Intermediate Release Notes

Omni Switch 9xxx, 6850, 6855 & 6400

Release 6.4.3.930.R01

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.

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Problems Fixed Between Builds 520 and 575

PR **142769** Build: 6.4.3.527.R01

Summary: OS 9700 swlogs flooded with mBlkClFree -- Invalid mBlk

Explanation: Double free of a memory block is avoided.

PR **144249** Build: 6.4.3.527.R01

Summary: ssh session exits with error: server unexpectedly closed network connection Explanation: Modified the software internals conflicting message id's for vrf support in ssh

PR **145131** Build: 6.4.3.530.R01

Summary: Need software implementation of flushing CP status when domain user log off

Explanation: Delete old mac control block and create a new mac control block, when EAPOL START

packet is received from a client who is already in authenticated state.

PR **145058** Build: 6.4.3.530.R01

Summary: dot1dBasePortTable (1.3.6.1.2.1.17.1.4) entries disappear in snmpwalk when NIs are

removed

Explanation: Port index calucation error as part of dot1dBasePortTable objects has been rectified.

PR **145146** Build: 6.4.3.533.R01

Summary: show configuration snapshot not working --" Unable to retrieve XIP configuration "

message seen

Explanation: Increase the network data cluster pool size to prevent connection oriented sockets

getting stuck in sbwait() call.

PR **146766** Build: 6.4.3.534.R01

Summary: IP interface DHCP-client does not accept the assigned hostname (option-12)

Explanation: Host Name received as part of option-12 will be installed as the switch system name, if

the Omini-Switch does not carry any system name by default.

NOTE: Write memory will save the obtained system name in the configuration. And only

the first option-12 received in ACK will be installed other will not be processed.

PR **146771** Build: 6.4.3.534.R01

Summary: 8KB OSPF MTU handling instead of 10KB

Explanation: OSPF Buffering of IP Packets is increased to 10K to accommodate Jumbo OSPF

Frames

PR **146607** Build: 6.4.3.535.R01

Summary: show gos port monitor doesnt return any output

PR **143271** Build: 6.4.3.535.R01

Summary: qosSetupFB 2488:qosFBSetAction failed (qos port <slot/port> maximum ingress-

bandwidth >128M)

Explanation: Range check the gos max ingress-bandwidth and maximum depth configured from the

qos CLIs.

PR **144626** Build: 6.4.3.536.R01 Summary: OS6850 crash with exception 768

Explanation: Increased the buffer size to accomodate Large values in Hmon task

PR **146277** Build: 6.4.3.544.R01

Summary: "Matches" field in "show active policy rule" is always equal 0 for egress rules Explanation: Correcting the show active policy rule to display only the default list type rules

PR **147396** Build: 6.4.3.545.R01

Summary: Unable to Ethoam loopback egress port mac of an linkagg

PR **146091** Build: 6.4.3.550.R01

Summary: DHCP client is not pinging the DHCP server in the routing environment after the switch

power down

Explanation: Synchronize NI and CMM configuration of interfaces after takeover and remove in-active

routes/arp from new primary.

PR **143224** Build: 6.4.3.551.R01

Summary: OS-6850 crash with memPartAlloc: block too big - 4120 in partition 0x4bfa74 error

Explanation: Discard UDP packets with incorrect or corrupted UDP Header length. For every such packet that is received by the switch the counter "dhcpSnoopingCorrUDPHdrLen" will

get incremented. The counter "dhcpSnoopingCorrUDPHdrLen" will also get dumped in

PMD incase of a crash.

PR **146428** Build: 6.4.3.551.R01

Summary: malformed upd relay DHCP directed broadcast packets flooded instead of being

blocked

PR **147444** Build: 6.4.3.553.R01

Summary: OS6800 - Unresolved ARP never age out

Explanation: CMM to remove unresolved ARP entries once the entries are timed out in NI.

PR **147914** Build: 6.4.3.555.R01

Summary: Webview task crashing in 9000

PR **147438** Build: 6.4.3.559.R01

Summary: Unable boot the switch 6.4.3.520R01 after upgrade.

Explanation: STP object is checked for NULL before applying stp configuration changes during

bootup

PR **147985** Build: 6.4.3.562.R01 Summary: Incorrect value in SNMP Response

Explanation: Removed Junk character at the end of string data type for LinkAggName and

LinkAggDecription

PR **147361** Build: 6.4.3.562.R01

Summary: Fan Failure traps and messages are not seen on 6400 running 6.4.3.520R01 code

Explanation: Fan traps enabled for OS6400 platform

PR **147678** Build: 6.4.3.562.R01

Summary: DHL does not converged correctly after primary link is disconnected -- arp on linkagg is

0/-1

Explanation: Clear ARP entries in IPEDR if DHL port goes down

PR **114746** Build: 6.4.3.564.R01

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 **147129** Build: 6.4.3.566.R01

Summary: 8800 advertising route with higher cost to ospf neighbor

Explanation: Install the lowest metric LSA, even if both the LSA forwarding address are same, but

orginating ASBRs are different in NSSA area

PR **147176** Build: 6.4.3.568.R01

Summary: Request to have another optional flag for Access policy in CP web page

Problems Fixed Between Builds 576 and 609

PR 148542 Build: 6.4.3.578.R01 Summary: OSPF/BFD over MPLS convergence issue

Explanation: To trigger OSPF SPF when BFD NBR_DOWN Event is received by OSPF. This is

controlled by variable gOspfBfdSubSecond, which is disabled by default

SubSecond convergence variables to be used in AlcatelDebug.cfg

debug set gOspfSubSecondd 1

This will enable immediate trigger of SPF when Interface Down event is received by

OSPF

debug set gOspfBfdSubSecond 1

This will enable immediate trigger of SPF when NBR DOWN detection is informed by BFD. This will work only when BFD is enabled and NBR DOWN detection is done by

BFD

PR 148181 Build: 6.4.3.580.R01

Unable to write memory w/ 9000 CMM only -- Cannot do a write memory as Remote Summary:

Config is Enabled!!

Explanation: Enable write memory on Automatic Remote Config Failure due to NI Timeout

PR 148114 Build: 6.4.3.581.R01

Stack of 2x6850 switches reported continuous 100% CPU utilization with sftp_s0 task Summary:

showing highest

Explanation: Code changes to eliminate CPU spike by stale SFTP tasks after an abnormal SFTP

session termination.

PR 148512 Build: 6.4.3.581.R01 Summary: Ethoam memory pool leak issue

Explanation: Code changes to prevent Ethoam memory pool leak when handling Organizational

specific TLVs

PR 148257 Build: 6.4.3.581.R01

Summary: NAS port number assigned randomly for ASA authentication radius requests.

Explanation: Update Nas port value as 0 for asa authentication

PR 148958 Build: 6.4.3.581.R01

HIC allowed-name list does not accept ip-address with bit masks other than Summary:

32,24,16,8,...

Fix done to accept all valid bit mask pairs while configuring allowed list IP addresses for Explanation:

HIC.

PR 145332 Build: 6.4.3.581.R01

Summary: same mac being learned twice at LPS-RBT tree on port 1/17 and port 1/19

PR 146186 Build: 6.4.3.581.R01

confSnapConfigGet(74:5): mip_msg_done failed (errno= 25) - show configuration Summary:

snapshot

Explanation: 1) Next Hop Sync data structure corrected.

2) Avoiding PIM crash.

PR 148474 Build: 6.4.3.583.R01

Summary: Arp Issue in L2 commnunication between switches Explanation: Ping on ip interface with no forward option fixed

PR 147776 Build: 6.4.3.583.R01 Summary: NI crashed with PMD generation

Explanation: To enable cache for link aggs greater than thirty two, set flag

ala 11 cache linkAgg mode flag in Alcatel-debug.cfg

PR 148926 Build: 6.4.3.584.R01

OS9 - Lost Frame counter is continuously increasing in Tx on STP BLK 10Gig port (XNI Summary:

Explanation: Calucating correct value for Tx Lost Frames in case of STP blocked port

PR 149379 Build: 6.4.3.584.R01 Summary: Routed traffic via XNI-U12 failed

PR 149283 Build: 6.4.3.585.R01

NAS ip address used in the radius request is not same as the ip managed-interface Summary: Explanation:

The address of NAS IP field is controlled in sync with source interface of the Radius

Packets

1) If IP Managed Interface is configured, the physical address of the Managed Interface

(or)

2) If Loopback0 is configured, Loopback0 address (or)

3) If Primary Radius Server is reachable, the physical address of the interface through

which it can be reached (or)

4) If Secondary Radius Server is reachable, the physical address of the interface

through which it can be reached

PR 145763 Build: 6.4.3.589.R01

Summary: Unable to remove single port from port groups configured in QoS Explanation: Single port removal from policy port group command is facilitated



PR **149310** Build: 6.4.3.590.R01

Summary: QoS port disable does not work under 643 code

Explanation: Qos policy applied for amap destination mac packets working properly

PR **149328** Build: 6.4.3.593.R01

Summary: IP helper relays DHCP Discovery with source UDP port 68 in 6.4.3.R01 (UDP checksum

incorrect too)

Explanation: Use source port as 67 when we are relaying the Dhcp packet.

PR **148586** Build: 6.4.3.596.R01

Summary: "Error: OID not increasing" when Saa is active and do snmpwalk Explanation: Display the IpHistoryEntry for all the iterations, for all SAAs

PR **149099** Build: 6.4.3.597.R01

Summary: FAN failure#3 on 6400

Explanation: The Number of FAN modules supported on 24 Port OS6400 corrected.

PR **149381** Build: 6.4.3.597.R01

Summary: QoS rules not applied on RIP update packets when unrelated allow rule has higher

precedence.

PR **144501** Build: 6.4.3.598.R01

Summary: Issues when enable the flag of webMgtBugFix

Explanation: Debug cli's have been introduced to cleanup the Emweb buffers

PR **149577** Build: 6.4.3.599.R01

Summary: Issue with automatic remote configration scripts

Explanation: Remote config with dhcp client command in the script to work fine

PR **149584** Build: 6.4.3.599.R01

Summary: Unit-1 [Primary] in a stack of 2x6850 switches crashed and generated PMD. sshd_ct0

shows suspended

Explanation: While establishing a SSH session, validated a check if the password is assigned NULL

before accessing it.

PR **146300** Build: 6.4.3.601.R01

Summary: ETHOAM MIP doesn't work in QinQ domain for MEPs outside domain

Explanation: ETHOAM Link trace message reply issue with MIP configuration in QinQ domain is

resolved

PR 148701 Build: 6.4.3.604.R01

Summary: xgs3_mem_dma error

PR 149588 Build: 6.4.3.604.R01

Summary: 6850: pmd analysis needed

Explanation: To prevent NI resets for recoverable MMU parity errors happening over long periods of

time

PR 148313 Build: 6.4.3.608.R01

Summary: need to use regular gigabit SFP instead of SFP+ on OS9-XNI-U12E

Explanation: 1G SFP support added on OS9-XNI-U12E

Problems Fixed Between Builds 610 and 640

149912 Build: 6.4.3.613.R01 Summary: UDLD over OS9-XNI-U12E is not working

PR 150062 Build: 6.4.3.615.R01

To disable the VRRP trap for IPV4 we need use "no vrrp3 trap" Summary:

PR 150184 Build: 6.4.3.616.R01

Summary: IP managed-interface command does not retain the interface name after reboot. Explanation: code changes to handle blank space in ip-managed-interface name across reboot

PR 150767 Build: 6.4.3.616.R01

No VRRP transition from Master to Initialize state when Shutdown event is received on Summary:

VRF ports

Explanation: IP interface events not handled in vrrp when a some other vrf is deleted

PR 127606 Build: 6.4.3.616.R01

OS6850-48X crash with "tTrapReplay" task suspension after a full backing up through Summary:

O۷

Explanation: Code changes to prevent false alarms

PR 150449 Build: 6.4.3.616.R01

Summary: Neighbor tracking issue for BFD based VRRP

PR 147754 Build: 6.4.3.621.R01

PC did not get ip adds after "lpsViolationTrap - learnWindowExpired violation occurred " Summary:

Fix for EAPOL packet over a LPS enabled and onex disabled port Explanation:

PR 147005 Build: 6.4.3.623.R01

Sorce learning does not happen when dhcp snooping and port-security enabled on Summary:

mobile port

Explanation: Fix for LLDP buffer depletion issue in case of LLDP VLAN name change event

PR 150207 Build: 6.4.3.623.R01

display issue: fan infomation displayed incorrectly on 6400 when running in stacked Summary:

mode

PR 150770 Build: 6.4.3.625.R01

Summary: AOS 6.4.3 out-of-the-box config: path for config file add "/"

Explanation: Fix for the boot config path in remote config

PR 149966 Build: 6.4.3.625.R01

Summary: DST is disabled when switch is poweroff for 1h+

Explanation: System daylight savings time command included in boot configuration file

PR 149789 Build: 6.4.3.626.R01

Summary: 6250 Model Name and description dispays wrong

Explanation: Workaround to display proper Model name and Description

PR 150505 Build: 6.4.3.629.R01

Summary: non-supplicant user MAC-address will not learn on 802.1x port with mobile tag enabled

Explanation: Classify a non-supplicante based on incoming packet

PR 150601 Build: 6.4.3.629.R01

After upgrade to 642954 from 631871, the switch is not reachable. Need to disable QoS Summary:

to make it wor

149780 PR Build: 6.4.3.631.R01

Summary: IPv6 static route returns error : Route and gateway must differ

Restriction to add route matching local interface, via same local interface is removed for Explanation:

ipv6 static routes

PR 149796 Build: 6.4.3.631.R01

lease time is taken as 0 in dhcp-snooping binding if option 51 lease time is infinity in Summary:

DHCP server

PR 151327 Build: 6.4.3.633.R01

Summary: Need to enable the VRRP3 trap even to get the VRRP trap Explanation: Check the vrrp trap status based on the vrrp type enabled

PR **149343** Build: 6.4.3.633.R01

Summary: 6850 does not send correct snmp value for "last change" field of interface

Explanation: Corrected last change for hybrid ports

PR **150143** Build: 6.4.3.638.R01

Summary: Basic Ildp-pdu may hang the third party phone from downloading the firmware after a

reboot

PR **148057** Build: 6.4.3.640.R01

Summary: "ERROR: Authorization failed" when giving "configuration apply xxx verbose" with

TACACS+

Explanation: Fix done to send the configuration file commands to remote authorization for tacacs

authentication enabled sessions.

PR **129512** Build: 6.4.3.640.R01

Summary: pre banner for HTTP session not working properly as expected

Explanation: Pre_banner is made to work properly in Webview

PR **130342** Build: 6.4.3.640.R01

Summary: port is filtering vs blocking

Explanation: Set Linkagg ports to blocking on disabled vlans

Problems Fixed Between Builds 641 and 668

PR **152116** Build: 6.4.3.641.R01

Summary: HIC allowed-name list does not accept ip-address 0.0.0.0

Explanation: Fix done to accept the IP addresses starting from 0.0.0.0 as valid HIC allowed IP

address.

Summary:

PR **150980** Build: 6.4.3.641.R01

OSPF Type 1 LSA / Stub and transit networks not displayed with the "show ip ospf Isdb

rtr" command

Explanation: Debug APIs introduced to display the OSPF Router LSA's in detail

usage in dshell:

ospfDbgShowRtrLsa (vrfid, Routerid)

ospfDbgShowAllRtrLsa (vrfid)

PR **151958** Build: 6.4.3.642.R01

Summary: need Ip or server name with log message aaa server unreachable

Explanation: Print the server ip if radius server is not reachable

PR	152424 Build: 6.4.3.643.R01
Summary:	A stack crashed after executing "command-log enable"
Explanation:	Preventing ssh crash, when a session runs out of memory
PR	151024 Build: 6.4.3.644.R01
	802.1x authentication fails when redundant radius server is used
Summary:	
Explanation:	Authentication challenge rersponces to be sent to the last replied radius server for onex authentication.
	authentication.
	45054 P. 11 0 40 044 P.04
PR	152051 Build: 6.4.3.644.R01
Summary:	6850 crashed with crash1.pmd file no info on logs "data access trap " occured.
PR	152236 Build: 6.4.3.645.R01
Summary:	OS9 sends wrong ip adds to OV when "ip managed interface" command is used.
Explanation:	Preferred IP (Managed / Source) for Certain Applications will follow the following order
•	1) Configured IP Interface for applications using IP MANAGED-INTERFACE Command
	2) Outgoing interface
	3) Loopback0 for SYSLOG & LDAP Server if configured
	Exception
	a) Telnet / FTP / SSH means its Client Application and Not Server Application
	b) Any transimission on EMP for Chassis product will use only the EMP as its source
	c) CMM & NI Communications (Telnet / rcp)
PR	151986 Build: 6.4.3.645.R01
O	6850: ip managed-interface command is enabled - unable to use internal looback
Summary:	127.2.x.x
Explanation:	Preferred IP (Managed / Source) for Certain Applications will follow the following order
•	1) Configured IP Interface for applications using IP MANAGED-INTERFACE Command
	2) Outgoing interface
	3) Loopback0 for SYSLOG & LDAP Server if configured
	Exception
	a) Telnet / FTP / SSH means its Client Application and Not Server Application
	b) Any transimission on EMP for Chassis product will use only the EMP as its source
	c) CMM & NI Communications (Telnet / rcp)
PR	151604 Build: 6.4.3.645.R01
Summary:	UserPorts configuration is missing on 6850 switch.
Explanation:	LDAP policy request will not flush UserPorts config created from CLI

PR **145652** Build: 6.4.3.647.R01

Summary: To avoid multicast packet drops due to forwarding entry update Explanation: Avoid multicast packet drops due to forwarding entry update

PR **148924** Build: 6.4.3.647.R01

Summary: OS9700 crashed with PMD

PR **153068** Build: 6.4.3.648.R01

Summary: qdsErrHelp need update

PR **148569** Build: 6.4.3.650.R01

Summary: running and saved configuration are different even when no changes made

Explanation: Modified the behaviour of Show Configuration Status to sync with CMM Configuration

Status

PR **149839** Build: 6.4.3.650.R01

Summary: OS 6850 primary crashed with error"tCsCSMtask Comments : error opening

/flash/working/. "

PR **148799** Build: 6.4.3.651.R01

Summary: Ping losses, CPU spikes, ports in "disputed" state when linkagg configured between two

6850s

Explanation: STP Bpdu looping when static multicast arp enabled is avoided

PR **153200** Build: 6.4.3.652.R01

Summary: NI reset and PMD due to same sequence number

Explanation: Release the software lock up during an error condition while handling source learning

PR **152950** Build: 6.4.3.653.R01

Summary: After a bad C24 is removed, the rest of the C24 NI still not come up

PR **152991** Build: 6.4.3.653.R01

Summary: cannot open CP page on 802.1x port when enabled ip-source filter

PR **150963** Build: 6.4.3.654.R01

Summary: "ip helper traffic-suppression" doesn't work, UDP Rel, the client and server reside in the

same vlan

Explanation: DHCP Requset packets needs to be sent unicast when snooping and ipherlper are

configured in the same vlan

PR **153213** Build: 6.4.3.654.R01

Summary: OS_9000 IPMS error 985:18 cmm error primary(4301) primary if 13600001



PR 152715 Build: 6.4.3.655.R01 Summary: LACP Flapping and intermittiently high CPU PR 151943 Build: 6.4.3.655.R01 Summary: NI status down in 6850 stacking when power off/on the NI several times PR Build: 6.4.3.656.R01 153209 Summary: 6850 CPU increases when QoS enabled. Task "talpms" and "taQoS" PR 152575 Build: 6.4.3.657.R01 Summary: The auth-server-down feature is not working Explanation: Classify client based on auth serv down policy if server is not reachable PR 153792 Build: 6.4.3.659.R01 Summary: debug gos internal "slice <slot>/0 dhcppps 4096' does not work in 643.R01 Build: 6.4.3.659.R01 PR 153900 Summary: port monitoring not save to flash if it was paused Explanation: Allow the port mirroring to continue the file capture even in case of pause scenario PR Build: 6.4.3.659.R01 142624 Summary: ERROR: Write memory is not permitted during file system modification PR 148628 Build: 6.4.3.659.R01 Summary: Issue with VLAN assignment after MAC authentication PR 153487 Build: 6.4.3.659.R01 SSH Crashed due to invalid SSH2_MSG_NEWKEYS RTR Summary: PR 150780 Build: 6.4.3.659.R01 Client not moved to vlan 20 after captive portal auth after upgrade from 6.3.1.999.R01 to Summary: 6.4.2.968 Explanation: Captive portal web page should be accessible only for clients who got classified based on captive-portal policy PR 152933 Build: 6.4.3.659.R01 Summary: OS_6850 stack crashed with task "taLLDPAgent" trapped PR 152819 Build: 6.4.3.663.R01 Summary: Port 5/1 fiber is listed twice in the "show interfaces status" output



PR 152757 Build: 6.4.3.666.R01 Summary: OSPF ECMP routes not seen in NSSA Explanation: Support for ecmp routes in NSSA area

PR **153794** Build: 6.4.3.666.R01 Summary: Memory depletion by the UdpRly task

Explanation: Avoid memory leak in dhcp snooping offer/ack packets received

PR **151420** Build: 6.4.3.666.R01

Summary: Ping to an IP interface fails periodically if a static route points to this interface Explanation: Static route with gateway address same as local ip interface address not allowed

PR **153544** Build: 6.4.3.662.R01

Summary: OS9700E Switch crashed after attemptinge second SSH session.

Explanation: Accessing NULL pointer is prevented when ssh dss key size is greater than 256k

PR **153443** Build: 6.4.3.659.R01

Summary: After removing Port Monitoring while it is paused, ithe switch starts to experience packet

drops

PR **152760** Build: 6.4.3.663.R01

Summary: Default route not injected into the NSSA totally stub area as a type 3 summary LSA

Explanation: Generate type 3 default summary Isa when nssa summary is disabled

PR **151899** Build: 6.4.3.647.R01

Summary: IP phone will fail everyday from 6pm to 8am.

Explanation: Connectivity issue fixed on Userports when gos spoofing is enabled

PR **151359** Build: 6.4.3.644.R01

Summary: aaa authentication ssh radius getting blocked after reboot. Need to type the key in cli to

resolve

PR **153944** Build: 6.4.3.659.R01

Summary: NI crash when port receive multicast traffic configured as qos port monitor

Problems Fixed Between Builds 669 and 716

PR **153001** Build: 6.4.3.669.R01

Summary: DHCP packets not forwarded through certain NIs in OS9800

Explanation: Address validated before access in I2C Interrupt

PR 154179 Build: 6.4.3.670.R01

Ports are not visible in GUI under accessguardian->configuration->portmobility Summary: Explanation: Display ports which are non-mobile candidates in webview while seeing mobile port

properties.

PR Build: 6.4.3.670.R01 153965

Summary: SNMP authentication falls into TACAS when default is configured. SNMP authentication should use either LDAP or LOCAL server. Explanation:

PR 154467 Build: 6.4.3.670.R01

Summary: OS6400 - taSLNEvent hogging high CPU when Reauthentication is processing

Explanation: Fix done to avoid flush and re-addition of client MAC in Source Learning Table during

re-authentication process

PR 152900 Build: 6.4.3.671.R01

NAS-Port-Type incorrect in RADIUS Access-Request Summary:

Explanation: NAS Port type set to 15 for ethernet in the radius request packet

PR 147781 Build: 6.4.3.671.R01

Summary: 6400 getting Error while doing snmpwalk for alaEServiceNNiSvlanTable

PR 154288 Build: 6.4.3.671.R01

Summary: No Ping, telnet, traffic and ports going disputed between 9000E

Explanation: Memory not freed when special multicast control packets dropped due to gos policies

PR 154667 Build: 6.4.3.672.R01

unable to configure non-supp auth policy without enabling "Supplicant Bypass" via Summary:

Webview

Build: 6.4.3.672.R01 PR 153516

Summary: Unknown application seen in the swlogs for VRRP messages

PR 149969 Build: 6.4.3.673.R01

6400 crashed with "Crash2.pmd" from dump "Excep in task: RADIUS Cli PC: Summary:

0x222cf20"

Explanation: Preventing AAA crash during server deletion

PR 151611 Build: 6.4.3.673.R01

Summary: No write commands possible on OS 6850 "ERROR System Busy Please try again"



PR **154426** Build: 6.4.3.674.R01

Summary: IAS sends hex value as "00000014" (works fine) and "14" (does not work fine). Auth

fails.

Explanation: Corrected logic to copy AUTH GROUP information from radius packet irrespective of

length

PR **152369** Build: 6.4.3.675.R01

Summary: 802.1x reauthentication

Explanation: Delayed sending EAP success to give some time for hardware to set for the new vlan

PR **152631** Build: 6.4.3.675.R01

Summary: A stack of 6 OS6850s crashed (Crash1.5.pmd)

Explanation: Fix for ESM Driver crash on Takeover

PR **154605** Build: 6.4.3.676.R01 Summary: SSH is seeing funny characters

PR **153854** Build: 6.4.3.677.R01

Summary: OS6400 crash with exception in CLISHELL task

PR **153726** Build: 6.4.3.678.R01

Summary: +++ == FRMW:CMM == Param error (tx msg to ni:0x0029000c, l:263, v:0x3e9)

PR **154646** Build: 6.4.3.678.R01

Summary: switch crashed after initiate a OMA loopback ping

PR **153880** Build: 6.4.3.680.R01

Summary: OS 6850 stack split messages with incompatible neighbor error seen

PR **152826** Build: 6.4.3.680.R01

Summary: "RxTx: crossedAboveThreshold" in OmniVista traps

Explanation: Set Rx./Tx value to 0 when port goes down

PR **154312** Build: 6.4.3.686.R01

Summary: EFM-OAM change state from operational to activeSendLocal when it lost PDU from

remote.

PR **154675** Build: 6.4.3.686.R01

Summary: OS6850 WebView - Source Learning UNP MAC Addresses displays wrong "operation"

display issue



PR 140176 Build: 6.4.3.692.R01 Summary: Issue with port-security shutdown feature.

Explanation: LPS no-aging feature

PR 154885 Build: 6.4.3.692.R01

Summary: 802.1x Timer configuration apply on a non mobile port is applied

Explanation: check introduced to validate 802.1x port before applying its configuration commands

PR 155037 Build: 6.4.3.695.R01

Getting on show log swlog "SAA error Cutils(3307):3307:Eth SAA Iter completion trap Summary:

sending... "

Explanation: Log "SAA Iter completion trap sending" messages in swlog at lower severity level.

PR 154853 Build: 6.4.3.696.R01 Summary: ethoam loopback getting timed-out

PR 154905 Build: 6.4.3.698.R01

Summary: When using tunnel-group-private-id for 802.1x, hex tag fails but string value succeeds

Corrected logic to copy TUNNEL_PRIVATE_GP_ID information from radius packet Explanation:

irrespective of length

PR 153746 Build: 6.4.3.698.R01 Summary: LPS static to convert behavior changes

Explanation: Fix for lps no-aging feature on admin down/link down scenarios

PR 148098 Build: 6.4.3.698.R01

Flash synchro failure: CCM_CSM_FLASH_SYNCHRO_RS-appError 35 Summary:

PR 155006 Build: 6.4.3.698.R01

Summary: cannot open cp logout page

Fix for PR150780 done to block the HTTP traffic for Captive-portal address if onex Explanation:

policy is not captvie portal, corrected port state chcek condition, when captive portal

logout page is requested to support the fix.

PR 154870 Build: 6.4.3.698.R01

IP source filtering function for duplicate IP/MAC-address entry Summary:

Explanation: Log creation of duplicate binding entry on console and delete the irrelevant binding entry

after dhcp timeout.

PR Build: 6.4.3.706.R01

NLB in a routed environment does not work in 6.4.3 Summary:

PR **154917** Build: 6.4.3.706.R01

Summary: DHCP discover packet is dropped when "dhcp-snooping" is enabled when connected to

telco.

PR **154766** Build: 6.4.3.710.R01

Summary: Fan traps being received on OV for OS6855-24.

Explanation: Avoid false fan inoperational traps in OS6855-24 due to any other hardware failure

Problems Fixed Between Builds 717 and 751

PR **155273** Build: 6.4.3.717.R01

Summary: A stack of 8 switches hanged with PMD file in the morning today

PR **154988** Build: 6.4.3.719.R01

Summary: Need to classify port number when non-supplicant user MAC-address will be flushed

Explanation: Added port number check while deleting mobile mac from table

PR **155082** Build: 6.4.3.719.R01

Summary: OS6850/6400: show qos config contains a typo at the DEI section.

Explanation: Typo mistake in the output of "show qos config" is corrected

PR **155143** Build: 6.4.3.720.R01

Summary: 9000 CMM reboot with cs_system1.pmd file when ip interface is deleted with no Nis in

the chassis

Explanation: Defense check introduced while deleting a interface in OS9 which has no Nis

PR **155132** Build: 6.4.3.720.R01

Summary: No: of resets not displayed in show chassis of 9000 switches.

Explanation: Chnages done to display no. of resets in show chassis

PR **153204** Build: 6.4.3.720.R01

Summary: Retry and session limit option missing in dot1x webview page.

Explanation: Added a retry count and session limit parameter in webview for 802.1x module

configuration

PR **123159** Build: 6.4.3.721.R01

Summary: 6850 reboots after scanning it using Qualys

Explanation: To fix Emweb server crash when the QualysScan tool is used to scan the switch.



PR **155814** Build: 6.4.3.722.R01

Summary: OS-9000 getting crashed whenever we enable/disable the stp ststus via WEB GUI on

port basis.

Explanation: Reset stp pointer to initial value after changing admin status for all mstp instances

PR **154673** Build: 6.4.3.722.R01

Summary: OS6850 Captive portal authentication goes directly to CP-Blk state for non existing

VLAN ID

Explanation: When radius server returns non-exist vlan id, the client should get classified based on

authentication pass classification policies

PR **155936** Build: 6.4.3.725.R01

Summary: Oversize frames Clarification between sh int & sh int accounting

Explanation: The Hardware register extraction is changed so that the retrieval of oversized frames

are done and there is no mismatch

in oversize frames

PR **155784** Build: 6.4.3.726.R01

Summary: QOS not applied on OS-6400 when assigning priority in QinQ configuration

Explanation: Do not configure FFP for bandwidth NA and priority NA profile

PR **156047** Build: 6.4.3.727.R01

Summary: No reply to ICMP request through static agg when "no forward" option set

Explanation: Forward ICMP regeust to CMM when ARP is not resolved and "no forwarding" is

enabled.

PR **156231** Build: 6.4.3.727.R01

Summary: STG status goes BLK when receive BPDU and if bpdu ignore is enabled on mobile

Explanation: Use global port to fetch Mobile Port Ignore Bpdu configuration in stpni context

PR **155153** Build: 6.4.3.728.R01

Summary: DHCP Process differnce between OS6850 and OS7000.

Explanation: DHCP Request packets not handled in software when routed in hardware

PR **156009** Build: 6.4.3.728.R01

Summary: ICMP reply with checksum error

Explanation: Checksum is calculated properly for an SAA ICMP packet received from different

vendors.

PR **156204** Build: 6.4.3.728.R01

Summary: OS6850 - 802.1x EAP Failure after switch reboot Explanation: Fix done to handle supp authentication on bootup



PR **155981** Build: 6.4.3.729.R01

Summary: Stack crash after failed ssh session authentication attempts.

Explanation: Defense check added to check double free in ssh.

PR **155243** Build: 6.4.3.729.R01

Summary: switch will not flush MAC entry whenever 802.1x session timeout or the user logout Explanation: CP logged out clients, shd not be associated to auth vlan after logout or CP session

expire

PR **156356** Build: 6.4.3.730.R01

Summary: OS6850 gives internal error when trying to add same ip for snmp station as the

loopback0

Explanation: SNMP Station address configuration restricted only to Pure Loopback0 address (not

same as physical ip interface address)

PR **155285** Build: 6.4.3.731.R01

Summary: Issue in "auth-server-down" with the UNP profile.

PR **155507** Build: 6.4.3.733.R01

Summary: DHCP discover packets drooped when discover has different client and source MAC

addresses

Explanation: When the mac-address verification is disabled And if the source mac address and

Hardware mac-address are different, Source mac is replaced with Hardware mac

address in the software mac-address list available in udp-relay module.

PR **156720** Build: 6.4.3.734.R01

Summary: qos policy condition is not displayed properly in config

Explanation: Display the default ethertype in gos policy

PR **156504** Build: 6.4.3.734.R01

Summary: CMM crashed with tCs_Probe task suspended: Analysis required

Explanation: Defence check added to prevent the Crash on an access of Invalid node in the IPV6

router List

PR **153100** Build: 6.4.3.735.R01

Summary: Exchange the CP default browser

Explanation: Set cpLoginFromFlash to 1 for accessing cp login page from /flash/switch directory.

Login file stored in flash should be named as "cpLogin.html"

PR **156572** Build: 6.4.3.737.R01

Summary: Too many port based ISF command will remove dhcp snooping trust port command

Explanation: Code changes to handle MIP overflow in UDP Relay

PR **156542** Build: 6.4.3.737.R01

Summary: PCs are not able to get IP address until we disable the DHCP-snooping

PR **157078** Build: 6.4.3.738.R01

Summary: stack set slot 1 saved slot 2 command not working

Explanation: Fix to write the boot.slot.cfg to the flash.

PR **157434** Build: 6.4.3.741.R01

Summary: arp is not flushing on CMM on link agg down

Explanation: Inform CMM during the arp flush in IPNI when the linkagg port leave is recieved.

PR **155533** Build: 6.4.3.745.R01 Summary: BCM show BLK state for mobile port

Problems Fixed Between Builds 752 and 779

PR **156049** Build: 6.4.3.752.R01

Summary: OS9 - Subnet broadcast in Bootp Packets are not relayed to the relay address

configured.

Explanation: Bootp buffer handling size increased from 1024 to 1400 to handle pxe discover packets

NOTE: BOOTP Packets of Max Size 1400 Bytes only will be handled by AOS 64x

Devices

PR **156609** Build: 6.4.3.752.R01

Summary: info === HSM === Power Supply 1 has been REMOVED message coming frequently

on os6855

Explanation: Changes to hold the power supply down message on 6855 C14

PR **156618** Build: 6.4.3.754.R01

Summary: "ethernet-service uni-profile I2-protocol stp peer" is not applied on UNI port Explanation: Added a check not to allow peer option support in ethernet-services I2-protocol

PR **149830** Build: 6.4.3.755.R01

Summary: Unable to login after changing the admin user password to xxxxxxxx"!"

Explanation: Check for Password with speciall symbol

PR **157451** Build: 6.4.3.755.R01

Summary: OS9800 gos log clarification.

Explanation: Issue with destination port display in "show qos log" output has been fixed

PR 156602 Build: 6.4.3.755.R01 Summarv: unit 2 in a stack of 6 crash with dump file.

Explanation: Code changes done to display the assembly instructions in pmd around both PC and

Link Register

PR 157631 Build: 6.4.3.757.R01 Summary: How to disable the gratuitous ARP.

Introduced control over sending of gratuitous arps for ips configured for interfaces in the Explanation:

switch. This is done by help of existing variable "ipedrArpPoisonLrn", when set to 0 will

stop the sending of gratuitous arps over the network.

PR 157438 Build: 6.4.3.757.R01

Summary: OS 9E NTP date, year with time not showing correctly.

Explanation: Couple of year back DST For AEST has changed corrected in Code also.

PR 156360 Build: 6.4.3.758.R01

OS6400 doesn t forward option-82 information to another switch (Telco) when DHCP Summary:

snooping is enabled

The DHCP packet will be forwarded without stripping opt82 format from the packet if Explanation:

POLICY_KEEP is enabled.

PR 157396 Build: 6.4.3.758.R01

Summary: OS6850: Latency of approx 1 Sec in authorisation with TACACS. Explanation: Reduced delay in tacacs+ command authorization to 100 ms.

PR 156321 Build: 6.4.3.758.R01 Summary: UNP policy group doesn't work on 9700

Explanation: More appropriate error message has been given while configuring UNP rule for not

supported Hardware's.

PR 155961 Build: 6.4.3.759.R01

issue were static routes added on fly are going inactive and after a reboot few will come Summary:

Explanation: Allow host specific static route, if the gateway is on different subnet

PR 157814 Build: 6.4.3.760.R01

Summary: NI reset and PMD generated at 8:30hrs. Ni monitoring timeout seen in log Explanation: Fix to Drop ND6 packets when there is no ipv6 interface configured on the router

PR 157245 Build: 6.4.3.761.R01

Summary: OSPF neighbor goes down after changing system clock back by one hour or more Explanation: OSPF MD5 Sequence Number is modified to a static counter initialised to system time

during ospf restart



PR **158147** Build: 6.4.3.762.R01

Summary: tCS_PRB and talPni task suspended on OS6850 stack.

Explanation: ICMP Request is processed in CMM only for packets which are destined to one of the

configured interface.

PR **158236** Build: 6.4.3.763.R01

Summary: ERROR: Authorization failed. No functional privileges for this command

Explanation: Added check for syntax check mode for tacacs authorisation

PR **157912** Build: 6.4.3.764.R01

Summary: LACP port with non-default admin key is joining the LACP group with default admin key

Explanation: port should join the linkagg with matched actor admin key, no default actor admin keys

will be entertained

PR **157273** Build: 6.4.3.765.R01

Summary: Stack of 6850 not able to issue some CLI command.

Explanation: Clear the buffers after the processing of MIP messages from an Invalid session

PR **156341** Build: 6.4.3.766.R01

Summary: Random link toggle on U24E board with Picolight SFP

Explanation: Handle the I2c read failure gracefully

PR **156623** Build: 6.4.3.766.R01

Summary: NI CPU high talP6NI and bcmRx task are going high.

Explanation: Nd6 Unreach control mechanism in ipv6

PR **155432** Build: 6.4.3.766.R01

Summary: Need trap implementation when MAC movement happens

Explanation: Trap is implemented for a MAC movement under UDP Relay binding context.

PR **157954** Build: 6.4.3.767.R01

Summary: OS6850- Crash with UDLD task "taUdldNi" Explanation: UDLD NI Crash on TTL timer expiry is resolved

PR **158283** Build: 6.4.3.768.R01

Summary: Switches susceptible to Denial of Service attack on UDP port 123 (ntp)

Explanation: A node receiving an error response should not be responded automatically to it with it's

own error response.

PR **155410** Build: 6.4.3.768.R01

Summary: huge netsec configuration result in no output when issue show config snapshot Explanation: Correcting the Previous group name passed to avoid MIP OVERFLOW in NETSEC



PR **158104** Build: 6.4.3.769.R01

Summary: The port speed of the 10 gig port is showing wrong value with OV. Explanation: Changes done to display the correct port speed for stacking ports

PR **154357** Build: 6.4.3.772.R01

Summary: OS6850 - QoS user-port shutdown bpdu does not work properly

Explanation: Prevent lockup due to ESM reactor semaphore during port shutdown processing

PR **157953** Build: 6.4.3.772.R01

Summary: Need to redefine the MAC range in alaPhones mac group Explanation: Addition of mac range to the existing alaPhones mac group

PR **158131** Build: 6.4.3.772.R01

Summary: OS9: ERP ring rpl port in forwarding state for some vlans.

Explanation: Vlan manager should not change the port status based on STP status for ERP ring

ports.

PR **158169** Build: 6.4.3.773.R01

Summary: Port stuck in mirroring configuration. Unable to change the port configuration. Explanation: Added check to throw error when remote port mirroring vlan enabled on default

mirroring session

PR **158447** Build: 6.4.3.774.R01

Summary: Qos not getting applied after reboot of the switch

Explanation: Huge QOS config retained after reload when IP_ARP spoofing feature is enabled

PR **158373** Build: 6.4.3.776.R01

Summary: sshd_ct0 and tCS_PRB tasks suspended on OS9800 running 6.4.3.717.R01 Explanation: Added NULL check before calulating the PADDING length in the SSH packet

PR 157697 Build: 6.4.3.778.R01 Summary: OS6850 Sensitive delay in TV zapping

Explanation: Code changes to handle when static querier ports enabled in multicasting

Problems Fixed Between Builds 780 and 810

PR **158505** Build: 6.4.3.780.R01

Summary: OS9800: Issue in OSPF interface advertisement in redistribution.

Explanation: LSA pretraining to old route (with different mask) with age 3600 is flooded on the

interface before processing futher



PR 158326 Build: 6.4.3.781.R01

Summary: tCS_PRB, tlPrm0 and tPim0 tasks suspended on OS9800 running 6.4.3.668.R01 Inter module message size limit is checked for a remote probability occurrence Explanation:

PR 158692 Build: 6.4.3.781.R01

OS 6850 stack crash with error "== CSM == Excep in task: LnkAgg PC : 0x19a78b4 " Summary:

Explanation: Added defense fix as port index pointer validation check

PR 158769 Build: 6.4.3.782.R01

Summary: Crash in Vstk after issueing few show commands

Explanation: Added defense check to prevent Crash in VSTK show commands

PR 159157 Build: 6.4.3.782.R01

Summary: OS6850 dosnt seem to generate alarm/trap when a remote endpoint is down.

Explanation: Changed the Priority behavior of the Fault Notification of ethoam

PR 156000 Build: 6.4.3.783.R01

The Interval Start time in the history page of rmon tool doesnt relate to the PC system Summary:

time.

Explanation: Rmon timer display issue has been fixed

PR 158621 Build: 6.4.3.785.R01

2nd unit in stack 2*6850 crashed "APPLICATION_FATAL STR for: ErpCmm -Summary:

>suspended"

Explanation: Debug Dump of ERP CMM Connections added in PMD

PR 158812 Build: 6.4.3.785.R01

Summary: IPv4 and IPv6 ACL is causing CPU to go to 100%

Explanation: Corrected configuring of QoS rule in hardware for IPV6 traffic.

PR 159704 Build: 6.4.3.787.R01

OS6850: nisup_sounderHealthMonitor +1cc: Summary: nisup sounderSendTaskSuspendedTrouble()

Explanation: Code changes done for preventing memory leak in wrong LDAP configuration in switch.

PR 159062 Build: 6.4.3.788.R01

Summary: OS6855 - stack unit 3 or 4 is rebooting without any reason

Explanation: To assign previously allocated module ids for stack slots and it units.

PR 158234 Build: 6.4.3.789.R01

Summary: Transparent-bridging works only after a reload

Added taskDelay of 5 ticks between vstk port creation and tunnel bind Explanation:

PR **159619** Build: 6.4.3.791.R01

Summary: gos port maximum bandwidth command limitation

Explanation: Configure maximum egress-bandwidth/ingress-bandwidth along with q1 minbw/q0

minbw via same CLI

PR **159833** Build: 6.4.3.791.R01

Summary: Unable to disable STP on the router port with bridge mode flat. Explanation: Notify stp for cist instance on creation or deletion of router port

PR **158212** Build: 6.4.3.792.R01

Summary: "depth" in a sap-profile is not applied on OS6400 platform

Explanation: Value configured in the depth field of sap-profiles is properly programmed in the

hardware counter-Bucket Size

PR **155356** Build: 6.4.3.794.R01

Summary: Vista PC goes to filtering mode when binding is enabled as there is no reply for first 4

ARP request

Explanation: Ignore arp request, probe packet with sender ip address as 0 on mobile port

PR **160221** Build: 6.4.3.795.R01

Summary: Is it possible to have NTP server DNS name in boot.cfg instead of ip address of NTP

server

Explanation: DNS name will be displayed in configuration snapshot if NTP server is configured with

DNS name.

PR **159987** Build: 6.4.3.795.R01

Summary: BGP not showing the route in kernel table

Explanation: Reset Peer when interface comes up and neighbor ship is already established

PR **159498** Build: 6.4.3.797.R01

Summary: Show commands not working after switch was upgarded.

Explanation: Handled the MIP OVERFLOW condition in Ildp during the execution of the cli show

configuration snapshot.

PR **160600** Build: 6.4.3.798.R01

Summary: DHCP_client not changing to discovery after link down/up.

Explanation: Discover process to be started, if any port of the dhcp-client inteface vlan comes up

PR **160463** Build: 6.4.3.799.R01

Summary: dshell cd "/flash/worrking" cause Synchronization commands will not be accepted due to

low flash

Explanation: From dshell, "cd" will validate if the the operation is done for a vaild directory, else

returns error.

PR **160039** Build: 6.4.3.800.R01

Summary: After upgrade to 6.4.3.779.R01, vlan 1 traffic is not passing through tagged port

Explanation: Clear untagged port bitmap alone for all vlans while initalising stp task

PR **160528** Build: 6.4.3.802.R01

Summary: OS6850 is duplicating 802.1x commands line under show configuration snapshot

output.

Explanation: Handle MIP overflow errors in aaa snapshot

PR **158241** Build: 6.4.3.802.R01

Summary: "show qos queue" showing wrong values

Explanation: Design change for resetting the gos hardware counters, No clear on read. show gos

queue command showing wrong values corrected.

PR **158888** Build: 6.4.3.802.R01

Summary: The default (blt) network group Switch cannot be used via OmniVista.

Explanation: Policy Switch Network group can be used from LDAP for QOS configuration

PR **158233** Build: 6.4.3.804.R01

Summary: Automatic SNMP reconfiguration generate communication drop on LPS port

PR **158399** Build: 6.4.3.804.R01

Summary: OS6850 crashed:tUfiCInt (edd2560) @ 5 PEND lckd=0 ME DS stk edd2560-edcd740

Explanation: Debug added in PMD to dump Swlog and Console FD details

PR **161011** Build: 6.4.3.805.R01

Summary: DVMRP not switching back to the primary path

PR **159692** Build: 6.4.3.808.R01 Summary: OS 9000 unexpected CMM take over

Problems Fixed Between Builds 811 and 835

PR **160902** Build: 6.4.3.811.R01

Summary: Stack of 3xOS6850 - synchronization failure in an environment with a non-default

timezone

Explanation: Increase taskDelay to make sure HSM date/time update is done before flash synchro

PR **160791** Build: 6.4.3.812.R01 Summary: OS6850:Problem in QoS no trusted port.

Explanation: Changed mechanism to copy webhostname from http request header



PR **161099** Build: 6.4.3.812.R01

Summary: On web gui view the system uptime is showing 000 after 365 days.

Explanation: Display year field in system up time for webview display

PR **160997** Build: 6.4.3.814.R01

Summary: OS6850-48X switch crashed by suspending tCsCSMtask2 & QoS tasks

Explanation: Debug statement modiled not to carry unwanted string

PR **160497** Build: 6.4.3.816.R01

Summary: 802.1X not connecting all users after reboot of 6850 (ref PR#156204)
Explanation: Ignore packet received on dot1x port for ip task to be ready after reload

PR **160721** Build: 6.4.3.817.R01

Summary: OS6850stack: tSLNAdrLrn (c570570) @ 100 SUSPEND lckd=0 ME DS stk c570570-

c56d690

Explanation: Avoided crash while accesing per vlan table list

PR **161451** Build: 6.4.3.818.R01

Summary: A few stacks of 6850 MAC address not able to age off properly

PR **159585** Build: 6.4.3.819.R01

Summary: "show power supply" show type AC instead of DC.

Explanation: PoE register values has updated based on the type of board

PR **152163** Build: 6.4.3.821.R01

Summary: Issue in accessing switch using SSH client running OpenSSH 3.9p1

Explanation: Changed the socket Level MTU in SSH to reflect the Client MTU configuration

The Fix is controlled using an Global Variable tcpMSSLimit.

We need to set this value with the same as specified in the Interface MTU for the SSH

client.

The Same MTU will remain valid for any other SSH session established on the DUT.

PR **157326** Build: 6.4.3.821.R01

Summary: show temperature, Upper threshold and Temperature status Explanation: Temperature status will update based on threshold change.



PR **159993** Build: 6.4.3.822.R01 Summary: 802.1x issue after upgrade to 6.4.3

Explanation: Pass message to all Nis when mobile entry is deleted

PR **161551** Build: 6.4.3.823.R01

Summary: NTP Server address configuring with the unicast address ending with ".255" address is

not working.

Explanation: Corrected the Validation for bcast address in ntp client/server

PR **158694** Build: 6.4.3.826.R01

Summary: bcm_switch_control_set(x,19,0) in AlcatelDebug.cfg

Explanation: debug cli to disable unknown multicast packets to CPU is introduced. By default it is

enabled.

To disable the following Command can be used debug ip set ipv4ControlProtocolDisable 0

NOTE: disabling this flag will modify switch not to accept any multicast control packets

224.x.x.x

So protocols using these Mutlicast control address will not work

PR **160928** Build: 6.4.3.827.R01

Summary: OS6400 - New error message needed when TACAS server unreachable

PR **161347** Build: 6.4.3.828.R01

Summary: crash on radius server nt reachble message "Excep in task: RADIUS Cli PC :

0x2607b78 "

Explanation: We did fix to restrict the typecasting only for authentication requests. So accouting

requests will not have any chance to go and access the wrong location.

PR **160626** Build: 6.4.3.830.R01

Summary: tac_plus/TACACS+:ERROR: Authorization failed. No functional privileges for this

command

Explanation: Retry mechanism for TACACS server communication time errors

Problems Fixed Between Builds 836 and 861

PR **162981** Build: 6.4.3.836.R01

Summary: Not able to change password on secondary unit of 6850 stack

Explanation: Enabling the change in password on Primary to reflect on secondary CMM also



Build: 6.4.3.837.R01

PR

PR

Summary:

Explanation:

163492

163003

Summary: Radius cli task suspended on OS9800 running 6.4.3.717.R01 PR 161110 Build: 6.4.3.838.R01 Summary: High memory on OS6850 running 6.4.3.717.R01 PR 161418 Build: 6.4.3.838.R01 Summary: ERP loop once the switch is rebooted within a ring. PR 163167 Build: 6.4.3.839.R01 Summary: ICMP reply with checksum error Explanation: Checksum is calculated properly for an SAA ICMP packet received from different vendors. PR 161713 Build: 6.4.3.840.R01 Summary: Not all SG entries are pruned in PIM-DM (stale entries) PR 162757 Build: 6.4.3.841.R01 Summary: PIM-DM have to reenable status when we add a dense group Explanation: Deleting static dense group needs to delete corresponding sg/forwarding entries. PR 163667 Build: 6.4.3.842.R01 Summary: Query on trap "Trap OID: .1.3.6.1.4.1.6486.800.1.3.2.15.1.0.1"and packetDroptype 13 PR 160756 Build: 6.4.3.844.R01 Summary: Decrementing Counter values for the OID (.1.3.6.1.2.1.2.2.1.11.13600002) Explanation: total packet counter incremented when packet is received Build: 6.4.3.846.R01 PR 163336 Summary: PIM-SM higher priority candidate-rp does not work correctly when it comes up back Explanation: Control variables introuduced to rate limit egress of pim join / prune pim_jp_limit, this varaible specifies the number of packets that need to be send out per sec (Existing one) pim_jp_delay_reset, this variable specifies the maximum seconds of introuduced delay before a pakcet is sent out (Introudced one).

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Defatul values, pim_ip_limit = 0 (Disabled by default), pim_ip_delay_reset = 255

Os 6850 cmmLldpProcessEvent:FSM error 0 messages flooded in swlogs

To Avoid timer over flow (to neagtive values), timer range has increased.

Build: 6.4.3.847.R01

PR **164425** Build: 6.4.3.850.R01

Summary: High CPU on OS9800, tPim0 hogging maximum CPU. Explanation: Dump Function Introduced to dump the RP List contents

PR **163998** Build: 6.4.3.853.R01

Summary: OS6850 stack failure Error -5 is thrown due to temporary congestion in the IPC.

Explanation: tt of top three CPU hog tasks added in stackDebug.log

PR **165232** Build: 6.4.3.854.R01

Summary: 802.1x non supplicant device group mobility rule not applying correctly.

Explanation: Ignore ARP probe packet on AAA port

PR **160807** Build: 6.4.3.857.R01

Summary: topology view issue between in OV for fiber links between 9800 switches

Explanation: Added needed validation to the PortID ifIndex of LLDP

PR **164297** Build: 6.4.3.858.R01

Summary: DHCP Server database updation failed - 6400 switch running 6.4.3.520.R01 release

code

Explanation: File Descriptor is handled properly while updating DHCP SERVER Database.

PR **165230** Build: 6.4.3.859.R01

Summary: OS9700 Switch crashed while executing the command rls cmm: b

Explanation: Corrected NULL Pointer access while executing rls command on Dual CMM

PR 164814 Build: 6.4.3.859.R01 Summary: MSTI instance 5 missing after reload.

Explanation: Handling mip overflow issue in MSTP config

PR **166151** Build: 6.4.3.860.R01

Summary: When VRRP is enabled for NLB server vlan, client looses connectivity to VIP for NLB.

Explanation: Care taken to retain the Static Arp entries in both H/W and S/W when VRRP is

enabled/disabled.

PR **162043** Build: 6.4.3.861.R01

Summary: SFP on alcatel link down and other end link is half 1000Mbps

Explanation: Auto-Slave detection registers disabled for 1000-Fx(SX/LX/LH) for BCM 5482 phy chips.

Problems Fixed Between Builds 862 and 884

PR **167257** Build: 6.4.3.862.R01

Summary: Cli fails to parse the command: aaa authentication 802.1x "server1" "server2" "server3"

PR **166417** Build: 6.4.3.863.R01

Summary: Switching bootup time increased after upgrade to 6.4.4.441

Explanation: Reduced the bootup time by removing delay in case EOIC is not received for VSTK

module.

PR **162121** Build: 6.4.3.864.R01

Summary: 100% CPU hike in 6400 unit 1 due to talpni Explanation: Semaphore lock in 802.1x to prevent task lockup

PR **168834** Build: 6.4.3.868.R01

Summary: OS 9700 BGP configured with AS-prepend issues.

Explanation: Update the queued attribute structure to 0 if an attribute already exists and peer's send

policy is sent for re-evaluation

PR **167944** Build: 6.4.3.869.R01

Summary: SLB Cluster IP is not able to ping from Secondary unit of the 6850 stack

Explanation: Flush old proxy arp for SLB cluster ip after takeover

PR **167979** Build: 6.4.3.870.R01

Summary: Warning message to be displayed if an SNMP station is configured with a non-existent

user

Explanation: A warning message displayed when SNMP station is configured with non-existent user

PR **169172** Build: 6.4.3.871.R01

Summary: ERP issue

Explanation: Sent proper vlan parameters to dot1q NI on NI plugout and plugin scenarios

PR **170018** Build: 6.4.3.873.R01

Summary: OS9702 dhcp offer dropped when dhcp snooping is enabled

Explanation: Don t drop Dhcp-Offer when received on client port but not on client vlan. This behavior

is controlled by debug flag "allowRoutedReplyOnClientPort". When it is set to 1: Then we allow switch to receive Bootp-Reply packet in the client port under the condition that

the Vlan is different.

PR **158840** Build: 6.4.3.873.R01

Summary: XFP information is not seen in OV inventory report.

Explanation: Corrrected the module IDs for XFP's and modified the description in mib file

PR **166633** Build: 6.4.3.875.R01

Summary: Missing link after polling switch in Omnivista 3.5.2 version. Explanation: Prevent mismatch of chassis ID on CMM and NI after takeover

PR **165198** Build: 6.4.3.876.R01

Summary: PVST+ is not converging for the default vlan with OAW Explanation: VLAN 1 sends IEEE BPDU irrespective of PVST Mode set

PR **167100** Build: 6.4.3.877.R01

Summary: show power x does not shows the complete information till we reboot the switch. Explanation: Corrected the EEPROM read to re-update the details of the power supply during

Operational Status up/Down

Problems Fixed Between Builds 885 and 893

PR **171051** Build: 6.4.3.885.R01

Summary: Issue with (SFP-100-BX20LT) which are 100MB SFP are displayed as 1000 by default

Explanation: Support for 100-FX SOURCE PHOTONICS SFP

PR **172537** Build: 6.4.3.889.R01

Summary: Multicast forwarding entry missing due to RPF check failure - next hop router none

Explanation: Corrected the Multicast forwarding entry miss after reboot

PR **172644** Build: 6.4.3.890.R01

Summary: talPMS stucked at 100% due to hardware write failure

PR **172210** Build: 6.4.3.892.R01

Summary: Switch crashed due to suspension of bcmRX and tCsCSMtask2

Explanation: Added A Null check to Prevent the crash

PR **171610** Build: 6.4.3.892.R01

Summary: OS9800 crash with onex task being suspended.

Explanation: Fixed crash seen when onex sends message to secondary

PR **170080** Build: 6.4.3.892.R01

Summary: Issue with "show aaa-device all-users" output.

Explanation: show aaa-device all-users will display all the clients in the switch.

PR **171720** Build: 6.4.3.892.R01

Summary: OS9-XNI-C24 crashed when gos port monitor is enable

Explanation: Enabling port monitoring Support on Revision "A" NI boards of OS97.

Problems Fixed Between Builds 894 and 902

PR **168946** Build: 6.4.3.894.R01

Summary: Switch rebooted and PMD file generated. Task "taSLNEvent" suspended

PR **173649** Build: 6.4.3.895.R01

Summary: Swlog logging messages on high CPU status for CMM / NI. Reference PR# 162618 Explanation: Additional Changes added to the current swlog to display if CMM/NI side task is affected

while during an CPU spike

PR **175082** Build: 6.4.3.895.R01

Summary: OS9700/9600 NI reset with PMDs when trying to test the hotswap.

Explanation: Fix done not to send ERP_CONFIG_NOT_CERTIFIED or any message to Ni while

takeover is in progress.

PR **175323** Build: 6.4.3.896.R01

Summary: Switch crashed with tCS_PRB and NtpDaemon tasks suspended. Logs observed with

error link_oam_get_nex

Explanation: Null pointer check handled for NTP peer destination addres.

PR **175179** Build: 6.4.3.898.R01 Summary: OS9700/9800 Telnet not working

Explanation: Added debug API's to recover the opened TELNET sessions and also to dump the state

information of all opened sessions.

PR **176624** Build: 6.4.3.901.R01

Summary: OS9700 - CMM takeover happened and found NI-2 was RESET.

PR **169401** Build: 6.4.3.902.R01

Summary: Clients not getting the IP address when NAP is enabled

Explanation: Allowed Bootp length in Udp-Relay is 1464

Problems Fixed Between Builds 903 and 907

PR **157566** Build: 6.4.3.906.R01

Summary: OS9700 - IPv6 neighbors seen as 49710 days

Explanation: In the ND6 implementation, for each neighbor entry, In_expire variable specifies when

the next state transition should take place. The value in In_expire should always point to a time (in seconds) in the future but somehow it gets reset to a wrong value. This affects the amount of time a neighbor entry spends in STALE state and shows wrong values in

"show ipv6 neighbors" output.

Problems Fixed Between Builds 907 and 930

PR **179918** Build: 6.4.3.908.R01

Summary: Switch crashed with tCsCSMtask2,tCS_CCM,tCS_PRB tasks suspended

Explanation: Defensive check added to avoid null pointer access

PR **180263** Build: 6.4.3.909.R01

Summary: vstkCmm_sendPortTunnelUnbindMsg with Linkagg flapping.

Explanation: Increased the delay between consecutive retries to send messages between vlan

stacking CMM &NI

PR **179239** Build: 6.4.3.909.R01

Summary: OS9800 Ni 8,7,9,11 and 16 rebooted in the 2 core switch. ipcTech logs and NI.pmd and

cmm.Ni.pmd file

Explanation: Third party fix to speed up flush API

PR **181064** Build: 6.4.3.910.R01

Summary: OS 6400 unable to boot from certified, crashing with tCS_PRB & Ipmem task

suspended.

PR **179971** Build: 6.4.3.911.R01

Summary: Stack of 6850 crashed due to the suspension of the task "taLnkAgg"

Explanation: As per the customer request defence check have been made not to access invalid

memory pointer and also debugs has been added to track the task which corrupts the

pointer

PR **182219** Build: 6.4.3.915.R01

Summary: DHCP server showing the lease time as 0 while configured as infinity.

Explanation: Changes done to display the lease time correctly when infinite lease time is set in server

PR **182457** Build: 6.4.3.918.R01

Summary: Ni 1 CPU was constantly high and switch crashed and takeover happened.

PR 185552 Build: 6.4.3.919.R01 Summary: Issue with NI display in web view

PR **187156** Build: 6.4.3.926.R01

Summary: Malformed BPDU (wrong length) for default VLAN in XNI modules- BPDU dropped in

firewall

Explanation: Added a control variable to set the BPDU length on 10Gig ports to force the length field

of the BPDU to be equal the standard length 39.

Under Verification:

PR **129943** Build: 6.4.3.360.R01

Summary: 6850 does not display the complete ip addr when using the complete 4 octets of ip addr

in ipms logs

Explanation:

Swlog message is updated to print information continusly (maximum of two lines)

PR **142787** Build: 6.4.3.387.R01

Summary: Mac adds not learned on port 1/23 and 1/24 after upgrade to 6.3.4.443.R01 from

6.3.1.975.R01

Explanation: UNI/NNI status updated properly in hardware during stack reload with huge Vlan

stacking configuration

PR **141708** Build: 6.4.3.394.R01

Summary: INTERFACE info Bad SFP on port 4/6 on XFP LR

PR **140921** Build: 6.4.3.404.R01

Summary: NI Monitoring timeout on OS9 ni. Follow-up of PR#135476//136077

Explanation: Fix the bug in the Hardware chip which caused the cell drain error and NI monitoring

timeout

PR **136835** Build: 6.4.3.421.R01

Summary: Using 6.3.1.1124.R01 on 6800 devices, an STP blocked port sends an AMAP trap

(add/remove) to its SNM

Explanation: Fix to avoid generation of amap traps on STP blocked ports from 541R01(97746)

PR **144097** Build: 6.4.3.426.R01 Summary: vlan mac-range mobile port in filtering

Explanation: Allow packets with vlan id 0 to be classified based on vlan-mac rule

PR **144464** Build: 6.4.3.429.R01

Summary: SLB task error when upgrading from 6.3.1 to 6.4.2

Explanation: Increase SLB snapshot command storage array size to prevent overflow

PR **144819** Build: 6.4.3.447.R01

Summary: BGP configuration command recognized correctly but stored in wrong format

Explanation: BGP configuration stored in correct format in snapshot and boot.cfg.

PR **144702** Build: 6.4.3.469.R01

Summary: ARP flushing on link agg is taking excessive CPU resources

Explanation: IPNI Linkagg handling changes and cleanup

PR **144773** Build: 6.4.3.529.R01

Summary: Unable to SSH (re-open of PR#141384) error "buffer_get_string_ret: bad string length

2914692538"

Explanation: Prevent SFTP-server and SFTP-client from freeing unused FD

PR **144204** Build: 6.4.3.529.R01

Summary: Sflow samples doesn't report crc error info. Errors seen in interface counter.

Explanation: Fix to display the recieve Error statistics in the sflow tool.

PR **144814** Build: 6.4.3.531.R01

Summary: OS6400: LPS Violation shutdown not working correctly Explanation: Prevent deletion of static mac when lps port is shutdown

PR **145294** Build: 6.4.3.533.R01

Summary: Dump BCM CRC Parity error details to PMD

Explanation: Reset NI only when non recoverable BCM MMU parity error occurs.

PR **144468** Build: 6.4.3.537.R01

Summary: Clients losses Intervlan access if per vlan DHCP snooping is enabled on the switch Explanation: Handling of packets that are switched from the software across different NI without

modifications with proper flag settings

PR **144434** Build: 6.4.3.543.R01

Summary: PMD file generated when ERP configured along with VRRP

Explanation: Crash in vrrp task when configured erp on that vlan is resolved using a defense fix.

PR **131919** Build: 6.4.3.543.R01

Summary: Static linkagg and MST not working correctly when spanning-tree is disabled on the

aggregate link

Explanation: Spanning tree will be disabled for all MSTI instances when its disabled on CIST. All the

ports in the CIST and MSTI will be in forwarding state

PR **140231** Build: 6.4.3.546.R01

Summary: BBUS resets during the takeover and it is affeciting the comm between the CMMs

Explanation: False suspension alarm for tasks handled, preventing switch crash

PR **125322** Build: 6.4.3.552.R01

Summary: Configured system daylight savings cannot be reconfigured & dates are not calculating

correctly.

Explanation: The code has been changed to display the daylight savings time as per the command

given in the site.

PR **144811** Build: 6.4.3.555.R01

Summary: Default value for historyControlInterval for rmon is different from its MIB definition

Explanation: Implemented new CLI commands to configure history control interval value.

PR **141405** Build: 6.4.3.558.R01

Summary: Units reboot in OS6400 stacks - no pmd, SM superv msg losses seen in neighbor slots

Explanation: Increasing impedance on the power line to 45 Ohms, did not produce any processor

freezes. Would have to update uboot to have the right impedance.

PR **141259** Build: 6.4.3.563.R01

Summary: ARP entries are not learned

Explanation: Loopback0 not included in interface skiplist of NI for proper connectivity. If the

loopback0 is configured in the same subnet of a local interface.

PR **147311** Build: 6.4.3.566.R01

Summary: No default route is generated when OSPF area is configured as NSSA.

PR **147610** Build: 6.4.3.566.R01

Summary: Low path cost routes not prefered in OSPF route selection

Explanation: Forwarding address for an area is selected based on the ospf interface cost. The

interface which is active and with lowest metric is selected as the forwarding address for

the NSSA area

PR **131418** Build: 6.4.3.567.R01

Summary: unable to synchronize CMMs due to Due to SIMPLEX CMM

Explanation: Debugs to track CVM states and new cli to recover the switch during flash-synchro

failure

PR **145478** Build: 6.4.3.567.R01

Summary: Wrong rem_addr value in the TACACS+ authorization START packet body Explanation: Correct remote address in TACACS authorization START packet body

PR **141539** Build: 6.4.3.581.R01

Summary: pmd analysis needed

Explanation: Prevent crash when radius shared secret key is greater than 32

PR **147020** Build: 6.4.3.590.R01

Summary: OS6850 reboots and crashing continuously after establishing of OSPF3

Explanation: Fixed external AS LSA size issue

PR **145451** Build: 6.4.3.595.R01

Summary: synchronization causing second unit of reboot Explanation: Manual flash-syncho will not reload units

PR **147084** Build: 6.4.3.595.R01

Summary: AOS 6850 number 3 unable to join the stack

Explanation: Reloading entire stack when there are multiple NI failures simultaneously on a ring

topology

PR **149519** Build: 6.4.3.598.R01

Summary: In case of dual HIC failure the reconnect timer should be bypassed Explanation: Fix done to bypass reconnect timer during HIC Complete failure.

PR **143088** Build: 6.4.3.612.R01

Summary: OS6400-24: When pc is connected to port, wrong led port glows

Explanation: OS6400 displaying its connectivity LED lights incorrectly. Issue is applies to these two

models only OS6400-C24 and OS6400-P24.

PR **125329** Build: 6.4.3.631.R01

Summary: Clients connected to 6850 as Edge Switches(layer2) not able to pass the Authentication

(avlan issues

Explanation: The frames with Destation mac address(00:20:da:00:00:02) i.e, aaa special mac is

processed by the cmm software only when the 802.1x or avlan is enabled in the switch else the frames are just flooded by the hardware itself. Also the frames with the

Destination mac address (01:80:c2:00:00:03) i.e,802.1x special mac is processed by the

cmm software only when 802.1x is enabled in the switch else it just flooded by the

hardware itself.

PR **148668** Build: 6.4.3.650.R01

Summary: DHCP

PR **149980** Build: 6.4.3.725.R01

Summary: OS 9800E linkagg port join leave message on swlog.

Explanation: Added a LACP Debug code changes for the various reasons of linkagg port leave failure

PR **162439** Build: 6.4.3.913.R01

Summary: RADIUS Cli task crashed when interfaces 1 admin down with 1000 suppl were

authenticaed.

Explanation: Checks added to aviod unwantd crash when the server becme not reachable.

PR **152128** Build: 6.4.3.727.R01

Summary: 6850 combo port: coper LED blink instead of fiber and esmDumpPort show "ledCtl=0"

PR **155306** Build: 6.4.3.706.R01

Summary: sftp crashed

PR **158097** Build: 6.4.3.930.R01

Summary: Warning message for duplicate static MAC configured on LPS port

Explanation: Warning message for duplicate LPS mac

PR **157326** Build: 6.4.3.856.R01

Summary: show temperature, Upper threshold and Temperature status Explanation: Temperature status will update based on threshold change.

PR **160586** Build: 6.4.3.863.R01

Summary: Jumbo MTU size setting loss on 10MB port setting when port bounces Explanation: Code fix done to retain the max frame size configured when port bounces

PR **132164** Build: 6.4.3.631.R01

Summary: Dump additional parameters regards to taskStack, inorder to debug the Stack Overflow

issue in future

Explanation: Dumped additional parameters in PMD to debug the stack overflow issue

PR **139633** Build: 6.4.3.357.R01

Summary: OS6850 crashed when command "copy working certified " with "error reading

/flash/working/ entr

Explanation: Retry mechanism introduced which calculating the checksum of image files

PR **148420** Build: 6.4.3.596.R01

Summary: 6.4.2 and 6.4.3: Autonegotiation bug for 100base-FX

Explanation: Code changes to generic phy driver to program the internal phy for autoneg

configurations.

PR **155200** Build: 6.4.3.800.R01

Summary: need to preserve TCAM space by using software rules (no-cache option)

Explanation: Display issue with "show gos statistics" for no-cache option has been fixed

PR **176279** Build: 6.4.3.900.R01

Summary: Bidirectional port mirroring not working as expected

Explanation: The problem in setting the hardware registers for egress mirroring is fixed and provided

with a official debug image.

PR **172495** Build: 6.4.3.888.R01

Summary: AOS 6850 is dropping PIM DM State Refresh Message when running with 2000 S,G

y. routes and 4 PIM DM Nei

Explanation: Flush old proxy arp for SLB cluster ip after takeover

PR **174272** Build: 6.4.3.914.R01 Summary: OS9000E 100% CPU due to pim3 task

Explanation: Fix done for PIM task crash due to route delete in IPRM context

PR **109140** Build: 6.4.3.526.R01 Summary: 7700 uptime reset after 497 days

Explanation: sysUpTime is not wrapped up after 497 days.

PR **131963** Build: 6.4.3.534.R01

Summary: OS6600 stack split with duplicate slot condition/ No PMD files generated Explanation: Generate the stackDebug.log file during supervisory msg loss scenarios

PR **140452** Build: 6.4.3.540.R01

Summary: Static routes not redistributed if ospf is disabled on the vlan interface with gateway IP for

the st

Explanation: Proper Updation of Ext LSA if any of the ospf interfaces go down

PR **143052** Build: 6.4.3.401.R01

Summary: snmp oldest trap replay value in CLI vanishes after an SNMP SET update from OV

(NMS)

Explanation: Display the replay count even when the snmp trap station in sync with switch

PR **146120** Build: 6.4.3.531.R01

Summary: Type 10 LSA handling issue

Explanation: Drop, without processing Type-10 and Type-11 OSPF LSA

PR **146508** Build: 6.4.3.536.R01

Summary: alcateldebug.cfg has no effect in 6.4.2 for ignoring vrid errors

Explanation: In order to ignore a specific VRID, execute the vrrplgnoreVrid (VRID) in dshell and apply

the debug set <> <> displayed.

NOTE: Using this command on OS97/98E (VRF Implemented Platform) will ignore VRID

in each and every VRF configured

PR **149598** Build: 6.4.3.600.R01

Summary: Unable to remove mac-address from mac-address table on a port-security enabled port

Explanation: Fixed lps mac deletion issue seen when "no mac-address-table <mac> <slot/port>

<vlan>" is issued

PR **148542** Build: 6.4.3.604.R01

Summary: OSPF/BFD over MPLS convergence issue

Explanation: To trigger OSPF SPF when BFD NBR_DOWN Event is received by OSPF. This is

controlled by variable gOspfBfdSubSecond, which is disabled by default SubSecond convergence variables to be used in AlcatelDebug.cfg

debug set gOspfSubSecondd 1

This will enable immediate trigger of SPF when Interface Down event is received by

OSPF

debug set gOspfBfdSubSecond 1

This will enable immediate trigger of SPF when NBR DOWN detection is informed by BFD. This will work only when BFD is enabled and NBR DOWN detection is done by

BFD

PR **149166** Build: 6.4.3.600.R01

Summary: ERP interop issue with IPD 7750

PR 148972 Build: 6.4.3.666.R01

Summary: Delay on mac mouvement in a routed environement

PR 148191 Build: 6.4.3.675.R01 Summary: OS 9700E changed year to 2016

Explanation: Moving to two digit BCD (00-99) format of setting year in the system clock of OS9 and

OS9E products. Restrictions are in place to allow setting of year only between 2000-

2099. Upgrading to this build would require the date to be reset after first reload.

PR 151944 Build: 6.4.3.803.R01

Summary: running and saved config status shown as identical for any Qos related configurations

QOS mip handled properly Explanation:

PR 154485 Build: 6.4.3.675.R01

Summary: Arp Delay in the event of link failure on ERP ring

When ARP reply is dropped due to Layer2 Layer3 consistency check, do a re-arp and Explanation:

not wait until Re-xmit Time

PR Build: 6.4.3.685.R01 154325

Relay-agent(switch) forwards only the first offer pkt with snooping enable Summary:

Explanation: Accept all DHCP-OFFERs when multiple offers are received, when dhcp-snooping is

enabled

PR 154363 Build: 6.4.3.673.R01

Summary: AOS 6580 primary unit crashed - Swlog FD Corruption

PR Build: 6.4.3.731.R01 155932

Summary: ACLMAN:+++ memPartAlloc: block too big - 67108864 in partition 0x4f3454.

PR 155301 Build: 6.4.3.720.R01

Need to know when we get "alert Mac not available..." messages. Summary:

Explanation: Reduced the severity level of the alert message "MAC not available HIC db return"

message keep printing these message in the console

PR 155064 Build: 6.4.3.725.R01

Summary: ethoam loopback ping getting leaked out on UP MEP port

PR 159302 Build: 6.4.3.851.R01

Summary: OS6400 crash when creating banner from CLI

Explanation: Memory allocated for the SLOP value (which is used for indentation purpose) needs to

be memset with NUL.



PR **175424** Build: 6.4.3.909.R01

Summary: OS9700 crashed with taSLNEvent task in locked state.

Explanation: Third party fix to speed up flush API

PR **172374** Build: 6.4.3.893.R01

Summary: Issue with QoS command "show policy classify I3" on OS6850.

Explanation: Added an option to view the pending policies in the show policy classify CLI command

PR **174567** Build: 6.4.3.904.R01

Summary: VU-091113-1: Vulnerability in the SSL/TLS protocol.

Explanation: Disabling Renegotiation in open SSL

PR **174571** Build: 6.4.3.905.R01

Summary: VU-080718-1: Vulnerability in various IPv6 protocol implementations.

Explanation: Vulnerability Fix based on the openbsd patch

PR **188341** Build: 6.4.3.929.R01

Summary: Mac address not seen on show mac-address table, however its mac entery is present in

software and ha

Explanation: Supplicant users on a LPS enabled onex Ports will be authnticated properly .

PR **94488** Build: 6.4.3.468.R01

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 **133599** Build: 6.4.3.358.R01

Summary: OV 3.4.1 sends warm startup traps after ssh authentication fails.

Explanation: Avoiding replayed traps with different seqid.

PR **140961** Build: 6.4.3.583.R01

Summary: ip-source-filter getting disabled while changing the vlan port.

Explanation: Get IP source filtering status of the port if the snooping is VLAN level and apply the

configuration to the new VLAN if snooping is enabled on the new VLAN also.

PR 141229 Build: 6.4.3.535.R01 Summary: EtherOAM CCM frames send with pbit 0

Explanation: Donot modify the priority bit in the packets generated from the switch, when egressing

on a NNI port

PR **141718** Build: 6.4.3.367.R01 Summary: Log issue for "IP Multicast" rules

Explanation: Applied gos rule logging to Multicast rules taking effect from software

PR **142347** Build: 6.4.3.437.R01

Summary: dynamic vlan propogation stops randomly when using GVRP

Explanation: Changed default gyrp join and leave timer to 200 and 600 ms respectively.

PR **145107** Build: 6.4.3.530.R01

Summary: MAC/PHY information is not showing in the "show lldp remote system" output so some

port randomly.

Explanation: "MAU type updation issue for some GBIC ports is resolved

"

PR **143782** Build: 6.4.3.554.R01 Summary: 6850 - Crashed need analysis

Explanation: Functional addition for NI Supervision to confirm task suspension

PR **147539** Build: 6.4.3.601.R01

Summary: show interface slot/port capability output displays incorrect output Explanation: Corrected the cli output of show interface slot/port capability

PR **146866** Build: 6.4.3.549.R01

Summary: very slow QoS memory leak causes switch to reboot

Explanation: Fixed QoS memory leak

PR **148504** Build: 6.4.3.641.R01

Summary: RX error frames

PR **154067** Build: 6.4.3.756.R01

Summary: Powersupply error comming for power supply which is not present

Explanation: Check for the presence bit whenever the operational bit of the power supply is changed.

PR **152580** Build: 6.4.3.646.R01

Summary: " ip ospf area 0.0.0.1 default-metric 0 type type2" command not working

Explanation: OSPF default type 7 Isa to generate type 1/type 2 based on the configuration done

PR **155136** Build: 6.4.3.701.R01

Summary: burst of traffic from 10 1 gigabit ports to 1 10 gigabit ports not going through

PR 160578 Build: 6.4.3.813.R01

OS6855-14 - LANPOWER error 181 Invalid Slot Summary:

Explanation: The severity level of error messages when validating a lanpower slot which is not

present is reduced to Debug1

PR Build: 6.4.3.828.R01 160522

OS9702E:entConfigChange,Entity configuration change traps for power supply down. Summary:

Bypass the presence Bit check for 9700 as present bit and operational bit behaves the Explanation:

same.

PR 166896 Build: 6.4.3.865.R01

A script is not executed if SW images are downloaded in Automatic Remote Config Summary:

Download...

Explanation: Script is executed even after downloading new SW images and boot.cfg using

Automatic Remote Config Download

PR 131242 Build: 6.4.3.629.R01

Summary: OS9700 crash due to tlprm and tPim tasks: Follow up of PR#130246. More debugs added into PMD in case of memory corruption issues Explanation:

PR 174371 Build: 6.4.3.904.R01

Summary: VU-101208-2: Vulnerabilities in OpenSSL

Explanation: Work around for using older Netscape browser and servers is not available now

PR 110473 Build: 6.4.3.601.R01

Many "LANPOWER error lpSocketSend: zcBufCreate Failed!" followed by a crash with Summary:

dumps

Explanation: Found 256 byte memory leak in health monitor task

PR 140766 Build: 6.4.3.409.R01

OS6850 console lock-up Summary:

Explanation: Prevent SSH client's console/telnet window due to inactivity from server side

PR 142686 Build: 6.4.3.530.R01 Summary: Improper telnet rejection message Explanation: TCP flags to be checked correctly

PR 142263 Build: 6.4.3.401.R01

Summary: Huge number of Error and Lost frames on 6850P48L ports

Explanation: Fix for huge error frame and lost frame counters PR **141702** Build: 6.4.3.504.R01

Summary: OS6400 - After rebooting primary unit, the stack is unrechable after a couple of min Explanation: Prevented the configuration of Loopback0 address IP as the same as Physical Interface

IΡ

PR **141752** Build: 6.4.3.575.R01

Summary: "ingress-bandwidth" in "sap-profile" not accurate for TCP/IP

Explanation: Introduce a CLI option to configure depth for the ingress-bandwidth of a sap profile

PR **145523** Build: 6.4.3.531.R01

Summary: Dump analysis following an upgrade to 6.4.2.933

PR **144080** Build: 6.4.3.528.R01

Summary: ACL to block illegal dhcp server is not working when dhcp-snooping enabled

Explanation: Dropping illegal dhcp packets in software

PR **143742** Build: 6.4.3.402.R01

Summary: Duplicate entries created for vlan stacking configurations when loading boot.cfg.

Explanation: Fix to avoid duplicate entries in configuration snaphot for vlan stacking

PR **152363** Build: 6.4.3.659.R01

Summary: 6850 primary crashed with CSM == Excep in task: SsApp PC : 0x3904cc

Explanation: Preventing ssApp crash due to corrupted image list

PR **153014** Build: 6.4.3.698.R01

Summary: Same ip address as loopback ip and ip interface

Explanation: Ability to configure Loopback0 address as same as one of the configured physical ip

interface is introduced.

PR **167148** Build: 6.4.3.874.R01

Summary: AOS Switch does not responds to MS Windows 7 ARP with APIPA source IP. Explanation: Policy Switch Network group can be used from LDAP for QOS configuration

PR **142878** Build: 6.4.3.589.R01

Summary: Tacacs server not working after upgarde.

Explanation: Added systrace messages for enhanced debugging of tacacs server.

PR **133834** Build: 6.4.3.436.R01

Summary: port seen in STP blocking state in HW but in forwarding in Software

Explanation: Update the SpanningTreeGroup(STG) properly for the vlans in an MSTI when the MSTI

is removed.

PR 139534 Build: 6.4.3.630.R01

OIDs - dot1dTpFdbPort & dot1qTpFdbPort shows index number instead of port number Summary:

for OS6602

Explanation: Display port number instead of index value for Port Mib objects

PR 143532 Build: 6.4.3.431.R01

OS98 crashed with dump error "error ETHOAM CMM: Timer closed skt for ETHOAM NI Summary:

on ni 4 @ 1263797"

Validate UDP length field of a UDP packet before treating it as a BFD packet. Explanation:

PR 142989 Build: 6.4.3.398.R01

Summary: 6400-supplicant is not moved to a correct Vlan after un-sucessful authentication

Explanation: Handle supplicant failure authentication appropriately.

PR 143651 Build: 6.4.3.530.R01

Showing ERROR Invalid parameter 802. Valid range '1-1'" with the command ! 802.1x Summary:

:&! 802.1q:

Explanation: Fix to display the appropriate cli command from the history buffer

PR 143471 Build: 6.4.3.363.R01

Summary: Qos user port causes complete packet drop on certain ports

PR 142204 Build: 6.4.3.362.R01

Summary: Multicast Storm on stack cable reconnection in a ERP environement Explanation: Fix done to avoid loop during stacking of two standalone units.

PR 141922 Build: 6.4.3.540.R01

Summary: Loopback0 interface not used as source address when it is configured

Explanation: For backward compatibility, code changes have been for radius packets to use

Loopback0 IP address, if one configured, as the Source IP address when Auth port is

1645 and Account Port is 1646.

PR Build: 6.4.3.640.R01 142306

Summary: UDLD default setting to shutdown the port in normal mode

Not shutting down a port due to surge of ECHO message in normal UDLD mode. Explanation:

PR 141541 Build: 6.4.3.430.R01

Summary: Certain TCP frames not considered for 802.1x authentication and source learning. Explanation: If VRRP is not configured in the switch, allow VRRP packets on 802.1x ports for

classifying as non-supplicants. After authentication, the VRRP packets will be dropped.



PR **145247** Build: 6.4.3.533.R01

Summary: OS9800 Crashed - tCS_PRB (c8b8710) @ 40 SUSPEND lckd=0 Explanation: Validate the address range check while accessing the i2c registers

PR **143810** Build: 6.4.3.539.R01

Summary: onex' task takes cpu to 100% even when nothing is connected on OS6400 switch

Explanation: Prevent loop in onex task

PR **144092** Build: 6.4.3.436.R01

Summary: PoE negotiated class in CLI (lpGetPortPowerClass doesn't show correct class)

Explanation: Fix for POE power calculation when checking PoE class

PR **144125** Build: 6.4.3.427.R01

Summary: TACACS reads the caller id IP address as 127.2.65.1

Explanation: Fix done to store the correct IpAddress for rem_addr for tacacs.

PR **144477** Build: 6.4.3.468.R01

Summary: Delay in Flash Synchro with log "NO HEART BEAT FOR 4 Time"

Explanation: Fixed the Delay in Flash Synchro with log "NO HEART BEAT FOR 4 Time" issue

PR **147296** Build: 6.4.3.563.R01

Summary: 2 of the 6400 switch running 6.4.2.807R01 rebooted with crash.pmd file. Need analysis

Explanation: Code changes to handle realloc failure in ssh and added debugs to pmd for

investigating memory corruption

PR **147128** Build: 6.4.3.554.R01

Summary: Tri color metering error and display questions

PR **151831** Build: 6.4.3.666.R01

Summary: 9800: SSH connection refused : no more SSH session available

PR **150761** Build: 6.4.3.636.R01

Summary: OSPF Type2 LSA not properly flushed

Explanation: OSPF network Isa refreshing frequently when we have a related ospf interface which is

down already

PR **150576** Build: 6.4.3.625.R01

Summary: SCP crash - Dump analysis.

PR **154080** Build: 6.4.3.666.R01

Summary: 6850: tcs_prb task suspended multiple times



PR **156247** Build: 6.4.3.732.R01

Summary: show 10gig slot command wrongly mention that XNI-U2 is not a 10Gig card

Explanation: The command is blocked at CLI level by printing an error message as command not

supported in this platform.
"show 10gig slot <num>"
"10gig slot <num>"

PR **156663** Build: 6.4.3.780.R01

Summary: Authentication failure trap sent after snmpv3 session establishment Explanation: Authentication failure Trap not required for snmpv3 timewindow errors.

PR **156329** Build: 6.4.3.772.R01

Summary: Certification / flash syncro failure after electrical take over in a stack

Explanation: Change the Flash synchronisation process on non primary units to start after the time

and date sync

PR **159223** Build: 6.4.3.781.R01

Summary: "ALL NIs (License expired, CMM Config OUT-OF-SYNC)" Seen in "show running

directory output.

Explanation: Don't check for MPLS license while executing 'show running-directory'

PR **153468** Build: 6.4.3.678.R01

Summary: OS6250 - Reauthentication does not work properly Explanation: Enable proper reauthentication for captive portal users

PR **102616** Build: 6.4.3.525.R01

Summary: BGP How to configure a in-prefix list only to permit the default route

Explanation: BGP Prefix-list handled properly to accept/deny a particular route if configured

PR **108701** Build: 6.4.3.390.R01

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 **140954** Build: 6.4.3.675.R01

Summary: 6400 - Crash dump analysis

Explanation: Radius crash fixed by correcting transaction id match in radius packets

PR **142482** Build: 6.4.3.315.R01

Summary: Password Change Not Saved in Os6850 running 6.4.2 GA. Works Fine With 6.3.4 Code

Version.

Explanation: Allow the user to change password using "password" command from cli.



PR **145480** Build: 6.4.3.567.R01

Summary: Fields wrongly filled in for TACACS+ frames through console connection Explanation: Send remote address as "async" in case the access type is console

PR **144835** Build: 6.4.3.533.R01

Summary: Show configuration snapshoot command does not display running config

Explanation: MIP overflow issue handled properly to avoid the memPartAlloc error issues after show

configuration snapshot.

PR **145703** Build: 6.4.3.527.R01

Summary: show interfaces hybrid fiber counters errors displays copper port statistics

Explanation: Corrected the mipObject access for the hybrid counters errors CLI for fiber and copper

ports

PR **143831** Build: 6.4.3.392.R01

Summary: 6400 crashes with PMD while assigning ip static route in GUI

Explanation: Enabling BFD status for OS6400 is not allowed, as BFD is not supported in OS6400

PR **144511** Build: 6.4.3.487.R01

Summary: SLB TCP probes not working on some particular ports.

Explanation: Tcp socket connect using loopback0 address for ldap packets

PR **147540** Build: 6.4.3.675.R01

Summary: Stack of two 6850 Rebooted with "workQPanic" Explanation: Preventing double free of IPC buffer by AAA task

PR **149797** Build: 6.4.3.601.R01

Summary: NI stop L2 and L3 traffic after running for a while

Explanation: Release buffers back to queue dispatcher, when we drop the dhcp packet due to gos

configuration.

PR **150291** Build: 6.4.3.630.R01

Summary: OS6850 has an extra space before the hostname when writing log messages to the

syslog server.

Explanation: Corrected the display behaviour with proper space indentation

PR **153174** Build: 6.4.3.720.R01

Summary: 6250 sends a traps "Reason:mcastmismatch!! Detected" to HPOV

Explanation: Generating multicast mismatch trap properly



PR 153216 Build: 6.4.3.672.R01

OS6250 - After reboot/crash 6250 does not send "EAP Request Identity" when "EAPOL Summary:

start" is received

Explanation: EAPOL packets should be considered for reauthentication during CP-in progress case if

reauthentication is enabled.

PR 156059 Build: 6.4.3.728.R01

Summary: Stack of 7: "show spanningtree ports configured" command is not showing all 7ni ports.

Handle the MIP overflow for STP show CLI Explanation:

PR 155254 Build: 6.4.3.732.R01

Summarv: RADIUS Accounting - multiple messages with Acct-Status-Type - Accounting-On

Explanation: No processing for Radius Accounting On response as no action required for this

message

PR 157541 Build: 6.4.3.766.R01

Summary: inserted new CMM B and swicth crashed on CMM A

Explanation: Handle the improper insertion of CMM-B into the chassis graciously.

PR 160662 Build: 6.4.3.866.R01

Summary: BFD with VRRP does not work

Explanation: Link-Agg events processed in BFD is synced with BFD session state in NI

PR 159452 Build: 6.4.3.789.R01

Summary: OS6855 :: Temperature sensor error messages

Explanation: Recover the I2c Bus from lockup when a bad SFP is inserted.

PR 162788 Build: 6.4.3.855.R01

Summary: 6850 crashed and caused stack split

Explanation: Block further I2C access on 6850 after an I2CLock up, preventing CPU spike

PR 161203 Build: 6.4.3.847.R01

Summary: Multicast traffic stopped for some streams after takeover Explanation: Multicast forwarding problem on takeover resolved

PR 140883 Build: 6.4.3.536.R01

Summary: Option82 field is not preserved if we have dhcp-snooping and ip-filtering enabled.

Explanation: DHCP Option 82 insertion based on agent information policy configured. PR **144279** Build: 6.4.3.521.R01

Summary: High CPU seen after reboot of any remote switch connected to the core with LINKAGG

active.

Explanation: qDriver - corrected port bitmap calculation

PR **150103** Build: 6.4.3.675.R01

Summary: OS 9000 switch crashed after debug ipc active socket command.

Explanation: debug ipc active sockets slot <slot-num> command is not handled in 6x products

PR Build: 6.4.3.904.R01
Summary: VU-110617-3: Vulnerability in OpenSSL
Explanation: Add protection against ECDSA timing attacks

PR **181508** Build: 6.4.3.925.R01

Summary: ntp server configuration does not store IP Address of NTP server, instead it resolves

NTP server to

Explanation: Controlling the snapshot of NTP configuration to store the IP address

PR **138797** Build: 6.4.3.362.R01

Summary: First ARP response is ignored in OS6850 stack and first packet lost when ping soure is

on Primary

Explanation: IPNI to handle messages from NI before handling ARP replies.

PR **140784** Build: 6.4.3.521.R01

Summary: CSM == APPLICATION_FATAL STR for: Elpc / TiPrm->suspended - switch crashed -

analysis needed

Explanation: Code changes to prevent PIM message overflow when large route list are to be sent

PR **143556** Build: 6.4.3.544.R01

Summary: communication loss on tagged vlan 1 after reboot.

Explanation: Fix to avoid communication loss when port is tagged to vlan 1

PR **142093** Build: 6.4.3.409.R01 Summary: Packet fragmentation issue in 6.4.2

Explanation: Fragmentation of IP packets failing because of different Max mtu configured for ingress

and egress ports is resolved.

PR **141570** Build: 6.4.3.533.R01

Summary: Program exception in windTickAnnounce API

Explanation: Have introduced a defense check for the linkAgg task crash

PR 145479 Build: 6.4.3.567.R01

Summary: "aaa authentication xxx SERVER local" not working properly Explanation: Server authenticaion is used for console access, when configured.

PR 145557 Build: 6.4.3.562.R01

Summary: CMM-Takeover with task tCS PRB and sshd ct1 suspension

Explanation: Enhancing PMD to include device header information

PR 148070 Build: 6.4.3.590.R01

Summary: Need flag to disable gds check for own router packets

Allowing Qos port-disable for packets with SA MAC as Router Mac under Controlled Explanation:

environment. To enable this, need to set "acceptSrcMacPkt" flag in AlcatelDebug.cfg

PR 148109 Build: 6.4.3.675.R01

Summary: SNMP engine not rebooted even after the engine time crossed the limit. Explanation: Reset SNMP engine when the time limit exceeds for snmp engine time.

PR Build: 6.4.3.675.R01 148601 Summary: Rack server switch 6850 crash

Explanation: Resetting proper select delete hook flags for select system call failures to prevent

system hanging on SSH attack scripts

PR 148724 Build: 6.4.3.641.R01

Summary: ipedrArpUnreachAge does not exist (needed for AlcatelDebug.cfg) Explanation: Added dshell flag ipedrArpUnreachAge to control unreachable ARP age.

PR 150463 Build: 6.4.3.675.R01

AOS slot 2 rebooted and issuing flash synchro Summary:

PR Build: 6.4.3.675.R01 153061

OS6250 - PMD analysis requested, few stack units crashed and 100% CPU reported on Summary:

primary

Re-authentication is shortened and a check is made before local re-authentication. Explanation:

PR 152764 Build: 6.4.3.646.R01

Summary: Type 5 LSA flushed when "ip ospf area 0.0.0.1 summary disable" given Explanation: Code fix not to flush type 5 Isas when ospf nssa area summary is disabled

PR 159788 Build: 6.4.3.788.R01

Summary: ERP RPL block un-protected VLAN



PR **173598** Build: 6.4.3.895.R01

Summary: Issue with a special character and ssh session

Explanation: While parse the tty modes to the terminal fd, set all of the option bits and disable the

special ROM monitor trap character CTRL+X and CTRL+C

PR **185549** Build: 6.4.3.921.R01

Summary: LPS command "port-security <slot/port> no mac all" does not work correctly on

6.4.3.907. Ref-PR# 184

Known Issues:

PR **154177**

Summary: show mac address table takes several minutes to display the correct count/entries

Explanation: Fix to sync Mac-address table in CMM immediately after "no mac-address table"

command issued

PR **145589**

Summary: Auto-neg configuration needs to be replicated in both fiber and copper mediums for

combo ports.

Explanation: On an OS6850 auto-negotiation configuration needs to be replicated on both fiber and

copper mediums for combo ports.

Workaround: Use the following commands to duplicate the auto-negotiation configuration:

-> interfaces <slot/port> hybrid fiber autoneg {enable | disable}

-> interfaces <slot/port> hybrid copper autoneg {enable | disable}

PR **156967**

Summary: VRF specific IP address information, not displayed in AOS

Workaround: This can be done using an SNMPv3 user in the following manner:

Read the contents of ala VirtualRouterNameTable. The value in each row for $\ensuremath{\mathsf{R}}$

alaVirtualRouterNameIndex specifies the VRFId and corresponding

alaVirtualRouterName provides you the SNMPv3ContextName for the VRF. If SNMPv3 requests are made for each contextId in this table then you will get all enotries for the

table across all VRF Id's.

PR **93114**

Summary: Oversized L2 Multicast packets are counted as InUcastPkts

Explanation: Oversized L2 multicast packets are counted as InUcastPkts with the 'show interface

counters' command.

Workaround: There is no known workaround at this time.



PR **140359**

Summary: OS6850 - IP check sum fails when DSCP value is changed in IGMP

Explanation: Fix for incorrect checksum calculation in IGMP Report packet

PR **147444**

Summary: OS6800 - Unresolved ARP never age out

Explanation: CMM to remove unresolved ARP entries once the entries are timed out in NI.

PR **151490**

Summary: ssh error: IPC MIP Exit zcRecvfrom failed, ret=0, WRPcli msg done:1483

PR 120915

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.

Workaround: Please use Java version 1.6.0_03

PR **142038**

Summary: IP multicast hardware/software table out-of-sync on 6850 Stacks

Explanation: 1) IPMNI to send port info in the source ageout message to IPMS-CMM.

2) IPMS-CMM removes the source only if source agesout in the slot on which it was

learnt

PR **152479**

Summary: OS 9700 DHCP-SERVER not configured no file found, Errors alarm cannot open

QDHCP configuration fil

Explanation: On bootup, the DHCP Server task will look for the dhcpd.conf file in the /flash/switch

directory. If the file is not available, it will try to load the config from the dhcpd.conf.last good file. If both these files are not available, the above error messages are thrown.

Workaround: create the dhcpd.conf file using vi editor or obtain from customer support website.

PR **144434**

Summary: PMD file generated when ERP configured along with VRRP

Explanation: Crash in vrrp task when configured erp on that vlan is resolved using a defense fix.

PR **149696**

Summary: show spantree counters are not reset when stp is disabled

PR **160259**

Summary: Finisar SFP-10G-ER is not working on OS9-XNI-U12E - require Level 2 Power up

sequence

New Software Features:

1. Control Over Access Guardian

'Control Over Access Guardian' is a port level feature, acting as an additional filter for Access Guardian. This feature is implemented to control the authentication capabilities of clients who wish to log in to a switch through 802.1x enabled ports. With the feature in place, the visibility of a client can be restricted to being a supplicant/non-supplicant as per the administered configurations.

A Supplicant Client will be forced to undergo MAC authentication initially, even if the packet sent be an EAPOL packet. Subsequently after MAC authentication, the client can undergo Supplicant authentication if the rule has been stated so.

Release & Build:

The feature will be available in 6.4.3.R01 from build 560 onwards.

Platforms Supported:

This feature will be supported in OS6400, OS6850, OS6855 and OS9x00.

CLI Command Usage Guidelines:

The following two commands have been included for this feature:

(i) 802.1x <slot/port> supplicant bypass enable/disable

This command enables/disables supplicant bypass so as to force a client to undergo MAC authentication before proceeding for Supplicant authentication.

(ii) 802.1x <slot/port> non-supplicant allow-eap pass/fail/noauth/none

This command configures the type of client to be allowed for supplicant authentication. Eg -> If configured as 'pass', only the clients which pass their mac authentication will be processed for supplicant authentication.

Here, 'none' refers to disabling supplicant authentication on the port completely. Any client (EAP/Non-EAP) can only undergo MAC authentication with this configuration.

Limitations & Restrictions:

(i) Force-authorization/ Unauthorisation, Supp-polling retry 0 cannot be configured on a supplicant bypass enabled 802.1x port.



(ii) COAG cannot be enabled on a 802.1x port where port-control is force authorized/unauthorized, and/or where supp-polling retry value is 0.

Basic Scenarios:

Definitions of Table Headers:

1. MAC Credentials:

- a. Valid MAC profile configured in RADIUS Server, for authentication success.
- b. Invalid MAC profile not configured in RADIUS Server, for authentication failure.
- c. No mac authentication configured No MAC authentication configured in the switch, thus disabling any client's MAC to be authenticated by the RADIUS Server.
- **2. MAC Authentication:** Yes/No refers to only the process of MAC authentication taking place, and not the result of MAC Authentication.
- **3. 802.1x Authentication:** Yes/No refers to only the process of 802.1x authentication taking place, and not the result of 802.1x Authentication.

Client	MAC Credentials	Allow-EAP configured	MAC Authentication	802.1x Authentication
Ciletit	WIAC Credentials	T T		
		Pass	Yes	Yes
		Fail	Yes	No
		Noauth	No	No
Supplicant	Valid	None	Yes	No
		Pass	Yes	No
		Fail	Yes	No
		Noauth	No	No
Non-Supplicant	Valid	None	Yes	No
		Pass	Yes	No
		Fail	Yes	Yes
		Noauth	No	No
Supplicant	Invalid	None	Yes	No
		Pass	Yes	No
		Fail	Yes	No
		Noauth	No	No
Non-Supplicant	Invalid	None	Yes	No



		Pass	No	No
		Fail	No	No
	No mac authentication	Noauth	No	Yes
Supplicant	configured	None	No	No
		Pass	No	No
		Fail	No	No
	No mac authentication	Noauth	No	No
Non-Supplicant	configured	None	No	No

2. 802.1x Non-Supplicant Accounting Behavior

This feature allows the Omni Switch to enable accounting for Onex non-supplicant users. Accounting is the action of recording what the user is attempting to do or what the user has done. The actions are login / logout / auth failure/ and updation of client ip-address. This feature will impact only the AAA, CLI and Web View modules. Counters are maintained to show the respective events for non-supplicant.

Release & Build:

This feature is supported in 6.4.3.R01 from build <xxx>

Platforms Supported:

OS6850, OS6400, OS6855, OS9xxx

CLI Commands:

show aaa accounting mac show aaa accounting mac statistics

Software Limitation:

- 1. Any means of mac-flush will be considered as a logout, since there is no explicit logout for a non-supplicant.
- 2. The statistics collected from ESM driver is for per port and not per MAC
- 3. The statistics can be reset only when the images are loaded or when switch came up.

Hardware Limitation:

N/A

3. LLDP Security mechanism for rogue device restriction

LLDP security mechanism allows the Omni Switch to secure the access to the network by detecting rogue devices by having only one trusted LLDP agent on a port. User shall be provided an option to configure the chassis id sub type with which will be used in validating the chassis id type in the incoming LLDP PDU. When more than one LLDP remote agent is learned on a port or if no LLDP



PDU is received within 3 times the LLDP transmit interval (30 seconds) after link up on which there is no trusted remote agent or if same chassis id and port id of the remote agent already exists in the trusted remote agent database but on different port, in these cases the port will be moved to violation state. User can configure the Violation action as trap or shutdown the port or generate a trap and shutdown the port

Release & Build:

This feature is supported in 6.4.3.R01 from build 579

Platforms Supported:

OS6850, OS6400, OS6855, OS9xxx

CLI Commands:

Ildp {chassis | <slot> | <slot/port>} trust-agent {enable |disable} [chassis-id-type {chassis-component | Interface-alias | Port-Component |MAC-Address | Network-Address | Interface-name |Locally-assigned|any }]

| Ildp {chassis | <slot> | <slot/port>} trust-agent violation-action {trap | shutdown} interfaces <slot>/<port> clear-violation-all

show IIdp {chassis | <num> | <slot/port>} config

show lldp trusted remote-agent

show lldp <slot/port> trusted remote-agent

show lldp trust agent

show configuration snapshot aip

Software Limitation

- 1. For the current release any learned/validated LLDP Remote agent will be declared as a valid user and user will not have a provision for configuring a trusted agent statically.
- 2. User will not have any option to convert the trusted database into a permanent trusted database in this release.

Hardware Limitation

None

4. Stack MIB enhancement - Phase II



Including ifAlias and ifSpeed for stack ports like the normal physical ports. Hence we will be able to configure the ifAlias for stack ports via CLI, SNMP and Web view. And the same can be retrieved also. ifSpeed for stack ports is assigned as the default value for 10 G.

Release & Build:

This feature is supported in 6.4.3.R01 from build 601

Platforms Supported:

Stackable products only - OS6850, OS6855-U24X, OS6400

CLI Commands:

show interface port interface <slot>/<port#> alias "string" interface <slot>/<A/B> alias "string"

Software Limitation:

A and B notation for stack ports is applicable only in configuring alias via CLI. ifSpeed value for 10G cannot be holded in unsigned int 32 as its range is exceeded. So as per the existing feature, the max value of uint32 will be returned.

Hardware Limitation:

Applicable only for stack ports and if they are in stacked mode

5. IP Multicast Replication

Using IP Multicast Replication, the IPMC_VLAN table utilization can be optimized. The idea is to share an IPMC_ENTRY in scenarios where two ports are forwarding to the same set of vlans. There by increasing the number of flows supported across different platforms when forwarding take places in the same set of vlans. With this approach, it is possible to have more flows with the same set of tables, because we could have more room in IPMC_VLAN table which could be used by other flows. We could have maximum of 1021 flows in all 24 ports, in all vlans.

Release & Build:

This feature is supported in 6.4.3.R01 from build 594

Platforms Supported:

OS6850, OS6855, OS6400, OS9xxx

CLI Commands:

This feature is enabled by default and CLI configuration not applicable.

Software Limitation:

N/A

Hardware Limitation:

N/A



6. Vlan Based Ingress Source Filtering

In AOS, Ingress Source Filtering (ISF) is currently supported only on per port basis/per linkagg and it is disabled by default. When ISF is enabled at port level switch shall accept packets only if the packet matches IP/MAC/PORT combination which is obtained from the DHCP snooping binding table entry. All other non-matching packet shall be dropped in the ingress port irrespective of the vlan. The requirement is to provide the ability for the user to configure ISF at Vlan level. When ISF enabled at vlan level AOS, switch shall try to match the VLAN of the packet received along with matching IP/MAC/Port. Thus when ISF is enabled at vlan level, the packets from all the ports on that vlan are subjected to ISF. Note that ISF shall be enabled at vlan level only when DHCP snooping is enabled either on switch level or VLAN level, When DHCP snooping is enabled in VLAN, ISF shall be enabled only on the VLAN in which DHCP snooping is enabled.

Release & Build:

This feature is supported in 6.4.3.R01 from build 594

Platforms Supported:

OS6850, OS6855, OS6400, OS9xxx

CLI Commands:

ip helper dhcp-snooping ip-source-filter port <slot/port|slot/port1-port2> {enable | disable} ip helper dhcp-snooping ip-source-filter linkagg <num> {enable | disable} ip helper dhcp-snooping ip-source-filter vlan <num> {enable | disable} show ip helper dhcp-snooping ip-source-filter port

show ip helper dhop-shooping ip-source-filter vlan

Software Limitation:

None

Hardware Limitation:

We can configure to the maximum of 128 entries per slice. Since we have only 2 slices reserved for this feature, the ISF configuration shall be supported on a maximum of only 32 vlans

7. Telnet Port

This feature will allow the AOS switch to act as a telnet client and connect to external telnet servers running on non-default TCP port (i.e. other than port 23). This feature will support telnet over both IPv4 and IPv6. This is only applicable when the switch is acting as a Telnet Client. The Telnet Server running on the AOS will still be listening on TCP port 23

Release & Build:

This feature is supported in 6.4.3.R01 from build 594 **Platforms Supported:** OS9, OS6850, OS6855, OS6400



CLI Command:

telnet6 3ffe:0501:0008:0000:0260:97ff:fe40:efab port 1122 telnet 1.1.1.1 port 1122

Software/ Hardware Limitation:

None

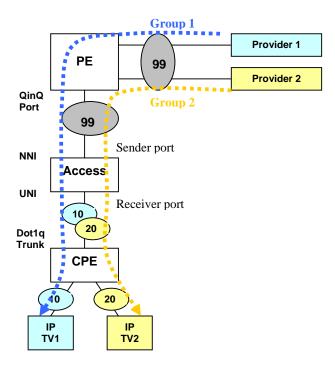
8. IPMVLAN Replication

Overview

IPMVLAN Replication feature is to allow several subscribers from different VLANs on a trunk interface to subscribe and unsubscribe to a single IPMVLAN. This feature is supported on Ethernet-Service mode and Enterprise mode. QinQ service is provided using E-Service mode. Pure dot1q service is provided by Enterprise mode.

E-Service

The typical setup which the customer is going to have is as below.



Service Details



- Internet service is provided using QinQ.
- Multicast service is provided using dot1q.

Setup Details

- 2 providers share the same IPMVLAN 99.
- The PE is connected to the Access switch on QinQ port.
- The PE acts as the guerier.
- Ethernet-Service is configured in the Access switch. The Access switch is connected to the PE on NNI and connected to the CPE on UNI.
- In Access switch, CVLAN 10 and 20 configured on the UNI.
- In Access switch, Sender port and Receiver port is configured. Receiver VLANs (RVLANs) 10 and 20 are configured on the Receiver port.
- The CPE is connected to the Access switch on a gtagged trunk.
- Each provider deploy their own STB in customer premises.
- Each STB uses its own VLAN. In this case, VLAN 10 and VLAN 20.

Working

- The Access switch snoops the IGMP membership messages from the STB and maintains the membership on multicast VLAN 99 for Receiver VLANs 10 and 20.
- Multicast source traffic is forwarded from sender port to group members on the receiver port tagged with RVLANs.

Configuration in Access switch

! IPMS:

ip multicast status enable

! VLAN:

vlan 1 enable name "VLAN 1"

ethernet-service ipmvlan 99 name "VLAN 99"

ethernet-service svlan 1000 name "VLAN 1000"

! VLAN SL:

! VLAN AGG:

! VLAN STACKING:

ethernet-service svlan 1000 nni 1/1

ethernet-service service-name "customer1" svlan 1000

ethernet-service sap 10 service-name "customer1"

ethernet-service sap 10 uni 1/2

ethernet-service sap 10 cvlan 10

ethernet-service sap 10 cvlan 20

vlan ipmvlan 99 sender-port port 1/1

viant ipiniviant 99 serider-port port 1/1

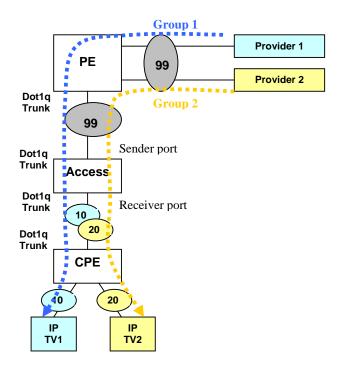
vlan ipmvlan 99 receiver-port port 1/2 receiver-vlan 10

vlan ipmvlan 99 receiver-port port 1/2 receiver-vlan 20

vlan ipmvlan 99 address 227.0.0.7

Enterprise





Service Details

- Internet service is provided using dot1q.
- Multicast service is provided using dot1q.

Setup Details

- 2 providers share the same IPMVLAN 99.
- The PE is connected to the Access switch on a qtagged trunk.
- The PE acts as the querier.
- In Access switch, VLAN 10 and 20 are created as regular tagged VLANs.
- In Access switch, Sender port and Receiver port is configured. Receiver VLANs (RVLANs) 10 and 20 are configured on the Receiver port.
- The CPE is connected to the Access switch on a qtagged trunk.
- Each provider deploy their own STB in customer premises.
- Each STB uses its own VLAN. In this case, VLAN 10 and VLAN 20.

Working



- The Access switch snoops the IGMP membership messages from the STB and maintains the membership on multicast VLAN 99 for Receiver VLANs 10 and 20.
- Multicast source traffic is forwarded from sender port to group members on the receiver port tagged with RVLANs.

Configuration in Access switch

! IPMS :

ip multicast status enable

! 802.1Q

vlan 10 802.1q 1/2 "TAG PORT 1/2 VLAN 10" vlan 20 802.1q 1/2 "TAG PORT 1/2 VLAN 20"

! VLAN:

vlan 1 enable name "VLAN 1" vlan ipmvlan 99 name "VLAN 99"

! VLAN SL:

! VLAN AGG:

! VLAN STACKING:

vlan ipmvlan 99 sender-port port 1/1

vlan ipmvlan 99 receiver-port port 1/2 receiver-vlan 10

vlan ipmvlan 99 receiver-port port 1/2 receiver-vlan 20

vlan ipmvlan 99 address 227.0.0.7

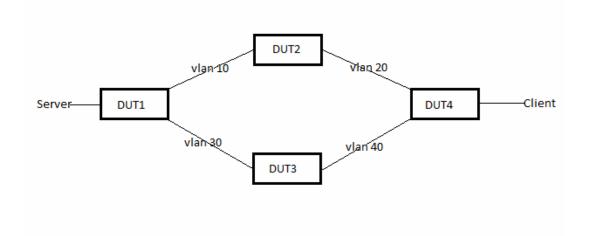
9. PIM Sub-second Convergence

Description:

This feature is to minimize the delay at the time of failure in the primary path forwarding multicast data packets by deploying BFD in Multicast Routing Protocols – in both PIM DM and PIM SM. On intimation from BFD about the primary link (neighbor) failure, sub second convergence could be achieved by a redundant path to carry forward the source traffic immediately. And also to minimize the delay in resuming the data packet flow in the alternate path by deploying the redundant path functionality.

Use Case Diagram:





Platforms Supported: OS6850, OS9800, OS9700, OS9700E, OS9800E

Guidelines

With this feature BFD can be enabled for PIM neighbors (this is similar to the existing feature available for OPSF). BFD needs to enable on the PIM interfaces and also a global control to enable BFD on PIM SM/DM is also available. This feature will reduce the time delay in reduction of PIM neighbor timeout detection

To get sub-second convergence for Multicast in PIM, both flags gOspfSubSecond and gOspfBfdSubSecond should be set to 1, apart from enabling BFD for unicast and multicast routing protocol. Currently sub-second convergence can be achieved in PIM only of the unicast protocol is OSPF and BFD is enabled on OSPF.

The two paths which is available for the Multicast data path is through

- 1) DUT1 <-> DUT2 <-> DUT4
- 2) DUT2 <-> DUT3 <-> DUT4

In order to achieve sub-second convergence for failover between path 1 and path2 (or vice versa) in the use case diagram, BFD should be enabled on the OSPF and PIM interfaces on vlan10, vlan20, vlan30 & vlan40.

Further improvement in convergence can be achieved by redundant path functionality, which can be used only in PIM-DM. This is controlled by a CLI where it is disabled by default. Here the data packets are forwarded across on the various redundant paths available in the network.

CLI commands:

1. ip pim interface <intf> bfd-std {enable | disable }



- 2. ip pim sparse bfd-std status {enable | disable}
- 3. ip pim dense bfd-std status {enable | disable}
- 4. ip pim dense redundant-path status {enable | disable}
- 5. show ip pim dense
- 6. show ip pim sparse
- 7. show ip pim interface

intf - interface on which PIM is enabled.

Performance and Limitations:

- With default timer values of BFD in simple networks resembling the use case diagram results in convergence time between 300ms to 800ms depending upon type of failure (plugging out of physical interface, a port goes down in across NI Linkagg etc,.)
- > Redundant-path feature will result in additional bandwidth usage as the data streams are also forwarded on back up path, where in normal cases is not done so.
- The performance may vary depending upon the number of BFD session established on a DUT.
- The performance may vary depending upon the number of alternate path available.

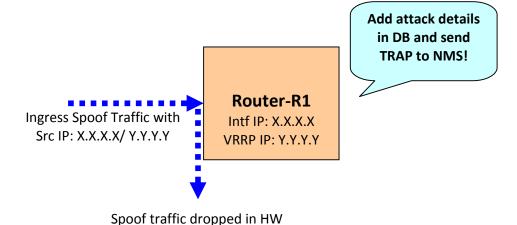
10. IP and ARP Spoof Protection

IP and ARP spoof detection feature will allow the network administrator to block and know the originator of spoof traffic coming from front panel ports with Source IP as IP-addresses configured internal to the router. Once IP spoof-detection is enabled, all data and control packets ingress on the switch with Vlan and internal IP-address of that Vlan as source information will be dropped. The details of dropped spoof packets will be maintained in the attack database. For any new attack event (source ip, source mac, source vlan) combination, a TRAP will be generated to NMS station if configured. The router will send gratuitous ARP request for each and every attack attempt. CLI options provided to enable IP and ARP Spoof detection at the Global level, per IP interface level and per VRRP IP address level

SI. No.	Global Status	Per Interface IP Anti-Spoof Status	Per IP Interface Arp-Only Spoof Status	Per Virtual Router IP Anti-Spoof Status	Per Virtual Router IP Arp-Only Spoof Status
1.	Anti-Spoof Enabled	Enabled	Enabled	Enabled	Enabled
2	Anti-Spoof Disabled	Disabled	Disabled	Disabled	Disabled
3	Arp-Only Spoof Enabled	Disabled	Enabled	Disabled	Enabled
4.	Arp-only Spoof Disabled	Enabled	Enabled	Enabled	Enabled



Use Case Diagram:



Platforms Supported:

OS6850, OS6855, OS6400, OS9000, OS6855 -U24X and OS9000E.

Guidelines

This feature is enabled by default, which will have any IP traffic with Src IP similar to Router's configured IP interface or VRRP IP interface address to be dropped and details will be logged as part of the feature's CLI output.

CLI commands:

- 1. ip dos anti-spoofing {enable | disable}
- 2. ip dos anti-spoofing arp-only {enable | disable}
- 3. ip dos anti-spoofing address <ip-address> {enable | disable}
- 4. ip dos anti-spoofing address <ip-address> arp-only {enable | disable}
- 5. ip dos anti-spoofing clear stats
- 6. ip dos anti-spoofing address <ip-address> clear stats
- 7. show ip dos anti-spoofing
- 8. show ip dos anti-spoofing <ip-address>

-> show ip dos anti-spoofing Global Status:





IP Spoof Status - Enabled ARP-only spoof status - Disabled									
*- VRRP IP Address									
IP Address	Anti-Spoofing	Attacks	Last Attempted Source VLAN,MAC,PORT						
	++								
10.10.10.1	IP	200	10,00:00:00:00:DB:DB,1/1						
*20.20.10.1	ARP	100	20,00:00:00:0DE:DE,1/4						
30.30.30.1	IN	300	30,00:00:00:00:DC:DC,1/3						
IP – Anti-spoofing for IP Pkts ARP - Anti-spoofing for ONLY ARP Pkts IN - Inactive									

Hardware Limitations



Total number of IPs/VRRP IPs where this feature can be enabled is aligned to one slice quantity of corresponding BCM CHIP. OS6850/OS9700/OS9800 will support 128 entries.OS6855-U24X and OS6400 will support 256 entries.OS9702E will support 512 entries

11. Routed IP Port

AOS currently supports addition of an IP interface on a particular VLAN. The device type is set to VLAN and the physical ports are attached to the particular VLAN. The current IP interface is not directly associated with the physical port and the underlying VLAN can support a host of L2 protocols and also VLAN switching.

A routed port is a physical port on which we supporting L3 functionality. To achieve this we also support an IP interface of new device type "RTR-PORT" and specify the rtr-vlan, rtr-port and the type (tagged/ untagged VLAN frames) in one go. The user shall not be able to modify any of these 3 parameters once specified, but will have to delete and recreate the IP interface to change the association. The user will however be allowed to administratively disable the IP interface. The underlying rtr-vlan will not switch in L2 as there is only one port associated with the VLAN.

Platforms supported:

OS6850, OS6855, OS6400, OS9000, OS6855 -U24X and OS9000E.

CLI commands:

The following new CLI options will be added for the IP interface command to support the IP interface with device type "RTR-PORT".

[no] ip interface <name> {vlan <num> | { rtr-port [<agg_num>| <slot/port>] rtr-vlan <num>
[type {tagged | untagged}]} }

rtr-port: The physical port associated with the IP interface (device type "RTR-PORT"). This can be the "slot/ port" to identify the port or the "agg-num" in the case of a link aggregation port. This parameter is mandatory for a RTR-PORT IP interface.

rtr-vlan: An unused vlan on the system to be associated with this IP interface. This parameter is mandatory for a RTR-PORT IP interface.

type: Tagged or untagged specifying whether to handle 802.1q frames or untagged frames on the specified port. This parameter is optional and defaults to type "untagged" if not specified.

Examples:-

ip interface IP1 rtr-port 1/2 rtr-vlan 20 type untagged ip interface IP2 rtr-port 3 rtr-vlan 40 type tagged

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The IP interface needs to be associated with the rtr-port, rtr-vlan (an unused vlan) and the type (tagged for handling 802.1q frames on the port or untagged to handle untagged frames) for setting this to be a RTR-PORT IP interface. The options vlan / rtr-port are mutually exclusive - the device type will be set to VLAN or RTR-PORT accordingly. Note that the other existing parameters like address/ mask for an IP interface remain as they are as for a VLAN IP interface.

Welcome to the Alcatel-Lucent OmniSwitch 6000 Software Version 6.4.3.749.R01 Service Release, April 15, 2011.												
Copyright(c), 1994-2010 Alcatel-Lucent. All Rights reserved.												
OmniSwitch(TM) is a trademark of Alcatel-Lucent registered in the United States Patent and Trademark Office.												
	172.25.50.41-> show ip interface Total 4 interfaces											
	Name		IF	Addre	ss	Subnet	Mask	Stat	us For	ward	Device	
Loopba	ck		127.0	0.0.1	2.	55.0.0.0)	-+	+ UP	NO.	Loopback	
MGMT			172.2	25.50.4	1 2	55.255.2	55.0		UP	YES	vlan 172	
intf1			10.10	0.10.1	2.	55.255.2	55.0		UP	YES	Rtr-Port 1/3 vlan 10	UNTAGGED
intf2			30.30	0.30.1	2.	55.255.2	55.0		UP	YES	Rtr-Port 1/1 vlan 30	TAGGED
Vlan t	ype: s	-> show td => St tr => Ro	andard	/lan, r		d for rt	r-por	t IP I				
wlen	tuna	admin	oper	st 1x1	ree flat	auth	ip	ipx	mble taq	src lrr		
						++						
1	std	on	on	on	on	off	off	NA	off	or	VLAN 1	
10	rtr	on	on	off	off	off	on	NA	off	or	Router VLAN: 10	
30	rtr	on	on	off	off	off	on	NA	off	or	Router VLAN: 30	
172	std	on	on	on	on	off	on	NA			VLAN 172	
172.25.50.41-> show vlan 30 Name : Router VLAN: 30, Administrative State: enabled,												
		State			2040							
1x1 Spanning Tree State : disabled,												
Flat Spanning Tree State : disabled, Authentication : disabled,												
100000000000000000000000000000000000000				wicu,								
IP Router Port : on, IPX Router Port : none,												
Mobile			: off,									
	Source Learning : enabled											
Router Vlan : yes												

Software limitation:



- > IP interface of device type "Rtr-port" can be configured only on unused VLAN & port.
- Once configured, IP interface can't be modified unless the interface is deleted and created as a new one.
- > Once configured, we can't use the "rtr-port" as well as "rtr-vlan" in any other configuration.
- > STP can't be enabled on the rtr-port or rtr-vlan across mode/ configuration changes.
- > 802.1x/ bridge/ ethernet-service/ port-security commands can't be used with "rtr-port" or "rtrvlan".
- All functionality that involves more than one port in a vlan L2 switching for example is not applicable for the rtr-port and rtr-vlan.
- Once the rtr-vlan is created (internally) it can't be associated to any other IP interface.
- MVRP/ GVRP commands shouldn't be used with "rtr-port"/ "rtr-vlan".

12. Captive Portal Enhancement

Introduction:

Captive Portal is enhanced with four features.

Captive portal public certificate support (CN name change)

When users log into the captive portal, most browsers will alert the end user that the certificates are not valid. This is due to the fact that the certificate does not match the current name of the captive portal website and is pre-loaded. With this feature, when http redirection takes place, the redirect url will hold the configured name instead of the default name "captive-portal".

Captive portal public certificate support (certificate password)

This allows user to configure a password through cli, this password should be same as the passphrase which was used during certificate creation. The switch will use this password to read the certificate instead of the default password "alcatel".

Captive-portal Inactivity logout timer

The captive portal retains user information for a predetermined amount of time (session-limit time). A user may disconnect/reconnect during this time without being challenged for authentication information. This feature will enable a second mode where the user information will be flushed based on inactivity. Inactivity is defined as equal to the MAC aging timer.

Captive-portal Custom Proxy Support

The captive portal IP interface (10.123.0.1) will only accept connections from port 80, 443 and 8080. This feature allows users to configure a user defined proxy port other than 80, 443 or 8080 through CLI.

Platforms Supported:

Omni Switch 6400, 6850, 6855, 9000E, 9000

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Commands usage:

802.1x captive-portal name < cp_url_name > 802.1x captive-portal no name

Syntax Definitions

cp_url_name: The name to be used for the redirect URL.

Defaults

By default, the name of the redirect URL is set to "captive-portal".

Platforms supported:

Omni Switch 6400, 6850, 6855, 9000E, 9000.

Usage Guidelines

- Use this command to change the Captive Portal redirect URL name (captiveportal) to match the Common name (cn) used by the public certificate on the switch. Matching these two names prevents a Certificate warning message caused when these names do not match.
- Use the no form of this command to remove the configured Captive Portal redirect URL name. This reverts the URL name back to the default of "captiveportal".
- This feature is not supported on HTTPS sessions

Examples

- ->802.1x captive-portal name certname
- -> 802.1x captive-portal no name

Limitations

This feature is not supported for https sessions as https-https redirection is not allowed, we cannot modify the url with the name configured through cli command.

aaa certificate-password
 no aaa certificate-password password



Syntax Definitions

password: The password required to access the certificate.

Defaults

By default, the certificate password is set to "alcatel".

Platforms supported:

Omni Switch 6400, 6850, 6855, 9000E, 9000.

Usage Guidelines

- Use the **no** form of this command to remove the configured password from the switch configuration.
- This command is used with the Captive Portal feature to allow public certificate support.
- The password should match the passphrase used when the certificate was created.

Examples

- ->aaa certificate-password certpass
- ->no aaa certificate-password

3. 802.1x s/ot/port captive-portal inactivity-logout {enable | disable}

Syntax Definitions

slot/port: The slot and port number of the 802.1x port.

enable: Enables inactivity logout. **disable:** Disables inactivity logout.

Defaults

By default, Inactivity logout is disabled.

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Platforms supported:

Omni Switch 6400, 6850, 6855, 9000E, 9000.

Usage Guidelines

 This timer is based on the MAC address aging timer. If a user is flushed from the MAC address table due to inactivity, the user MAC address is also flushed from the Captive Portal user table.

Examples

- -> 802.1x 3/1 captive-portal inactivity-logout enable
- -> 802.1x 3/1 captive-portal inactivity-logout disable

Syntax Definitions

proxy_port : The configured port for the proxy server. Valid range is between 1024 - 49151.

Defaults

N/A

Platforms supported:

Omni Switch 6400, 6850, 6855, 9000E, 9000.

Usage Guidelines

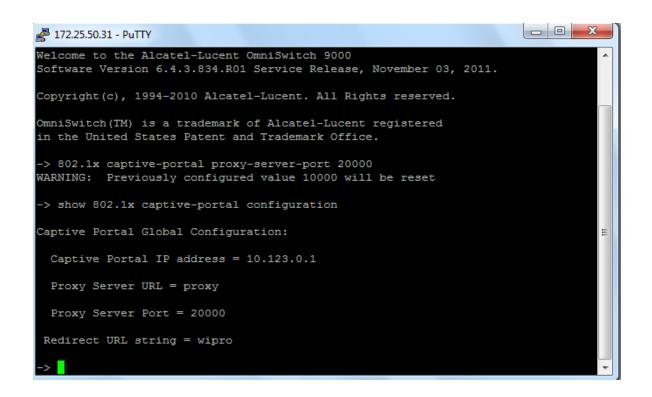
• This command is only necessary if the port required is not 80 or 8080.

Examples

- ->802.1x captive-portal proxy-server-port 20000
- -> 802.1x captive-portal no proxy-server-port

Show 802.1x captive-portal configuration





Show 802.1x slot/port



```
- - X
172.25.50.31 - PuTTY
in the United States Patent and Trademark Office.
> show 802.1x
802.1x configuration for slot 2 port 1:
                                   = both,
 direction
 operational directions
                                   = both,
                                   = auto,
 port-control
                                   = 60,
 quiet-period (seconds)
                                   = 30,
 tx-period (seconds)
 supp-timeout (seconds)
                                   = 30,
 server-timeout (seconds)
                                   = 30,
 max-req
                                   = 3600,
 re-authperiod (seconds)
 reauthentication
 Supplicant polling retry count = 2,
 Captive Portal Session Limit (hrs) = 12,
 Captive Portal Login Retry Count = 3,
 Supplicant Bypass
                                   = disable,
 Supplicant Bypass allow-eap Branch = none
 Captive Portal Inactivity Logout = Enabled
```

13. Increased number of Passive OSPF Interfaces

Introduction:

This enhancement feature helps AOS switches for creating more than 100 OSPF interface per Area. By default, we can create only 100 OSPF interfaces per area. In this enhancement, "gOspfAreaMaxIntfs" variable is set to the required number of OSPF interfaces. This variable should be declared in the config file "AlcatelDebug.cfg". An Optimization has also been introduced with this enhancement.

Before this enhancement, a passive OSPF interface was created with 4 lines of configuration in boot.cfg. This would be a tedious one when there is more number of passive OSPF interfaces created in an Area. To optimize this difficulty, route map is used. A route map with set action of route-type internal needs to be created for the local interface (routes) on which passive OSPF interface needs to be created. Using this route-map in redistribution of local into OSPF, the passive OSPF interfaces will be learned as intra routes. Thus those interfaces will act as passive OSPF interfaces. The OSPF interfaces created by the route-map command can be accessed in all the OSPF display commands. This passive OSPF interface will not be written into boot.cfg and will not be visible in snapshot.



Example: Include all IP interfaces which need to be configured as passive ospf interface, in a route map and then use the below commands to have them as passive ospf interface without configuring those IP interfaces as ospf interface.

ip route-map "R1" sequence-number 50 action permits

ip route-map "R1" sequence-number 50 set metric-type internal

ip redist local into ospf route-map R1 status enable

Platforms Supported:

OS6855, OS6855-U24X, OS6850E, OS6850, OS9000E.

Commands usage:

No new commands introduced

Limitations:

If there is local to OSPF redistribution route-map along with passive interface creation route map. Administrator has to take care that the match criteria is clearly defined

If there are multiple areas configured in the OSPF domain. The OSPF interface would be created in backbone area.

14. LPS Sticky mode

Introduction:

This feature Enhancement provides the facility to configure the learning window to learn all mac as static and to allow the mac- movement within it.

Earlier, The LPS feature limits the number of MACs that can be learned, up to a pre-determined number, plus supports a learning time window, and provides logging and notification if a rule violation occurs. This feature is enhanced to support the static learning, mac-move (within the learning window) and infinite learning window.

Platforms Supported:

Omni Switch 9600/9700

Commands usage:

port-security shutdown <num> [no-aging {enable|disable}] [convert-to-static {enable|disable}] [boot-up {enable|disable}] [learn-as-static {enable|disable}]

Syntax Definitions



Learn-as-static

: this option is used for learning a MAC as static during learning

window.

Enable : Enables LAS functionality on this port.

Disable configuration.

: Disables LAS feature on this port without removing LPS

Learning is unrestricted.

Usage Guidelines

> By default, LAS admin-status is N/A.

- When disabled, all filtered MAC addresses on the port are removed and all bridged and static MAC addresses stay "forwarding". The LPS static mac configuration is preserved. The source learning mode is set the hardware mode for the port and all new MAC addresses are learnt and not visible in the LPS context. The port-security configuration is still allowed but not applied, but configuration of LPS static mac is refused. Reducing the "maximum" to a lower value than the number of static mac is also refused.
- 2. port-security shutdown <num> [no-aging {enable|disable}] [convert-to-static {enable|disable}] [boot-up {enable|disable}] [mac-move {enable|disable}]

Syntax Definitions

Mac-move : Allows the movement of pseudo static/static mac when enabled.

Usage Guidelines

- > By default, the option is N/A.
- port-security shutdown <0> [{ no-aging <enable|disable>} |{convert-to-static <enable | disable>} | {boot-up <enable|disable>} | {learn-as-static <enable|disable>} | {mac-move <enable|disable>}]

Configuration will enable user to use all the options for learning window when the shut down time is zero.

Syntax Definitions:

Num : Learning window time in minutes (Max value ->65535)

No-aging: When enabled, MAC-address are learnt during learning window will not

Be flushed.

Convert-to-static: When enabled, MAC-address are learnt during learning window



Are converted into static MAC address.

Boot-up: When enabled, Learning window should occur at boot-up time when

box restarts.

Mac-move: Allows the movement of pseudo static/static mac when enabled.

Learn-as-static : this option is used for learning a MAC as static during learning window.

Usage Guidelines:

User can use all, any or none of flags with "port-security shutdown 0 command now.

1. Show commands are same as in previous feature.

```
@ 172.25.50.200 - PuTTY
DUT1--> show port-security
Legend: Mac Address: * = Duplicate Static
           Mac Address: # = Pseudo Static
Port: 1/3
Operation Mode : ENABLED,
Max MAC bridged : 1,
Trap Threshold : DISABLED,
Max MAC filtered : 5,
Low MAC Range : 00:00:00:00:00;
High MAC Range : ff:ff:ff:ff:ff;
Violation : RESTRICT
 Violating MAC :
                                     RESTRICT,
                                                         NULL
 MAC Address VLAN TYPE
 00:00:00:00:00:05 1 STATIC
Port: 2/13
Operation Mode : ENABLED,
Max MAC bridged : 1,
Trap Threshold : DISABLED,
Max MAC filtered : 5,
Low MAC Range : 00:00:00:00:00:00,
High MAC Range : ff:ff:ff:ff:ff;
Violation : RESTRICT,
 Violating MAC :
                                                         NULL
 MAC Address VLAN TYPE
 00:00:00:00:00:05 1 STATIC(*)
```





Limitations:

None

15. Flash lock across reboot of the switch

Introduction:

This Enhancement enables the lock in the device memory even after reboot, which in turn states that no modification will be allowed to the device memory .Hence any changes or modifications to the persistent memory can be prevented such as SW functionalities user/profile management, DHCP configuration cannot , runtime changes of switching and routing configurations and software logs. This feature is mainly used in security sensitive networks.

With the implementation of this feature, the following will be the changes on the behavior of the switch:

- > The mini boot of the Device is locked during reload so that no modifications can be done.
- > The flash information is internally stored in the boot.params before locking the file.
- The lock will retain even after reboot and takeover hence no configuration changes will be saved on the switch.
- > Telnet sessions will be allowed but ftp sessions will not be allowed once the memory is locked.

In the earlier implementation the lock was doesn't retain after reboot or takeover and user has to manually lock the memory each and every time after reboot.

Platforms Supported:

Omni Switch 6850 Omni Switch 6855-U24X Omni Switch 6855-14

Commands usage:

No new commands were introduced in this feature and all the system storage commands will work in the same manner. But the following command alone shall be stored in the boot.cfg as plain text if it is configured before locking the flash file system and saved.

System storage server-ip <x.x.x.x> user <name> password <password> port <port-number>

• Server-ip is ip-address of a server which stores the extracted memory contents.



- User and password is the user name and password required to connect to the server.
- Port number is the port number of the Ssh session.
- -> System storage server-ip 172.65.200.20 user lkuppan password lk# 47597 port 22
- -> write memory File /flash/working/boot.cfg replaced.

Limitations:

Hardware Limitations:

None.

Software Limitations:

- Updating mini boot is mandatory for this feature to work.
- User must do certify and synchronization process before locking the system in stack so that there is no auto-synchronization failure after the system is locked.
- After locking the flash file system, No write operation on the /flash will be allowed. So
 any operation involving /flash write such as but not limited to DHCP server operation,
 DHCP binding table creation, user name/table updating, flash-synchronization,
 saving configuration, shall fail/impacted.
- If the user configures/stores the system storage server-ip user name and password, password shall be stored as plain text formation. So user MUST not store any secured information in the configuration, it shall be configured dynamically.
- The user has to manually certify and synchronize the system before executing the storage lock, fetch, program and clear command.

