



Intermediate Release Notes

Omni Switch 6624/6648/7700/7800/8800

Release 5.1.6.560.R02

The following is a list of issues that have been identified and corrected in AOS software release. This document is intended to be used as a pre-upgrade guide and does not replace the Release Notes which are created for every GA release of software.

Important Notice: For a copy of software release not posted on the Web or if you have any question or concern please contact Alcatel's Technical Support Department.

Problems Fixed Between Builds 88 and 131	3
Problems Fixed Between Builds 132 and 170	8
Problems Fixed Between Builds 171 and 198	13
Problems Fixed Between Builds 199 and 225	17
Problems Fixed Between Builds 226 and 243	19
Problems Fixed Between Builds 244 and 292	21
Problems Fixed Between Builds 293 and 338	25
Problems Fixed Between Builds 339 and 346	28
Problems Fixed Between Builds 347 and 370	29
Problems Fixed Between Builds 371 and 394	31
Problems Fixed Between Builds 395 and 416	32
Problems Fixed Between Builds 417 and 436	33
Problems Fixed Between Builds 437 and 458	34
Problems Fixed Between Builds 459 and 474	36
Problems Fixed Between Builds 475 and 481	37
Problems Fixed Between Builds 482 and 485	37
Problems Fixed Between Builds 486 and 493	38
Problems Fixed Between Builds 494 and 498	38
Problems Fixed Between Builds 499 and 502	38
Problems Fixed Between Builds 503 and 508	39
Problems Fixed Between Builds 509 and 513	39
Problems Fixed Between Builds 514 and 517	40

Problems Fixed Between Builds 518 and 521	40
Problems Fixed Between Builds 522 and 527	41
Problems Fixed Between Builds 528 and 541	42
Problems Fixed Between Builds 550 and 552	42
Problems Fixed Between Builds 552 and 560	42
Under Verification	43
Known Issues	45

Problems Fixed Between Builds 88 and 131

PR	93053	Build:	5.1.6.88.R02
Summary:	Tagged packets on mobile ports malformed when going through a stack of OS6600's		
Explanation:	Restore original frame length for 802.1q tagging across stacks		
PR	92859	Build:	5.1.6.89.R02
Summary:	Web View showed incorrect root bridge id for AOS devices		
Explanation:	Fixed SNMP return for designated root bridge		
PR	93168	Build:	5.1.6.89.R02
Summary:	AMAP does not display link on Omni Vista Server when the remote end has no IP address		
PR	93063	Build:	5.1.6.90.R02
Summary:	If enable and disable a 802.1X port , the port is unable to send out arp broadcast		
Explanation:	If we enable an 802.1x port and then disable it, the port is unable to receive any ping traffic.		
PR	93099	Build:	5.1.6.91.R02
Summary:	Excessive number of ARP request sent from an AOS Router		
PR	89576	Build:	5.1.6.92.R02
Summary:	Web View OSPF interfaces page shows a wrong value for the Router Priority		
Explanation:	In Web View, Networking > IP > OSPF > Interfaces > Area page shows wrong value for "Priority" on the table.		
PR	92877	Build:	5.1.6.93.R02
Summary:	Issues after the reboot when using "Any" keyword in QOS configuration		
Explanation:	Before this fix, when you were using "Any" in a QOS configuration, "Mask 0.0.0.0" was automatically added in the configuration which was generating error during the boot sequence. Example: You were typing: "policy condition test source ip any destination ip 192.168.10.10", and the following was saved in the boot.cfg: "policy condition test source ip Any mask 0.0.0.0 destination ip 192.168.10.10"		
PR	93337	Build:	5.1.6.94.R02
Summary:	Web View displays an incorrect variable state in IP Multicast state webpage: "N/C"		
PR	89263	Build:	5.1.6.95.R02
Summary:	Multicast forwarding problem when PIMSM and IPMRM are not synchronized		

PR	93388	Build:	5.1.6.95.R02
Summary:	Spanning tree internal loop protection changes (port to 5.1.6.R02)		
PR	89335	Build:	5.1.6.96.R02
Summary:	Switch sends IGMP Membership query V3 instead of V2		
PR	93213	Build:	5.1.6.99.R02
Summary:	After viewing system pmd file you might not be able to telnet to the switch		
Explanation:	It was possible that "show log pmd cs_system.pmd" took a few seconds to return default prompt without displaying anything. Then if you tried to telnet back, you were not able to connect to the system anymore.		
	This fix addresses this problem.		
PR	93523	Build:	5.1.6.100.R02
Summary:	STP: Disable flat mode causes 1x1 mode to reconverge		
Explanation:	When 1x1 STP mode is enabled, flat mode STP is disabled. 1x1 STP should not reconverge when flat mode is disabled.		
PR	92687	Build:	5.1.6.103.R02
Summary:	Unicast Traffic allowed on 802.1x port before MAC authentication after admin down/up		
Explanation:	On an 802.1x port if no authenticated clients are present and if admin down and up is issued on that port, then egress traffic is allowed to go out on that port. Fixed this in 802.1x software by identifying the port up event and blocking the egress traffic on that port if there are no authenticated clients.		
PR	93732	Build:	5.1.6.103.R02
Summary:	Partial index getNext requests to sIMacAddressTable fail to index properly		
PR	92562	Build:	5.1.6.104.R02
Summary:	Unable to modify the syslog server IP address		
PR	93360	Build:	5.1.6.104.R02
Summary:	Mobility: PC in default VLAN cannot receive an IP address with DHCP		
Explanation:	This issue is observed in the following configuration: Client - L2 switch - L3 switch - DHCP server. The L2 switch does not forward the DHCP offer packet to the client once its mac-address has been flushed.		
PR	93166	Build:	5.1.6.106.R02
Summary:	IPC Depletion on Primary CMM when the secondary CMM is rebooted		
PR	93867	Build:	5.1.6.106.R02
Summary:	QoS rules are not applied after configuring DHCP rule		

PR	91493	Build:	5.1.6.107.R02
Summary:	"Write memory" and "write terminal" may not work after insertion, reload or takeover of secondary CMM		
Explanation:	Insertion, reload or takeover of the secondary CMM might cause a QoS task failure and prevent the configuration manager from writing or printing the switch's configuration using "write memory", "write terminal" or "show configuration snapshot".		

PR	92933	Build:	5.1.6.107.R02
Summary:	Broadcast-Unicast Traffic forwarded when changing 802.1x parameter to force-unauthorized		
Explanation:	When port is changed from forced-authorized to forced-unauthorized, MAC address that are learned when the port was force-authorized are not flush and thus traffic can still go through as usual. Please note when switching from auto to forced-unauthorized, the client MAC addresses are properly cleaned up. This problem is only when switching from forced-authorized to forced-unauthorized.		

PR	93977	Build:	5.1.6.107.R02
Summary:	IPC initialization may fail after a takeover		

PR	94091	Build:	5.1.6.108.R02
Summary:	Web View: install will remove all of the .img files from the working directory		
Explanation:	Simplified Web View's installation		

PR	91213	Build:	5.1.6.109.R02
Summary:	Unable to get an IP address for client after getting authenticated by 802.1X		

PR	93093	Build:	5.1.6.109.R02
Summary:	802.1x user and mac-address remains learned on Auth VLAN even after Auth vlan is deleted		
Explanation:	When a vlan is deleted, 802.1x is not notified and thus will not clean up the clients that are authenticated and classified on that vlan. Show 802.1x users will still show that they are authenticated even the client's MAC is not learned any more after the vlan is deleted.		

PR	93740	Build:	5.1.6.110.R02
Summary:	OS7-GNI2-U12 link failed after switch power off and on		

PR	93633	Build:	5.1.6.113.R02
Summary:	Mobile port loose the VPA, after a new ip rule is configured on the switch		

PR	92876	Build:	5.1.6.114.R02
Summary:	"ip service avlan-http-proxy" command in the boot.cfg is detected as erroneous entry during bootup		
Explanation:	When disabling any IP service, automatically other services are added to the configuration as enable. Before this fix, an unsupported IP service was added "ip service avlan-http-proxy" which generated an error during the boot sequence.		
PR	93741	Build:	5.1.6.114.R02
Summary:	Connectivity drop across Link Aggregation when CMM failed over with policy server statement		
Explanation:	When you have a link aggregation together with the policy server statement, when CMM fail over, the connection across a link aggregation will drop for few seconds.		
PR	94488	Build:	5.1.6.114.R02
Summary:	"Show health <slot/port>" displays transmit/receive at twice the rate of rx/tx		
Explanation:	This is to fix the incorrect calculation of RxTx (RxTx output of 'show health' command) for Full-duplex ports. It was calculated by considering only Tx, so fixed to consider both Tx and Rx.		
PR	92733	Build:	5.1.6.115.R02
Summary:	CLI command "interface slot/port flood rate 0" is not taking effect after a reboot.		
PR	93153	Build:	5.1.6.116.R02
Summary:	Traffic matching QoS policy and destined for link aggregation will reset the NI		
Explanation:	Traffic matching QoS priority stamping rules (802.1p, TOS or DSCP) that is destined for a link aggregate will no longer cause a divide by zero exception on the NI.		
PR	94087	Build:	5.1.6.117.R02
Summary:	DHCP Discover packet from the Client PC is not forwarded to the switch after 802.1x ReAuthentication		
Explanation:	After re-authentication if the PC is moved into a vlan other than the previously authenticated vlan there was some sync issue with onex and source learning events and the client remains in the previous vlan. Resolved source learning timing issues during 802.1x re authentication of client PCs.		
PR	94277	Build:	5.1.6.117.R02
Summary:	Impossible to configure a policy condition on OS6600 when the name includes only letters a to f		
PR	91943	Build:	5.1.6.118.R02
Summary:	"rls" "rcp" "rrm" changes the running configuration		
Explanation:	The commands "rls", "rcp" & "rrm" change the running configuration.		

PR	94644	Build:	5.1.6.118.R02
Summary:	Web View: Change ASA family page to show bitmap values for easy copy and pasting.		
PR	72390	Build:	5.1.6.120.R02
Summary:	Power Supply failed trap is occasionally not sent out		
Explanation:	After take over, the new primary will not send out a trap when a power supply is extracted. This is an informational message, no effect to the system.		
PR	94248	Build:	5.1.6.120.R02
Summary:	Authentication failures are not logged into the swlog		
Explanation:	Before this fix, authentication failures were sent via SNMP to the management station but not logged into the swlog file. Now, both are done.		
PR	85864	Build:	5.1.6.121.R02
Summary:	CLI inactivity Timer does not work using SSH		
PR	94329	Build:	5.1.6.122.R02
Summary:	High CPU when we hotswap module in chassis with "Static mac-address" on the Linkagg port		
Explanation:	After NI hotswap, when the OTHER NI (NI 3) is inserted CMM is trying to send Static MAC of LA agg port (NI 6) configuration as DA address to OTHER NI 3. CMM hangs inside a while loop, when it tries to send static MAC configured only for logical ports during this configuration update. Looping again and again in the same logical port mac entry. Fix is done for traversing the whole table and send the configuration to NI.		
PR	91505	Build:	5.1.6.123.R02
Summary:	Unsolicited Takeover: secondary NOT revd PRIMARY ANSWER last good Request:		
Explanation:	Under very specific circumstances, the secondary CMM might not be able to communicate with the primary and issue a takeover.		
PR	94521	Build:	5.1.6.123.R02
Summary:	Need a way to log which user or application accesses the boot.cfg file		
Explanation:	Contact Alcatel Customer Service for instructions on how to configure this.		
PR	94660	Build:	5.1.6.124.R02
Summary:	"Show health slot/port" transmit/receive incorrect calculation on Half-Duplex port		
Explanation:	This is to fix the incorrect calculation of RxTx (RxTx output of 'show health' command) for Half-duplex ports. By default the port was taken as Full-duplex ports, so the calculation is made based on the current configuration of the port.		

PR	94612	Build:	5.1.6.125.R02
Summary:	No communication between the 802.1Q port and a mobile-tag enabled port		
Explanation:	Fix is done to set the TSP tagged bit in the hardware when tag mobile is enabled.		
PR	92890	Build:	5.1.6.126.R02
Summary:	NTP Daemon crash - Floating-Point Exception IEEE-754		
Explanation:	This is to fix the floating point exception caused by rootdelay and rootdispersion parameters received from the NTP server.		
PR	93752	Build:	5.1.6.127.R02
Summary:	OS6: after receiving the first packet: the mac is learned, but the packet is dropped		
Explanation:	Fix is done to flood the first packet from the software.		
PR	94951	Build:	5.1.6.128.R02
Summary:	Remote host device shows as unknown device for 9700		
PR	95257	Build:	5.1.6.129.R02
Summary:	Using dhcp-mac + mac rules combo causes PC to dis-join from mobile vlan randomly		
PR	95318	Build:	5.1.6.130.R02
Summary:	6600 is not flooding multicast packets randomly		
PR	95025	Build:	5.1.6.131.R02
Summary:	Mismatch in the IP route count reported by CLI and Web View		
Explanation:	While getting the object value for alalpRouteCount, we need to reduce by one for local and all routes to match what happens in the CLI.		

Problems Fixed Between Builds 132 and 170

PR	94213	Build:	5.1.6.132.R02
Summary:	Remove "ip multicast max-ingress-bandwidth" command from CLI and user guide		
Explanation:	Removed the command "ip multicast max-ingress-bandwidth" as the Omni Switch 6600 does not support it.		
PR	95479	Build:	5.1.6.133.R02
Summary:	The port based ACL stopped working after upgrading from 5.1.5.125.R02 to 5.1.6.125.R02.		
Explanation:	Issues related to port based ACL's. Design changes have been done to ensure proper condition/actions are reflected in hardware		

PR	95676	Build:	5.1.6.133.R02
Summary:	UDP relay statistics counters don't work		
Explanation:	The UDP Statistics counters were not being updated for non-bootp generic UDP service packets		
PR	91654	Build:	5.1.6.135.R02
Summary:	DHCP Relay agent IP address does not correspond to vlan router ip		
Explanation:	DHCP Relay agent set giaddr for broadcast DHCP Request on the basis of VLAN information.		
PR	96063	Build:	5.1.6.136.R02
Summary:	Policy rules applied in running configuration do not get activated on the switch		
PR	95717	Build:	5.1.6.138.R02
Summary:	Packets are dropping during file transfer using Multicast file transfer application.		
Explanation:	Omni Switch, by design, used to drop the first few packets (learning-phase packets) until a multicast flow was learnt into the hardware. This was causing certain applications to fail because of the functional requirement of the first few multicast packets of the application. This problem is resolved by the newly added CLI ability (IP multicast learning-mode) to configure the switch to either broadcast or drop the learning-phase packets. The default behavior is to drop learning-phase packets.		
PR	96165	Build:	5.1.6.138.R02
Summary:	Issue after reboot with policy network group "Any" (0.0.0.0 mask 0.0.0.0)		
PR	93715	Build:	5.1.6.139.R02
Summary:	catchCpuHog does not log to swlog on 6600		
Explanation:	Fix for logging cpuHog info into swlog.		
PR	92053	Build:	5.1.6.140.R02
Summary:	error [CLISHELL 28] Error on select (851971) followed by memMon dump		
Explanation:	Resolved timing problems with continuous telnet session establishments and exit.		
PR	96048	Build:	5.1.6.140.R02
Summary:	dshell session terminated when exiting from telnet		
Explanation:	When multiple telnet sessions to a switch are active, and if dshell is opened in one of the telnet windows, the active dshell session will be terminated if any telnet session to the switch is closed.		
PR	95617	Build:	5.1.6.142.R02
Summary:	"No aaa authentication http" creates "boot.cfg.1.err" during the boot sequence		
Explanation:	When the default aaa configuration is removed, there is no need to put "no aaa authentication x" in the snapshot and boot.cfg.		

PR	96176	Build:	5.1.6.142.R02
Summary:	Unable to change STP 32 bit path cost mode dynamically		
PR	95650	Build:	5.1.6.143.R02
Summary:	"Error [CLISHELL 8] fd = 149,select err at passwd" if the login timeout expires before login in		
Explanation:	This is to fix the severity of the telnet related log msg, changed from "error" to "info".		
PR	95991	Build:	5.1.6.144.R02
Summary:	6600 does not boot up if the privileges on the boot.slot.cfg file are changed to read only.		
Explanation:	When opening the file containing the slot number, previously it was trying to open in read and write mode and since the file is in read only mode this operation got failed, now code is changed to open the file in read only mode, so while opening the boot.		
PR	96753	Build:	5.1.6.144.R02
Summary:	IP directed-broadcast is not working		
PR	95712	Build:	5.1.6.145.R02
Summary:	"show active policy rule" matches don't increment properly.		
PR	96299	Build:	5.1.6.145.R02
Summary:	Issue with policy reflexive rule and Link Agg.		
PR	96787	Build:	5.1.6.147.R02
Summary:	With QoS enabled, when one port is disconnected, the traffic on another port is blocked		
PR	96890	Build:	5.1.6.148.R02
Summary:	Dynamic ARP entry of the VIP not removed when a VRRP router becomes master		
Explanation:	Delete the dynamic ARP entry for a vip when a static entry is being created, also resolve timing related problems in arp cache refresh events by adding a check in arp refresh handling whether a proxy arp entry already available for the vip.		
PR	88230	Build:	5.1.6.150.R02
Summary:	tBgp crashed with Data Access Exception -- Crash.PMD file generated		
PR	95383	Build:	5.1.6.150.R02
Summary:	Allow dynamic routes to have higher priority over static routes.		
Explanation:	To give dynamic routes higher precedence, add the following line to the file called AlcatelDebug.cfg :		
	debug set iprmStaticLowest 1		

PR	92723	Build:	5.1.6.151.R02
Summary:	No indication when an echo request times out		
Explanation:	Ping timeout indication 'T' displayed when the ping request times out.		
PR	96520	Build:	5.1.6.153.R02
Summary:	OS6600 "show qos queue" should be removed as it does not return expected information		
Explanation:	show qos queue command removed for OS6600 CLI		
PR	97322	Build:	5.1.6.154.R02
Summary:	Mobile-tag port strips the tag on the egress		
Explanation:	Setting hardware bit when handling Tagged DHCP frames.		
PR	97017	Build:	5.1.6.155.R02
Summary:	Add flash space check to flash-synchro command to prevent synchro when space is low		
Explanation:	While doing a "copy flash-synchro", the switch will start doing the synchronization between the primary & secondary CMM assuming that the secondary will have enough memory for synchronization. This was leading to failures whenever there was not enough memory in the secondary CMM. So we introduce a check to verify, that there are enough memory in secondary CMM to proceed with the flash-synchronization. If there is not enough memory the customer will be notified appropriately.		
PR	97317	Build:	5.1.6.155.R02
Summary:	ACL configuration on OS6600 does not work properly		
Explanation:	For bridged IP packets ,Layer4 classifications based upon IP protocol and UDP ports combo had some logical error.Layer4 classifications has been modified to accommodate the IP proto and UDP port combo rules also.		
PR	97564	Build:	5.1.6.156.R02
Summary:	CPU utilization goes high when upgrading to 5.1.5.R04 & QoS enabled		
Explanation:	Due to logical error, for non matching policy rules also we have utilized hardware resources .This unwanted utilization of hardware resource made the CPU utilization go high. Logic has been changed to take care of these scenarios.		
PR	97615	Build:	5.1.6.156.R02
Summary:	Incorrect flood rate display when primary port of link agg goes down/up		
Explanation:	While handling a port leave message for a LA group, the primary portid was retrieved wrongly from join structure instead of leave structure. Now the primary port id is retrieved from leave structure. Previously the primary port status of the interface leaving the LA group is not set to DISABLE, now it is correctly set as DISABLE.		
PR	96898	Build:	5.1.6.159.R02
Summary:	6600 64 bit Flash - need to update the "show hardware info" to display flash size to 64MB		

PR	97460	Build:	5.1.6.160.R02
Summary:	Client PC is unable to ping the switch after removing the vlan mac rule		
Explanation:	After removing MAC rule the dynamic vlan port association setting is not getting flushed when switch received a packet in the default vlan. Fix is done for Flushing previous VLAN PPP setting when new flow is learnt in Default vlan and the previous Mobile VPA rule doesn't exist.		
PR	97958	Build:	5.1.6.161.R02
Summary:	ERROR: esmDrv_findIfIndex<< GlobalPort > when trying to print the port structure of an unknown port		
Explanation:	While getting the Ifindex in the ESM driver, there is no check to see whether the module type returned is valid for the slot for which the CLI is executed. Added a check for the verification of the module type and returning without further processing if there is no board present. Now a proper error message is displayed saying the specific slot does not exist.		
PR	96675	Build:	5.1.6.162.R02
Summary:	Img files shown in Web View even after removing the file from the switch directory.		
Explanation:	Web View was reading the files from Frelease.img which contains the list of files present while images were built. So we changed the switch code, to look in flash to find out what files are available on the switch.		
PR	97746	Build:	5.1.6.163.R02
Summary:	Unexpected AMAP state changes on AOS		
Explanation:	Slight delay in common timeout in order to avoid unnecessary generation of AMAP traps of STP blocked ports. Added 40 secs in Common timeout value.		
PR	94907	Build:	5.1.6.164.R02
Summary:	"Show 802.1x 1/1" command doesn't display anything. Other ports are OK.		
Explanation:	Fixed Display Issue with showing 802.1x information on the first port (1/1) using command "show 802.1x 1/1" caused due to a wrong interpretation of index for the port number 1/1.		
PR	97691	Build:	5.1.6.165.R02
Summary:	Loss of config in the boot.cfg when saving to working with Omni View		
Explanation:	This is to fix the loss of configuration in boot.cfg when the command "Saving to Working" is issued from Omni View continuously. Before the fix, some of the configuration in boot.cfg would be lost when doing so.		
PR	98218	Build:	5.1.6.167.R02
Summary:	Show cmm command not displaying " Module in slot CMM-A-2 " (PROCESSOR card)		
Explanation:	A subroutine function which is to be called to display the details of CMM-A-2 Processor Card was not called. So we made the code changes to do that.		

PR	86714	Build:	5.1.6.168.R02
Summary:	HTTP Re-direct is not working with a proxy server		
PR	98292	Build:	5.1.6.169.R02
Summary:	CS Debug: STR NON FATAL message during copy working certified - cs_csm_main.c		
Explanation:	The reason for the FATAL error was that the message CSM_CSM_CERTIFIED was not handled and considered as default message. The fix is to handle this message to avoid the FATAL message, but no processing as it is not required.		
PR	98269	Build:	5.1.6.170.R02
Summary:	All the traffic sent out a mobile port is tagged		
Explanation:	Fix is done to set the hardware tagging bit for a specific mobile tag enabled vlan for sending tagged packets through mobile ports.		
PR	98408	Build:	5.1.6.170.R02
Summary:	OSPF ECMP over P2P interfaces does not work when the route originates from the same Router ID		
Explanation:	OSPF ECMP gateways are not correctly computed when there is more than one point-to-point or point-to-multipoint interface between a pair of OSPF routers.		

Problems Fixed Between Builds 171 and 198

PR	95307	Build:	5.1.6.171.R02
Summary:	Multicast clients were not able to join the server located on other switch.		
Explanation:	In some cases Multicast Flow information maintained in Software was not removed properly and hence when the multicast traffic flow comes back after sometime, duplicate flow entry was created in software and the flow which eventually got removed from Hardware was not formed properly. Resolved this by making removal of multicast flow entries consistent between software and hardware.		
PR	99199	Build:	5.1.6.172.R02
Summary:	PIM-SM is not processing fragmented bootstrap messages		
Explanation:	When a router is sending more than 100 Rendez-Vous points, he needs to fragment the information in multiple packets. The problem was that AOS was only taking care of the first packet. So a lot of Rendez-Vous points were missing. With this version, AOS is now taking care of all the packets. Don't forget to refer to the Tech Tip section in order to know how to increase the number of Rendez-Vous point up to 255.		
PR	99323	Build:	5.1.6.173.R02
Summary:	Issues with aggregating and redistributing local routes through RIP.		
Explanation:	RIP redistributes aggregate routes configured in boot.cfg after restart		

PR	98954	Build:	5.1.6.174.R02
Summary:	Switch crashed due to floating point error Exception IEEE-754		
Explanation:	The expression causing the floating point error is fixed by modifying the expression		
PR	97851	Build:	5.1.6.175.R02
Summary:	High ports scan makes Telnet, FTP ports unreachable		
Explanation:	At a very high rate of TCP port scan on the AOS switch using nmap tool, TELNET, FTP and SSH top ports go into CLOSE_WAIT state and are never reclaimed back to the system and after sometime all the TCP sockets for telnet, ftp and ssh go in such state and the system cannot take up anymore connections because of non-availability of socket resources. Added cleanup logic in TCP code which reclaims back stale PCBs & socket connections and hence the system will be still reachable on these TCP ports even under strong attack conditions.		
PR	99573	Build:	5.1.6.176.R02
Summary:	CPU shooting to 100% with 64 bytes pkts at line rate on mobile ports		
Explanation:	With 64 bytes packets coming in at line rate on a mobile port, some of the ASIC registers holding group mobility information were disturbed causing the ASIC to send up the packet continuously to the software though the mac-address was programmed in the ASIC L2 table. Added fix which resolved timing related issues with Source Learning on Mobile Ports on OS6600		
PR	96220	Build:	5.1.6.178.R02
Summary:	OS6602 running on BPS only can reset and generate pmd file		
Explanation:	The Alcatel Omni Switch 6602 may send wrong error messages regarding the Backup Power Supply (BPS) presence when running on BPS only (the main Power Supply is turned off). This can sometimes cause the switch to reboot.		
PR	96782	Build:	5.1.6.178.R02
Summary:	Cannot open a Telnet, FTP, SSH session on 6602 via 4024 connected over a Tag Giga fiber link		
Explanation:	OS6600 forwards/floods packets of sizes less than 64 bytes (runt packets) when packets come in as tagged and are forwarded as untagged. Added software fix for padding any runt frame, either received from an adjacent switch or which is generated from the switch itself. Also with the fix tagged packets generated locally from the switch are sent out with at least 68 bytes (inclusive of Ethernet FCS).		
PR	99814	Build:	5.1.6.181.R02
Summary:	Information about linkagg is not recorded in the swlog files when using R5.1.5.227.R04.		
Explanation:	SWLOG messages has been added during trap generation of the Agg up/down and port join/leave events.		

PR	99632	Build:	5.1.6.182.R02
Summary:	CLI unavailable after exiting telnet without answering to a confirm reload query		
Explanation:	If a telnet session is opened to an AOS switch (OS6 - OS7 - OS8) and the command "reload all in 1" is executed *without answering to the confirm query* the telnet application is closed, then the system seems to be locked. The switch seems to be able to switch correctly after the issue is reproduced but it is impossible to execute any software reload or takeover commands. Even some other CLI commands are impossible. This problem is due to synchronization issues with the MIP gateway task and other tasks which are involved during the command execution. This problem is resolved by introducing a 15 second timeout delay for the user confirmation and by detecting that the user session from where the command was executed has exited.		
PR	99842	Build:	5.1.6.183.R02
Summary:	Port path cost parameter of MSTP configuration file do not apply on 10Gig port of 8800 when rebooted		
Explanation:	Code is added in MST Port configuration function for handling 10 Gig ports. Get the proper "external port id" of the 10 Gig port and retrieve the port parameter values which is configured already for that 10 Gig port id and send those values to NI.		
PR	100016	Build:	5.1.6.183.R02
Summary:	Problems with using network group wildcard 0.0.0.0 in QoS		
PR	90581	Build:	5.1.6.184.R02
Summary:	httpServerDoSAttackTrap contains no src IP of the attack		
PR	99634	Build:	5.1.6.185.R02
Summary:	System Crash if the character * is used at the end of an rcp command		
Explanation:	The use of "*" character in file system commands causing system crash is fixed.		
PR	99845	Build:	5.1.6.185.R02
Summary:	BPDUs are not sent out from BPDUSHUTDown Ports		
Explanation:	BPDU shutdown feature is slightly modified to send out BPDUs through the BPDU shutdown ports.		
PR	100082	Build:	5.1.6.186.R02
Summary:	A LinkAgg port within an aggregate may prevent any traffic to be sent out or received after a reboot		
Explanation:	Fix for resolving the racing condition of link agg events in NI STP module.		
PR	100275	Build:	5.1.6.187.R02
Summary:	Error Data Access Exception on QoS task		
Explanation:	Invalid buffer handling was not proper in QoS socket path. Fix has been done.		

PR	99886	Build:	5.1.6.188.R02
Summary:	NI Task suspended TaskName: talpni followed by NI reboot		
Explanation:	Added invalid memory check at lower boundary of memPools		
PR	100171	Build:	5.1.6.189.R02
Summary:	OS6 stalled with QDISPATCHER warnings and Invalid Address used during a memory free with MemMon dump		
Explanation:	IPC Receive logic in 6600 had couple of flaws which resulted in bad memory reference, bad receive and memory double free errors. Resolved these by improving the IPC receive logic and fixing some of the loopholes in transmit functions.		
PR	92522	Build:	5.1.6.191.R02
Summary:	Show system recommends cleanup when it's not needed to do it		
Explanation:	On an OS8800 running 5.1.6.R01, the "show system" command will recommend to cleanup the flash because there is little space remaining after the installation. This message is informational only, and cleanup is not mandatory.		
PR	99354	Build:	5.1.6.194.R02
Summary:	AOS switch doesn't recognize an OS6200 in AMAP neighborship		
Explanation:	OS6200 variants device identifiers have been properly defined in AOS for displaying the device name correctly.		
PR	82076	Build:	5.1.6.195.R02
Summary:	Power Down/Up traps not sent to the NMS station if the redundant power supply isn't on primary unit		
PR	100272	Build:	5.1.6.195.R02
Summary:	Impossible to modify NTP configuration - Internal Error returned by CLI		
Explanation:	In some cases Address Family in received NTP packet was modified to AF_UNSPEC because of which sendto failures were encountered and NTP configuration was failing. Resolved sendto failures by avoiding change of address family for udp packets sent through the loopback interface.		
PR	100358	Build:	5.1.6.195.R02
Summary:	OS6602 doesn't respect IP mobility rule when MAC rule is removed. Impacts Quarantine Manager QM		
Explanation:	VLAN port hardware setting is not flushed properly when MAC rule is getting deleted. So fix is done to flush the VLAN port hardware setting of that specific VLAN configured in that rule.		
PR	100422	Build:	5.1.6.195.R02
Summary:	No Trap are sent to the NMS when a stacking link is disconnected		

PR	100453	Build:	5.1.6.195.R02
Summary:	Need debugging commands on 6600 Switch to understand the reason for the DNS query rejection		
Explanation:	Present authentication page for a known mac not yet authenticated		
PR	100661	Build:	5.1.6.196.R02
Summary:	socket NI:2/0: invalid buf 0 message recorded on console upon NI reboot		
Explanation:	Qos log buffer gets corrupted when invalid socket messages are handled in Qos task.Rootcause for the corruption has been fixed.		
PR	97475	Build:	5.1.6.197.R02
Summary:	Coronado modules IN OS7 OS7-GNI-U12 are displayed wrongly on Omni Vista		
Explanation:	The type in Omni Vista is now returning for the OS7-GNI2-U12 is .1.3.6.1.4.1.6486.800.1.1.2.1.1.4.2.2.4 Please update in Omni View 301. OmniVista was returning correctly what the mib was supplying for that device.		
PR	99735	Build:	5.1.6.198.R02
Summary:	SSH crash when commands with long output run on SSH session with slow link to switch		
Explanation:	Under certain conditions when long show commands are issued on a ssh session, ssh task crash is observed and the switch reboots with a pmd. Avoided ssh crash by adding suitable defense checks in ssh software which validate a memory address before accessing it. Under conditions where an illegal pointer is being accessed the ssh session exits with a warning.		

Problems Fixed Between Builds 199 and 225

PR	100969	Build:	5.1.6.199.R02
Summary:	CPU spikes caused by TaGmnCtrl when changing VLAN port assignment		
Explanation:	Issue is due to the task stuck up in the for loop for 2-3 seconds. So CPU hikes to 100% utilization. Proper defense checks are added for reducing the for loop. Now 100% CPU usage is avoided.		
PR	99868	Build:	5.1.6.200.R02
Summary:	Switch is sending IGMP V1 and V2 query on a port with ONLY V1 client		
PR	99548	Build:	5.1.6.201.R02
Summary:	Interface uptime is wrongly displayed on AOS switches		
PR	101176	Build:	5.1.6.201.R02
Summary:	AOS switches go to unsaved state when trap replay turned on Omni Vista		
PR	100217	Build:	5.1.6.202.R02
Summary:	OS6 in stack: No STP convergence and STP Loop after a switch reboots		

PR	100871	Build:	5.1.6.204.R02
Summary:	Apply OpenSSH patch.		
PR	101359	Build:	5.1.6.205.R02
Summary:	CMM is not learning any MAC addresses on the LINKAGG after STP reconvergence		
PR	101421	Build:	5.1.6.206.R02
Summary:	OS6: Slow Management Telnet-Ping upon Linkagg Up-Down depending on the Up-Down order		
PR	97748	Build:	5.1.6.207.R02
Summary:	DHCP Frames are not bridged with avlan default traffic enable		
Explanation:	Fixed flooding of DHCP Packets originating from Clients on a port which is avlan enabled. Also when flooding failed due to some reasons the packet buffer is released properly.		
PR	101219	Build:	5.1.6.209.R02
Summary:	OS6600 seems to replicate IGMPv2 membership reports when streaming video		
PR	101593	Build:	5.1.6.209.R02
Summary:	Mirrored port loses connection to VRRP VIP address, Its DGW. Can't go outside its VLAN.		
PR	101676	Build:	5.1.6.211.R02
Summary:	OS6 QoS depleting the IPC Pools		
Explanation:	IPC pool depletion issue in QoS Solved.		
PR	98796	Build:	5.1.6.212.R02
Summary:	AOS switch is generating ICMP host unreachable when arp entry is not in the arp table		
PR	101522	Build:	5.1.6.213.R02
Summary:	LSA from 64th neighbor not been programmed into the kernel routing table		
PR	101753	Build:	5.1.6.213.R02
Summary:	6800 Switch : Auth ip responding to Client DNS query before login		
PR	101672	Build:	5.1.6.214.R02
Summary:	No static route added when receiving IP address and gateway from DHCP with IP helper boot-up enabled		
PR	101475	Build:	5.1.6.215.R02
Summary:	100% CPU load as soon as port network cable on mobile port is unplugged and re-plugged		

PR	100512	Build:	5.1.6.216.R02
Summary:	ALL SNMP traffic (traps + replies) outgoing the switch should use Loopback0 as IP-SA		
Explanation:	All SNMP traffic should use Loopback0 as IP-SA if configured		
PR	101991	Build:	5.1.6.220.R02
Summary:	Crashes on AOS switches after turning on IPMS		
PR	102090	Build:	5.1.6.220.R02
Summary:	OS7 LinkAgg port is not learning/sending any traffic via one port on one VLAN		
PR	102212	Build:	5.1.6.221.R02
Summary:	MAC learned on Linkagg are not aging out in CMM		
PR	102303	Build:	5.1.6.222.R02
Summary:	Second stack switch gets IP address with source MAC address 00:00:00:01:00:00		
PR	101487	Build:	5.1.6.224.R02
Summary:	On OS68, IPMS is blocked when linkagg port disconnects		

Problems Fixed Between Builds 226 and 243

PR	82076	Build:	5.1.6.226.R02
Summary:	Power Down/Up traps not sent to the NMS station if the redundant power supply isn't on primary unit		
PR	92693	Build:	5.1.6.227.R02
Summary:	DHCP request is getting flooded in VLAN-1 even if ip helper configured on the switch.		
Explanation:	Flood DHCP on def vlan controlled by a flag		
PR	102397	Build:	5.1.6.228.R02
Summary:	Web View is not displaying GNI2-U2 NI module		
PR	100359	Build:	5.1.6.229.R02
Summary:	OS66: Secure View ACL "Rule will never be valid" but should be accepted		
PR	90090	Build:	5.1.6.230.R02
Summary:	Enhancement for Ingress flood limit		

PR	101253	Build:	5.1.6.231.R02
Summary:	Webview task is running at 100% when logging using http		
Explanation:	When an AVLAN client connects from a PC running Windows Vista, there might be a CPU spike in the switch or in the Windows PC. Also the webview pages might take a long time to download. In such situations the value of the flag 'taskdelaytransmitpend' should be set to 1 either in dshell dshell->taskdelaytransmitpend=1 or should be given in AlcatelDebug.cfg file (placed in /flash/working) as debug set taskdelaytransmitpend 1 and the switch should be rebooted.		
PR	99748	Build:	5.1.6.232.R02
Summary:	CLI lock up if the telnet session to the switch is lost when trying to read a pmd file		
Explanation:	Mismatch between the MIB file and trap manager file is fixed		
PR	102718	Build:	5.1.6.233.R02
Summary:	Renew AVLAN java applets		
PR	103096	Build:	5.1.6.234.R02
Summary:	L3SrcUnicast L3DestBroad DHCP packets are not relayed if the L3 src is in the DHCP server network		
PR	101577	Build:	5.1.6.235.R02
Summary:	The mac-address of the client shows up in the Avlan and Default Vlan even after getting de-authen.		
Explanation:	Corrected Mac-address comparison for avlan client mac-address in a specific scenario.		
PR	102483	Build:	5.1.6.235.R02
Summary:	VRRP ARP entry not updated after removing one NI from a Link agg		
PR	102979	Build:	5.1.6.237.R02
Summary:	Unable to display switch log file in Web View		
PR	103093	Build:	5.1.6.237.R02
Summary:	After canceling the scheduled reload it affects the configuration status; Need fix.		
PR	104222	Build:	5.1.6.239.R02
Summary:	Unable to save MD5 ospf configuration		
PR	101544	Build:	5.1.6.240.R02
Summary:	SLB does not work once ip SLB server admin status is disable and enable again		
PR	104067	Build:	5.1.6.242.R02
Summary:	Corrupted multicast entries		

Problems Fixed Between Builds 244 and 292

PR	102530	Build:	5.1.6.244.R02
Summary:	Last change value for vlan IP not displayed correctly in Omni Vista.		
PR	101161	Build:	5.1.6.246.R02
Summary:	There is a route mismatch between the RIP table and the kernel table.		
Explanation:	RIP requires two actions be performed by IPRM while updating a route (i.e. delete the route first and then add the new route). These two actions performed by IPRM end up with an inconsistency in the routing table. Now the solution is to have RIP handle updates in one action i.e. the REPLACE action as is already followed by current OSPF module. This change will get rid of the routing table inconsistencies caused by earlier code.		
PR	103952	Build:	5.1.6.247.R02
Summary:	Some VRRP instances failed to ping response when Primary CMM failover		
PR	104059	Build:	5.1.6.247.R02
Summary:	QoS classifyI3 bridged causes the switch not to forward traffic after HSRP routers toggle		
PR	105359	Build:	5.1.6.247.R02
Summary:	Huge volume of multicast traffic spikes the CPU TO 100 % with TTL value set to 1 in 6602		
Explanation:	Reduce IPMS processing for multicast data packets with IP TTL 1 which are sent to software for statistics purpose.		
PR	103547	Build:	5.1.6.248.R02
Summary:	OS7700: Previously configured static route doesn't work after rebooting the switch		
PR	98493	Build:	5.1.6.250.R02
Summary:	The Switch uses the outer "anonymous" Username in 802.1x Accounting packet in case of EAP-TTLS-PAP		
Explanation:	Radius Client Software on AOS ignores User-Name Attribute returned from Radius Server in Access Accept packets. As per Radius RFC this is not mandatory, but it is important to use this name for accounting requests where the clients authenticate based on ttls authentication mechanism wherein the inner user name is not interpreted by the AOS switches. With the Fix User Name if returned from Radius Server is interpreted and stored and used up for accounting requests and hence Radius Server maintains accounting based on the actual user name.		
PR	105737	Build:	5.1.6.250.R02
Summary:	"memPartAlloc: block too big" memory corruption with large STP configuration file		

PR	106142	Build:	5.1.6.251.R02
Summary:	The mac group policy doesn't work on a authenticated port		
PR	104053	Build:	5.1.6.253.R02
Summary:	Internal Error when creating an IP interface with more than 20 characters		
PR	105880	Build:	5.1.6.254.R02
Summary:	Impossible to stack 6602-48: csHsmNsmT2EndAppliStart() receive EOAS		
PR	94735	Build:	5.1.6.255.R02
Summary:	MAC aging issues on 6600 running 5.1.5 191 R04.		
PR	105231	Build:	5.1.6.255.R02
Summary:	OS6600: Ping issue between two PCs connected to the switch		
PR	105651	Build:	5.1.6.256.R02
Summary:	"ip rip route-tag" command doesn't stamp the packet with the specified value as told in manual		
PR	104852	Build:	5.1.6.258.R02
Summary:	802.1X non-Supp mac-authentication fails but port still passes unicast traffic		
PR	105114	Build:	5.1.6.258.R02
Summary:	6600 unit in stack comes back up after crash vlan port never goes to forwarding		
PR	105754	Build:	5.1.6.258.R02
Summary:	DHCP Relay forwarding do not comply with RFC2131 when the Offer is not in GiAddr subnet		
PR	106208	Build:	5.1.6.258.R02
Summary:	"ip ospf redistrib" metric type documentation confused and "show ip ospf route" type field inaccurate.		
PR	105047	Build:	5.1.6.259.R02
Summary:	802.1X ports still have 802.1X policies even though 802.1X is disabled		
PR	106406	Build:	5.1.6.259.R02
Summary:	See duplicate multicast packets on link aggregation ports		
PR	103192	Build:	5.1.6.260.R02
Summary:	System hung with crash file		
PR	106509	Build:	5.1.6.261.R02
Summary:	AMAP information of Local Slot not displayed properly when using a SNMP Get command on MIB Browser		

PR	106984	Build:	5.1.6.264.R02
Summary:	When doing QoS shaping on external hardware ARPs are discarded due to "best effort" priority		
PR	101093	Build:	5.1.6.265.R02
Summary:	Core2 7800: Unsolicited takeover		
Explanation:	Hello protocol messages to use URGENT pool buffers. Swlog not to wait-forever on message queue, instead timeout on one second		
PR	106871	Build:	5.1.6.266.R02
Summary:	Switch is not reading owner-attributes from LDAP : so ov3.3 Global QoS does not work		
PR	100712	Build:	5.1.6.267.R02
Summary:	Adjacencies in Web View displays question mark for 6200 switch.		
PR	106173	Build:	5.1.6.270.R02
Summary:	IP interface changes on the switch can not be seen on Omni Vista without reload		
PR	107418	Build:	5.1.6.270.R02
Summary:	OS7-OS68 LACP Linkagg port does not forward traffic after root bridge reboot		
PR	103257	Build:	5.1.6.271.R02
Summary:	System timezone configured on any AOS switch is not stored in boot.cfg		
PR	104966	Build:	5.1.6.273.R02
Summary:	802.1X Request Identity not triggered if there is no EAP-Start		
PR	107864	Build:	5.1.6.273.R02
Summary:	Port shutdown when CPU reach a configured Threshold		
PR	105775	Build:	5.1.6.274.R02
Summary:	OmniSwitch running DVMRP reporting "Recvd invalid mask "		
PR	107618	Build:	5.1.6.277.R02
Summary:	OSPF Route not synchronized with IP routing table		
PR	107599	Build:	5.1.6.278.R02
Summary:	Telnet/SSH/FTP do not work when local proxy ARP is enabled.		
PR	108143	Build:	5.1.6.279.R02
Summary:	OSPF LSDB entries do not register in the routing table		

PR	101853	Build:	5.1.6.281.R02
Summary:	When reading MIB entries a stack is handled as one chassis		
PR	96221	Build:	5.1.6.282.R02
Summary:	SFM down FABRIC: Awaiting enough UP Fabrics (#up=0)		
PR	94914	Build:	5.1.6.284.R02
Summary:	SNMP response sent twice for the first SNMP get		
Explanation:	Drop duplicate SNMP Request packets received in IPNI via the source learning path from hardware in the following particular case - when the destination IP is resolved and when the source IP is not yet resolved/learnt.		
PR	108528	Build:	5.1.6.285.R02
Summary:	Switch is not rechecking QoS policies when traffic path changes		
PR	108666	Build:	5.1.6.285.R02
Summary:	QoS "maximum bandwidth" limits bandwidth to values not accurate		
PR	108625	Build:	5.1.6.286.R02
Summary:	QoS task locked up when Omni Vista is disconnected while applying a new rule		
PR	101852	Build:	5.1.6.288.R02
Summary:	When reading MIB serial numbers are not shown completely		
PR	108713	Build:	5.1.6.288.R02
Summary:	LinkAgg Task crash after NI extraction		
PR	107504	Build:	5.1.6.289.R02
Summary:	RMON not updating		
PR	107583	Build:	5.1.6.289.R02
Summary:	Switch crashed with MemMon dump and source learning task suspended		
PR	108603	Build:	5.1.6.289.R02
Summary:	Switch Configuration Status Flag modified when executing the reload the command		
PR	103274	Build:	5.1.6.290.R02
Summary:	Memory corruption under special telnet exit with zcBufDelete: Task 0x4016020 freeing bad buffer (S)		
PR	105862	Build:	5.1.6.290.R02
Summary:	Client cannot get an IP address if avlan default-traffic is enabled.		



PR **108701** Build: 5.1.6.290.R02
 Summary: Static ARP entries are automatically added to the running configuration after a takeover on LA
 Explanation: Not to store bogus arp entries in configuration file.

PR **105084** Build: 5.1.6.291.R02
 Summary: Cannot Ping, Telnet, WebView, vlan1 ip obtained from ip helper bootup enable on 6600 switch

Problems Fixed Between Builds 293 and 338

PR **107600** Build: 5.1.6.293.R02
 Summary: On OS8800 GNI-U8 and ENI-C24 created PMD: Need analysis.

PR **108907** Build: 5.1.6.294.R02
 Summary: 802.1x port doesn't grab a IP until unless the port belongs to default vlan to which it moves

PR **108557** Build: 5.1.6.295.R02
 Summary: QoS policy though it is enabled and active, the enforced field for the configured policy is "No"

PR **108028** Build: 5.1.6.296.R02
 Summary: OS-6648 QDRIVER alert qd efp: enet buffer alloc failure

PR **97957** Build: 5.1.6.297.R02
 Summary: show log swlog does not print swlog2 file when swlog output flash is disabled
 Explanation: This is to fix the issue "If the switch is configured with "no swlog output flash" it would previously print only the swlog1 file on the CLI and not the swlog2 when executing "show log swlog". Now both swlog1 and swlog2 files are printed.

PR **108902** Build: 5.1.6.308.R02
 Summary: New burst of traffic is not being flooded (only 2 out of 10 packets are flooded)

PR **109307** Build: 5.1.6.308.R02
 Summary: Need a command to set the NAS-Port-Type on a switch

PR **109280** Build: 5.1.6.309.R02
 Summary: 68xx new daylight saving time for March 11, 2007 compliance does not work. It would select March 4

PR **109293** Build: 5.1.6.310.R02
 Summary: Ping across static linkagg failed when primary link failed

PR	107557	Build:	5.1.6.313.R02
Summary:	OS8800 - Switch crashed after adding new OSPF area into network. PMD files created.		
PR	108708	Build:	5.1.6.314.R02
Summary:	OSPF adjacency cleared and the CMM may reset when the system time is manually changed		
PR	104896	Build:	5.1.6.316.R02
Summary:	802.1x mac-auth users go down and never recover after 5 second spanning tree loop		
PR	109273	Build:	5.1.6.316.R02
Summary:	BPDUShutdownPorts is not working for 802.1x port		
PR	109315	Build:	5.1.6.316.R02
Summary:	OS7800: Dump File Analysis. Switch crashed with pmds.		
PR	109756	Build:	5.1.6.317.R02
Summary:	Unable to route IP traffic after turning on classifyI3 bridge		
PR	110083	Build:	5.1.6.318.R02
Summary:	It takes around 4 to 5 min for the mac-address to get flushed out when the auth client is disconnected		
PR	109706	Build:	5.1.6.320.R02
Summary:	Port blocking on a stack of 6602-48 after the power off of the primary unit.		
PR	100931	Build:	5.1.6.321.R02
Summary:	802.3ad (Dynamic) and Omnichannel (static) in AOS Vs Etherchannel in IBM P57D (AIX 50) server.		
PR	110380	Build:	5.1.6.322.R02
Summary:	Using any third party NMS the Designated Bridge shows wrongly on Non-Designated Bridge		
PR	110431	Build:	5.1.6.322.R02
Summary:	IGMP Report are not sent to the Querier if the Querier is learnt on the same port as the group		
PR	110032	Build:	5.1.6.324.R02
Summary:	Layer 2 access-list not working as expected in 5.1.6		
PR	108563	Build:	5.1.6.325.R02
Summary:	Unexpected takeover of CMM_B on a OS7700 with error exception - Floating-Point Exception IEEE-754		

PR	110224	Build:	5.1.6.327.R02
Summary:	After link down - multicast source is not registering with PIMSM RP		
PR	110228	Build:	5.1.6.328.R02
Summary:	PIM-SM Crash		
PR	97572	Build:	5.1.6.329.R02
Summary:	Error Message# Socket failed wdbConfig: error configuring WDB communication interface		
Explanation:	The error message "Socket failed wdbConfig: error configuring WDB communication" was displayed during the boot up of the switch. While looking at the code, we understood that the switch is trying to enable WDB during the bootup, which is not possible & unnecessary because the system resources will not be available at that time. So we stopped the system from trying to configure the WDB during bootup.		
PR	109997	Build:	5.1.6.330.R02
Summary:	OS-7000 showing many PORT-MGR messages		
PR	109140	Build:	5.1.6.331.R02
Summary:	7700 uptime reset after 497 days		
Explanation:	sysUpTime is not wrapped up after 497 days.		
PR	111033	Build:	5.1.6.332.R02
Summary:	Learned Port-Security with mac-range blocks valid and invalid mac-addresses		
PR	93822	Build:	5.1.6.334.R02
Summary:	Connectivity Issue in 10G Links between OS8800s		
Explanation:	Problem was discovered to be pre-production release hardware, either the XFP or the 10G NI. Once all hardware that was below proper rev was replaced issues were resolved.		
PR	111567	Build:	5.1.6.334.R02
Summary:	STP crash while hotswaping 10 Gigabit module		
Explanation:	Check added to avoid crash during SNMP get on STP tables.		
PR	111693	Build:	5.1.6.334.R02
Summary:	IPEDR Task taking IPC resources		
Explanation:	Retry counters introduced to avoid infinite retry of messages from CMM to NI when congestion is detected on the control sockets.		
PR	112256	Build:	5.1.6.337.R02
Summary:	NI remained down after CMM takeover		
PR	110374	Build:	5.1.6.338.R02
Summary:	IGMP Report Messages are duplicated, proxy behavior is not clear		

Problems Fixed Between Builds 339 and 346

PR **110080** Build: 5.1.6.339.R02
 Summary: 7700 crash with memory exception

PR **92679** Build: 5.1.6.340.R02
 Summary: Task tpimsm suspended after some configuration changes
 Explanation: Using Static-RP Configuration and then changing the max-rps may cause tpimsm to suspend.

PR **108012** Build: 5.1.6.342.R02
 Summary: OSPF LSDB routes not being processed

PR **91941** Build: 5.1.6.343.R02
 Summary: Wrong telnet AVLAN address when enable AVLAN and get internal error when try to correct
 Explanation: When user configures a vlan as an authentication vlan before assigning an IP address to the vlan, the vlan gets an invalid AVLAN address needed for telnet and web authentication

PR **92104** Build: 5.1.6.343.R02
 Summary: Web View and cli doesn't have the same ip interface forwarding state
 Explanation: Web View or SNMP incorrectly shows the forwarding state of an IP interface as "forwarding", even though the IP interface is administratively/operationally down.

PR **92314** Build: 5.1.6.343.R02
 Summary: Web View Layer 2 static link agg add invalid port and the error message is behind the window.
 Explanation: In Web View, Layer 2 > Link Aggregation > Static > Port add page whenever there's an error and the error message layer appears the select boxes block the error message.

PR **112381** Build: 5.1.6.344.R02
 Summary: UDP relay does not forward broadcast UDP packets
 Explanation: Supporting subnet broadcast at vlan level.

PR **107673** Build: 5.1.6.345.R02
 Summary: task taQoS was suspended on NI-8 and pmd file created need to analyze the same :

PR **111025** Build: 5.1.6.345.R02
 Summary: 802.1x failure result in PC grabbing wrong IP address.

PR **109011** Build: 5.1.6.346.R02
 Summary: When PC moved from one vlan to another the PC still pulls up the same IP as earlier vlan subnet

Problems Fixed Between Builds 347 and 370

PR	111238	Build:	5.1.6.347.R02
Summary:	OS9700 Cannot RIP peer with other vend router. RIP updates received only once after interface is up.		
PR	113129	Build:	5.1.6.347.R02
Summary:	Certain AVLAN client cant get log off from switch		
Explanation:	The avlan auth ip structure gets corrupted, when a vlan is deleted. The corruption is prevented by using the new vlan instead of previous index while initializing the auth-ip to zero.		
PR	110678	Build:	5.1.6.348.R02
Summary:	Issue with 802.1X acquiring DHCP IP address(8800 and 7800 switches)		
PR	113556	Build:	5.1.6.348.R02
Summary:	6600 running 5.1.6.R02 creates extra policy rules while creating a policy using OneTouch voice/data		
PR	110000	Build:	5.1.6.349.R02
Summary:	PMD analysis required as Takeover happened in the core 8800 switch and pmd files created.		
PR	106638	Build:	5.1.6.352.R02
Summary:	System crash upon creating a new VLAN with CS excep handler: exception 768 in task 0x89b4a40		
PR	108236	Build:	5.1.6.352.R02
Summary:	6648 reporting IPMS memory allocation		
PR	112742	Build:	5.1.6.352.R02
Summary:	Admin down/up on 10G, random Vlan stops learning/forwarding after reconvergence		
PR	114577	Build:	5.1.6.352.R02
Summary:	PORT MIRRORING IS NOT WORKING ON OS7700.		
PR	114504	Build:	5.1.6.353.R02
Summary:	OSPF Border Routers aging out on second hop router, first router not flooding LSA		
PR	113585	Build:	5.1.6.354.R02
Summary:	7800 switch does not respond to SNMP query for GNI2-U2 module		

PR	113940	Build:	5.1.6.355.R02
Summary:	OS7800: PMD file analysis. slo2sli0ver1.pmd formed due to NI monitoring timeout.		
PR	105907	Build:	5.1.6.356.R02
Summary:	OS8800 rebooted creating cs_system.pmd file.error Task: 0x5014f60 "UdpRly" seen in logs.		
PR	114168	Build:	5.1.6.358.R02
Summary:	SNMP Walk on vlan interfaces of OS8800 (5.1.6.270R02) doesnot update correctly when vlan is deleted		
PR	114746	Build:	5.1.6.359.R02
Summary:	6200 :: %BRG_AMAP-N-AMAP_STATUS: AMAP status: Port g1 data changed.		
Explanation:	Initialize the buffer used for filling system name so that AMAP status change messages are not displayed wrongly.		
PR	108934	Build:	5.1.6.360.R02
Summary:	Telnet session ending issue		
PR	115064	Build:	5.1.6.360.R02
Summary:	Port status is Forwarding without a cable attached.		
PR	108177	Build:	5.1.6.361.R02
Summary:	Unable to create IPMS forwarding entry		
PR	108600	Build:	5.1.6.363.R02
Summary:	Lpower ->suspended on stack of 6600 and created dump file		
PR	109555	Build:	5.1.6.364.R02
Summary:	AOS 6800 24L - Web view displays flash-synchro completed while synchronization is still running		
PR	111412	Build:	5.1.6.365.R02
Summary:	OS9700 creates dump file and NI 2 hangs up for 5 minutes after upgrading the code.		
Explanation:	Process linkAgg Marker PDU's on the ports only where linkagg is enabled. If marker PDU's are received on non-linkAgg ports discard those packets.		
PR	112456	Build:	5.1.6.365.R02
Summary:	When STP is disabled able to see the RP and NBRP		
Explanation:	Resetting the Spanning Tree parameters if the Spanning tree is disabled.		
PR	115297	Build:	5.1.6.366.R02
Summary:	NETWORK INSTABILITY WHEN CHANGING THE PORT BLOCKING		

PR **115736** Build: 5.1.6.367.R02
 Summary: Show aaa avlan auth-ip <vlan#> shows unexpected results.

PR **115828** Build: 5.1.6.368.R02
 Summary: Error when Switch is getting a DHCP address

PR **111585** Build: 5.1.6.369.R02
 Summary: Omni Vista Showing High CPU Traps

PR **115340** Build: 5.1.6.369.R02
 Summary: Reboots with unknown cause in 66xx stack.
 Explanation: PMD enhancement to include the NI history buffer information

Problems Fixed Between Builds 371 and 394

PR **115499** Build: 5.1.6.372.R02
 Summary: SNMP "get" returns wrong values for some AOS mibs

PR **115941** Build: 5.1.6.372.R02
 Summary: SNMP object entLastChangeTime is not returning the right value

PR **116191** Build: 5.1.6.383.R02
 Summary: Show vlan [instance] port and show spantree ports, display different results in 6602 with 5.1.6.353

PR **116786** Build: 5.1.6.383.R02
 Summary: OSPF issue: In NSSA redistributed RIP routes are not learned with correct destination IP

PR **117241** Build: 5.1.6.385.R02
 Summary: Power lost on 10G cards after upgrading 8800 from 5.1.6.158.R02 to 5.1.6.370.R02

PR **116074** Build: 5.1.6.388.R02
 Summary: 7800 rebooted twice automatically and created system pmd file

PR **116094** Build: 5.1.6.389.R02
 Summary: PX: info memPartAlloc: block too big - 2048 in partition 0x3cd99c. -- error on console

PR **117587** Build: 5.1.6.391.R02
 Summary: "INVALID OUI" error while trying to configure new mac-range on a 7700 running 5.1.5.316.R04.

PR **116748** Build: 5.1.6.394.R02
 Summary: Debug memory command crashed the switch

Problems Fixed Between Builds 395 and 416

PR	91010	Build:	5.1.6.395.R02
Summary:	Disable IPMS query completely		
PR	117322	Build:	5.1.6.396.R02
Summary:	OS7800 Crash producing Rmon task error		
PR	118304	Build:	5.1.6.398.R02
Summary:	Source Learning is stuck with 100% CPU		
PR	118614	Build:	5.1.6.401.R02
Summary:	OSPF issue: cannot configure Hello & Dead Interval.		
PR	111559	Build:	5.1.6.406.R02
Summary:	6600 port remains in blocking state after modification of the 802.1Q vlan port description		
Explanation:	Changing the 802.1Q description of a vlan port/Linkagg have been handled.		
PR	117498	Build:	5.1.6.406.R02
Summary:	OS7700: ARP change on a static link agg causes SLB connection failure.		
PR	118662	Build:	5.1.6.406.R02
Summary:	6602 Idle Unit Crashed During Flash Synchro		
PR	118993	Build:	5.1.6.407.R02
Summary:	Commands "write memory" and "copy running-config working" give different results		
PR	119239	Build:	5.1.6.407.R02
Summary:	OS 6602: active policy display problem		
PR	98291	Build:	5.1.6.408.R02
Summary:	BPDU are not sent out when reverting back to STP Flat Mode and re-enabling VLAN 1		
Explanation:	In FLAT mode, STP kernel is enabled when VLAN admin state is received after the vlan stp state.		
PR	118750	Build:	5.1.6.410.R02
Summary:	Messages to Syslog server do not use Loopback0 as IP-SRC		
PR	118597	Build:	5.1.6.412.R02
Summary:	OS 9700: PMD files generated. Require analysis.		

PR **118937** Build: 5.1.6.413.R02
 Summary: OS-6600: Unexpected reboot of a stack of three 6600 running 5.1.6.370.R02

Problems Fixed Between Builds 417 and 436

PR **119386** Build: 5.1.6.417.R02
 Summary: 7700/6800 switch processing the unicast ARP reply not destined for it.
 Explanation: Block ARP reply packets which are not destined for switch configured IP interfaces, upon request.

PR **119965** Build: 5.1.6.422.R02
 Summary: 6602 crashed with data access exception

PR **88557** Build: 5.1.6.423.R02
 Summary: Need the ability to disable auto-negotiation on GNI U2 and U12

PR **119893** Build: 5.1.6.424.R02
 Summary: If RADIUS server returns bogus value in "Alcatel-Lucent-Asa-Access" flag the CPU is going to 100%.

PR **119696** Build: 5.1.6.425.R02
 Summary: STR NON FATAL: CMM Power set to default value (50 Watts) on OS7000-5.1.6.404R02 seen in every bootup
 Explanation: entPhysicalPower value is properly updated using the value from BBUS Bridge EEPROM

PR **120114** Build: 5.1.6.425.R02
 Summary: A stack of 4 6602 switches crashes frequently and created Dump files.

PR **104054** Build: 5.1.6.426.R02
 Summary: Internal Error when executing "802.1x initialize slot/port" on non 802.1x ports

PR **120005** Build: 5.1.6.427.R02
 Summary: Crash Analysis 8800

PR **116520** Build: 5.1.6.428.R02
 Summary: Explain the details that could be observed and collected on a spy output

PR **120132** Build: 5.1.6.430.R02
 Summary: OS7 need not to route packets arriving with destination mac address is router mac of another vlan
 Explanation: Allow to add router mac in the L2DA Table using a command executed only during bootup

PR	120451	Build:	5.1.6.432.R02
Summary:	Multicast Delay after VRRP Takeover between OS-7000 Switches.		
PR	118864	Build:	5.1.6.433.R02
Summary:	SNMPagt crashed need dump analysis		
PR	120667	Build:	5.1.6.434.R02
Summary:	100% CPU SPIKE ON OS6602-48 . SNMPAGENT TASK IS CONSUMING HIGH PERCENTAGE.		
PR	120670	Build:	5.1.6.435.R02
Summary:	Multicast problem on 6602 running 5.1.6.416.R02,		

Problems Fixed Between Builds 437 and 458

PR	119761	Build:	5.1.6.438.R02
Summary:	Cpu spikes up due to the IPmem process on 8800.		
Explanation:	Changes made to report message should not be transmitted to the neighbor port if the port on which the report has been received and the neighbor connected is same. We dont generate a report message if the client port is same as the querier port.		
PR	120398	Build:	5.1.6.438.R02
Summary:	MemDump:Invalid Address used during a memory free (0x312ac) on OS6602 stack-5.1.6.315R02		
Explanation:	Dump the task Name and task ID (in swlog) of the task which did a invalid free and dump its tt in the memmon dmp file.		
PR	120652	Build:	5.1.6.442.R02
Summary:	Received packet loss on GNI-U12		
Explanation:	Fix to dispaly rx lost frms in cli		
PR	120335	Build:	5.1.6.443.R02
Summary:	It takes long time for Windows Vista Avlan client to download the Java applet after web authentication		
Explanation:	We currently Support Java- SE Runtime Environment 6 update 3. Java version 1.6.0_03 jre-6u3-windows-i586-p-s.exe		
	Notes: Other Java versions may not have been tested and nor supported.		

PR	120915	Build:	5.1.6.445.R02
Summary:	Slow avlan authentication, ip reassigning using Window Vista client		
Explanation:	We currently Support Java- SE Runtime Environment 6 update 3. Java version 1.6.0_03 jre-6u3-windows-i586-p-s.exe		
	Notes: Other Java versions may not have been tested and nor supported.		
PR	121054	Build:	5.1.6.446.R02
Summary:	After STP changes, Multicast devices do not respond to Multicast query, and hence query timeout		
Explanation:	Avoid flooding of Multicast Packets after IP-PORT Movement. Handle packets coming through unresolved channel in IPMS after IP-PORT Movement.		
PR	121079	Build:	5.1.6.447.R02
Summary:	Linkagg getting stuck after several admin up/down port states.		
Explanation:	Modified to get the queue info from correct structure to avoid link aggregation getting stuck after multiple admin up/down port states.		
PR	120574	Build:	5.1.6.451.R02
Summary:	Network 10 alone not getting redistributed; OS6800		
PR	121290	Build:	5.1.6.452.R02
Summary:	Wake on Lan on 802.1x port does not work properly on OS6800 running 6.3.1R01.		
Explanation:	Fixed the issue in opening the egress logic of a 802.1x enabled port		
PR	96223	Build:	5.1.6.454.R02
Summary:	OSPF RIP aggregate default route is not learned by OSPF		
Explanation:	OSPF installs the alternate redistributed route into external database by looking into the FDB and inserting the current active route.		
PR	119726	Build:	5.1.6.455.R02
Summary:	Cannot disable ip multicast proxying		
Explanation:	Save multicast no proxying command into boot.cfg		
PR	121547	Build:	5.1.6.456.R02
Summary:	Port Shutdown feature CPU Timeout -Seconds does not work properly OS 6600 AOS release 5.1.6.R02.435		
Explanation:	Fix to shut the port based on the configured timeout		
PR	121908	Build:	5.1.6.457.R02
Summary:	OS6600 crashed due to QOS stack overflow.		

PR **120738** Build: 5.1.6.458.R02
 Summary: Non-contiguous mask in a static route getting changed in "Show ip route".
 Explanation: Validation done to check non contiguous mask in a static route.

Problems Fixed Between Builds 459 and 474

PR **120990** Build: 5.1.6.460.R02
 Summary: OS7700: TCP packet sequence stops Broadcast/Multicast on OS7-GNI2-C12 port
 Explanation: Code changes to avoid layer2 switching ASIC flood queue lockup issue

PR **120581** Build: 5.1.6.461.R02
 Summary: User authentication failed using LDAP server
 Explanation: Use nonblocking LDAP API calls to avoid lockup between the LDAP Main task and the LDAP client task.

PR **119874** Build: 5.1.6.464.R02
 Summary: 1 hr max CPU value not showing correct value on OS7800
 Explanation: Display 1 hour Maximum Value correctly in "show health"

PR **123159** Build: 5.1.6.465.R02
 Summary: 6850 reboots after scanning it using Network security scanning tool
 Explanation: To fix Emweb server crash when the Network security scanning tool is used to scan the switch.

PR **122693** Build: 5.1.6.467.R02
 Summary: Functionality issue with "ip ospf redistribute RIP 0.0.0.0 0.0.0.0 redistribute control aggregate" command
 Explanation: Update the external Link State Database on route changes, when different routes are present for the same network

PR **123708** Build: 5.1.6.468.R02
 Summary: FTP authentication failed.
 Explanation: Ignore authentication only if user is NI

PR **121836** Build: 5.1.6.469.R02
 Summary: OS7800 crashed with Hardware Failure type 4 and memory buffer depletion exception

PR **122781** Build: 5.1.6.471.R02
 Summary: OS8800 - Switch Crash. PMD file analysis required.
 Explanation: UDP packets in NI are rate limited to 256 pkts/ sec and 1024 pkts/ sec on the CMM. This is to ensure a storm of UDP broadcast traffic does not chew up all the system buffers.

Problems Fixed Between Builds 475 and 481

PR	119133	Build:	5.1.6.475.R02
Summary:	Stack of 6600 is learning MAC addresses as static instead of dynamic in 5.4.1.234.R01		
PR	123713	Build:	5.1.6.475.R02
Summary:	PMD File analysis. Failed to flash synchro after upgrade		
Explanation:	Defense fix made to avoid floating point exception in BGP task		
PR	124343	Build:	5.1.6.476.R02
Summary:	6648 .PMD DUMP Analysis		
Explanation:	Validity check introduced for URL lookup in file system		
PR	123052	Build:	5.1.6.477.R02
Summary:	show spantree cist ports displays wrong primary port for Linkagg		
Explanation:	Changes done to display the primary port field correctly for Linkagg ports in "show spantree cist ports active" command		
PR	124524	Build:	5.1.6.479.R02
Summary:	To configure ACL to drop LLDP packets.		
Explanation:	Feature for dropping the LLDP packets on 7700 and 8800		
PR	124550	Build:	5.1.6.479.R02
Summary:	INTIP card not able to download image from TFTP server when 6602 is VRRP Primary		
Explanation:	Dropping packet from unresolved channel to CPU to avoid duplicate ICMP reply in case of VRRP VIP and VLAN interface IP are different.		
PR	123413	Build:	5.1.6.481.R02
Summary:	BBUS resets during the takeover affecting the communication of the Primary and Secondary CMM.		
Explanation:	Enabled auto hello answer and BBUS reset on Primary during secondary hello inactivity, to stabilize the BBUS and avoid takeover.		

Problems Fixed Between Builds 482 and 485

PR	125229	Build:	5.1.6.482.R02
Summary:	OSPF Entry not flushed		
Explanation:	Message to Registered Modules is triggered when a Route Del Event happens during Redistribution		
PR	126097	Build:	5.1.6.484.R02
Summary:	NI HW problem. HW fail type: 4		
Explanation:	Avoid learning 224.0.0.x control multicast range as group updates in the switch.		

Problems Fixed Between Builds 486 and 493

PR **124132** Build: 5.1.6.487.R02
 Summary: Prepend values are not displayed for the Secondary IP of the vlan
 Explanation: Check for Number of AS Prepended when Queued attribute found for route

PR **125939** Build: 5.1.6.488.R02
 Summary: Unable to associate a name with a static arp
 Explanation: Slot/Port value not overridden when arp-name configured for a static arp

PR **127107** Build: 5.1.6.488.R02
 Summary: arp name incorrectly displayed
 Explanation: arp name display corrected

PR **126429** Build: 5.1.6.490.R02
 Summary: Switches are learning neighbor even though they are not connected directly.
 Explanation: Enhanced source learning debugs to track AMAP mac addition/deletion.

Problems Fixed Between Builds 494 and 498

PR **127484** Build: 5.1.6.494.R02
 Summary: To merge restricted TCN feature from 6.3.1 to 5.1.6
 Explanation: Feature for restricting the TCN in 5x.

PR **127658** Build: 5.1.6.495.R02
 Summary: Stack OS6600: Disabling Port Flapping feature is taken into account by only PRIMARY unit
 Explanation: Send PortFlap Config to the NIs after they are up

PR **128001** Build: 5.1.6.496.R02
 Summary: BBUS Hardware timeout error on the swlog NI one reset causes all other NIs router MAC flush
 Explanation: Prevention of special DA Mac deletion after NI 1 reset.

Problems Fixed Between Builds 499 and 502

PR **128187** Build: 5.1.6.499.R02
 Summary: OS7800 - error Exception: Mem Address Not Aligned for task VlanMgr
 Explanation: Handled "Mem Address Not Aligned" exception in task 'VlanMgr'.

PR **128104** Build: 5.1.6.502.R02
 Summary: Even there are no changes in the configuration, exit command prompts so - in 6.3.1 R01
 Explanation: Whenever the show tech-support command is executed without any change in the configuration the switch is exited normally.

PR **128338** Build: 5.1.6.502.R02
 Summary: OS8800 - alert Socket ID: 0x143, Task : 0x4b548b0(lpedr), APPID: 15, SNAPID: 8 MESSAGES.
 Explanation: Defence fix to avoid EAGAIN errno looping infinite times in ipedr send task

Problems Fixed Between Builds 503 and 508

PR **128844** Build: 5.1.6.504.R02
 Summary: OS7700 crash and lost the LACP configurations in Cornado 1 NIs and CMM-B down
 Explanation: More debug information has been added to provide the name of the file opened and the reason for which fopen() has failed. Retry counter has been added , to set the severity of error message.

PR **128328** Build: 5.1.6.505.R02
 Summary: Command to change the source of SNMP replies.
 Explanation: New CLI introduced to control the Source IP of the SNMP packets originating from the switch

PR **129515** Build: 5.1.6.505.R02
 Summary: On 6602-48 stack , ports 1-18 or 33-50 missing when we poll the OID 1.3.6.1.2.1.17.1.4 through mib browser
 Explanation: Code changes to prevent same bridgePort numbers created for ports in 6648 (48 port) stack of switches.

PR **127546** Build: 5.1.6.506.R02
 Summary: Removing mobility rule for a vlan blocks all ports for that vlan
 Explanation: Default vlan association wont be deleted upon deleting a GM rule.

PR **127622** Build: 5.1.6.506.R02
 Summary: "show amap" returns unknown when remote switch is a 6400
 Explanation: Included OS6400 and OS6855 Devices in AMAP

Problems Fixed Between Builds 509 and 513

PR **130525** Build: 5.1.6.509.R02
 Summary: second line (+++ The working version is used) should represent the status of the "MAC address range
 Explanation: Corrected the trap number for Mac range check. This will display the correct error msg instead of the second erroneous line mentioned in the problem statement.

PR **130718** Build: 5.1.6.510.R02
 Summary: vlan manager - correct the retries so that ipc buffers are not locked up in socket queues
 Explanation: Corrected the retry & delay values to avoid buffers getting stuck in socket queue of vlan msg task

PR **130379** Build: 5.1.6.511.R02
 Summary: "tOspf-: ospfRecvLSUpdate: NBR ... sent LSA ... too soon" message generated by a down OSPF Interface
 Explanation: Ospf Isupdate received should be checked against the local ip interface only if it is up.

PR **129591** Build: 5.1.6.512.R02
 Summary: FPGA upgrade fails often with latest 5.1.6.498.R02 AOS
 Explanation: Additional logs to the console after FPGA upgrade completed successfully

Problems Fixed Between Builds 514 and 517

PR **122231** Build: 5.1.6.514.R02
 Summary: Cannot configure more than 10 ip udp relay instances on 6850 running 6.3.1.931r01 and 6.1.5R01
 Explanation: Increased the total number of UDP relay services supported to 32 which includes 7 standard UDP services and 25 other User UDP services.

PR **129950** Build: 5.1.6.515.R02
 Summary: OS6850 does not support LDAP authentication when DEREf value is other than 0.
 Explanation: Code change to let the admin control the ldap deref value being sent to the server

PR **131461** Build: 5.1.6.516.R02
 Summary: analysis of dump file on a 6602-48. Equipment generated pmd files
 Explanation: Retrieve miniboot version from cached values on OS6

PR **132027** Build: 5.1.6.517.R02
 Summary: 7000-516-485-R01 only supports 64 ngrs per Router,
 Explanation: Support larger number of ospf nbrs per area (>= 128) upto max of 255 nbrs per system

Problems Fixed Between Builds 518 and 521

PR **131697** Build: 5.1.6.518.R02
 Summary: PMD enhancement for webView buffer leakage
 Explanation: Dumps will be generated if webView is in problematic condition with webView buffer monitoring information.

PR **132369** Build: 5.1.6.520.R02
 Summary: OS7800 NIs crashed:- Urgent pools depletion. "+++ Buffer : Urgent Perc used : 99 Perc allowed: 75"
 Explanation: Added swlog message to indicate freeing of DMA buffers when NI goes down



PR **130571** Build: 5.1.6.521.R02
 Summary: High OPSF task tospf due to an unnormal high OSPF LSA activity
 Explanation: Flush the invalid LSA.

PR **131814** Build: 5.1.6.521.R02
 Summary: Mobile ports shows blocking even though STP is disabled and bpdu ignore is enabled on the mobile por
 Explanation: Fix timing issue on mobile VPAs during takeover

Problems Fixed Between Builds 522 and 527

PR **133643** Build: 5.1.6.522.R02
 Summary: Enhance the swlog message when port shutdown due to receive BPDU
 Explanation: Enhanced swlog message during port shutdown due to receive bpdu

PR **133688** Build: 5.1.6.523.R02
 Summary: Throwing "ERROR: internal error" when -> no ntp server x.x.x.x issued on 6602.
 Explanation: NTP Control Packet Path fixed

PR **133937** Build: 5.1.6.524.R02
 Summary: SSH Authentication with DSA public keys did not work on OS-6600.
 Explanation: Added public key authentication to ssh session

PR **133677** Build: 5.1.6.525.R02
 Summary: OS 7800 crashed " exception 33 in task tOspf"and generated a dump file
 Explanation: changes done to prevent invalid floating point exception.

PR **134184** Build: 5.1.6.526.R02
 Summary: OS7800 crashed with slot .pmds: "alarm sendPmMsg: sendTo 42 : 0: d: 2 failed!!"
 Explanation: Decrease retries and increase delay while sending messages in VLAN Mgr and HSM

PR **134406** Build: 5.1.6.527.R02
 Summary: System reboot with FATAL error when copy flash-synchro
 Explanation: Check for available flash space of the CMM before starting flash synchro.

Note that the new code with the fix has to present in both the CMMs for the fix to work.

Problems Fixed Between Builds 528 and 541

PR **127798** Build: 5.1.6.529.R02
 Summary: FLASH SYNCHRO Aborted. Due to SIMPLEX CMM or 2ndary State
 Explanation: Code changes to correct error messages shown during Flash synchro failures in a duplex setup

PR **134897** Build: 5.1.6.530.R02
 Summary: Debug command "debug set allowed_ssh_session" does not work.
 Explanation: Maximum number of ssh session when set using debug command is retained when there is no attack

PR **136393** Build: 5.1.6.533.R02
 Summary: mac address is not getting aged out if ip relay not able to receive an DHCP address

PR **136069** Build: 5.1.6.536.R02
 Summary: Slot 1 module reset with pmd several times on the 8800. "Freed the buffers in DMA for timeout slot 1
 Explanation: validity check for prevention of data corruption

PR **134364** Build: 5.1.6.539.R02
 Summary: 6600 and 7700 not sending genral query report when a topology change is detected.
 Explanation: Learn the same client on different ports.

Problems Fixed Between Builds 550 and 552

PR **140231** Build: 5.1.6.551.R02
 Summary: BBUS resets during the takeover and it is affecting the comm between the CMMs
 Explanation: False suspension alarm for tasks handled, preventing switch crash

Problems Fixed Between Builds 552 and 560

PR **141232** Build: 5.1.6.553.R02
 Summary: Change in Default Flood Rate Value
 Explanation: Default flood rate setting for 7700, 7800, 8800 is 47M for 100M and 497M for 1G and in 66xx it is 49M and 496M for 100M and 1G respectively

PR **141388** Build: 5.1.6.554.R02
 Summary: CS excep handler: exception 52 in task 0x5762390 -- Dump analysis needed
 Explanation: Added Defense check in STP to avoid cash on invalid memory



PR **131482** Build: 5.1.6.555.R02
 Summary: 6600: if we apply a deny rule with a destination ip "any" no traffic passes through.
 Explanation: Destination ip any rules are programmed correctly in the Hardware.

PR **140717** Build: 5.1.6.555.R02
 Summary: Fix the Buffer leakage issue and introduce additional dshell commands.

PR **139238** Build: 5.1.6.555.R02
 Summary: OS8800 Ni crashed "roma: error creating falsock buffer"
 Explanation: IP Directed Broadcast Packets is not processed by the Switch.

Controlled using a flag "ipedrSubnetBcastDrop" disabled by default.

"ipedrSubnetBcastDrop" needs to be enabled (set to 1) using AlcatelDebug.cfg

NOTE:

Dynamic changes of "ipedrSubnetBca

PR **118093** Build: 5.1.6.556.R02
 Summary: Loopback0 is not part of network group Switch

PR **132514** Build: 5.1.6.559.R02
 Summary: IPC Debug and Logging Improvements
 Explanation: IPC debug enhancements

Under Verification

PR **88463** Build: 5.1.6.179.R02
 Summary: Source IP is changed to default gateway of DHCP server
 Explanation: Source IP Address of bootp relayed packets set as the IP Address of the interface on the BOOTP client side.

PR **107419** Build: 5.1.6.298.R02
 Summary: Port is not moving to mobile when all the rules are of Ethernet II and ethertype alone varies
 Explanation: Code changes done in GMN for handling unknown prototype

PR **107496** Build: 5.1.6.339.R02
 Summary: Correct level for systrace messages which are filling up the systrace buffer
 Explanation: Severity level of the systrace buf of the message which fills the system trace buffer reduced.

PR	119895	Build:	5.1.6.484.R02
Summary:	OS 9800 running on 6.1.3.838.R01 crashed and generated Dump files.		
Explanation:	Fix to avoid corrupting one byte of next block while configuring vlan tag description		
PR	99718	Build:	5.1.6.491.R02
Summary:	rls command fails with 'Attempt to lock LS table failed' after an rls timeout		
Explanation:	When the command "rls" is executed from the primary CMM while the secondary CMM is rebooting, the command fails with a timeout. After this the "rls" cmd never gives the output (just throws an error), even after the secondary CMM comes up. Code change done to display the "rls" output properly, when this command is executed after the secondary unit is up.		
PR	121438	Build:	5.1.6.506.R02
Summary:	Radius agent not to use Loopback0 address as its source interface when it's present		
Explanation:	Use Loopback0 Address as source IP for radius agent packets, if Loopback0 Address is configured.		
PR	128686	Build:	5.1.6.506.R02
Summary:	Boot.cfg.1.err is created on secondary CMM for correct configuration of 802.1x		
Explanation:	Fix done to stop creating boot.cfg.err for proper 802.1x configuration.		
PR	130168	Build:	5.1.6.509.R02
Summary:	8800 Switch crashed took over occur		
PR	130720	Build:	5.1.6.510.R02
Summary:	ipedr - correct the retries so that ipc buffers are not locked up in socket queues		
Explanation:	Added retry counters to return back when buf create fails for more that 10 retries, so that ipedr atleast processes the incoming packets.		
PR	130719	Build:	5.1.6.513.R02
Summary:	ipms - correct the retries so that ipc buffers are not locked up in socket queue		
Explanation:	corrected the retry counters to avoid buffers getting stuck in socket queue of ipms task		
PR	131694	Build:	5.1.6.514.R02
Summary:	CSM-CHASSIS (103) info message: This CMM is Primary		
Explanation:	Display the name of the CMM, along with the CMM role during bootup in chassis based products		
PR	116738	Build:	5.1.6.532.R02

Summary: A stack of 4* OS 6850 crashed running code 6.1.3.805.R01
 Explanation: Validity check made

PR **131245** Build: 5.1.6.533.R02
 Summary: OS 6850 stack has not rebooted once the queue as maxed out in CSM_REQ state.
 Explanation: Fix the ipc buffer leak scenario during bootup

PR **110473** Build: 5.1.6.535.R02
 Summary: Many "LANPOWER error IpSocketSend: zcBufCreate Failed!" followed by a crash with dumps
 Explanation: Found 256 byte memory leak in health monitor task

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PR **133987** Build: 5.1.6.538.R02
 Summary: Stack 6850 : Crash after upgrade
 Explanation: Handle one off duplicate slot scenario issue.

PR **131813** Build: 5.1.6.549.R02
 Summary: Need to have Port status as UP/DOWN instead of "+" and "-" in Syslogs
 Explanation: Changed the log message for Interface status change to be UP/ DOWN instead of +/-

PR **136761** Build: 5.1.6.549.R02
 Summary: AOS switches(OS9000,6850) when trying to set the level for the swlog appid 0 internal error is seen
 Explanation: "Diagnostics module" log level will be configured properly upon configuring swlog appid 0

PR **142329** Build: 5.1.6.560.R02
 Summary: 8800 crash with "alert Buffer : Normal Perc used : 79Perc allowed: 75" logs
 Explanation: CMM Pools moving to DMA Queue , due to NI Pools depletion avoided.

Known Issues

PR **86576**
 Summary: AMAP Adjacencies Remote Host Device field value sometimes shows **ERR("12")** or **ERR("204")**.
 Workaround: None

PR	66521
Summary:	Incorrect auto bridge detection on OS7700/OS7800 at NI Startup
Explanation:	If a local OS7700/OS7800 port is configured to use 802.1W and a remote OS7700/OS7800 port is configured to use 802.1D, then migrate times on the local port prevents the use of 802.1D bpdu and a loop is created for 2 seconds.
Workaround:	There is no known workaround at this time.
PR	83127
Summary:	+++ [CLISHELL 46] Error on setting tty options at login(851971) DoS attack: bncex on port 23
Explanation:	A DoS attack on port 23(Telnet) results in "[CLISHELL 32] Error on setting tty options at password(851971)"
Workaround:	The issue is cosmetic and does not affect performance of the switch.
PR	84031
Summary:	Web view "Reload On" Timing Issue on OS6600
Explanation:	Web View's "Reload On" function for OS6600 does not function according to specification
Workaround:	No workaround at this time.
PR	86669
Summary:	IPv6 router advertisement does not support decrementing timers
Explanation:	IPv6 Router Advertisement decrementing timers are not supported for prefix valid lifetimes or prefix preferred lifetimes.
Workaround:	Use IPv6 Router Advertisement fixed timers.
PR	90193
Summary:	Console hang after execute "copy working certified flash-synchro" when CMM contain two files with same substring
Explanation:	If the name of a file (1) is the substring of another file (2) on the remote CMM, then we may get into an endless flash synchro situation.
Workaround:	Inspect the contents of directories from both CMM, and remove file (2) from another CMM.
PR	90574
Summary:	STR message in swlog when "copy working certified"
Explanation:	A status message is sent when the csm certification is done.
Workaround:	There is no known workaround. There is no impact to the execution code, only the message 0x222 is logged in the swlog. Users can ignore this message.
PR	91437
Summary:	Some violating traffic fails to get dropped / filtered for user-defined rules. Traffic gets bridged
Explanation:	Certain user defined mobile rules end up classifying non matching traffic

patterns on the user defined vlan instead of default vlan.
Workaround: There is no known workaround at this time.

PR **91812**
Summary: "Internal Error" message by applying snapshot file for "aaa" feature and it won't create some servers
Explanation: Server information displayed with "show configuration snapshot aaa command or saved with "configuration snapshot aaa <file_name>" command contains hashed (encrypted) password/key information. In order for a file created with the latter command to be used for configuring servers, password/key information needs to be edited. AAA expects this information encrypted only at boot-up time while at run time the information should be in plain text. In this particular case, the servers created with configuration apply command could not be used because password/key information is wrong.
Workaround: Always edit password/key information before applying a snapshot file

PR **91850**
Summary: Web View IPX statistics do not display until CLI cmd 'show ipx traffic' is keyed
Explanation: IPX statistics are not correct with Webview or SNMP.
Workaround: A "show ipx traffic" needs to be done on the CLI so that the statistics can be retrieved from the NIs.

PR **91898**
Summary: ip6edr allows multiple tunnels to use the same ipv4 address pair
Explanation: It is possible to add two IPv6 configured tunnels with the same source and destination IPv4 addresses. This is discouraged since it may have some unusual consequences.
Workaround: Only create a single IPv6 configured tunnel with the same source and destination IPv4 addresses. Since multiple IPv6 addresses may be assigned to a single tunnel, more than one with the same IPv4 addresses is never necessary.

PR **91961**
Summary: on BGP4->Network page unable to modify community as a none
Explanation: In WebView, Networking > IP > BGP4 > Neighbors > Configuration modify page the Local Interface Name cannot be changed back to None.
Workaround: Delete the neighbor and add again w/out specifying a Local Interface Name.

PR **91962**
Summary: on BGP4->Neighbors->Administration page setting some value sets(enables) remove private AS
Explanation: In WebView, Networking > IP > BGP4 > Neighbors > Administration modify page the field "Remove Private AS" has the wrong drop-down options.
Workaround: None.

PR **91979**
Summary: Unable to set a ipx address to a vlan using snmp with 5.1.6

Explanation: IPX network address cannot be set through SNMP.
Workaround: Use either CLI or Webview to set IPX network address.

PR **92215**
Summary: RIPng is not notified when ripv6 interface mtu changes even when interface is toggled
Explanation: Modification of IPv6 interface MTU does not change MTU size in Ripng and hence RIPng update packet size also does not change.
Workaround: None

PR **92225**
Summary: Cannot break out of a traceroute6 probe when probe transmission fails
Explanation: The traceroute command can usually be stopped while in progress by pressing any key from the console session. However, if a probe returns an error `probe transmission failed the command will not exit until the configured timeout has expired.

PR **92270**
Summary: IPv6 static and local routes are marked up even when interface is down
Explanation: IPv6 static and local routes will remain in the up state even when the interface is used to reach their destination is down.

PR **92286**
Summary: User with permission ipms, ipmr is eventually viewing show ip protocols then not returning console
Explanation: Command prompt may disappear after attempting "show" command not allowed for user.
Workaround: Type exit and then login again. The prompt will come back.

PR **92311**
Summary: Web View missing ability to add an eui-64 address to an IPv6 interface
Explanation: In Web View, Networking > IPv6 > Addresses page is missing the ability to add an EUI-64 Address to an IPv6 Interface.
Workaround: None.

PR **92663**
Summary: IPv6 duplicate address detection is not logged to swlog on OS6600
Explanation: If a duplicate address is detected, the error message will only be shown on the console screen. It will not appear on a telnet session or be saved in the swlog log file.



PR	92718
Summary:	Mac Address of IP-Port violated binding rule don't get flush incase of Mobile vlan deletion
Explanation:	Upon VLAN deletion, there is a sufficient delay for the Group Mobility message to get from the CMM to NI for the deletion of rules associated with this NI. If the switch has live traffic, it continues to apply these rules and classify the frames. If the classification is for discard on a binding rule violation, the existence of the VLAN is not checked.
Workaround:	There are two workarounds: 1) After VLAN deletion, the traffic needs to be stopped which will age out the MACs from the source learning table based n source learning aging time. 2) User can issue the "no mac-address-table learned" command which fl
PR	92763
Summary:	Not recommended to change "router-id" during production due to Net-LSA will be flushed
Explanation:	The netLSA with the previous rtrld will be flushed (if these netLSA IsIDs equal one of the router's OSPF interface addresses) and a new netLSA generated with the new rtrld. AOS OSPF is behaving correctly in this scenario (allowing for OSPF convergence time). If we were to disallow changing rtrld on the fly, it would be a non-conformance of the RFC. See "in some rare cases where a router ID may change". Changing rtrld on the fly needs to be supported, and AOS OSPF is able to handle it. Also, considering that it is a rare case where the rtrld will actually be changed on the fly (most operators would prefer to disable OSPF, as well as any other protocols like BGP and RIP, before changing rtrld).
PR	92791
Summary:	RIP is not disabled when snapshot applied with RIP loaded but disabled - all tables accessible
Explanation:	Redistributed routes get added to the RIP routing table even though the global rip status is disabled.
Workaround:	Disable redistribution status
PR	92818
Summary:	After enable force-authorized and then put it back on auto, guest vlan client can't join
Explanation:	If we change the 802.1x port port-control from force-authorized and then

Workaround: change it back to auto, the guest vlan feature may not work.
We need to manually admin down/up to reset the port.

PR **92863**
 Summary: Guest vlan PC unable to send/receive traffic if moved from a HUB to guest vlan port
 Explanation: When an 802.1x guest vlan PC is moved from a Hub to a Guest Vlan port, it may not be able to send/receive traffic until the mac address is aged out on the hub port.
 Workaround: None.

PR **93037**
 Summary: Some OSPF and BGP Help pages contain broken hyperlinks.
 Explanation: Help pages need to be updated across many modules in OSPF, BGP, DVMRP , L2 etc
 Workaround: This issue does not affect performance of the switch. There is no known workaround at this time.

PR **81531**
 Summary: OS6/OS7 are unable to forward Multicast flows if Link Aggregation ports are added and removed
 Explanation: Sometime Multicast flow stops when linkagg ports are added and deleted multiple times.
 Workaround: None.

PR **85341**
 Summary: ***Unable to complete I2c data transfer.Status Reg.xx*** Error appears in 6600-P24 logs
 Explanation: A process is unable to access a status register, but it retries so this message is considered as harmless and is now recorded in the switch log.

PR **91681**
 Summary: Nessus: alya.cgi (Backdoors) failure
 Explanation: The following is noted when running a test called "alya.cgi (Backdoors)" in the NESSUS test suite:
 Security Note: Web mirroring - http (80/tcp)
 The following CGI have been discovered :
 Syntax : cginame (arguments [default value])
 /web/content/login.html (userName [] password [] B1 [Login])
 Security Note: Web mirroring - nsiiops (261/tcp)
 The following CGI have been discovered :
 Syntax : cginame (arguments [default value])

 /avlan/content/authent.html (myLogin [] myPass [] cnxMode [AVLAN_CONNECT] cnxMode [AVLAN_DISCONNECT] ipMode [AVLAN_DH] ipMode [AVLAN_STATIC_IP] myReason [] myPasswdQuestion [Password] challengeFlag [] aa aRef [00:00:00:00:00:00] authentSubmit [Submit])
 Workaround: This is expected behavior for the login pages for WebView and Web-

AVLAN authentication. NESSUS is known for provide those bogus reports.

PR	92093
Summary:	XP with SP 2 display "Attempting to authenticate" while Login
Explanation:	When using the XP service pack 2 native 802.1x client and some version of Steelbelted RADIUS server, the XP 802.1x client will not always be able to "successfully" authenticate.
Workaround:	Use pure XP without any service pack or with Steel-belted RADIUS Service Provider Edition 4.70.661.
PR	92317
Summary:	HA vlan traffic is getting flooded on user vlan when no HA vlan is configured on ingress NI
Explanation:	Traffic with a High Availability VLAN mac address as a destination address on a port that is NOT configured for HA vlan is flooded to all ports of the vlan following the standard flooding path.
Workaround:	There is no known workaround at this time.
PR	92405
Summary:	HA vlan traffic dropped for 10 sec after takeover
Explanation:	If High Availability (HA) vlan is configured in the switch and HA traffic is flowing through it, HA traffic might get dropped for 5-10sec during takeover.
Workaround:	None
PR	92573
Summary:	HAVLAN bandwidth limit is global on switch, not per vlan
Explanation:	The configured High Availability VLAN bandwidth is global on switch, not per vlan even though the CLI command is on a per vlan basis. The latest High Availability VLAN bandwidth configured determines the global bandwidth.
Workaround:	There is no known workaround at this time.
PR	92575
Summary:	HAVLAN bandwidth is per ingress slot, tx on egress port can be higher than bandwidth config
Explanation:	The High Availability VLAN Bandwidth is granted on a per ingress slot basis. When ingress ports are on different slots, the transmit rate on egress ports can be higher than the configured bandwidth.
Workaround:	There is no known workaround at this time.
PR	92627
Summary:	HAVLAN MAC learnt as filtering if seen as source address
Explanation:	MAC addresses configured for High Availability Vlan are learnt as filtering if seen as source addresses
Workaround:	There is no known workaround at this time.



PR **92628**
Summary: A port on slot is added to the ingress port list or tagged for ha vlan, the slot becomes HA enable
Explanation: Once a port is added to ingress list or tagged for a High Availability Vlan, all other ports in the same slot behaves like "ingress ports"
Workaround: There is no known workaround at this time.

PR **95256**
Summary: Documentation for Metric of Static Route needs to be corrected
Explanation: The user guides and Web View help incorrectly state that "static routes always have priority over dynamic routes". The user guides and Web View help should state that "Static routes have priority over dynamic routes regardless of the metric value."
Workaround: There is no workaround at this time.

PR **95308**
Summary: Temporary loop on changing bridge priority or port down in RSTP with Link Agg
Explanation: Temporary traffic loops could happen under the following scenarios:
1. Reloading of a non root bridge.
This happens when the bridge is going down and is due to the sequential bringing down of NIs during a reload process .It is purely temporary in nature and stops when all the NIs eventually get powered off.
2. NI power down
When an NI power down command is executed for an NI and if that NI has the Root port port and other NIs have Alternate ports, it is possible to see some traffic looping back from the newly elected Root port. The traffic loop back is temporary and will stop once the NI gets powered off.
3. New Root bridge selection
Temporary loops could occur during the process of electing a new Root bridge, if this election process is triggered by the assignment a worse priority for the existing root bridge or a root bridge failure. This happens due to the inconsistent spanning tree topology during the convergence and stops entirely once the network converges
Workaround: For items 1 and 2 above there is no work around presently.

For item 3 the following work around could be applied:

1. Tune the max age (and or max hops in the case of MSTP) parameter to a lower value that is optimal for the network. This will reduce t



PR	95717
Summary:	Packets are dropping during file transfer using Multicast file transfer application.
Explanation:	Omni Switch, by design, used to drop the first few packets (learning-phase packets) until a multicast flow was learnt into the hardware. This was causing certain applications to fail because of the functional requirement of the first few multicast packets of the application. This problem is resolved by the newly added CLI ability (IP multicast learning-mode) to configure the switch to either broadcast or drop the learning-phase packets. The default behavior is to drop learning-phase packets.

PR	123304
Summary:	OS6600 cannot create policymap to map tos or dscp to 802.1q
Explanation:	As per the current implemetation and design in OS6600, mapping of 802.1p to 802.1p is only supported and not the rest combinations. That is, TOS/DSCP to 802.1p and 802.1p- to TOS/DSCP are NOT supported.

PR	123380
Summary:	DHCP does not relay to the 2nd DHCP server
Explanation:	The agent infomation value i.e, option 82 is checked only once prior to all the DHCP servers configured.Previously it was checked for all the servers seperately.

PR	130665
Summary:	OS7 - 5.1.6.498.R02 - "Admin down" is not completely shutting down the port on OS7-ENI-FM12
Explanation:	Admin down on OS7-ENI-FM12 port will not bring the remote end link down.
Workaround:	There is no known workaround.
