Fixes and Features by Version

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Release version 4.1.1u1 (May 2018)

- Fix issue with session ID

- Fix IP alias routing issue

- Fix APN persistence on some cellular modems

- Fix APN settings change not always applied with auto SIM

- Fix DHCP address flapping when device under heavy load

- Fix LPK certificate check disable

- Fix rare IP Passthrough issue where outbound connections were blocked

- Fix dashboard widget showing unknown interface address

- Fix ethernet-ethernet failover restore issue

- Improve system startup time

- Improve UI to only allow valid failover configurations

- Improve flash memory error correction and recovery

- Improve SIM-to-SIM failover

- Add support for anonymous binds for LDAP public key SSH retrieval

- Add SIM slot auto-detection on dual-sim devices

- Add MTU settings for ethernet devices

- Add support for per-interface IPv6 default routes

- Add support for APC AP8959 PDU new firmware

- Add support for APC 7900 PDU new firmware

- Fix Wi-Fi KRACK vulnerability

- Fix bond and bridge link-down handling

- Fix management LAN configuration

- Fix LDAP trusted certificate use

- Fix nrpe user permissions for environmental data

- Fix spurious 'no swap space' SNMP trap

- Fix ports permission issue for 'users' group

- Fix port forwarding routing issue

- Fix session timeout changes not being applied

- Fix firewall block breaking console login

- Fix argument limit with node-command

- Fix primary port used for SSH and telnet for serial port aliases

- Improve per-interface route management

- Improve error message from power control utilities

- Upgrade dnsmasq to 2.78

Release version 4.1.0u3 (October 2017)

- Fix Radio Access Technology selection update on 3G/GSM modems

- Fix web terminal access to serial ports

- Fix NTP service after upgrade from factory settings

- Fix failing firmware upgrades when initiated over SSH without a tty

- Fix framed UI usage under Lighthouse

- Fix support for authorized access to logs on non-FAT storage

- Fix diagnostic interface issues with cellular modem control tool

- Fix issue with LTE cellular modem drivers in CDK builds

- Fix gateway discovery with some cellular networks

- Fix unresponsive UI after running template wizard

- Fix quietened console diagnostic output during firmware upgrade

- Add support for IPv6 address configuration from DHCPv6

- Add support for ZTP (Zero Touch Provisioning) over DHCPv6

- Add support for configurable cellular interface network masks

- Add support for SNMP ipSystemStatsOutFragOKs properties

- Add support for opt-in automated cellular modem firmware updates

- Add support for IPv6 aliases of serial port services

- Improve web terminal security

- Remove unused rssh tool

- Add support for USB port power control from CLI

- Fix Cisco USB console speed change issue

- Fix network interface reset issue during reconfiguration

- Fix IP passthrough padding issue with older Cisco devices

- Fix multi-homed routing issue when NAT forwarding is in use

- Improvements to CP210x USB serial driver

- Add support for USB port power control from CLI

- Add support for Cisco ASR USB consoles

- Add SNMP events and autoresponse support for CLI session logins

- Add support for APC AP7998 24-port PDU

- Add USB console information to customer support report

- Add support for USB consoles that look like modems

- Add support for Microchip-based USB consoles

- Add support for longer DHCP options

- Add sudo access to users with admin role

- Add more information shown for Sierra CDMA modems

- Add USB information displayed by pmstats tool

- Add netflash error reporting

- Add web UI text for DHCP configuration

- Add logging of malformed DHCP messages with ZTP

- Fix cases where the hardware clock wasn't always being initialized

- Fix SMS reliability issues

- Fix OpenVPN network configuration issue with static keys

- Fix OpenVPN deadlock issue with filesystem driver

- Fix asymmetric UDP SNMP replies

- Fix sending unnecessary SNMP traps

- Fix sshd concurrent connection limit to 100

- Fix rare bug where Apply button would have no effect

- Fix backslash handling in callhome passwords

- Add extra HTTP header to help defend against clickjacking

- Add connection state matching options to firewall rules (new vs. established/related)

- Add support for semi-colon characters in SNMP 'Location' field

- Add extra configuration options for Brute Force Protection (ban lifetime, login attempts before trigger)

- Update timezone data to most recent, to fix Turkey timezone

- Fix potential buffer overflow in SSH

- Fix corner cases of utmp filling up tmp and preventing web login

- Fix issue with RTC not setting time properly on boot for some devices

- Fix issue with detection of cellular MCC and MNC information

- Fix issues with SNMP v3 traps using automatically generated engine IDs

- Fix issue using serial cascading with remote authentication

- Fix issue with roaming cellular data connections reconnecting automatically after a reboot

- Fix issue with ethernet connection link speed when not using autonegotiation

- Fix potential netflash failure when running netflash without a console (eg. ZTP)

- We no longer bring up the 192.168.0.1 default static address if it's already in use elsewhere on the network

Release version 3.16.6u1 (November 2016)

- Fix CVE-2016-5195 (dirtyc0w)

- Fix issue where root user was unable to log into UI

- Fix config restore process breaking existing AAA users

- Fix issue where LES11xxA was not keeping date and time across reboots

- Fix Huawei modem control software memory leak

- Add ability to set more fine-grained permissions for remote users

- Add support for monitoring power supply status via SNMP

- Display dormant interface status in Dashboard connection summary

- Add device firmware upgrade via ZTP

- Update timezone information

- Reduced memory usage for LES120xA

- Allow disabling of accounting in RADIUS and TACACS+ configuration

- Add support for obfuscation of AAA authentication passwords in device configuration file

- Modified mount options for USB drives to improve I/O performance

- Support asserting DTR on serially-connected device during pmshell session

- Report interface name as LLDP port ID

- Update OpenSSL to version 1.0.1u

- Fix pmshell group not taking precendence over admin group for shell choice

- Fix custom firewall scripts not run on reboot

- Fix Huawei modem disconnecting session

- Fix single SMS being received twice on Huawei modems

- Fix SNMP for PM3000 single-bank PDU

- Fix inaccessible webshell ports on cascaded devices

- Fix internal modem not displayed in UI for LES120xA

- Fix memory leaks in cellctl

- Fix cellctl not cleaning up socket files properly on exit

- Fix remote AAA users being unable to run ssh

- Handle empty/missing SNMP values in ogPowerSupplyTable

- Fix intermittent boot issues with high port count devices

- Add USB console support

- Add support for LLDP

- Add IE11/Edge support for WebShell

- Add warning to UI about port logging capturing passwords

- Add ability to set APN on Verizon cellular devices

- Add support for Liebert Network Attached PDUs

- Improve cellular stability

- Fix validation of user-supplied SSL certificates

- Fix interface for editing multiple serial ports

- Fix garbage characters when editing XML config

- Fix erroneous temperature readings on internal temperature sensor (LES150xA)

- Fix problem with IP Passthrough service intercepts with default gateway configured

- Fix portmanager errors to be more descriptive

- Fix rare firmware upgrade failure happening under certain conditions

- Fix resubmit dialog loop on Microsoft Edge

- Fix environmental status information in SNMP when no values available

- Fix issue with losing dial connection settings after carrier change

- Fix issue with cellular APNs that require username and password

- Fix modem watchdog interaction with dual sim failover and autoresponse

- Fix possible race condition during SIM select

- Fix UI ethernet media selection to add gigabit option

- Fix cellular firmware update sometimes deleting firmware files

- Fix issue with connection manager not terminating some 'start' commands properly

- Fix SIM unlocking in UI

- Fixed issue where inaccessible ports were visible to unprivileged users on Port Logs page

- Fix setting cellular authentication method

- Fix SNMPv3 username not allowing hyphen or underscore characters

- Fix spurious SNMP syslog message

- Fix issue persisting Radio Access Technology setting from UI

- Fix issue with changing carrier to currently selected carrier

- Fix issue polling CDMA modem stats while modem is resetting

- Fix error when connecting on 2G cellular network

- Fix issue starting NTP with DHCP network interface and NTP server by IP

- Fix issue using unauth SSH direct to serial port 30

- Fix issue with external USB v92 modems not appearing in UI

- Fix issue with network dashboard widget information for bridged/bonded connections

- Fix issue with on-device ssh client remote host key verification for non-root users

- Fix output of command line 'pmstats' command

- Fix issue running 'setfset' and 'showserial' commands as non-root admin user

- Fix issue with traffic counter accuracy on outgoing traffic for cell modems

- Fix issue with reliability of cell modem enumeration after modem reset

- Fix issue where changing SNMP community string would not automatically restart SNMP service

- Fix spurious error when running support report generator on devices without modem

- Add support for ZTP via custom bash script

- Improve cellular stability

Release version 3.16.4u2 (March 2016)

- Fix dual-sim failover not always working on dual-sim cellular models

- Fix NFS unmounting of remote shares not working

- Fix SNMPv3 usernames incorrectly not allowing numbers

- Fix ssh direct to serial ports failing on high number serial ports

- Fix duplicate fields on CDMA settings page

- Add MD5 ssh key fingerprints to support reports

- Fix cellular PAP settings not persisting

- Other security fixes

Release version 3.16.4u1 (February 2016)

- Fix issue with XHCI Controller Detection

Release version 3.16.4 (January 2016)

- Upgrade OpenSSH to version 7.1p2

- Upgrade OpenSSL to version 1.0.1p

- Update default TLS cipher list to Mozilla Intermediate Compatibility recommended settings

- Add support for new Servertech PRO UPS MIB

- Add support for retrieving SSH public keys over LDAP (SSH LPK)

- Add TCP SYN traceroute support (via the -T option)

- Add unauthenticated SSH and telnet services for serial port IP aliases

- LES150xA: Fix serial flow control not working on top four ports

- Fix incorrect version string appearing in CDK builds

- Fix Some SNMPv3 username lengths causing authentication to fail

- Fix IP Pass Through mode not overlooking existing DHCP setup

- Fix SNMP EMD DIO values not updating

- Fix incorrect date being presented on modem firmware update page

- Fix adding extra white space in text fields could break firewall

- Fix ALLMULTI not being disabled when turning off IPv6

- Fix cases where a 4G cellmodem would sometimes fail to get an IP address

- Fix cases where cellular signal strength LEDs wouldn't be updated

- Fix misreporting of cellular roaming when not roaming

- Fix broken HTML on -GV model Internal Cellular Modem page

- Fix spurious "SIM Not Present" error

- Fix IMSI/ICCID retrieval not working on some gobi modems

- Fix missing cellular carrier information field under Cellular Statistics UI

- Fix issues where cellular modem wouldn't be detected

- Fix spurious AT$DEBUG commands being sent to cellmodems and appearing in logs

- Fix cell-fw-update using incorrect field for firmware version

- Fix cases where /var would reach 100% used

- Fix pmpower pmchat scripts not working for admin users

- Fix switching between primary and secondary SNMP manager tabs in UI not working

- Fix enabling bridge mode does not bring up the br0 interface

- Fix spelling errors in UI

Release version 3.16.2u1 (22 December 2015)

- Add warning on firmware upgrade to remind users to check release notes

- Fix regression of cellular robustness on LTE modems

- Fix issue with /var filling up on some product families

- Fix device firmware version checking on cell firmware update

- Fix intermittent issue with some internal POTS modems not answering calls in time

Release version 3.16.2 (9 November 2015)

- Add multi-carrier cellular module support

- Add support for upgrading cellular module firmware where possible

- Add ServerTech multibank and multitower PDU outlet support

- Add unauthenticated SSH as an optional service

- Add SFTP support

- Fix version information on CDK builds

- Fix spurious SNMP restart traps (NOTE: this may cause some restart traps to be missed)

- Fix inconsistencies with authentication when using KerberosDownLocal or LDAPDownLocal

- Fix IP Passthrough link instability when upstream DHCP lease renews

- Fix ZTP not working when the DHCP server is also distributing NTP server information

- Fix OpenVPN tun-mode server with static keys not starting correctly

- Fix configured RADIUS accounting port number not being used correctly

- Fix spurious log messages when using ServerTech serial PDUs

- Fix IPMI power status reporting

- Fix accumulation period causing pmshell to not work

- Fix who and w commands not returning any information (also removed 'last' command)

- Fix Failover & Out-of-Band page not reporting cellular connection status correctly

- Fix internal modem not working on LES12xxA products (broken in 3.16.1b0)

- Fix tftpboot directory on usb storage sometimes receiving incorrect permissions

- Fix incorrect error message when importing configuration files fail

Release version 3.16.1b0 (27 August 2015)

- Add info for custom OpenVPN tunnels with additional commands required

- Fix CVE-2015-5600 (openSSH brute force using keyboard-interactive)

- Fix config corruption issues with concurrent config CLI commands

- Fix permissions/access issues found via the web interface

- Fix web interface session ID length

- Fix per-serial port IP aliases in network bonding mode

- Fix FTP firewall issues in PASV mode

- Fix multiple hotplug processes causing memory problems

- Fix missing or renumbered ttyUSB devices

- Fix modem crash when signal strength reported as "NOSERVICE"

- Fix OpenVPN not starting correctly in specific scenarios

Release version 3.15.3 (7 August 2015)

- Add LTE modem support for LES120xA products

- Add watchdog for CDMA modems

- Fix devlog crash when sending hangup signal

- Fix URB handling in GobiNet driver

Release version 3.15.2u1 (31 July 2015)

- Fix reliability issues on LES150xA

Release version 3.16.0 (21 July 2015)

- Add IPv6 support to the LDAP client

- Add IPv6 support to the RADIUS client

- Add additional support for editing APN where allowed

- Add support to ftpd to no longer need /bin/ls inside the server directory

- Fix bug where local backups with the same name as an existing backup silently failed

- Fix issue with IP aliases not reliably starting

- Fix utmp filling up tmp and preventing web login

- Fix LTE not connecting when APN is correctly left empty

- Fix issues with sending large SMS messages

- Fix spurious log messages when sending SMS messages

- Fix CDMA SMS sending sometimes causing cellmodem error log messages

- Fix spurious log message "invalid conn "ippassthrough""

- Fix pmshell crash when changing between ports with RPC connections

- Fix issue with repeated pings failing with "No buffer space available"

- Fix spurious cellctl error log messages when cell modem is disabled

- Fix repeated "syslogd: started" messages on boot when using remote syslog

Release version 3.15.2 (4 May 2015)

- Add IPv6 support in firewall rules

- Add IPv6 support to the TACACS client

- Add IPv6 information to the support report generation

- Add informational message to warn about cell data usage charges

- Add informational message to warn about adding "block all" firewall rules

- Add ability to force netmask value when using cellular IP Passthrough

- Update OpenSSL to 0.9.8zf to mitigate CVEs.

- Fix weak ciphers used in OpenVPN (FREAK vulnerability)

- Fix issue with dialout default route not being added when IP is renewed

- Fix issue with IO ports page being displayed on models without IO ports

- Fix issue with dialpool dialin connections not succeeding when local LAN disconnected

- Fix issue when malformed username login attempts would not be logged correctly

- Fix display issue with CDMA modem option checkboxes on initial page load

- Fix issue with OpenVPN event Autoresponses not reliably triggering

- Fix issue with RPC monitoring not reliabliy polling load information

- Fix issue with retrieving RPC status for dual APC7900 devices

- Fix issue with DDNS updates being run before being able to route to the services

- Fix log messages with CDMA SMS usage to help diagnosis and troubleshooting

- Fix issue where non-dormant ethernet interfaces would always behave dormant

- Fix issue with some SNMP UPS updates intermittently not working

- Fix issue where MC5728V modules may error if receiving SMSs larger than 160 characters

Release version 3.15.1u1 (August 21 2015)

- Fix reliability issue with LES150xA units

Release version 3.15.1 (February 25 2015)

- Add ability to automatically provision unconfigured devices using DHCP (ZTP)

- Add support to TACACS+ authentication to provide the remote address of authentication attempts

- Add support for pppd authentication against a remote RADIUS server

- Fix readability issue with cellctl error codes: errors now have human-readable descriptions

- Fix issue where configuration changes after RPC probing would not be detected

- Fix issue where some SNMP UPS devices would heavily utilize CPU unnecessarily

- Fix issue where status information for external EMD devices would not be provided via SNMP

- Fix issue where SNMP daemon config file may not be generated correctly when SNMP configuration changes

- Fix issue with NUT scanner utility crashing

- Fix error message being produced by cellular watchdog script

- Fix issue where NRPE on console servers would not allow command line arguments

- Fix issue where probing remote UPS/RPC devices on managed devices would not be indexed correctly

- Fix issue where SIM failover on LTE devices with dual SIM capability was not reliable

- Fix issue where custom routes over dial/cellular interfaces would not be added correctly

- Fix issue where removing specific custom routes from the interface would not always work correctly

- Fix issue where the internal temperature monitor on some devices would not read correctly

- Fix issue where LTE cell data usage monitoring may sometimes report inaccurate values

- Fix issue where a bonded ethernet device would not use a consistent MAC address

- Fix issue where ethernet link detection would produce spurious log messages on some devices

Release version 3.15.0 (January 13 2015)

- Add post-configurator hook for custom firewall rules

- Fix NTP vulnerabilities: CVE-2014-(9293,9294,9295,9296), CVE-2009-0021

- Fix issue with dashboard display width on small monitors/browsers

- Fix issue where SMS messages could stop sending on dual-SIM devices after failover

- Fix support report display of per-interface route tables to be more readable

- Fix support report display of netstat information (network connections)

- Fix support report display of infod dump information

- Fix support report display of USB bus information

- Fix issue where cell modem RSSI could sometimes be reported incorrectly as -1

- Fix the display of data on the ICMP statistics page

- Fix minor display consistency issues on the SNMP configuration page

- Fix spurious warning message when rebooting from the command line

- Fix issue when restoring a local config backup after erase

- Fix issue where wireless configuration may not be applied in some cases until rebooted

- Fix issue with firewall rules or per-interface routing tracking PPTP connections

- Fix issue where firewall log messages would contain spurious text

- Fix issue with spurious log messages about the "route" configurator

- Fix issue with IPsec not consistently/reliably starting on boot

- Fix issue with IPsec routing interoperation with per-interface default routes

Release version 3.15.0b0 (December 18 2014)

- Add cellular IP Passthrough feature, to 'half-bridge' between a cell modem and downstream router/device

- Add the system name to the title bar of web pages in the UI

- Fix issue where cell data usage autoresponse would not trigger on some devices

- Fix issue when using RPCs on X1 serial pinout mode

- Fix issue where CDMA cell modems may be reported up even without a service

- Fix issue where some UI web pages may not display correctly after reconfiguring 'Services'

- Fix issue where some log messages may not expand variables correctly

- Fix issue where an MC5728V cell modem may not be detected correctly on boot

- Fix issue where LDAP authentication could not be configured with an empty password (for anonymous bind)

- Fix issue with CDMA modems not setting some per-interface routes correctly

- Fix issue where per-interface default routes may not be added for aliases on different networks

- Fix issue where a cell modem watchdog would not trigger when in non-dormant failover mode

- Fix issue where POTS modems may not get caller ID details if answered too quickly

- Fix issue with failover probe addresses: if multiple addresses are used, an interface would fail over

if any address is down, rather than all addresses

Release version 3.12.3 (December 8 2014)

- Fix issue with per-interface routing tables: network routes were not always added;

some networks could become uncontactable if the network gateway was not contactable

Release version 3.12.2 (November 24 2014)

- Add support for default routes on multiple interfaces (Note: this may interfere with custom scripted routing setups)

- Add option to download the support report

- Fix UI issue where it was possible to specify a port number on non-TCP/UDP firewall rules

- Fix missing data from command line generated support reports

- Fix issue with phone numbers containing non alphanumeric characters

- Fix issue where custom OpenVPN configuration files could be deleted if stored with internal files

- Fix CVE-2014-7186 and CVE-2014-7187 vulnerabilities in bash

- Fix issue with refreshing the managed devices page (no longer resends any previous commands)

- Fix issued where missing internal sensor data no longer prevents creation of new auto-responses

- Fix issue where failed IPsec connections would not come back up

- Fix issue where custom serial port escapes weren't being saved

- Fix issue with multiple APC7900 RPCs

- Fix cleanup of outgoing SMS queue

- Fix display bug for SNMP devices in power menu

- Fix issue where incomplete auth configuration could prevent logins

- Fix issues with deleting VPN tunnels

- Fix MOTD display in System configuration page

- Fix Web Session Timeout

- Fix timing issue with connection failover

- Fix issue where route information could be lost on upgrade

- Fix issue with editing Send SMS trigger actions

- Fix issue where syslogd wouldn't restart after failure

- Fix issue with syslog not using updated hostnames

- Fix issue where outgoing cellmodem dialup connections were not using the provided username/password

- Fix issue where backups from incompatible firmware could be restored

- Fix issue where multiple ping autoresponse checks could cause excessive cpu usage

- Fix where ogHostPingNotification SNMP traps not always being sent

Release version 3.12.1 (September 26 2014)

- Fix CVE-2014-6271 and CVE-2014-7168 vulnerabilities in bash

- Fix issue with display of Managed Devices with non admin users

Release version 3.12.0 (September 25 2014)

- Added Cellular Modem details to SNMP

- Added Connection Manager and Cellular Dashboard widgets to the Dashboard

- Added Brute force protection (Fail2Ban) for WebUI and SSH

- Major redesign of the Manage page

- Improved the Serial Config UI pagination

- Added per serial port IP alias support

- Added the ability to download port logs as files

- Added better RPC status on the RPC and manage pages

- Added Raritan PX SNMP support

- Added support for disabling serial ports

- Added shortcut icons for the Dashboard and Manage pages

- Fixed SMS sending by admin users using the CLI

- Fixed issue with some powerman devices not reporting temperature

- Fixed consistency issues with UI labels and display names

- Fixed incorrect TCP and UDP stats on the statistics page

- Fixed Memory leak in portmanager

- Fixed OpenVPN secret file permissions

- Fixed sendsms issue with multiple invocations

- Fixed OpenVPN custom port UI display issue

- Fixed SNMPv3 username validation

- Fixed address corruption in SNMP traps for IPv6 WebUI logins

- Fixed issue with WebUI not handling some characters in form variables

- Fixed issue with CLI config command crashing when printing errors

Release version 3.11.2 (July 28 2014)

- Fixed issue where host routes would not be reported as 'installed' in the GUI when they are

Release version 3.11.1 (July 16 2014)

- Added ability to add network routes through a specific interface.

- Fixed issue with reliability of detecting some USB cell modems on boot.

- Fixed stability issue with devices when a cellmodem is in use and ethernet interfaces are flapping.

- Fixed issue with dos2unix binary setting file mode permission bits to 600.

- Fixed issue with call-home passwords that contain spaces.

Release version 3.11.0 (June 25 2014)

- Major overhaul of SNMP status reporting; addition of new MIB with extra details.

- Major overhaul of SNMP traps; addition of new MIB, with extra traps.

- Added support for authentication against OpenLDAP servers (ie. using POSIX account schemas).

- Improved LDAP over SSL support (better certificate handling, protocol selection, ignoring signing errors).

- Added support for SMS triggered autoresponses from multiple phone numbers.

- Added ability to disconnect serial sessions from the web interface or CLI per port, per user, or a combination of both.

- Added RPC support for WTI VMR-HD4D32.

- Added RPC support for APC 7900 v3.7.3 AOS v3.7.3.

- Added RPC support for APC 8959 v5.1.6 AOS v5.1.9.

- Added RPC support for Raritan PX via SNMP.

- Added RPC support for TrippLite PDUs with PowerAlert v12.06.0061.

- Added ability to specify facility and severity of outgoing remote syslog (via CLI config only).

- Added support for custom CTRL keystrokes for pmshell commands (via CLI config only).

- Added ability for users on 'unauthenticated telnet' serial ports to use the power menu.

- Added ability to turn off LDAP referrals when using LDAP authentication.

- Added ability to ignore privilege levels of TACACS authenticated users.

- Added serial number information the support report if available.

- Improved local backup description/filename field to allow spaces.

- Updated OpenSSL to 0.9.8za to mitigate CVE-2014-0224.

- Fixed memory leaks in the SNMP daemon.

- Fixed issue where the environmental page may unnecessarily restart the SNMP service.

- Fixed issue with serial pattern matching where slow input data would not trigger a match.

- Fixed issue where adding a port forward would add extra spaces and newlines to the config file.

- Fixed issue where some wireless configuration changes (eg. password) would not restart the connection.

- Fixed issue where aliases on network interfaces would not have correct IDs or stop correctly.

- Fixed issue where DIO autoresponse checks would not trigger correctly if configured as "trigger on change".

- Fixed issue where serial signal autoresponse checks would not trigger correctly if configured as "trigger on change".

- Fixed issue where OpenVPN tunnel netmask configurations were not being applied correctly.

- Fixed issue where an RPC managed with powerman would not have status info interpreted correctly.

- Fixed issue where the web server would not listen on the alternate HTTP port if specified.

- Fixed issue where IP aliases field in web interface was not long enough to enter a large number of IPs.

- Fixed issue where RADIUS accounting messages may be sent to the wrong server if multiple are configured.

- Fixed issue where deconfiguring a network bridge could cause interfaces to stop responding.

- Fixed issue with RPC daemon stability.

- Fixed issue where autoresponse daemon could start in a bad state on system boot.

- Fixed issue where cell data autoresponse event was not running actions and/or restarting daemon.

- Fixed issue where some devices could sometimes reset to default IP addresses.

- Fixed issue where Nagios NRPE configuration could break IPv6 firewall rules.

- Fixed issue where ethernet failover targets would not get tests applied correctly or be in failover groups.

- Fixed issue where RPC daemon would not restart/re-read configuration after multiple devices are added.

Release version 3.10.1 (April 7 2014)

- Fix Wi-fi WEP passwords being unintentionally changed by the UI

- Fix smsd restarting too much when failing over between SIM cards

- Fix smsd not being able to be disabled

- Fix CDMA modem failover

- Fix RPCD locking issue

- Fix Pantech UML290 repeatedly receiving the latest SMS

- Fix Servertech PDU Multibank UI Issues

- Fix dialout modem Interface Actions

- Fix Raritan PX2 definition error

- Fix Interface Event Ethernet support

- Fix Auto-Response ping check interface selection

- Fix dormant failover settings for non-conman devices

- Fix RPCD CPU Utilisation

Release version 3.10.0 (February 24 2014)

- PLEASE NOTE: As of console server firmware 3.10.0, we have replaced the

majority of the onboard networking scripts with a single, dependency-based

connection management daemon called 'conman'. If you have set up custom

networking scripts, they are highly likely to be INCOMPATIBLE and NOT WORK in

firmware versions 3.10.0 and higher. It is recommended that upgrades be

performed in a test environment before being rolled out to production sites.

- In unconfigured IP settings, eth0:0 is now the static 192.168.0.1 interface and eth0 is the DHCP client interface

- Migrate networking code to new dependency based daemon, conman

- Add support for triggering VPNs from auto-responses

- Add RPC support for Raritan PX2 PDUs

- Add a bash .profile for root user

- Add more conman and network interface information to support reports

- Remove NTP monitor support to remove chance of NTP amplification attacks

- Remove irrelevant system log messages from rpcd

- Improve the speed of an initial bootup after factory erase

- Fix RPC status page

- Fix issue with migration to Cherokee webserver

- Fix Servertech Single Bank support

- Fix serial signal auto-responses not triggering

- Fix Servertech "No such power device" error

- Fix RPC support crashing if /etc/config/powerstrips.xml is present

- Fix RPC support sometimes not unlocking serial ports

- Fix adding firewall rules adding extra spaces and unclosed tags to config file

- Fix SNMP notification for SMS checks

- Fix internal power supply monitoring support

- Fix failover on CDMA cell modems

- Fix override DNS settings not working on CDMA modems

- Fix callback not working after moving dial to conman infrastructure

- Fix pantect uml290 modems repeatedly receiving latest sms

- Fix unauthenticated telnet access to serial ports

- Fix file descriptor leak in snmpstatusd

- Fix rpcd showing high CPU utilization

- Fix NTP support on mixed IPv4 and IPv6 networks

- Fix setting SNMPv3 Engine ID

- Fix UPS autoresponses not triggering

- Fix Digipower SNMP RPC not showing status in Power menu

- Fix ping auto responses getting stuck in triggered state

- Fix bad error message for invalid SMS gateway field when configuring autoresponses

- Fix incorrect validation errors for hidden autoresponse actions

- Fix UPS graphing

- Fix modem watchdog interoperation with cellmodem failover

- Fix being unable to disable SNMPv1 and SNMPv2 to run in SNMPv3 mode only

- Fix portmanager hanging in some circumstances when port logging to remote CIFS servers

- Fix inconsistent options between snmpd and snmptrap configuration

- Fix enabling debug serial console

- Fix WEP configuration file and key selection

- Fix setting up RPCs where the have parentheses in the RPC type

- Fix LTE modems sometimes not connecting, even when modem appears to be fine

- Fix serial pattern match autoresponses all being triggered whenever one occurs

- Fix CIFS mounted port logging not reliably working on boot

- Fix cases where cellular SMS sending and receiving would stop working after dual SIM failover

Release version 3.9.1 (December 17 2013)

- Add bulk provisioning scripts for rolling out large numbers of devices

- Add support for persisting 'log' options in conman.conf

- Add support for Raritan PX2 PDUs

- Fix sending sms messages when cell modem is a failover interface

- Fix Servertech single bank script

- Fix cherokee leaving old temporary directories in /tmp

- Fix memory leak in conman

Release version 3.9.0u2 (November 21 2013)

- Improve WebUI authentication logging and Auto-Response integration

- Fix LTE dialout route metric

- Fix TACACS issue with incorrectly padding attributes

- Fix migration issues when delayed config commit is enabled

- Fix issue with Verizon LTE cellular statistics

- Fix issue with adding Serial RPC devices

- Fix isse with comma separated email addresses and cellular phone numbers

in Auto-Response actions

Release version 3.9.0u1 (October 23 2013)

- Fix migration issue for webserver configuration

Release version 3.9.0 (October 21 2013)

- Add Connection Manager daemon (conman), to manage cellular and dial connections

- Add support for failover between dual modem sim cards on appropriate models

- Add SNMP table describing status of digital I/O ports

- Fix more problems with webserver causing intermittent "500 internal server error"

- Fix lower case Kerberos realms being forced to upper case

- Fix deleting custom IPSec tunnel attributes causing config errors

- Fix nagios checks being incorrectly HTML escaped

- Fix TACACSLocal and TACACSDownLocal users being locked out when server is down

- Fix sidebar layout changing dimensions while page is loading

- Add more diagnostic information to support report for 3G/USB problems

- Fix inconsistent naming of digital I/O ports

- Fix inforrect display of UML290 IMEI

- Fix supurious 'unauthorized access attempted' log messages

- Add human-readable descriptions of LTE information preferences

- Fix SNMP configuration page incorrectly complaining about no community string

- Fix activation of CDMA cellular modems

- Fix SNMP MIBs failing syntax checks

- Add default sysservices option to SNMP

- Switch to the Cherokee web server

- Add secure cookie attribute

- Fix HTTPS login attempts being logged as '::1 (localhost)'

- Fix HTTPS loging auto-responses seeing source IPs as '::1 (localhost)'

Release version 3.8.1u1 (September 2013)

- Add FTDI drivers to USB enabled products

- Improve the authentication test page group listings

- Fix issue getting default config from USB

- Fix Auto-Response Pattern match not disconnecting users

- Fix Serial port labels getting reset

- Fix NSCA check to newer NSCA daemon issue

- Fix LDAP DN field validation

- Fix user changes removing SSH keys

- Fix FIPS mode issue

Release version 3.8.0u2 (September 2013)

- Fix Kerberos realm being forced to uppercase

- Fix network host nagios checks being mangled and escaped

- Fix problems with webserver causing intermittent "500 internal server error"

Release version 3.8.0u1 (August 2013)

- Add NTLM support to curl

- Fix IPSec over LTE cellular connections restarting needlessly

- Fix serial port labels being HTML escaped in config

- Fix DOS vulnerability in lighttpd (CVE-2012-5533)

- Fix generation of wildcard SSL certificates

- Fix not allowing whitespace in autoresponse names

- Fix setting serial break characters

- Fix running a DHCP server on bridged and bonded interfaces

- Fix creating portforwards and port rules with bot TCP&UDP selected

- Fix IPv6 HTTPS access to the web configuration UI.

Release version 3.8.0 (July 2013)

- Add error messages when running invalid configurators from command line config tool

- Add secure cookie attribute when using HTTPS

- Add more cellular status information and settings

- Fix IMPI RPC status command

- Fix problems with retrieving stats from some cellular modems

- Fix modem watchdog for LTE modems

- Fix cascading issues with port 1 on slave devices

- Fix serial port logs not taking timestamp size into account when rotating

- Fix CDMA modems misreporting provisioning status

- Fix 5th argument not being passed to custom auto-response actions

- Fix TACACSDownLocal authorization interaction with local groups

- Fix unclear definition of TX/RX for logging levels

- Fix deletion of configured NTP servers

- Fix TACACSDownLocal authorization interaction with local groups

- Fix migration to add root user to config.xml

- Fix problems with side bar in web configuration cgi being too narrow

- Fix problems with invalid characters in group names

- Fix minor page formatting error on SNMP page

- Fix Nagios event auto-response to use nagios configured host name.

- Fix security vulnerability CVE-2012-2944 in NUT

- Fix cases with potential XSS vulnerabilities

- Other security fixes

Release version 3.7.0u3 (June 3 2013)

- Add sudo support for admin users

- Fix serial port syslog format changes

- Fix multicast issue with some device ethernet drivers

- Fix NUT detection of Slave DC Servertech PDUs

Release version 3.7.0u1 (April 19 2013)

- Fix mangle rules for OOB LTE modems

- Fix failed web login exposing version information

- Fix FTP transfer of large files sometimes dropping connection

- Fix CIFS port log mounting not working

- Fix USB port logging

- Fix no data appearing after changing from local console to console server mode

- Switch to ethtool for monitoring link status on some devices

Release version 3.7.0 (April 12 2013)

- Fix ServerTech outlet status reporting

- Improve speed of serial port logging

- Added support for admin users reading syslog via CLI

- Fix vulnerabilites reported in OpenSSL and libPNG packages

- Fix support for PDUs with many outlets requiring multiple probes

- Fix NUT support for SNMP Servertech multi-tower PDUs

- Fix network interface not being correctly configured after config erase

- Fix broken modem support on some platforms

- Add improvements to web ui security, including longer session keys

- Fix UPS battery voltage auto-responses not resolving

- Added support for LTE modems

- Added script to setup an IP address per serial port

- Fix debug messages appearing in syslog with remote user authentication

- Fix specifying /32 peers in IPSec config page

Release version 3.6.1u1 (March 14 2013)

- Add NUT scanner support

- Add cycle command for serial Servertech CDUs

- Fixed Serial PDU outlet probing

- Fixed wording for Pattern Match Auto-Response triggers

- Fixed Graph display using Safari on OS X

- Fixed Auto-Response Remote UPS triggers

- Fixed Auto-Response Environmental trigger issue

- Fixed GRE support

Release version 3.6.1 (Feb 19 2013)

- Add variable outlet probing for Serial RPCs

- Fixed flow control issues on serial ports

- Fixed Servertech serial RPC issues on 2 and 8 outlet models

- Fixed Auto-Response configuration issues

- Fixed Port Cascading

- Fixed Cellmodem region changing

- Fixed outlet status for Cyclades PM10 RPCs

Release version 3.5.3u5 (Jan 31 2013)

- Fixed issue with web logins that was causing occasional failed logins

- Fixed issue with FTP server doing reverse DNS lookups for logging

- Fixed issue with command line config backups reporting errors

- Fixed issue when deleting users

- Fixed issue when setting permissions for network hosts and RPCs

- Fixed duplicated log line issue with port and autoresponse logging

- Fixed crash in pmshell when FIPS mode is enabled

Release version 3.5.3u3 (September 05 2012)

- Fixed issue with multiple LDAP server addresses

- Fixed issue with TFTP client

- Fixed issue with services configurator

- Fixed issue with pmshell only users and SSH direct to ports

- Fixed issue restoring config backups

- Fixed issue with logging port logs to remote syslog after failover

- Fixed bad memory allocation in infod

- Fixed crontab -e command

- Fixed UPS compatibility hyperlink

- Fixed override DNS servers so that server addresses can be left empty

- Fixed Port access page not showing correct permissions with

unauthenticated telnet

Release version 3.5.3u1 (July 27 2012)

- Added an new unpowered signal line mode for serial ports, to handle

out-of-specification devices drawing excess power

- Fixed the command line user-del script

- Fixed link from index cgi page to new location to set root password

- Fixed issue with cgi authentication session files not being checked

correctly

- Fixed miscellaneous typographical errors in the configuration cgi

Release version 3.5.3 (July 19 2012)

- Added support for a default group for TACACS users

- Added put '/proc/loadavg' and 'df' in the support report

- Fixed enabling FIPS with delayed config commit causing immediate reboot

- Fixed serial statistics all showing as zero

- Fixed many ssh logins/logins causing wtmp file to fill /tmp

Beta version 3.5.3b1 (June 27 2012)

- Added support for ServerTech RPC load banks

- Added support for USB Consoles (i.e. newer Cisco units)

- Added HOST-RESOURCES MIB to SNMP, allows for system uptime reporting

- Added support for service names other than raccess for TACACS+

- Added support for running custom cgi web apps on board

- Fixed local (i.e. USB) configuration backup and load-on-erase

- Fixed remote backup downloads sometimes being truncated

- Fixed cron not restarting if it terminated early

- Fixed link on index page for setting root password