# Omni Switch 6850E/ 6855 / 9000E

## Release 6.4.6.278.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.

Problems Fixed Between Builds 126 and 167
Problems Fixed Between Builds 168 and 218
Problems Fixed Between Builds 219 and 278
Under Verification:
Known Issues:
New Features:
New Hardware:



PR	<b>184858</b> Build:	6.4.6.126.R01	
Summary:	DDM threshold temperature alarm.		
Explanation:	Code changes done to prevent warning message until SFP reads the exact DDM		
	values.		
PR	<b>184393</b> Build:	6.4.6.126.R01	
Summary:	After power cycle the snmp acces authentication default I	s is allowed for few minutes without aaa	
Explanation:	Fix done to disallow the access to when there is no aaa authentication	the snmp server immediately after power cycle, n snmp configuration.	
PR	<b>184016</b> Build:	6.4.6.126.R01	
Summary:	Unable to retrieve entire Mac-addre		
Explanation:	Fix done to retrieve all the static m	ac entries on LPS port through the snmp.	
PR	182223 Build:	6.4.6.127.R01	
Summary:		shed "tCS_PRB & talpni" task is suspended.	
Explanation:	changes done to drop the ARP pac	ckets received on higig port	
PR	187475 Build:	6.4.6.127.R01	
Summary:	Show interfaces link-monitoring sta 3/42	atistics command not executing past interface	
Explanation:	Fix done to handle the proper mip interfaces link-monitoring statistics	overflow condition to execute the " Show command" correctly.	
PR	182585 Build:	6.4.6.128.R01	
Summary:	Issue with DHCP-snooping	Changia automisian conde o NIL LID massage to	
Explanation:	UDP relay application, after this, U	Chassis supervision sends a NI_UP message to DP relay initiates socket communication with the	
	NI and, when this is successful we		
		we have implemented a method to automatically (runs 240 secs after the application is initialized	
		art of a linkagg and update the linkagg port	
	details in UDP relay CMM context		
PR	<b>185616</b> Build:	6.4.6.128.R01	
Summary:	Traffic stops while the LED remain		
Explanation:	Rectifying discrepancy in setting sp	beed to 100 in a dual speed SFP	
PR	185994 Build:	6.4.6.128.R01	
Summary: Explanation:		100/1000 SFP to run at 100Mb in a 6850E setup s in SFP-DUAL-MM on combo ports	
PR	187210 Build:	6.4.6.129.R01	
Summary:	after rebooting OS6850E work	g tCS_PRB and talpni and rebooted however	
Explanation:	we introduce semaphore for the glo	obal structure with timeout value 2,to avoid	
	simultaneous access by more than	one task	



PR	188137	Build:	6.4.6.129.R01
Summary:		agg blocking issu	
Explanation:	STP Ni and CN	MM task commu	nication optimized.
PR	186466	Build:	6.4.6.129.R01
Summary:		erate the trap 22	
Explanation:	Added debug t	rap for chassis b	backup power supply (BPS) state change
PR	185448	Build:	6.4.6.130.R01
Summary:	ERP ring got b PMD file with s		DLD flood and switch got crashed with generating
Explanation:	Prevent UDLD	configuration fo	r aggregate port or tagged aggregate port
PR	187130	Build:	6.4.6.131.R01
Summary:			ersed with port 1/44 and vice versa
Explanation:	Code changes	done to mappin	g the phy port to device channel in proper order
PR	187370	Build:	6.4.6.132.R01
Summary:			eport on MVRP-registered VLAN
Explanation:	Updating dyna	mic vlans inform	ation to IPMS.
PR	188541	Build:	6.4.6.133.R01
Summary:			TLV not advertised on OS6850E
Explanation:			t power and priority info for appropriate PoE
	controller for 6	850E and 6855	switches to perform power negotiation over lldp.
PR	184369	Build:	6.4.6.133.R01
Summary:		Information in sy S product which i	wlog event when link goes UP/DOWN
Explanation:			interface alias name information in the swlog
Explanation			us changes up/down.
PR	188695	Build:	6.4.6.134.R01
Summary:	Issue with ip de	os anti-spoofing	clear command.
Explanation:	statistics comn	nand will not cha	nge the configuration status of the switch
PR	187156	Build:	6.4.6.134.R01
Summary:	Malformed BP	DU (wrong lengt	h) for default VLAN in XNI modules- BPDU droppe
Explanation:			the BPDU length on 10Gig ports ,to force the leng
	field of the BPI	DU to be equal 1	he standard length 39.
PR	185272	Build:	6.4.6.135.R01
Summary:	Port Monitoring		
Explanation:	Removal of an	nbiguous messa	ge, from show port monitoring file output.
PR	188684	Build:	6.4.6.135.R01
Summary:	DHCP hanging		
Explanation:	Buffer is cleare	ed if its failed to r	each CMM socket
PR	181508	Build:	6.4.6.135.R01
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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 Summary: Explanation:	187504Build:6.4.6.135.R01CPU at 97% with task bcmRx and taUdpRelay hogging the CPUDHCP ACK'sWill not be flooded in the network by the neighboring Relay agents
PR Summary: Explanation:	190680Build:6.4.6.137.R01Specific "system contact" command raises boot.cfg.1.err on next rebootChanges have been made to store string in boot.cfg in double quotes irrespectiveof special symbols (',' '?' '!', which will consider as delimiter)
PR Summary: Explanation:	189730Build:6.4.6.138.R01OS6855 allows the command to change mode to OS6850E.Changes are done to not allow command to change stack mode in 6855.
PR Summary: Explanation:	190576Build:6.4.6.140.R01ip helper dhcp-snooping option-82 command not saved in boot.cfgerror will be thrown if dhcp-snooping related configurations are done beforeenabling snooping
PR Summary: Explanation:	190971Build:6.4.6.146.R01"zcSend" CODE 3997698 0x3d0002" error seen in logs and unable to save the configurationMerge done in 645R02 for to avoid the web view permanent stuck due to temporary socket errors and hence web view communication with the other tasks will not be affected.
PR Summary: Explanation:	181549Build:6.4.6.147.R01SSH vulnerabilities in OS9800:SSL Version 2 (v2) Protocol Detection whichreportedly suffers from sDisabled the ssl-v2 support due to vulnerabilities
PR Summary: Explanation: PR Summary: Explanation:	190230Build:6.4.6.148.R01VRRP tracking commands getting cleared on a stack of OS6850E switches when primary unit reloads. Validation of slot availability is avoided during reload and takeover189881Build:6.4.6.149.R01Issue with time synchronization with NTP on Layer 2 switch Changes have been made to set the dispersion value to the sample dispersion value in the case of global variable "ntpAccept" enabled.
PR Summary: Explanation:	170503Build:6.4.6.150.R01dshell is currently in use, try again later;CHASSIS warning unable to post semaphore, 6250 over memo Recover dshell for debug purpose6.4.6.150.R01
PR Summary: Explanation:	190900Build:6.4.6.153.R01SSH connection to 127.2.X.1 (NIX) is refuseddshell flag is introduced that will open up the telnet session to the NIs for some timeby calling the function "debugTelnetEnable" in dshell, in case the telnet is disabled.4 / 28



PR	<b>182755</b> Build: 6.4.6.154.R01
Summary: Explanation:	OV traps seen Vs switch logs events discrepancies. Rectifying discrepancy of timestamp between OV and the switch.
	Recarying discrepancy of amesiamp between ov and the switch.
PR	<b>192189</b> Build: 6.4.6.158.R01
Summary:	UNP configuration issue (same command repeated twice in boot.cfg) with
Explanation:	OS6850E Stack. inIndex is updated with the correct ifIndex value from where the display has to be
	continued when there is a overflow
PR Summari <i>i</i>	<b>193688</b> Build: 6.4.6.163.R01
Summary: Explanation:	ALU branded SFP-GIG-T (triple speed) is not working with 100Mbps / 10Mbps. Code change done to accept the ALU Branded triple speed copper SFP part
Explanation	number as triple speed SFP.
PR	<b>193861</b> Build: 6.4.6.166.R01
Summary: Explanation:	Power supply state of NI2 is not correct. Code change is done to notify that there is a change in the status of the power
	supply when the power supply is pulled.
PR	<b>186908</b> Build: 6.4.6.147.R01
Summary:	Swicth crashing because of vlan name lenght.
Explanation:	The size of the data structure that holds the VLAN name was increased to avoid overflow.
	overnow.
PR	<b>184284</b> Build: 6.4.6.128.R01
Summary:	Repeated crash on the stack.
Explanation:	Fix done to handle power fail interrupts in such a way that it does not cause any
	abnormal system hang.
PR	<b>185998</b> Build: 6.4.6.152.R01
Summary:	Finisar 10Gig SFP is not working with VFL link however same SFP transceiver is
-	working with non-VFL Changes made to support VFLs on 1G/10G Finisar dual speed 1g/10g SFP
Explanation:	(FTLX8571D3BCV-AF)
PR	<b>191795</b> Build: 6.4.6.144.R01
Summary:	Static route not showing the snapshot but however throwing the message "Static route already exists"
Explanation:	Including the entry causing mip_overflow in show configuration snapshot ip-routing.
PR	<b>192062</b> Build: 6.4.6.154.R01
0	onex_process_aging(862): incoming msg for port 3007, reason 12, mac
Summary:	0x336092f0, vlanld 0
Explanation:	onex_pro Debug logs are now correctly controlled and will not dump on the screen.
PR	<b>191769</b> Build: 6.4.6.161.R01
Summary:	ifConnectorPresent MIB (ifXTable) displays true value instead of False for LACP
•	aggregate links.
Explanation:	Condition introduced to check for the linkagg and update the value of ifconnector present.



PR	<b>190033</b> Build: 6.4.6.139.R01
Summary:	NIs on 9700E down, Multiple PMDs generated.
Explanation:	Increase the slbProbe task priorty so that it can compete for CPU attention.
PR	<b>185296</b> Build: 6.4.6.130.R01
Summary:	TACACS Authorization not working properly when server becomes unreachable
•	and then becomes reachable
Explanation:	Tacacs authorization will be handled properly during the change in server status from unreachable to reachable.
PR	<b>183948</b> Build: 6.4.6.149.R01
Summary:	Stack crashed due to tCS_PRB and Qos task suspension when QOS is added or
Explanation:	deleted. When gos is added or deleted switch wont crash.
	when yos is added of deleted switch wont clash.
PR	<b>185223</b> Build: 6.4.6.128.R01
Summary:	DHCP Ip helper not working after upgrading the OS6400 to 6.4.5.474.R02.
Explanation:	cleared the buffer after processing the dying gasp message
PR	<b>183591</b> Build: 6.4.6.129.R01
Summary:	OS9802E: port mapping on port 22, 23, 24 is leaking broadcast into other ports on
•	different NI.
Explanation:	Proper Port Mapping Validation for GNI-U24 / C-24 Boards in Hardware for specific ports has been modified
PR	<b>184085</b> Build: 6.4.6.133.R01
Summary:	OS6580 at Alcova ES crashed.
Explanation:	defense fix to avoid invalid memory access
PR	<b>185527</b> Build: 6.4.6.126.R01
Summary:	IGMP general query packet creating loop.
Explanation:	Fixed the issue with IGMP query getting loop backed when hash-control non-ucast is enabled.
PR	<b>192072</b> Build: 6.4.6.153.R01
Summary:	SAA shows negative value for Max RTT & Max jitter
Explanation:	Do not update the aggregate record if the latest iteration value is -
PR	<b>192562</b> Build: 6.4.6.158.R01
Summary:	OS9700 Console access is getting freeze when we do "debug show multi-chassis
	peer-linkagg port"
Explanation:	Changes are done such that session will not freeze after issuing the command "debug show multi-chassis peer-linkagg port"
PR	<b>191740</b> Build: 6.4.6.166.R01
Summary:	High Memory issue on OS6850.
Explanation:	Code changes are done to free the allocated memory for HIC Svr monitoring packet.
PR	<b>191069</b> Build: 6.4.6.149.R01
Summary:	How to change the default DNS keyword list for 802.1x CP
Explanation:	Fix was done for proper handling of disabling the dns keyword list for 802.1x
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captive portal

PR	<b>188063</b> Build: 6.4.6.129.R01
Summary:	A CLI debug command to control "bcmSwitchL3UcTtlErrToCpu"
Explanation:	A new debug cli command bcmSwitchL3UcTtlErrToCpu introduced.
	bcmSwitchL3UcTtlErrToCpu = 0 means IP error packets will not be sent to CPU
PR	<b>181724</b> Build: 6.4.6.129.R01
Summary:	SrcLrn, tOddJob, tSlcAgeTimer, tSlcHgTimer, la_cmm_tick, stpTick & tahw_l2
Explanation:	As per our analysis the RCA of the issue is currently we have not validating the
	length of the buffer received for IPC transmission. This result in crash on the
	system whenever the buffer size is Zero. We have done code changes for
	validating the length of the buffer before sending to the destination Application.
PR	<b>179716</b> Build: 6.4.6.135.R01
	Third Party GBPTControl frames (DA mac 01:00:0c:cd:cd:d0) tunneled by software
Summary:	in 6.6.3.R01
Explanation:	Implemented CLI command to enable and disable MAC tunneling as below:
-	ethernet-service mac-tunneling enable/disable (usage: To enable or disable the
	mac-tunneling feature).
	show ethernet-service mac-tunneling (usage: To know the status of the mac-
	tunnel feature like whether the feature is enabled or disabled and applied or not).
	······································
	In 6.6.X releases the uni profile treatment should be tunnel for following protocols
	in order to tunnel along with the above command in order to tunnel the DA MAC
	01:00:0c:cd:cd:d0
	PAGP
	UDLD
	CDP
	VTP
	DTP
	PVST
	VLAN UPLINK
	OPLINK
PR	<b>186966</b> Build: 6.4.6.139.R01
Summary:	Unable to issue command through GUI
Explanation:	CMM index value is updated from chassis mib when the stacking is disabled-so that
	the copy working certified from flash-sync applied successfully
PR	<b>191587</b> Build: 6.4.6.142.R01
Summary:	IGMP traffic not received, when port security is disabled.
Explanation:	Receiving IGMP traffic with port-security disabled
	Receiving fermi traine with port security disabled
PR	<b>187480</b> Build: 6.4.6.133.R01
Summary:	OS6850E unable to certify the switches after the daylight changes are applied.
Explanation:	Code changes done to perform CERTIFY process successfully when DST is
	enabled.
PR Summon <i>i</i>	189534 Build: 6.4.6.137.R01
Summary:	Reachability issue with ERP setup with LACP Linkagg.
Explanation:	IP Interface Status will be updated for vlans Associated with ERP Linkagg Ports.
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PR	<b>188896</b> Build: 6.4.6.134.R01	
Summary:	High CPU on distribution switches and DHCP issue on OS9 core switches	
Explanation:	Fixed the crash issue while trying to resolve the incomplete ARPs	
PR	<b>185058</b> Build: 6.4.6.136.R01	
Summary:	tDvmrp0 ,tCsCSMtask2 and tCS_PRB. These are the tasks suspended and locked.	
Explanation:	Fix to avoid null pointer access	
PR	<b>184689</b> Build: 6.4.6.149.R01	
Summary:	qos trust Port got shutdown with protocol dhcp-server or dns-reply	
Explanation:	While processing for QOS shutdown, process only first packet of fragmented packet and not all the fragmented packets	
PR	<b>186157</b> Build: 6.4.6.137.R01	
Summary:	Configuration of SHA+AES on OS 9702E to work with whatsup Gold.	
Explanation:	Code changes done to fix SHA/AES for snmpv3	
PR	<b>183281</b> Build: 6.4.6.127.R01	
Summary:	Port status is showing as forwarding in spite there is no link connected on the interface.	
Explanation:	When the port physically goes down it should not be displayed in "show spantree	
	active ports" output	
PR	<b>184739</b> Build: 6.4.6.134.R01	
	Change the frequency of swlog messages.	
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PR	<b>185794</b> Build: 6.4.6.168.R01
Summary:	OS 6400 crash issue
Explanation:	Additional debug addition for crash issue.
•	S S S S S S S S S S S S S S S S S S S
PR	<b>193213</b> Build: 6.4.6.169.R01
Summary:	port status trap regarding up/down is not working
Explanation:	Port status trap is set to display at swlog info level when trap is enabled for that port.
PR	<b>187081</b> Build: 6.4.6.169.R01
Summary:	OS 6850 crashed with Stp task suspended.
Explanation:	Defense validation while handling STP SNMP operations
PR	<b>191232</b> Build: 6.4.6.169.R01
Summary:	OS6450: Device physically connected to port 1/4, however its Mac is shown on por
Explanation:	trunk port 1/23. M Added a recovery mechanism to reopen malfunctioning IPC socket.
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PR	<b>193900</b> Build: 6.4.6.169.R01
Summary:	LPS query on learn-trap-threshold in OS6850 and OS6400
Explanation:	Fix done to display the trap-threshold configured value if its not 0.
PR	180957 Build: 6.4.6.170.R01
	Duplicate primary and secondary switch were noticed after we reload the entire
Summary:	
Summary: Explanation:	Duplicate primary and secondary switch were noticed after we reload the entire stack Fix done to unblock AOS tasks when unable to write output on to the tty driver's
Summary: Explanation: PR Summary:	Duplicate primary and secondary switch were noticed after we reload the entire stack         Fix done to unblock AOS tasks when unable to write output on to the tty driver's write buffer.         194186       Build:       6.4.6.170.R01         OS6850E: 802.1x issue for IP-Phones using mobile-tag rule.
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Summary: Explanation: PR Summary: Explanation: PR Summary: Explanation: PR Summary: Explanation:	Duplicate primary and secondary switch were noticed after we reload the entire stack         Fix done to unblock AOS tasks when unable to write output on to the tty driver's write buffer.         194186       Build:       6.4.6.170.R01         OS6850E: 802.1x issue for IP-Phones using mobile-tag rule.         Fix done to update the vlan tag in the mac-address table when mobile tag is enabled.         194026       Build:       6.4.6.171.R01         Documentation issue with AoS 6.4.5.R02 & AoS 6.4.6.R01 release Cli guide for "session prompt default         Added CLI for "session prompt default system-name         194408       Build:       6.4.6.172.R01         OS9700: Core switch crashed without any apparent reason.
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chassis after 3rd i Fix done to avoid MIP overflow Explanation: PR 193384 Build: 6.4.6.176.R01 Removing the power from primary, reloaded the entire stack with crash files in few Summary: units. Explanation: Code changes done to avoid the display issue in "show stack topology" when stacking cable removed between primary and its neighboring unit (issue only in stack of 8). When the last iteration of neighbor list 1 is reached, ignore the check for last neighbor existence i.e. neighbor [8].Hence the link status for neighbor [8] will be set to link DOWN. When the link state goes up, existing implementation will take care that this gets updated when the reverse link (neighbor list 2) is iterated. PR 194636 6.4.6.178.R01 Build: OS9000E-synchronization issue after issuing the "interfaces clear-violation-all" Summary: command in AoS 6.4. Explanation: Modified the behavior of show configuration status to sync with cmm configuration status PR 193056 Build: 6.4.6.181.R01 Summary: Issue with ARP inconsistency in MCLag Explanation: To reduce the time taken in processing the ARP\_DEL message. PR 194353 6.4.6.181.R01 Build: Summarv: OS6850E crashed with SNMPagt & tCS PRB tasks Explanation: Code changes done to ensure accessing valid varbind during bulk request PR 191728 Build: 6.4.6.182.R01 Summary: Issue with MC-Lag consistency Explanation: Implementation of To-do List to process MCM consistency TLVs. PR 195369 Build: 6.4.6.182.R01 Connectivity issue to devices from one of the 2 OS9000E Core switches in MC-Summary: LAG Explanation: Connectivity issues due to arp inconsistency in Mclag are resolved. PR 195083 Build: 6.4.6.182.R01 Summary: OpenSSL vulnerablity CVE-2014-0224 and CVE-2014-0160 Explanation: OpenSSL vulnerablity CVE-2014-0224 and CVE-2014-0160 has been handled. PR 195589 Build: 6.4.6.184.R01 Summary: OS6850-U24X: Omni switch crash without any apparent reason. Explanation: Fix done to check the SVLAN ID 0 for Ethernet service. PR 195554 Build: 6.4.6.185.R01 Summary: IP phone getting the IP address after 5 reboots Explanation: Fix done to get the IP address from Ip phone,. PR 195392 6.4.6.186.R01 Build: 10/28



Summary: Explanation:	Memory leak in 6.4.5.442.R02. Buffer free is handled properly in all error cases.
PR	<b>195666</b> Build: 6.4.6.187.R01
Summary:	In an ERP ring of 3 OS9000E switches, seeing newly added vlans as operational down
Explanation:	Code changes are done to handle STG state properly for the linkagg's in ERP NI.
PR	<b>195485</b> Build: 6.4.6.188.R01
Summary: Explanation:	OS 6850E stack synchronization issues Code merge done to propagate the value of global variable from primary to secondary when a specific configuration change (like interface admin down or vlan creation etc) is done. Hence when PS is removed (or if primary unit goes down abruptly) and the reload status is displayed as "ALL STACK" in show running- directory then the whole stack will go for reload.
PR	<b>193396</b> Build: 6.4.6.189.R01
Summary: Explanation:	Connectivity issue after configuring the QoS for ingress bandwidth in OS9702E. Depth Configuring properly in hardware.
PR	<b>194561</b> Build: 6.4.6.190.R01
Summary: Explanation:	CP user mac-addresses are not learnt however authentication is successful. Fix done to add the captive portal authenticated mac addresses in the mac address table.
PR	<b>197031</b> Build: 6.4.6.194.R01
Summary:	LBD is not working after switch reload even LBD configuration is present in
Explanation:	boot.cfg. Code changes have been done to enable the loopback detection in standalone OS9700 chassis.
PR	<b>193462</b> Build: 6.4.6.194.R01
Summary:	6850: Disable IP interface 10.123.0.1 (captive portal) when 802.1x is not
Explanation:	configured, so it won't re ARP replies for IP Default CP address 10.123.0.1 is not sent out when 802.1x is not configured.
PR	<b>195956</b> Build: 6.4.6.194.R01
Summary:	LACP configuration lost instead of UDLD after software updating
Explanation:	Now the configurations of LACP can be done prior to the UDLD configurations.
PR	<b>196450</b> Build: 6.4.6.200.R01
Summary:	OS6850-U24X-Mac learning on port instead of Linkagg ID.
Explanation:	made changes to avoid callback on ports part of linkagg
PR	<b>196448</b> Build: 6.4.6.201.R01
Summary: Explanation:	"ip helper dhcp-snooping option-82 policy" is not available in AOS 6.4.5.R02 Implemented the "ip helper dhcp-snooping option-82 policy CLI.
PR	<b>191402</b> Build: 6.4.6.204.R01
Summary: Explanation:	mac-address not learnt by the switch due to l2 conflict As a workaround, Dual hashing algorithm for better indexing can be enabled via AlcatelDebug.cfg.
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PR	<b>197202</b> Build: 6.4.6.205.R01	
Summary:	Issue with " violation-recovery-time" of a specific port	
Explanation:	Code merge done by correcting the index value for EISNAPPC data structure wi	th
	hybrid port value.	
PR	<b>192200</b> Build: 6.4.6.213.R01	
	When we do flash synchro we notice error message in swlog	
Summary:	"CCM_CSM_FLASH_SYNCHRO_RS-appError 24"	
Explanation:	Fix to avoid internal ftp hung issue during flash-synchro causing CVM timeout	
PR Summonia	200212 Build: 6.4.6.217.R01	
Summary: Explanation:	OS6850E-Stack having issues with "copy working certified" Code Changes done to avoid the time differences due to DST effect and due to	
	time zone changes which will rectify the failure of certify process when DST is	
	enabled.	
PR	<b>193125</b> Build: 6.4.6.218.R01	~ ~
Summary:	New Dual Speed SFP from SOURCEPHOTONICS can't negotiate to speed of 1	00
Explanation:	Fix done to correct the default speed while using Dual speed SFP in OS9700 & OS68	
	0300	
PR	<b>196326</b> Build: 6.4.6.190.R01	
Summary:	WCCP configuration get enabled after the reload	
Explanation:	WCCP configuration are proper after reload	
PR	<b>193617</b> Build: 6.4.6.191.R01	
Summary:	OSPF routes are installed with delay into the routing table	
Explanation:	first packet LSA handling and OSPF LSA length overflow handling	
PR	<b>189784</b> Build: 6.4.6.174.R01	
Summary:	Switch memory utilization increases and exceeds threshold.	
Explanation:	Code changes are done to prevent IPC congestion between STP CMM and STP	' NI
PR	<b>199015</b> Build: 6.4.6.211.R01	
Summary:	BFD interfaces go down due to high CPU; will not re-establish automatically.	
Explanation:	BFD sessions are getting re-established once the CPU usage becomes normal	
PR	<b>182718</b> Build: 6.4.6.194.R01	
Summary:	Max command lengths are 250 for accounting and 259 for authorization	
Explanation:	The argument max length as per Tacacs+ packet format can support max of 255	
	thus if the argument length is more than 255, it is truchkated to 255, so that	,
	accounting is succeeded.	
PR	<b>191570</b> Build: 6.4.6.180.R01	
Summary:	L3 slow path CPU processed packets caused network instability (CPU running a 100% utilization)	τ
Explanation:	By default ip packets with options won't be trapped to CPU. Only when IPV6	
	interface is present or ipv6 multicast is enabled, ip packets with options will be	
	trapped to CPU.	
PR	<b>194549</b> Build: 6.4.6.179.R01	



Summary: Explanation:	"ip helper dhcp-snooping bypass option-82-check enable" is lost after a reload Added "ip helper dhcp-snooping bypass option-82-check enable" cli after dhcp snooping enable/disable in snapshot
PR Summary: Explanation:	<b>191676</b> Build:6.4.6.172.R01OS6850 switch crashed with suspended tasks: tCS_PRB and talpniDefensive check added.
PR Summary: Explanation:	<b>193117</b> Build:6.4.6.174.R01768 VPA limit is not enforced in CLICode changes done to log message while creating more than 768 VPA.
PR Summary: Explanation:	193612Build:6.4.6.168.R01Write memory flash synchronization and show configuration snapshot command output issue with OS9700Sflow Display Commands will not increase memory utilization
PR Summary: Explanation:	194646Build:6.4.6.181.R01Multiple issues with DHCP Snooping and IP helperIf dhcp offer packet is received in client vlan by a relay agent, it will be dropped. Inthis specific customer scenario, since the gateway is made another switch insteadof relay agent, offer packet is routed by that switch and sent to relay agent in clientvlan. As a work around for this scenario, if allowRoutedReplyOnClientPort is set to1, offer packet will not dropped if it is received on client vlan.
PR Summary: Explanation:	<b>199162</b> Build:6.4.6.211.R01DHCP NAK packet not sent by switch acting as DHCP serverOn NAKing the client do subnet broadcast, when there is no relay agent.
PR Summary: Explanation:	181179Build:6.4.6.174.R01Reference PR# 173309: dhcpd server does not propagate global scope:DHCP options given in global scope will now be applied to local scope also.
PR Summary: Explanation:	<b>197568</b> Build:6.4.6.214.R01Multicast rp-candidate issue with OS6850E.PIM-Bootsrap fragmentation issues fixed
PR Summary: Explanation:	198536Build:6.4.6.210.R01IS-IS state is stuck in "INIT" between AOS and other deviceChanges made to bring Interoperability in isis
PR Summary: Explanation:	<b>195257</b> Build:6.4.6.183.R01DHCP offer packet is not forwarded by OS6450 udp relayPer vlan rtr mac destined changes
PR Summary: Explanation:	194868Build:6.4.6.178.R01OS6400 : Lanpower stops working, no logs reported. Available watts shows 0 inIpDumpData () output.Fix done to display the correct watts available in IpDumpData().
PR Summary:	<b>196307</b> Build:6.4.6.189.R01XON-XOFF protocol gets enabled after reboot

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Explanation: Fix done to disabling the session XON-XOFF protocol by default.

PR	185576	Build:	6.4.6.173.R01	
Summary:	OS 6850 cras	sh observed (refe	rence to PR#182942)	
Explanation:	Defensive fix has been added to validate data portion of bcm packet.			
PR	192263	Build:	6.4.6.190.R01	
Summary:	End user policy is violated when port-security is configured on all the ports.			
Explanation:	End-user profile check is added in LPS source learning.			
PR	190094	Build:	6.4.6.179.R01	
Summary:	ARP packets dropped before reaching CPU on NI1			
Explanation:	ARP Packets	wont be dropped	1.	

Problems	Fixed Between Builds 219 and 278
PR Summary: Explanation:	<b>197847</b> Build:6.4.6.222.R01OS9702E HIGH CPU noticed due to SrcLrn Task.In OS6850E high cpu seen for the top task is 'SrcLrn' task increased the to doexpiry from 1 sec to 3 sec.
PR Summary: Explanation:	201123Build:6.4.6.224.R01OS6850E: error NI[3/0]: Field 56 in table config is NULL.Invalid Error wont be thrown in QoS log.
PR Summary: Explanation:	199983Build:6.4.6.224.R01OS9700 10G NI is not working properly.Debug provided to track the events during the issue
PR Summary: Explanation:	199092Build:6.4.6.224.R01OS9000E (6.4.5.569.R02), mac address displayed in two different ports in the CPtable (aaa-device alCode changes has been done to update the current timer correctly in case of CPauthentication
PR Summary: Explanation:	201124Build:6.4.6.225.R01OS6855 power supply trap not proper issueChanges done to send psOperable trap when we insert power supply to the unitand power supply is working.
PR Summary: Explanation:	201431Build:6.4.6.229.R01Issue with assigning IPV6 static Route.IPV6 static route is configured with proper interface and works fine on reload.
PR Summary: Explanation:	<b>198801</b> Build:6.4.6.230.R01Loop back Detection feature is not working in OS9000E on Slot-8Fix done for proper slot check while configuring LBD
PR Summary: Explanation:	201269Build:6.4.6.230.R01OS6850E VRRP IP address is not reachable after NI takeoverNo ping loss for VRRP IP on takeover



PR	<b>198323</b> Build: 6.4.6.232.R01			
Summary:	OS6850: LACP problem with hub in between LACP peers			
Explanation:	Code changes done to attach the port properly when primary NI goes down (with hub in between links)			
PR	<b>197778</b> Build: 6.4.6.235.R01			
Summary: Explanation:	OS6850E interface goes down and up when the other end switch is rebooting. New FPGA version to avoid bringing PHY out of reset to prevent link flapping during switch reboot			
PR	<b>201763</b> Build: 6.4.6.237.R01			
Summary: Explanation:	OS6850E switch crashed tCS_PRB & SNMPagt task suspended. Check the pointer value is valid or not while dumping last 10 SNMP traps to PMD.			
PR	<b>201931</b> Build: 6.4.6.240.R01			
Summary:	Broadcast traffic from other vlans received on the OS6850E mobile port where default vlan restore is			
Explanation:	Fix done to delete the port bit map of the mobile vlan in the hardware when the port becomes as a fixed port from the mobile port.			
PR	<b>202567</b> Build: 6.4.6.243.R01			
Summary: Explanation:	OS6855 power supply trap is not proper when Power supply is removed New trap for insertion and removal of power supply			
PR	<b>197501</b> Build: 6.4.6.245.R01			
Summary: Explanation:	OS6450 showing many lbdProcessMsg:459 messages in swlogs Setting appropriate debug level for LDB switch log message			
PR	<b>203188</b> Build: 6.4.6.247.R01			
Summary: Explanation:	IGMP General Membership Queries getting sent to queue 0 instead of 4. Send IGMP General Membership Queries to queue 4			
PR	<b>203807</b> Build: 6.4.6.253.R01			
Summary:	IGMP gourp messages dropped on mobile/802.1x ports			
Explanation:	After reload, IGMP report packet on mobile port will be learnt properly			
PR	<b>204191</b> Build: 6.4.6.254.R01			
Summary:	boot.cfg.1.err is created after reboot when user password-policy cannot-contain-			
Explanation:	username enable is a Fix the CLI save format for "user password-policy cannot-contain-username enable"			
PR	<b>204064</b> Build: 6.4.6.255.R01			
Summary: Explanation:	DHCP Server configuration modified after reload Update boot.cfg when default vrf is removed from dhcp-server			
PR	<b>204114</b> Build: 6.4.6.256.R01			
Summary:	The command "show ip bgp policy prefix-list" fails to display the output once in every 3 times.			
Explanation:	Fix the display issue with "show ip bgp policy prefix-list" CLI output			



PR Summary: Explanation:	203334Build:6.4.6.258.R01100% CPU with task vstkcmm after OS6850 NI takeoverFix high CPU seen in vstkcmm on repeated takeover					
PR	204021	Build:	6.4.6.259.R01			
Summary:	"OID not increas port status.	"OID not increasing" error is noticed while SNMP walk is performed to fetch ERP				
Explanation:			ot increasing" noticed during SNMP walk to fetch			
PR	204237	Build:	6.4.6.260.R01			
Summary:	Unable to display serial number of external Power supply in stack from OV2500 inventory page.					
Explanation:	Display serial number of Backup Power supply in secondary and idle units					
	004070		0.4.0.007 D04			
PR	204879	Build:	6.4.6.267.R01			
Summary:	6850E stack - El	RP not converging	]			
Explanation:	Code changes done to update the ERP ring id properly when NI went down in order to converge the ERP.					

#### **Under Verification:** PR 189124 Build: 6.4.6.169.R01 Permanent MAC cannot be changed from one vlan to another VLAN in the LPS Summary: port Explanation: Fix done to allow changing permanent MAC address from one vlan to another VLAN on the LPS port. And do not change tagged vlan of the LPS port during boot up. PR 197425 6.4.6.215.R01 Build: Summary: Randomly switches losses the SSH and Console access to the switch Explanation: Forcefully deleting sftp task after waiting for certain time at sshd task PR 199440 Build: 6.4.6.216.R01 Summary: Vulnerability in SSLv3 (POODLE / CVE -2014- 3566) Explanation: Disable SSLv3 to mitigate POODLE attack PR 199151 Build: 6.4.6.219.R01 Summary: OS9702E running on the code 6.4.5.528 crashed. Explanation: Dump lat 10 SNMP traps to PMD to aid crash debugging. PR 198147 Build: 6.4.6.220.R01 Summary: Multicast loss for 1 sec if the client sends leave message in the IPMS. Explanation: Reduced delay in processing and egressing out the IGMP Leave Packets in software

PR	200620	Build:	6.4.6.222.R01
Summary:	LLDPDU crashing	the switch 6855-	14
Explanation:	Code changes do	ne to avoid switch	crashing while processing the LLDP packets.

PR**188374**Build:6.4.6.222.R01Summary:duplicate line appear in boot.cfg file



Explanation: Changes done to prevent MIP overflow in Ethernet service and interfaces modules.

PR	<b>200684</b> Build: 6.4.6.223.R01	
Summary:	Link flapping noticed for the ports of OS6850E switches on NMS.	
Explanation:	Fix done to avoid high CPU in SAA	
PR	<b>199642</b> Build: 6.4.6.224.R01	
Summary:	OS9702E crashed when issued slcDumpEvtLog and crash reasor	Exception in
Explanation:	interrupt context Fix done to avoid the crash while dumping the "slcDumpEvtLog" fro	m the dehall
PR	<b>198917</b> Build: 6.4.6.224.R01	
Summary:	high cpu noticed when we poll the device from OV	
Explanation:	Introduction of debug variable to control the healthMonDeviceTrap switch when CPU crosses threshold limits.	generated from
PR	<b>200234</b> Build: 6.4.6.226.R01	
Summary:	LLDP traps are generated by the 6850E switches	
Explanation:	Code changes have been done to avoid the traps which are genera processing Special LLDP packets.	ted by
PR	<b>201367</b> Build: 6.4.6.227.R01	
Summary:	PIM SM routing stops after reconvergence in STP ring	
Explanation:	Multicast Traffic loss during the STP convergence is fixed. Multicas movement from one port to another port will create a proper h/w en	
PR	<b>201241</b> Build: 6.4.6.228.R01	
Summary: Explanation:	OS6850E: Issue with ISSU upgrade from 6.4.6.167.R01 to 6.4.6.21 During ISSU takeover happens successfully.	8.R01.
PR	<b>198594</b> Build: 6.4.6.229.R01	
Summary:	Error while issuing "write-memory flash synchro" on stack of OS685	50E.
Explanation:	Set longCommandStatus as complete after auto sync.	
PR	<b>198572</b> Build: 6.4.6.230.R01	
Summary:	Error "ntpGetResponse: Error 4 (No data available), final pkt"	
Explanation:	Bug fix for NTP peer creation and deletion issue. On NTP peer defi association exists already with peer, remove this association and in active peering association with same peer. Also fixed the problem in deletion.	stead create an
PR	<b>199609</b> Build: 6.4.6.230.R01	
Summary:	OS6850E erp-ring <num> enable command missing after the reboo</num>	
Explanation:	erp-ring <num> enable command is exists after reload. No Error wil boot.cfg.err file</num>	l be thrown in
PR	<b>199127</b> Build: 6.4.6.231.R01	
Summary:	DHCP relay issue on MC-LAG with multi-net configuration.	
Explanation:	Relay agent takes the primary vip-address IP configured to the Vlar	۱.
PR	<b>198473</b> Build: 6.4.6.231.R01	
Summary:	High Memory utilization seen on OS9000E with slcMsgHandler task	c holding the
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Explanation:			allocated memory and added the debug to trace the locating and freeing.
PR Summary: Explanation:		has been done	6.4.6.232.R01 neering needed due to issue faced under PR 190033 to reconnect the socket in case of broken pipe
PR Summary: Explanation:			6.4.6.233.R01 CS server status in the Omni switch. s will be logged in swlog
PR Summary: Explanation:			6.4.6.233.R01 /N, Excessive wait for Takeover Ack" and " NI takeover timeout properly for primary NI.
PR Summary: Explanation:	2014-9296 CV Code changes	E-2013-5211 done to fix NTF	6.4.6.238.R01 -2014-9293 CVE-2014-9294 CVE-2014-9295 CVE- P vulnerabilities CVE-2014-9295 & CVE-2013-5211. 14-9293,CVE-2014-9294,CVE-2014-9296) do not
PR Summary: Explanation:			6.4.6.241.R01 /E-2014-3571 CVE-2015-0206 CVE-2014-3571 CVE-2015-0206.
PR Summary: Explanation:			6.4.6.249.R01 now power shows AC instead of DC supply pe display issue
PR Summary: Explanation:		Build: H CPU_IPMEM i ipmem due to t	
PR Summary: Explanation:	Fix done to av		6.4.6.251.R01 ndom clients d SL table mismatch in case of client is getting moved nd vice versa with the same vlan.
PR Summary: Explanation:	Fix done to av	oid the onex and	6.4.6.251.R01 flushing MAC in all VLANs when using 802.1x d SL table mismatch in case of client is getting moved nd again non-supplicant with diff vlan on diff ports
PR Summary: Explanation:			6.4.6.251.R01 ng configuration gresing out of uni port acrsossNi will not be losing
PR	203221	Build:	6.4.6.258.R01
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Summary:Radius Accounting Interim updates is not sent in irregular intervals.Explanation:Code changes done to send the radius accounting packets properly for all clients.

PR Summon //	<b>203222</b> Build: 6.4.6.258.R01				
Summary: Explanation:	802.1x table entry is not deleted though MAC entry is deleted. Fix to remove non-supplicant captive portal entry on timer expiry				
	The to remove non-supplicant supplication portal entry on amore expiry				
PR	<b>204275</b> Build: 6.4.6.260.R01				
Summary:	Multicast stream not forwarded after the firewall fail-over / Source Failover				
Explanation:	Ensure multicast forwarding when source moves from agg to normal				
PR Summary:	<b>203577</b> Build: 6.4.6.261.R01 Secondary unit of a stack is rebooting after a hard takeover.				
Explanation:	Fix the flash sync flags between primary and secondary unit				
PR	<b>202351</b> Build: 6.4.6.262.R01				
Summary:	OS6400 crash with 'memPartAlloc: block too big - 4136 in partition 0x5622c4'				
Explanation:	messages Code change done to fix high memory issue in taSTP task				
	Code change done to fix high memory issue in tast P task				
PR	<b>204890</b> Build: 6.4.6.265.R01				
Summary:	Ipv4 multicast traffic not forwarding after toggling static linkagg				
Explanation:	Ensure multicast forwarding by updating L2MC bitmap when source movement				
	from or to LINKAGG				
PR	<b>205339</b> Build: 6.4.6.268.R01				
Summary:	Unable to enable the loopback detection on the slot number 9 to 16				
Explanation:	Enable the loopback detection configuration on the slot number 9 to 16				
PR	<b>188382</b> Build: 6.4.6.224.R01				
Summary:	Detach in HW in not re initializing the NI properly after a crash, vlan port bitmap is				
Explanation:	missing, beca Ni re-initialization is handled properly after a sudden crash .				
PR	<b>201948</b> Build: 6.4.6.251.R01				
Summary:	MAC address learnt through 802.1x state is Captive-portal CP In-Progress.				
Explanation:	Fix the mac-address table inconsistency after continuous mac move				
	<b>198841</b> Build: 6.4.6.238.R01				
PR	<b>198841</b> Build: 6.4.6.238.R01 BGP route for multi-hop neighbor learnt correctly but IPRM shows incorrect				
Summary:	gateway for this route.				
Explanation:	BGP route for multi-hop neighbor learnt correctly and IPRM shows correct gateway				
	for this route.				
PR	<b>202046</b> Build: 6.4.6.238.R01				
	NTPD Vulnerability: ntpd version 4.2.7 and previous versions allow attackers to				
Summary:	overflow several bu				
Explanation:	Code changes done to fix NTP vulnerabilities CVE-2014-9295 & CVE-2013-5211.				
	Other vulnerabilities do not affect AOS.				
PR	<b>198350</b> Build: 6.4.6.232.R01				
Summary:	High CPU noticed in UNIT 1 in the stack of 5 switches due to the task UdpRly				
	-				



Explanation:	Code change dhcp packet.		o check the interface status before processing the			
PR	197294	Build:	6.4.6.229.R01			
Summary:	OS6850 cras	hed with Memory	dump file			
Explanation:	Code change	Code change to avoid NULL pointer access.				
PR	198586	Build:	6.4.6.224.R01			
Summary:	OpenSSH ve	rsion upgrade qu	ery. OS6850E.			
Explanation:	CVE-2010-51 5.0	07, CVE-2011-50	000, CVE-2010-4755 : Vulnerabilities for OpenSSH			
PR	198819	Build:	6.4.6.222.R01			
Summary:	MAC address learnt through 802.1x state is Captive-portal CP In-Progress.					
Explanation:	Fix done to synchronize the onex and mac table during mac move on different ports with different vlan.					
PR	203508	Build:	6.4.6.266.R01			
Summary:	I2 C error me	ssages seen in C	DS 6855 switch			
Explanation:		by increase the re	ead delay incrementally in steps when temperature			

## Known Issues:

PR	202480
Summary:	Need to bypass the authentication for a server when user is in restricted role
Explanation:	Implementation of Byod White-list Ip-address

### **New Features:**

### **1. Configuration File Management**

#### Hosted AOS SW Release: 6.4.6.167.R01

#### Introduction:

The configuration file management feature is to modify the configuration file label corresponding to the directory it resides, without affecting any functionality. Earlier when configuration file is retrieved from working and certified directories of Omni switch, they all have the same label as in old directory in the beginning of file regardless if you retrieve the file in working or certified directory. So after retrieving, it's difficult to find from where the configuration file belongs. The operations of existing configuration file management system:

While performing certify and/or synchronization or restoration process in Omni switch the configuration file of source directory will be copied to the destination directory based on the below conditions.

- a) If the configuration file doesn't exist in the destination directory.
- b) The file exists but differs in size and/or time stamp.



If any of the above condition is true, the configuration file will be copied to the destination directory and the timestamp of source directory configuration file will be re-applied on the copied configuration file in destination directory.

After the source configuration file contents copied to destination configuration file, the label in destination configuration file will be modified and the time stamps of source configuration file will be re applied.

#### Platforms Supported:

Omni Switch 6850E Omni Switch 6855 Omni Switch 9000E

#### **Command Usage:**

While executing the commands in the below table configuration file header should be updated showing the directory it is located and re-apply the source directory configuration file timestamp.

Command	Process Involved
copy working certified	certify process
copy flash-synchro	certify and flash synchronization
copy working certified flash-synchro	certify and flash synchronization
write memory flash-synchro	Save configuration, certify and flash synchronization
copy certified working	Restoring process
show running-directory	Synchronization status

Table 1 - Commands involved in verifying the implementation

#### **Expected Outcome:**

After issuing certify/synchronization commands mentioned in table 1, the process should complete without any errors and the label inside the boot.cfg file of certified directory should contain certified directory in the label.

Sample output:

!======================================	==!
! File: /flash/working/boot.cfg	!
!	1

After issuing commands for restoring the files (mentioned in table 1), the process should complete without any errors and the label inside the boot.cfg file of working directory should be remain unchanged.

Sample output:

!======================================	======!
! File: /flash/certified/boot.cfg	!
!======================================	======!



There should not be any functional impact on existing synchronization status determining logic.

Sample output:

Topo(A1)_DUT1 >> show running-directory		
CONFIGURATION STATUS		
Running CMM	: PRIMARY,	
CMM Mode	: DUAL CMMs,	
Current CMM Slot	: 1,	
Running configuration	: WORKING,	
	: CERTIFIED	
SYNCHRONIZATION STATUS	S	
Flash Between CMMs	: SYNCHRONIZED,	
Running Configuration	: SYNCHRONIZED,	
Stacks Reload on Takeover	: PRIMARY ONLY	

#### Limitations:

None

#### 2. Multicast Dynamic Control (MDC)

Platforms: OS6850E, OS6855-U24X, OS9E

#### Hosted AOS SW Release: 6.4.6.218.R01

In AOS, IPv4 and IPv6 multicast protocols are by default always copied to CPU. The high CPU usually impacts the normal operations of the Omni Switch protocols such as LACP, ERP.

In Order to resolve this high CPU issue, this feature is introduced to control the processing of the IPv4 multicast protocols.

The processing of all IPv6 multicast protocols is globally controlled by the presence of an IPv6 Interface.

- No IPv6 interface configured
  - All protocols in the ff02:0::/32 range are transparently forwarded and not copied to CPU.
- At least one IPv6 interface configured

All protocol packets in the ff02:0::/32 range are copied to CPU on all vlans irrespective on which vlan IPV6 interface is enabled.

IGMP packets are copied to CPU based on the global ipms status. When IPMS is globally enabled, IGMP packets are copied to CPU. When IPMS is globally disabled, IGMP packets are not copied to CPU.

MLD packets are copied to CPU based on the global ipms status. When IPMS is globally enabled, MLD packets are copied to CPU. When IPMS is globally disabled, MLD packets are not copied to CPU.

#### Command Usage:

1. To enable/disable global multicast dynamic-control status ip multicast dynamic-control status [{enable|disable}]



*Guidelines:* By default this status is disabled. If it is enabled, IPv4 multicast well-known protocol packets alone will be trapped to CPU and the other multicast packets will be dropped. Well-known IPv4 protocols are given below in Note section

2. To enable/disable multicast dynamic-control drop-all status ip multicast dynamic-control drop-all status [{enable|disable}]

*Guidelines:* By default this status is disabled. If it is enabled, all ipv4 multicast packets including ipv4 multicast well-known protocol packets will be dropped.

Note:

- Drop-all status can be enabled only after enabling global dynamic control status.
- Below are the well-known IPv4 multicast protocol packets,

OSPF:	224.0.0.5/32 + IP protocol 89
OSPF:	224.0.0.6/32 + IP protocol 89
VRRP:	224.0.0.18/32 + IP protocol 112
RIPv2:	224.0.0.9 + UDP port 520
PIM:	224.0.0.13/32
DVMRP:	224.0.0.4/32

#### **Examples**

ip multicast dynamic-control status enable ip multicast dynamic-control status disable

ip multicast dynamic-control drop-all status enable ip multicast dynamic-control drop-all status disable ip multicast status enable ip multicast status disable ipv6 multicast status enable ipv6 multicast status disable

->show ip multicast		
Status	= enabled,	
Querying	= enabled,	
Proxying	= disabled,	
Spoofing	= disabled,	
Zapping	= disabled,	
Querier Forwarding	= disabled,	
Flood Unknown	= disabled,	
Dynamic control status	= disabled,	
Dynamic control drop-all status	= disabled,	
Buffer Packet	= disabled,	
Version	= 2,	
Robustness	= 7,	
Query Interval (seconds)	= 125,	
Query Response Interval (tenths of seconds) = 100,		
Last Member Query Interval (tenths of seconds) = $10$ ,		
Unsolicited Report Interval (sec	,	
Router Timeout (seconds)	= 90,	
Source Timeout (seconds)	= 30,	
Max-group	= 0,	
Max-group action	= none	
Helper-address	= 0.0.0.0	

->show configuration snapshot ipms



! IPMS :

ip multicast dynamic-control status enable ip multicast dynamic-control drop-all status enable

#### Limitations

- The proposed solution does not address the DOS attack concern
- Injecting a high rate of well-known protocol on a port will still cause a high CPU.
- Dynamic-Control "drop-all" feature should not be enabled if a routing protocol or VRRP is configured on the Omni-Switch as protocol packet will be dropped.

#### 3. DHCP SERVER PER VRF

Platforms: OS6850E, OS6855-U24X, OS9E

#### Hosted AOS SW Release: 6.4.6.218.R01

The internal DHCP server was initially only supported on the default VRF. Now, the internal DHCP server can be supported on multiple VRFs, including the default VRF. The switch still supports a single instance for the internal DHCP server that is unaware of the VRFs. This means the DHCP scopes are common for all VRFs. A new command is implemented to configure the VRFs on which the internal DHCP server is active, also giving flexibility to include or exclude the default VRF.

By default, the internal DHCP server is only active on the default VRF.

#### **Command Usage**

1. To enable/disable/restart internal DHCP server

-> dhcp-server {enable | disable | restart}

#### Guidelines

This command controls the single internal DHCP server instance and impacts all configured VRFs.

2. To include a given VRF in the internal DHCP server

-> dhcp-server vrf {default | vrfname}

#### Guidelines

The command checks the given VRF name exists.

To add multiple VRFs, invoke the command for each VRF.

The command "dhcp-server vrf default" is optional as the internal DHCP server is by default active on the default VRF.

3. To exclude a given VRF from the internal DHCP server

-> dhcp-server no vrf {default |vrfname}

#### Guidelines

To add multiple VRFs, invoke the command for each VRF.

4. To display the configuration of Internal DHCP Server.

-> show dhcp-server config

#### Guidelines

The command displays:

- The global status of the internal DHCP server
- The list of VRFs on which the internal DHCP server is active

### Examples



Enable Internal DHCP Server on Default VRF -> dhcp-server enable -> show dhcp-server config **DHCP-SERVER Status : Enabled** : default VRF Note: When DHCP server is disabled, the default VRF is not displayed. This will be displayed only if default VRF is explicitly configured -> dhcp-server disable -> show dhcp-server config **DHCP-SERVER Status : Disabled** VRF -> dhcp-server vrf default -> show dhcp-server config **DHCP-SERVER Status : Enabled** VRF : default Enable Internal DHCP Server on VRF "default" and "abc" -> vrf abc -> dhcp-server vrf abc -> dhcp-server enable -> show dhcp-server config **DHCP-SERVER Status : Enabled** VRF : default .abc Enable Internal DHCP Server on VRF "default", "abc" and "xyz" -> vrf abc -> vrf xyz -> dhcp-server vrf abc -> dhcp-server vrf xyz -> dhcp-server enable -> show dhcp-server config **DHCP-SERVER Status : Enabled** VRF : default ,abc ,xyz Enable Internal DHCP Server on VRF "abc" only -> vrf abc -> vrf xyz -> dhcp-server vrf abc -> dhcp-server no vrf default -> dhcp-server enable -> show dhcp-server config DHCP-SERVER Status : Enabled VRF : abc Limitations The MAX\_VRF count supported on hardware dictates the choice of VRF on which the Internal DHCP

 Server can be activated.
 Enabling Internal DHCP Server on VRF <vrfname> takes precedence over DHCP relay and hence DHCP relay would not work this VRF



#### 4. DHCP Snooping Global Mode

Platforms: OS6850E, OS6855, OS9000E

#### Hosted AOS SW Release: 646.278.R01

In order to have the DHCP snooping feature operational, the hardware must first identify DHCP packet and trap such packet to CPU for software processing.

- Currently, the hardware identifies a DHCP packet as follow:
  Source UDP port = 67 and Destination UDP port = 68 Or
  - Source UDP port = 68 and Destination UDP port = 67

These hardware settings are optimized for all the DHCP snooping use cases, and have the property that any DHCP transactions between a Relay Agent Router and the DHCP Server using a source and destination UDP port 67 are transparently forwarded by hardware. This allows a L2 switch or L3 router in the path between the Relay Agent Router and the DHCP server to be configured with DHCP snooping and still forward the DHCP Relay message.

However, these settings do not allow the detection of a DHCP rogue server that may be connected on a DHCP snooping switch in the path between the Relay Agent Router and the actual DHCP server. One important function of the DHCP snooping feature is to discard DHCP Reply received on client ports. In this specific case, the rogue DHCP server will reply with both source and destination UDP port 67 to the Relay Agent and Reply will be transparently forwarded by hardware.

In this new AOS release, a new hardware mode is configurable to also identify DHCP packet with source and destination UDP port 67.

This is only configurable with a debug variable "debug set udpGblSbuturn 3" in the AlcatelDebug.cfg. In this mode, DHCP packet with source and destination UDP port 67 will be processed by software and bridged or routed accordingly.

#### Usage:

In AlcatelDebug.cfg debug set udpGblSbUturn { 0 | 3}

#### **Recommendation:**

It is still recommended to only use the default mode (udpGblSbUturn=0) as the new mode will add extra load on the system as all DHCP packets will be processed.

As workaround for the rogue DHCP rogue server issue, it is recommended to use the "qos user-port filter dhcp-server" or "qos user-port shutdown dhcp-server" feature to protect the switch against DHCP reply on the ports configured on the "qos port group UserPorts"

Limitations:

None

#### 5. SSH PORT

Platforms: OS6850E, OS9000E, OS6855

#### Hosted AOS SW Release: 646.278.R01

In the existing implementation, AOS uses the default SSH TCP port (port 22) to establish an SSH session.



With the new implementation, when the user configures the TCP port number for SSH session, it will be saved in the switch file "/flash/network/sshConfig.cfg". In order to use the configured port number while establishing the SSH session, the switch must be rebooted.

While the switch boots up, if the file "/flash/network/sshConfig.cfg" exists, it will be parsed to read the TCP port number that should be used to establish the SSH session, otherwise the default SSH TCP port shall be used.

#### Usage

Command to configure TCP-PORT number for establishing SSH Session.

ssh tcp-port <port-number>

<port-number >in the range 0-65535

**Example:** ssh tcp-port 35

Note: Well-known reserved TCP port numbers and the IP ports which are internally used in AOS are excluded in assigning to SSH TCP port.

#### Limitations

- Switch must be rebooted after configuring the TCP port number so as to use the configured TCP port number when establishing SSH sessions.
- Well-known reserved TCP port numbers(ports 20,21,23,25,69,80,161,389,443) and the IP ports which are internally used(defined in system\_ipport.sh) are excluded in assigning to SSH TCP port. Error will be thrown when these ports are tried to be configured for SSH port.

### **New Hardware:**

#### 1. Dual-Speed Ethernet Transceivers

#### Platforms: OS6850E,OS9700E

Dual speed SFP optical transceiver with following specifications tested for support.

#### SFP-DUAL-MM

Dual-Speed SFP Optical Transceiver.

Connector	Type LC
Standards Supported	802.3z, 802.3ah, SFP MSA
Connections Supported	100Base-FX, 1000Base-LX
Fiber Type	MMF



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Wavelength	1310 nm
Average Power Output	100Base-FX: -20 to -14 dBm 1000Base-LX: -11.5 to -3 dBm
Receiver Sensitivity	100Base-FX: -28 dBm 1000Base-LX: -22 dBm
Transmission Distance	550 m at 1000 Mbps 2 km at 100 Mbps
Operating Temperature	0°C to 70°C

Digital Diagnostic Monitoring Not Supported

