Multicast Routing MIB*), PIM-MIB (RFC 2934, *Protocol Independent Multicast MIB for IPv4*), IGMP-MIB (RFC2933, *Internet Group Management Protocol MIB*), and IPv6-MLD-MIB (RFC 3019, *IP Version 6 Management Information Base for The Multicast Listener Discovery Protocol*).

  This feature is only available in the VSE.

- **SNMPv3.** In this release, the Vyatta system introduces support for Simple Network Management Protocol version 3 (SNMPv3). SNMPv3 adds security features to the earlier versions of SNMP. The SNMPv3 architecture supports the User-based Security Model (USM) and the Transport Security Model (TSM) for message security and the View-based Access Control Model (VACM) for access control. Data integrity, data origin authentication, data confidentiality, and message timeliness and replay protection are the security services implemented in SNMPv3. See the *Vyatta Remote Management Reference Guide* for information about SNMPv3.

- **GUI updates for HA and QoS.** This release supports GUI updates for HA and QoS.

Behavior Changes

- **P2P firewalling functionality deprecated.** In this release, P2P firewalling is deprecated. Support will be completely removed from the Vyatta system in a future release.
- **Serial card support deprecated.** In this release, serial card support is deprecated. Support will be completely removed from the Vyatta system in the next release. This includes support for Serial interfaces, Serial line testing, DSL interfaces, Wireless Modem interfaces, Cisco HDLC, Frame Relay, Classical IPoA, Bridged Ethernet, PPP, PPPoE (over DSL), PPPoA, and Multilink PPP.
- **RAID support deprecated.** In this release, RAID support is deprecated. Support will be completely removed from the Vyatta system in the next release.
- **IPS support deprecated.** In this release, the IPS support has been deprecated. Support will be completely removed from the Vyatta system in a future release.
- **VyattaGuard support deprecated.** In this release, the VyattaGuard support has been deprecated. Support will be completely removed from the Vyatta system in a future release.

System Limitations

Limitations on SR-IOV virtual function (VF) interfaces. In most cases, the Vyatta system works properly over virtual function interfaces (SR-IOV). However, for some Ethernet network interface cards (NICs) (for example, Intel NICs) in virtual environments where SR-IOV has been enabled, some functionality is not supported. For example, the following is not supported:

- Promiscuous mode: Breaks bridging and reduces packet capture
- Source address: Breaks pseudo-Ethernet and VRRP
- Multiple receive queues: Limits performance

Since these are hardware limitations, the only workaround is to use an alternative connectivity method, such as PCI pass-through, or disable SR-IOV if your hypervisor supports it.

Documentation Changes

In addition to the documentation for new features described above, the following changes have been made to the Vyatta Technical Publications library:

- Existing VPN documentation has been reorganized into several guides for additional clarity. A new short guide summarizing Vyatta support for VPNs has been added, and a new guide describing support for the new DMVPN guide has been added. The suite of guides describing Vyatta VPN support is now as follows::
  - *Vyatta Guide to VPN Support*
  - *Vyatta IPsec Site-to-Site VPN Reference Guide*
  - *Vyatta Remote Access VPN Reference Guide*
  - *Vyatta Open VPN Reference Guide*
  - *Vyatta DMVPN Reference Guide*
- The IPS chapter was removed from the Security guide.
- A new category has been introduced into the Vyatta Technical Publications library: "Multicast Routing." This guide contains the following new guides:
  - *Vyatta Multicast Routing Reference Guide*
  - *Vyatta PIM Reference Guide*
  - *Vyatta IGMP and MLD Reference Guide*

  To correspond, the existing "Routing" category in the library has been renamed "Unicast Routing."

Upgrade Notes

- **Upgrading 64-bit systems.** Changes to the system images in Release 6.5 mean that the "upgrade system image" command will not succeed for systems running a 64-bit virt image. If you are running a 64-bit virt image earlier than Release 6.5, upgrade your system using the "add system image" command.
- **Installing 64-bit systems in virtual environments.** For 32-bit systems, Vyatta produces one ISO image for physical system installations and another, separate, "virt" ISO for virtual system installations. For 64-bit systems, Vyatta produces a single ISO image, which is used for both physical and virtual 64-bit system installations.
- **Upgrading systems using "firewall modify."** The "firewall modify" functionality is unsupported. The supported equivalent functionality is policy-based routing, introduced in this release. If you are currently using "firewall modify" functionality, be advised that no migration scripts are provided in this release. If you intend to continue using "firewall modify" functionality, manual migration is required and Vyatta recommends that you upgrade and test your systems in a lab environment prior to going into production. Alternatively, to remove "firewall modify" functionality from your system, first remove the "firewall modify" configuration node from any interfaces on which it is configured. Then

remove the “firewall modify” configuration subtree, using the “delete firewall modify” command. Commit and save this configuration change before upgrading to Release 6.5.

- **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.

CLI Changes

Configuration Mode Parameters	Type of Change	Reason / Comment
interfaces tunnel <tunx> encapsulation gre-multipoint	Added	DMVPN
interfaces tunnel <tunx> nhrp	Added	DMVPN
interfaces tunnel <tunx> nhrp authentication <secret>	Added	DMVPN
interfaces tunnel <tunx> nhrp dynamic-map nbma-domain <nbma-domain-name>	Added	DMVPN
interfaces tunnel <tunx> nhrp dynamic-map protocol-address <addr>/<prefix>	Added	DMVPN
interfaces tunnel <tunx> nhrp holding-time <time>	Added	DMVPN
interfaces tunnel <tunx> nhrp map <addr>/<prefix> nbma-address <nbma-addr>	Added	DMVPN
interfaces tunnel <tunx> nhrp map <addr>/<prefix> register	Added	DMVPN

Configuration Mode Parameters	Type of Change	Reason / Comment
interfaces tunnel <tunx> nhrp map <addr>/<prefix> register-no-unique	Added	DMVPN
interfaces tunnel <tunx> nhrp multicast parameters	Added	DMVPN
interfaces tunnel <tunx> nhrp multicast protocol-address <addr>	Added	DMVPN
interfaces tunnel <tunx> nhrp redirect	Added	DMVPN
interfaces tunnel <tunx> nhrp shortcut	Added	DMVPN
interfaces tunnel <tunx> nhrp shortcut-destination	Added	DMVPN
interfaces tunnel <tunx> nhrp shortcut-target holding-time <time>	Added	DMVPN
interfaces tunnel <tunx> nhrp shortcut-target protocol-address <addr>/<prefix>	Added	DMVPN
vpn ipsec profile <profile-name>	Added	DMVPN
vpn ipsec profile <profile-name> authentication mode <mode>	Added	DMVPN
vpn ipsec profile <profile-name> authentication pre-shared-secret <secret>	Added	DMVPN
vpn ipsec profile <profile-name> bind tunnel <tunx>	Added	DMVPN
vpn ipsec profile <profile-name> esp-group <name>	Added	DMVPN
vpn ipsec profile <profile-name> ike-group <name>	Added	DMVPN
interfaces <type> <name> ip igmp	Added	Multicast Routing
interfaces <type> <name> ip igmp access-group <acl>	Added	Multicast Routing
interfaces <type> <name> ip igmp immediate-leave group-list <acl>	Added	Multicast Routing
interfaces <type> <name> ip igmp join-group <ipv4>	Added	Multicast Routing
interfaces <type> <name> ip igmp last-member-query-count <count>	Added	Multicast Routing
interfaces <type> <name> ip igmp last-member-query-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ip igmp limit <limit>	Added	Multicast Routing
interfaces <type> <name> ip igmp limit-exception <acl>	Added	Multicast Routing
interfaces <type> <name> ip igmp offlink	Added	Multicast Routing
interfaces <type> <name> ip igmp querier-timeout <timeout>	Added	Multicast Routing

Configuration Mode Parameters	Type of Change	Reason / Comment
interfaces <type> <name> ip igmp query-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ip igmp query-max-response-time <time>	Added	Multicast Routing
interfaces <type> <name> ip igmp enforce-router-alert	Added	Multicast Routing
interfaces <type> <name> ip igmp robustness-variable <var>	Added	Multicast Routing
interfaces <type> <name> ip igmp static-group <ipv4>	Added	Multicast Routing
interfaces <type> <name> ip igmp startup-query-count <count>	Added	Multicast Routing
interfaces <type> <name> ip igmp startup-query-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ip igmp version <version>	Added	Multicast Routing
interfaces <type> <name> ip multicast ttl-threshold <ttl>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld	Added	Multicast Routing
interfaces <type> <name> ipv6 mld access-group <acl6>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld immediate-leave group-list <acl6>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld last-member-query-count <count>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld last-member-query-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld limit <limit>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld mroute-proxy <interface>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld proxy-service	Added	Multicast Routing
interfaces <type> <name> ipv6 mld querier-timeout <timeout>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld query-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld query-max-response-time <time>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld robustness-variable <var>	Added	Multicast Routing
interfaces <type> <name> ipv6 mld static-group <ipv6>	Added	Multicast Routing

Configuration Mode Parameters	Type of Change	Reason / Comment
interfaces <type> <name> ipv6 mld version <version>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim bsr-border	Added	Multicast Routing
interfaces <type> <name> ipv6 pim mode <mode>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim dr-priority <priority>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim exclude-genid	Added	Multicast Routing
interfaces <type> <name> ipv6 pim hello-holdtime <time>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim hello-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim neighbor-filter <acl6>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim propagation-delay <delay>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim state-refresh origination-interval <interval>	Added	Multicast Routing
interfaces <type> <name> ipv6 pim unicast-bsm	Added	Multicast Routing
protocols igmp limit <limit>	Added	Multicast Routing
protocols igmp ssm-map	Added	Multicast Routing
protocols igmp ssm-map static <acl> source <ipv4>	Added	Multicast Routing
protocols mld limit <limit>	Added	Multicast Routing
protocols mld ssm-map	Added	Multicast Routing
protocols mld ssm-map static <acl6> source <ipv6>	Added	Multicast Routing
protocols multicast ip routing	Added	Multicast Routing
protocols multicast ip route-limit <limit>	Added	Multicast Routing
protocols multicast ipv6 routing	Added	Multicast Routing
protocols multicast ipv6 route-limit <limit>	Added	Multicast Routing
protocols pim accept-register list <acl>	Added	Multicast Routing
protocols pim anycast-rp <ipv4> anycast-rp-peer <peer-ipv4>	Added	Multicast Routing
protocols pim bsr-candidate <interface>	Added	Multicast Routing
protocols pim ignore-rp-set-priority	Added	Multicast Routing
protocols pim join-prune-timer <time>	Added	Multicast Routing
protocols pim legacy-register-checksum	Added	Multicast Routing
protocols pim register-kat <num>	Added	Multicast Routing

Configuration Mode Parameters	Type of Change	Reason / Comment
protocols pim register-rate-limit <limit>	Added	Multicast Routing
protocols pim register-rp-reachability	Added	Multicast Routing
protocols pim register-source address <ipv4>	Added	Multicast Routing
protocols pim register-suppression-timer <time>	Added	Multicast Routing
protocols pim rp-address <ipv4>	Added	Multicast Routing
protocols pim rp-candidate <interface>	Added	Multicast Routing
protocols pim spt-threshold	Added	Multicast Routing
protocols pim ssm default	Added	Multicast Routing
protocols pim ssm list <acl>	Added	Multicast Routing
protocols pim6 accept-register list <acl6>	Added	Multicast Routing
protocols pim6 anycast-rp <ipv6> anycast-rp-peer <peer-ipv6>	Added	Multicast Routing
protocols pim6 bsr-candidate <interface>	Added	Multicast Routing
protocols pim6 ignore-rp-set-priority	Added	Multicast Routing
protocols pim6 join-prune-timer <time>	Added	Multicast Routing
protocols pim6 legacy-register-checksum	Added	Multicast Routing
protocols pim6 register-kat <num>	Added	Multicast Routing
protocols pim6 register-rate-limit <limit>	Added	Multicast Routing
protocols pim6 register-rp-reachability	Added	Multicast Routing
protocols pim6 register-source address <ipv6>	Added	Multicast Routing
protocols pim6 register-suppression-timer <time>	Added	Multicast Routing
protocols pim6 rp-address <ipv6>	Added	Multicast Routing
protocols pim6 rp-candidate <interface>	Added	Multicast Routing
protocols pim6 spt-threshold	Added	Multicast Routing
protocols pim6 ssm default	Added	Multicast Routing
protocols pim6 ssm list <acl6>	Added	Multicast Routing
service snmp v3 group <groupname>	Added	SNMPv3
service snmp v3 group <groupname> mode <mode>	Added	SNMPv3
service snmp v3 group <groupname> view <viewname>	Added	SNMPv3
service snmp v3 trap-target <addr>	Added	SNMPv3
service snmp v3 trap-target <addr> auth encrypted-key <passwd>	Added	SNMPv3
service snmp v3 trap-target <addr> auth plaintext-key <passwd>	Added	SNMPv3

Configuration Mode Parameters	Type of Change	Reason / Comment
service snmp v3 trap-target <addr> auth type <type>	Added	SNMPv3
service snmp v3 trap-target <addr> engineid <engineid>	Added	SNMPv3
service snmp v3 trap-target <addr> port <port>	Added	SNMPv3
service snmp v3 trap-target <addr> privacy encrypted-key <priv-key>	Added	SNMPv3
service snmp v3 trap-target <addr> privacy plaintext-key <priv-key>	Added	SNMPv3
service snmp v3 trap-target <addr> privacy type <type>	Added	SNMPv3
service snmp v3 trap-target <addr> protocol <protocol>	Added	SNMPv3
service snmp v3 trap-target <addr> type <type>	Added	SNMPv3
service snmp v3 trap-target <addr> user <username>	Added	SNMPv3
service snmp v3 tsm	Added	SNMPv3
service snmp v3 tsm local-key <local-key>	Added	SNMPv3
service snmp v3 tsm port <port>	Added	SNMPv3
service snmp v3 user <username> auth plaintext-key <passwd>	Added	SNMPv3
service snmp v3 user <username> auth type <type>	Added	SNMPv3
service snmp v3 user <username> group <groupname>	Added	SNMPv3
service snmp v3 user <username> mode <mode>	Added	SNMPv3
service snmp v3 user <username> privacy plaintext-key <priv-key>	Added	SNMPv3
service snmp v3 user <username> privacy type <type>	Added	SNMPv3
service snmp v3 user <username> tsm-key <key>	Added	SNMPv3
service snmp v3 view <viewname>	Added	SNMPv3
service snmp v3 view <viewname> oid <oid>	Added	SNMPv3

Operational Mode Commands	Type of Change	Reason / Comment
show ip nhrp tunnel	Added	DMVPN
show ip nhrp tunnel <tunx>	Added	DMVPN
reset ip nhrp flush tunnel	Added	DMVPN
reset ip nhrp flush tunnel <tunx>	Added	DMVPN
reset ip nhrp purge tunnel	Added	DMVPN
reset ip nhrp purge tunnel <tunx>	Added	DMVPN
clear ip mroute statistics	Added	Multicast Routing
clear ipv6 mroute statistics	Added	Multicast Routing
monitor protocol multicast	Added	Multicast Routing
monitor protocol multicast pim	Added	Multicast Routing
reset ip igmp	Added	Multicast Routing
reset ip igmp group <ipv4>	Added	Multicast Routing
reset ip igmp interface <interface>	Added	Multicast Routing
reset ip mroute	Added	Multicast Routing
reset ip pim sparse-mode bsr rp-set	Added	Multicast Routing
reset ipv6 mld	Added	Multicast Routing
reset ipv6 mroute	Added	Multicast Routing
reset ipv6 pim sparse-mode bsr rp-set	Added	Multicast Routing
show debugging mrib	Added	Multicast Routing
show ip igmp groups	Added	Multicast Routing
show ip igmp interface	Added	Multicast Routing
show ip igmp ssm-map	Added	Multicast Routing
show ip mroute	Added	Multicast Routing
show ip multicast	Added	Multicast Routing
show ip pim	Added	Multicast Routing
show ip pim interface	Added	Multicast Routing
show ip pim mroute	Added	Multicast Routing
show ip pim neighbor	Added	Multicast Routing
show ip pim nexthop	Added	Multicast Routing
show ip pim bsr-router	Added	Multicast Routing
show ip pim local-members	Added	Multicast Routing
show ip pim rp-hash	Added	Multicast Routing
show ip pim rp-mapping	Added	Multicast Routing
show ipv6 mld groups	Added	Multicast Routing

Operational Mode Commands	Type of Change	Reason / Comment
show ipv6 mld interface	Added	Multicast Routing
show ipv6 mld ssm-map	Added	Multicast Routing
show ipv6 mroute	Added	Multicast Routing
show ipv6 multicast	Added	Multicast Routing
show ipv6 pim	Added	Multicast Routing
show ipv6 pim interface	Added	Multicast Routing
show ipv6 pim mroute	Added	Multicast Routing
show ipv6 pim neighbor	Added	Multicast Routing
show ipv6 pim nexthop	Added	Multicast Routing
show ipv6 pim bsr-router	Added	Multicast Routing
show ipv6 pim local-members	Added	Multicast Routing
show ipv6 pim rp-hash	Added	Multicast Routing
show ipv6 pim rp-mapping	Added	Multicast Routing
show monitoring protocols multicast pim	Added	Multicast Routing
show monitoring protocols multicast pim6	Added	Multicast Routing
show snmp v3 certificates	Added	SNMPv3
show snmp v3 group	Added	SNMPv3
show snmp v3 trap-target	Added	SNMPv3
show snmp v3 user	Added	SNMPv3
show snmp v3 view	Added	SNMPv3

Resolved Issues

Bug ID	Severity	Description
AMI		
8474	minor	Use ssh public key credentials for authentication in AWS
8796	trivial	Need to update PV-GRUB
BGP		
8382	major	Typographical error in vyatta-bgp.pl causes Use of uninitialized value $protocol in numeric eq (==) at /opt/vyatta/sbin/vyatta-bgp.pl line 1246
Branch Maintenance		
8012	enhancement	Upgrade net-snmp to latest LTS version
8749	minor	Update to maintance release of Debian Squeeze
8809	major	[DSA 2644-1] wireshark security update
8825	major	DSA security updates for Squeeze
CLI		

Bug ID	Severity	Description
8393	minor	Add system image does not glob or do filename completion
Connection Tracking		
7972	minor	Provide an error message for failure on commit for tcp and udp custom timeouts
8520	enhancement	Provide a conntrack memory leak detection infrastructure
DHCP		
4278	major	DHCP doesn't work with the same IP address statically assigned to multiple MAC addresses
5586	minor	DHCP-server commit succeeds even when DHCPd terminates on launch
Entitlement		
8640	major	WebGUI reports 'Failed to parse server' without eth0
Firewall		
6860	enhancement	ENH: Add a "reset firewall group" command to resolve ipset incongruity
8485	major	Firewall commit failures can require a reboot to recover
8489	major	Deleting firewall rules can cause iptables to get out of sync with configuration
Installer		
8886	enhancement	Autologin to Vyatta user on initial ISO boot
Interface		
8526	trivial	Help text for tunnels needs updating for DMVPN - remote-ip is no longer [REQUIRED]
8538	minor	Virtio interfaces cause errors in commit log
8832	major	Race between ethernet and dataplane interfaces during rename at boot
8839	minor	Deleting ethernet device doesn't disable it
IPv6		
8711	major	System returns unexpected message while deleting the disable-forwarding config for IPv6."sh: line 17: [: too many arguments"
Kernel		
8837	critical	System crashes during link failover (OSPF) on gigabit link
Logging		
8237	minor	When changing system host-name, system continues to log using the old host-name
8427	minor	"show system boot-messages all" returns "Nothing has been logged yet" which should be suppressed when appropriate
NAT		
8337	major	nat rule port with multiple ports value shouldn't be disallowed
OpenVPN		
8840	minor	OpenVPN daemon restarts every time even if config is the same
Platform		
8688	major	"upgrade system image" command segfaults when repository iso/stable index exceeds ~8Kbyte
8749	minor	Update to maintenance release of Debian Squeeze

Bug ID	Severity	Description
Security		
8803	critical	(Man-in-the-Middle attack) "lucky 13" has been exposed a vulnerability on OpenVPN TLS
8859	critical	Vulnerability Scan Results - AWS Vyatta v6.5R3
SNMP		
4020	enhancement	ENH: SNMP: Add support for SNMPv3 authentication and security parameters
8199	major	SNMP extensive use of CPU with BGP full routing table
Static Routes		
7428	major	ENH: when both "system gateway-address" and "protocols static 0.0.0.0/0" are configured, system should provide a warning on commit
8511	major	No option to add next-hop/blackhole in Static Route using GUI
System		
5797	minor	Command to shutdown the system with no prompt
7856	minor	Default ARP table size is too small
8020	major	Traffic capture uses all available disk space
8686	minor	Interface reordering on XenServer
8829	minor	A message "Unknown option: no-restart-services" is seen after commit
URL Filter		
8841	major	VyattaGuard cannot load after system reboot
Virtualization		
8426	enhancement	Upgrade open-vm-tools to 9.0
Web GUI		
6440	major	Gui2 user is able to access the system via gui with http server
8047	enhancement	WebGUI: Statistics tab should display interface descriptions next to each interface name
8436	trivial	Interface missing from GUI after configured a bonding interface

Known Issues

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 vtysh –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.
CLI	
6902	The Vyatta CLI does not properly support double quotes in configuration values. Recommended action: Avoid using the double quote character (“) in configuration strings.
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	
6965	The "show firewall" command returns incorrect information for 'packets' and 'bytes' after some million packets are traversed. Recommended action: None.
7733	A connection tracking table larger than 1 MB causes a kernel memory allocation failure, leading to a system crash. The firewall allows the user to set the conntrack table size larger than the available kernel memory can support. Recommended action: Avoid setting the size of the conntrack table larger than 1 MB.
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.

Bug ID	Description
8306	While installing the system is reporting that it detects RAID groups and two drives on a system booted from LiveCD. This appears to be a driver problem. Recommended action: None.
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.
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.
8322	Emulated network interface (driver tulip) shows link down, fails to come up in Hyper-V An emulated network adapter using the “Tulip” driver fails when booted from LiveCD. The link is not detected and the link status shows as "down." Recommended action: To avoid this issue, use a synthetic network adapter. If this issue occurs, clear the link by shutting down the link administratively and bringing it up again.
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.
Netflow	
8424	If an interface is added after the Netflow server is defined, the system displays a "flow-accounting is not running" message. Recommended action: If this issue occurs, restore normal function by saving configuration, then deleting flow accounting configuration, then loading and committing the saved configuration.
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.

Bug ID	Description
Platform	
7494	A kernel panic occurred for a XenServer guest during a boot in PV mode. The issue occurred using the 3.0.4 virt kernel prepared using the “install-image” command. Recommended action: To avoid this problem, use the “add system image” or “upgrade system image” commands to install or upgrade your system.
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.
8329	In ”policy access-list”, a rule is sent to the routing engine but is not marked committed when the commit fails due to another rule. Recommended action: None
8340	The output of the “show policy” command includes unnecessary and irrelevant information. Recommended action: None.
8341	The output of the “show policy” command does not include policy table information. Recommended action: None.
8342	When a policy rule set was modified to refer to an unused table and configuration is committed, an internal error occurs. Recommended action: None.
8343	If a routing policy rule is deleted and the deletion committed, then the rule is removed from interface configuration and the change configured, the system fails the deletion, reporting an error. Recommended action: None.
8354	In routing policy rules, the system should prevent configuring “action drop” and “set” options at the same time. Recommended action: None.
8364	If a routing policy rule is already applied to an interface, then if the rule is modified to include the “set tcp-mss” option, the system fails to commit the configuration change. If the policy route <> is already set under an interface, then internal error when it's modified/committed with set tcp-mss - Recommended action: None.
RIB	
7952	If a static route is configured to exit through an interface and that interface is subsequently configured with an IP address, the static route is lost from the RIB. Recommended action: None.
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.

Bug ID	Description
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	
6952	The system reports the following message if it boots immediately prior to receiving a login prompt: ata2: failed to resume link (SControl 0) Recommended action: None. This issue is display-only.
Virtualization	
8333	Microsoft's System Center Virtual Machine Manager 2008 displays a warning when a guest VM is created , using either an ISO or a virtual hard disk. The "VM create" job completes with the following warning message: Virtual Machine Manager cannot locate the boot or system volume on virtual machine. The resulting virtual machine might not start or operate properly. However, the virtual machine starts and operates correctly. Note that if the Hyper-V Manager is used to create the guest VM, no warning is displayed. Recommended action: This warning has no operational effect and can be safely ignored.
VPN	
8359	Deletion and adding vti deletes vti interface in show interfaces output though vti configuration exists Recommended action: None.
8420	If an IPv6 site-to-sitepeer address is configured with all zeros (the "wildcard" address), the system converts the address the IPv4 version, 0.0.0.0. As a result, the tunnel not able to attain an ISAKMP SA established state. Recommended action: None.
8430	If the IPsec process starts and assigns a default route before the DHCP server has assigned the IP address to the DHCP client, the tunnel fails to come up. Recommended action: If this occurs, restart IPsec process; the tunnel will be brought up correctly.
VRRP	
7703	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. Recommended action: None.
Web GUI	
7354	When Safari is used as the web browser, duplicate requests are sent to the server. Recommended action: Use supported web browsers: Firefox, Chrome, and Internet Explorer.
Web Proxy	
4952	If the web proxy feature is configured together with clustering, both configurations may be lost. Recommended action: None.