

Arista Networks EOS 4.23.1.1F Release Notes

Version: 1.0

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Table of Contents

EOS 4.23.1.1F Release Highlights

New Platforms and Hardware

SNMP MIBs

SNMP Traps

Supported Hardware

Reference to MLAG ISSU Upgrade/Downgrade Table

Known Software Caveats in 4.23.1.1F

Accelerated System Update

BGP EVPN L2/L3 VXLAN/MPLS

Containerized EOS

CVP

Network Provisioning

CVX

General

Layer 1

Layer 2

Layer 3

Multi-agent

Rib

MLAG

MPLS

Multicast

vEOS Router / CloudEOS

DCS-7150 Series

DCS-7170 Series

DCS-7170 Series

CCS-720XP Series

DCS-7160, DCS-7170, DCS-7280R and DCS-7280R2 Series

7368, DCS-7300X and DCS-7500R Series

CCS-720XP Series

DCS-7020, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500E,
DCS-7500R, DCS-7500R2 and DCS-7500R3 Series

DCS-7500E Series

DCS-7280R and DCS-7500R Series

DCS-7280R2 and DCS-7500R2 Series

DCS-7280R3 and DCS-7500R3 Series

DCS-7020 Series

DCS-7500R3 Series

DCS-7020R, DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series

DCS-7280R3, DCS-7500R3 and DCS-7800R3 Series

DCS-7280R and DCS-7280R2 Series

7300X3, 7320X, 7368, CCS-720XP, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3,
DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3 and
DCS-7300X Series

DCS-7010 Series

7320X, DCS-7060X and DCS-7260X Series

DCS-7260X3 Series

7368 and DCS-7060X4 Series

DCS-7050X, DCS-7250X and DCS-7300X Series

DCS-7050X2 Series

Transceiver Series

7300X3, CCS-720XP and DCS-7050X3 Series

DCS-7160 Series

Limitations and Restrictions in 4.23.1.1F

Accelerated System Update

BGP EVPN L2/L3 VXLAN/MPLS

CVX

General

Layer 1

Layer 2

Layer 3

Multi-agent

Rib

MLAG

MPLS

Multicast

vEOS Router / CloudEOS

DCS-7150 Series

DCS-7170 Series

DCS-7170 Series

CCS-720XP Series

DCS-7160, DCS-7170, DCS-7280R and DCS-7280R2 Series

7368, DCS-7300X and DCS-7500R Series

CCS-720XP Series

DCS-7020, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500E,
DCS-7500R, DCS-7500R2 and DCS-7500R3 Series

DCS-7500E Series

DCS-7280R and DCS-7500R Series

DCS-7280R3 and DCS-7500R3 Series

DCS-7020 Series

DCS-7280R and DCS-7280R2 Series

7300X3, 7320X, 7368, CCS-720XP, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3,
DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3 and
DCS-7300X Series

DCS-7010 Series

7320X, DCS-7060X and DCS-7260X Series

DCS-7260X3 Series

7368 and DCS-7060X4 Series

DCS-7050X, DCS-7250X and DCS-7300X Series

DCS-7050X2 Series

Transceiver Series

7300X3, CCS-720XP and DCS-7050X3 Series

DCS-7160 Series

Conditions and Impacts

EOS 4.23.1.1F Release Highlights

New Platforms and Hardware

- None

SNMP MIBs

- SNMPv2, SNMPv3
- RFC 3635 EtherLike-MIB
 - obsoletes RFCs 1650, 2358, 2665
- RFC 3418 SNMPv2-MIB
 - obsoletes RFCs 1450, 1907
- RFC 2863 IF-MIB
 - obsoletes RFCs 1229, 1573, 2233
- RFC 2864 IF-INVERTED-STACK-MIB
- RFC 4292 IP-FORWARD-MIB
 - obsoletes RFC 1354
- ARISTA-SW-IP-FORWARD-MIB
 - IPv4 only
- RFC 4363 Q-BRIDGE-MIB
- RFC 4188 BRIDGE-MIB
- ARISTA-BRIDGE-EXT-MIB
- RFC 4113 UDP-MIB
 - obsoletes RFC 1213
- RFC 4022 TCP-MIB
 - obsoletes RFC 1213
- RFC 4293 IP-MIB
 - obsoletes RFC 1213
- HOST-RESOURCES-MIB
- LLDP-MIB
- LLDP-EXT-DOT1-MIB
- LLDP-EXT-DOT3-MIB
- ENTITY-MIB
- ENTITY-SENSOR-MIB
- ENTITY-STATE-MIB
- RMON-MIB
 - rmonEtherStatsGroup
- RMON2-MIB
 - rmon1EthernetEnhancementGroup
- HC-RMON-MIB
 - etherStatsHighCapacityGroup
- RFC 3636 MAU-MIB
 - ifMauDefaultType and ifMauAutoNegStatus are writeable

- SNMP-TLS-TM-MIB
 - RFC 6353
- SNMP-TSM-MIB
 - RFC 5591
- ARISTA-ACL-MIB
- ARISTA-SNMP-TRANSPORTS-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-SMI-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-PRODUCTS-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-QUEUE-MIB
 - Excluding 7150
- RFC 4273 BGP4-MIB
- RFC 4750 OSPF-MIB
- ARISTA-CONFIG-COPY-MIB
- ARISTA-CONFIG-MAN-MIB
- ARISTA-REDUNDANCY-MIB
 - 7500R, 7500E, 7300X, 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- MSDP-MIB
- PIM-MIB
- IGMP-MIB
- IPMROUTE-STD-MIB
- VRRPV2-MIB
- ARISTA-QOS-MIB
- ARISTA-ENTITY-SENSOR-MIB
- ARISTA-BGP4V2-MIB
- ARISTA-VRF-MIB
- ARISTA-DAEMON-MIB
- ARISTA-IF-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-MAU-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-PFC-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-FIB-STATS-MIB
- ARISTA-GENERAL-MIB
- ARISTA-HARDWARE-UTILIZATION-MIB
- ARISTA-NEXTHOP-GROUP-MIB
- ARISTA-SW-IP-FORWARDING-MIB
- ARISTA-TEST-MIB
- ARISTA-XCVR-DWDM-MIB
- ARISTA-XGS-MIB
- IEEE8021-PFC-MIB
- IEEE8023-LAG-MIB
- MPLS-LDP-STD-MIB
- NOTIFICATION-LOG-MIB

- OSPF-TRAP-MIB
- OSPFV3-MIB
- PTPBASE-MIB

SNMP Traps

- RFC 2863 IF-MIB
 - linkUp, linkDown
- LLDP-MIB
 - lldpRemTablesChange
- RFC 3418 SNMPv2-MIB
 - coldStart
- NET-SNMP-AGENT-MIB
 - nsNotifyRestart
- ENTITY-MIB
 - entConfigChange
- ENTITY-STATE-MIB
 - entStateOperEnabled, entStateOperDisabled
- OSPF-MIB
 - ospfNbrStateChange, ospfIfConfigError, ospfIfAuthFailure, ospfIfStateChange
- BGP4-MIB
 - bgpEstablished, bgpBackwardTransition
- ARISTA-REDUNDANCY-MIB
 - aristaRedundancySwitchOverNotif only for: 7500R, 7500E, 7300X, 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-CONFIG-MAN-MIB
 - aristaConfigManEvent
- SNMPv2-MIB
 - authenticationFailure
- VRRPv2-MIB
 - vrrpTrapNewMaster
- MPLS-LDP-STD-MIB
 - mplsLdpSessionUp, mplsLdpSessionDown
- MSDP-MIB
 - msdpEstablished, msdpBackwardTransition
- PIM-MIB
 - pimNeighborLoss
- ARISTA-BRIDGE-EXT-MIB
 - aristaMacMove, aristaMacLearn, aristaMacAge

Supported Hardware

Fixed System

- | | | |
|-------------------|-----------------------|-----------------------|
| • DCS-7150S-24-CL | • DCS-7280SR-48C6-F | • DCS-7050SX-64-R |
| • DCS-7150S-24 | • DCS-7280SR-48C6-M-F | • DCS-7050SX-64-SSD-F |

- DCS-7150S-24-CL-F
- DCS-7150S-24-CL-R
- DCS-7150S-24-CL-SSD-F
- DCS-7150S-24-F
- DCS-7150S-24-R
- DCS-7150S-24-CL-SSD-R
- DCS-7150S-52-CL
- DCS-7150S-52-CL-F
- DCS-7150S-52-CL-R
- DCS-7150S-52-CL-SSD-F
- DCS-7150S-52-CL-SSD-R
- DCS-7150S-64-CL
- DCS-7150S-64-CL-F
- DCS-7150S-64-CL-R
- DCS-7150S-64-CL-SSD-F
- DCS-7150S-64-CL-SSD-R
- DCS-7150SC-24-CLD
- DCS-7150SC-24-CLD-F
- DCS-7150SC-24-CLD-R
- DCS-7150SC-64-CLD
- DCS-7150SC-64-CLD-F
- DCS-7150SC-64-CLD-R
- DCS-7170-64C
- DCS-7170-64C-F
- DCS-7170-64C-R
- DCS-7170-32C
- DCS-7170-32C-F
- DCS-7170-32C-M-F
- DCS-7170-32C-M-R
- DCS-7170-32C-R
- DCS-7170-64C-M-F
- DCS-7170-64C-M-R
- DCS-7170-32CD
- DCS-7170-32CD-F
- DCS-7170-32CD-R
- PWR-1100AC
- PWR-1100AC-F
- PWR-1100AC-R
- PWR-750AC
- PWR-750AC-F
- PWR-750AC-R
- PWR-500-DC
- PWR-500-DC-F
- PWR-500-DC-R
- PWR-500AC
- PWR-500AC-F
- PWR-500AC-R
- DCS-7280SR-48C6-M-R
- DCS-7280SR-48C6-R
- DCS-7280TR-48C6-R
- DCS-7280TR-48C6-F
- DCS-7280TR-48C6-M-F
- DCS-7280TR-48C6-M-R
- DCS-7280QR-C72
- DCS-7280QR-C72-F
- DCS-7280QR-C72-M-F
- DCS-7280QR-C72-M-R
- DCS-7280QR-C72-R
- DCS-7280SR2-48YC6
- DCS-7280SR2-48YC6-F
- DCS-7280SR2-48YC6-M-F
- DCS-7280SR2-48YC6-M-R
- DCS-7280SR2-48YC6-R
- DCS-7020TR-48
- DCS-7020TR-48-F
- DCS-7020TR-48-R
- DCS-7280QRA-C36S-F
- DCS-7280QRA-C36S-R
- DCS-7280SR2A-48YC6
- DCS-7280SR2A-48YC6-F
- DCS-7280SR2A-48YC6-M-F
- DCS-7280SR2A-48YC6-M-R
- DCS-7280SR2A-48YC6-R
- DCS-7280SRA-48C6
- DCS-7280SRA-48C6-F
- DCS-7280SRA-48C6-M-F
- DCS-7280SRA-48C6-M-R
- DCS-7280SRA-48C6-R
- DCS-7280TRA-48C6
- DCS-7280TRA-48C6-F
- DCS-7280TRA-48C6-M-F
- DCS-7280TRA-48C6-M-R
- DCS-7280TRA-48C6-R
- DCS-7020TRA-48
- DCS-7020TRA-48-F
- DCS-7020TRA-48-R
- DCS-7280CR2A-60
- DCS-7280CR2A-60-F
- DCS-7280CR2K-60
- DCS-7280CR2K-60-F
- DCS-7280SRAM-48C6
- DCS-7280SRAM-48C6-F
- DCS-7280SRAM-48C6-R
- DCS-7280CR2-60
- DCS-7050SX-64-SSD-R
- DCS-7050TX-128-F
- DCS-7050TX-128-R
- DCS-7050TX-48
- DCS-7050TX-48-F
- DCS-7050TX-48-R
- DCS-7050TX-48-SSD-F
- DCS-7050TX-48-SSD-R
- DCS-7050TX-64
- DCS-7050TX-64-F
- DCS-7050TX-64-R
- DCS-7050TX-64-SSD-F
- DCS-7050TX-64-SSD-R
- DCS-7050TX-72-SSD-F
- DCS-7050TX-72-SSD-R
- DCS-7050TX-96-SSD-F
- DCS-7050TX-96-SSD-R
- DCS-7010T-48
- DCS-7010T-48-F
- DCS-7010T-48-R
- DCS-7050SX-72
- DCS-7050SX-72-F
- DCS-7050SX-72-R
- DCS-7050SX-72-SSD-F
- DCS-7050SX-72-SSD-R
- DCS-7050SX-96
- DCS-7050SX-96-F
- DCS-7050SX-96-R
- DCS-7050SX-96-SSD-F
- DCS-7050SX-96-SSD-R
- DCS-7050TX-128-SSD-F
- DCS-7050TX-128-SSD-R
- DCS-7050TX-72-F
- DCS-7050TX-72-R
- DCS-7050TX-96-F
- DCS-7050TX-96-R
- DCS-7010T-48-DC
- DCS-7010T-48-DC-F
- DCS-7010T-48-DC-R
- DCS-7260QX-64
- DCS-7260QX-64-F
- DCS-7260QX-64-R
- DCS-7260QX-64-SSD-F
- DCS-7260QX-64-SSD-R
- DCS-7050SX-72Q
- DCS-7050SX-72Q-F
- DCS-7050SX-72Q-R

- PWR-745AC
- PWR-745AC-F
- PWR-745AC-R
- FAN-7010
- PWR-1900-DC
- PWR-1900-DC-F
- PWR-1900-DC-R
- PWR-1900AC
- PWR-1900AC-F
- PWR-1900AC-R
- PWR-747AC
- PWR-747AC-F
- PWR-747AC-R
- FAN-7002H-R
- FAN-7000H-R
- PWR-1600AC
- PWR-1600AC-F
- FAN-7001D
- FAN-7001D-F
- FAN-7001C
- FAN-7001C-F
- PWR-400AC-BLUE
- FAN-7011M
- FAN-7011M-F
- FAN-7011M-R
- PWR-1021-AC-RED
- PWR-511-AC-BLUE
- PWR-511-AC-RED
- PWR-621-AC-RED
- PWR-400AC-RED
- FAN-7001DH
- FAN-7001DH-F
- PWR-1611-AC-RED
- PWR-1611-DC-RED
- FAN-7011H
- FAN-7011H-F
- FAN-7011H-R
- PWR-511-DC-BLUE
- PWR-511-DC-RED
- PWR-1511-AC-BLUE
- PWR-1511-AC-RED
- PWR-1511-DC-BLUE
- PWR-1511-DC-RED
- PWR-1011-AC-RED
- PWR-621-AC-BLUE
- FAN-7000
- FAN-7000-F
- DCS-7280CR2-60-F
- DCS-7280CR2A-30
- DCS-7280CR2A-30-F
- DCS-7280CR2K-30
- DCS-7280CR2K-30-F
- DCS-7280QRA-C36S-M-F
- DCS-7280QRA-C36S-M-R
- DCS-7280SR2K-48C6
- DCS-7280SR2K-48C6-M-F
- DCS-7280SR2K-48C6-M-R
- DCS-7020SR-24C2
- DCS-7020SR-24C2-F
- DCS-7020SR-24C2-R
- DCS-7280CR2M-30
- DCS-7280CR2M-30-F
- DCS-7280SRM-40CX2
- DCS-7280SRM-40CX2-F
- DCS-7280SRM-40CX2-R
- DCS-7020SR-32C2-F
- DCS-7020SR-32C2-R
- DCS-7020SRG-24C2
- DCS-7020SRG-24C2-F
- DCS-7020SRG-24C2-R
- DCS-7280CR3-32P4
- DCS-7280CR3-32P4-F
- DCS-7280CR3-32P4-M-F
- DCS-7280CR3-32P4-M-R
- DCS-7280CR3-32P4-R
- DCS-7280CR3K-32P4
- DCS-7280CR3K-32P4-F
- DCS-7280CR3K-32P4-R
- DCS-7280CR3-32D4
- DCS-7280CR3-32D4-F
- DCS-7280CR3-32D4-M-F
- DCS-7280CR3-32D4-M-R
- DCS-7280CR3-32D4-R
- DCS-7280CR3K-32D4
- DCS-7280CR3K-32D4-F
- DCS-7280CR3K-32D4-R
- DCS-7280PR3-24
- DCS-7280PR3-24-F
- DCS-7280PR3-24-M-F
- DCS-7280PR3K-24
- DCS-7280PR3K-24-F
- DCS-7280DR3-24
- DCS-7280DR3-24-F
- DCS-7280DR3-24-M-F
- DCS-7050TX-72Q
- DCS-7050TX-72Q-F
- DCS-7050TX-72Q-R
- DCS-7050QX2-32S
- DCS-7050QX2-32S-F
- DCS-7050QX2-32S-R
- DCS-7050SX2-128
- DCS-7050SX2-128-F
- DCS-7050SX2-128-R
- DCS-7050TX2-128
- DCS-7050TX2-128-F
- DCS-7050TX2-128-R
- DCS-7050SX2-72Q
- DCS-7050SX2-72Q-F
- DCS-7050SX2-72Q-R
- DCS-7060CX-32S
- DCS-7060CX-32S-F
- DCS-7060CX-32S-R
- DCS-7060CX2-32S
- DCS-7060CX2-32S-F
- DCS-7060CX2-32S-R
- DCS-7260CX-64
- DCS-7260CX-64-F
- DCS-7260CX-64-R
- DCS-7260CX-64-SSD-F
- DCS-7260CX-64-SSD-R
- DCS-7060SX2-48YC6
- DCS-7060SX2-48YC6-F
- DCS-7060SX2-48YC6-R
- DCS-7260CX3-64
- DCS-7260CX3-64-F
- DCS-7260CX3-64-R
- DCS-7050CX3-32S
- DCS-7050CX3-32S-F
- DCS-7050CX3-32S-R
- DCS-7050SX3-48YC12
- DCS-7050SX3-48YC12-F
- CCS-720XP-24ZY4
- CCS-720XP-24ZY4-F
- CCS-720XP-48ZC2
- CCS-720XP-48ZC2-F
- DCS-7050SX3-48YC8
- DCS-7050SX3-48YC8-F
- DCS-7050SX3-48YC8-R
- DCS-7260CX3-64E
- DCS-7260CX3-64E-F
- DCS-7260CX3-64E-R

- FAN-7000-R
- PWR-460AC
- PWR-460AC-F
- PWR-460AC-R
- PWR-460DC
- PWR-460DC-F
- PWR-460DC-R
- DCS-7280TR-48C6
- DCS-7280QRA-C36S
- DCS-7020SR-32C2
- DCS-7280SE-64
- DCS-7280SE-64-F
- DCS-7280SE-64-R
- DCS-7280SE-72
- DCS-7280SE-72-F
- DCS-7280SE-72-R
- DCS-7280SE-68
- DCS-7280SE-68-F
- DCS-7280SE-68-R
- DCS-7280CR-48
- DCS-7280CR-48-F
- DCS-7280QR-C36
- DCS-7280QR-C36-F
- DCS-7280QR-C36-M-F
- DCS-7280QR-C36-M-R
- DCS-7280QR-C36-R
- DCS-7280SR-48C6
- DCS-7050TX-128
- DCS-7050TX-72
- DCS-7050TX-96
- CCS-720XP-24Y6
- CCS-720XP-48Y6
- DCS-7050SX-128
- DCS-7050SX-128-F
- DCS-7050SX-128-R
- DCS-7050SX-128-SSD-F
- DCS-7050SX-128-SSD-R
- DCS-7250QX-64
- DCS-7250QX-64-F
- DCS-7250QX-64-R
- DCS-7250QX-64-SSD-F
- DCS-7250QX-64-SSD-R
- DCS-7050QX-32
- DCS-7050QX-32-F
- DCS-7050QX-32-R
- DCS-7050QX-32-SSD-F
- DCS-7050QX-32-SSD-R
- DCS-7050QX-32S
- DCS-7050QX-32S-F
- DCS-7050QX-32S-R
- DCS-7050QX-32S-SSD-F
- DCS-7050QX-32S-SSD-R
- DCS-7050SX-64
- DCS-7050SX-64-F
- DCS-7060DX4-32
- DCS-7060DX4-32-F
- DCS-7060PX4-32
- DCS-7060PX4-32-F
- CCS-720XP-24Y6-F
- CCS-720XP-48Y6-F
- DCS-7050CX3M-32S
- DCS-7050CX3M-32S-F
- DCS-7050CX3M-32S-R
- CCS-720XP-24Y6-R
- CCS-720XP-48Y6-R
- DCS-7160-32CQ
- DCS-7160-32CQ-F
- DCS-7160-32CQ-R
- DCS-7160-48YC6
- DCS-7160-48YC6-F
- DCS-7160-48YC6-R
- DCS-7160-48TC6
- DCS-7160-48TC6-F
- DCS-7160-48TC6-R
- FAN-7002
- FAN-7002-F
- FAN-7002-R
- FAN-7002H
- FAN-7002H-F
- FAN-7000H
- FAN-7000H-F

Modular

- FAN-7002
- FAN-7002-F
- FAN-7002-R
- FAN-7002H
- FAN-7002H-F
- FAN-7000H
- FAN-7000H-F
- PWR-3K-AC
- PWR-3K-AC-F
- PWR-3K-AC-R
- PWR-2700-DC
- PWR-2700-DC-F
- PWR-2700-DC-R
- PWR-3K-DC-BLUE
- PWR-3K-DC-RED
- PWR-3KT-AC-BLUE
- PWR-3KT-AC-RED
- 7500E-48T-LC
- 7500E-12CQ-LC
- DCS-7508N
- 7500E-6CFPX-LC
- DCS-7500-SUP2
- DCS-7500-SUP2-D
- 7500R-36CQ-LC
- 7500R-36Q-LC
- 7500R-48S2CQ-LC
- 7504R-FM
- 7508R-FM
- 7512R-FM
- DCS-7512N
- 7500RM-36CQ-LC
- 7500R-8CFPX-LC
- 7500R2-18CQ-LC
- 7500R2-36CQ-LC
- 7508R3-FM
- 7500R3K-36CQ-LC
- 7500R3-24P-LC
- DCS-7508
- DCS-7504
- 7300-SUP
- 7300-SUP-D
- 7300X-32Q-LC
- 7300X-64S-LC
- 7300X-64T-LC
- 7304X-FM
- 7308X-FM
- DCS-7304
- DCS-7308
- 7316X-FM
- DCS-7316
- 7320X-32C-LC

- PWR-2900AC
- 7500E-36Q-LC
- 7500E-48S-LC
- 7500E-72S-LC
- 7504E-FM
- 7508E-FM
- DCS-7500E-SUP
- DCS-7500E-SUP-D
- 7500E-12CM-LC
- 7500E-6C2-LC
- DCS-7504N
- 7516R-FM
- DCS-7516-SUP2
- DCS-7516-SUP2-D
- DCS-7516N
- 7500R2A-36CQ-LC
- 7500R2AK-36CQ-LC
- 7500R2AK-48YCQ-LC
- 7500R2M-36CQ-LC
- 7500R2AM-36CQ-LC
- 7500R3-36CQ-LC
- 7504R3-FM
- 7324X-FM
- 7328X-FM
- 7300X3-32C-LC
- 7304X3-FM
- 7308X3-FM
- 7300X3-48YC4-LC
- 7368
- 7368-16C
- 7368-SUP
- 7368-SUP-D
- 7368X4-SC

Transceiver

- 1000BASE-BX10
- 1000BASE-BX10-D
- 1000BASE-BX10-U
- 40GBASE-AOC
- 10GBASE-LRL
- 10GBASE-ZR
- 40GBASE-PLRL4
- 40GBASE-SR4
- 40GBASE-XSR4
- 40GBASE-LR4
- 40GBASE-LRL4
- 40GBASE-PLR4
- CFP2-100GBASE-LR4
- 10GBASE-AOC
- 40GBASE-UNIV
- 100GBASE-CR4
- 100GBASE-LR4
- 100GBASE-LRL4
- 40GBASE-ER4
- 10GBASE-DWDM
- 10GBASE-DWDM-T
- 10GBASE-DWDM-ZR
- CFP2-100GBASE-ER4
- 100GBASE-PSM4
- 100GBASE-SR4
- 40GBASE-SRBD
- 100GBASE-AOC
- CFP2-100GBASE-XSR10
- 100GBASE-CWDM4
- 25GBASE-AOC
- 25GBASE-CR
- 25GBASE-LR
- 25GBASE-SR
- 100GBASE-SRBD
- 100GBASE-SWDM4
- 100GBASE-ERL4
- 100GE-DWDM2
- CFP2-100G-DWDM-DCO
- CFPX-100G-DWDM
- CFPX-200G-DWDM
- 1000BASE-LX
- 1000BASE-SX
- 1000BASE-T
- 10GBASE-CR
- 10GBASE-LR
- 10GBASE-SR
- 10GBASE-SRL
- 100GBASE-XSR4
- 100GBASE-DR
- 10GBASE-ERBD
- 10GBASE-ERBD-D
- 10GBASE-ERBD-U
- 10GBASE-ERLBD
- 10GBASE-ERLBD-D
- 10GBASE-ERLBD-U
- ADPT-O-Q-100G
- AOC-O-O-400G
- CAB-D-2Q-200G
- CAB-D-2Q-400G
- CAB-D-4Q-200G
- CAB-D-4Q-400G
- CAB-D-8S-200G
- CAB-D-D-400G
- CAB-O-2Q-200G
- CAB-O-2Q-400G
- CAB-O-4Q-200G
- CAB-O-4Q-400G
- CAB-O-8S-200G
- CAB-O-O-400G
- OSFP-400G-2FR4
- OSFP-400G-LR8
- OSFP-400G-SR8
- QDD-400G-LR8
- 100GBASE-FR
- CAB-Q-2Q-100G
- 100GBASE-LR
- 10GBASE-ER
- 40GBASE-CR4

Reference to MLAG ISSU Upgrade/Downgrade Table

<https://www.arista.com/en/support/mlag-portal>

Known Software Caveats in 4.23.1.1F

Accelerated System Update

- Performing SSU when `/mnt/flash/persist/persistentRestartLog` doesn't exist may result in extended traffic outage due to a watchdog reset that can occur. (158117)
- When performing ASU2 on an MLAG setup with VXLAN configuration, ASU2 can result in a fatal error resulting in a cold boot being performed resulting in large traffic loss. (245555)
Series Affected: DCS-7060X and DCS-7060X2 Series
- SSU with Splunk enabled may result in extended boot times, which could lead to protocol timeouts or switch cold rebooting. (343629)
- When performing SSU on an MLAG setup, SSU can cause peer links on port-channel to flap, resulting in large traffic loss. (405788)
- Traffic loss of 1-2 seconds may be experienced on IS-IS Graceful Restart in scale scenarios following SSO or ASU (414174)
- Repeated downgrades and upgrades between `< 4.22.1` and `>= 4.22.1` may result in exceeding archiver quota and increased boot time. If performing an SSU upgrade it may lead to extended traffic outage. The workaround is to remove all the `/mnt/flash/var_archive` and `/mnt/flash/archive` directories, after a few cycles. (433495)
- sFlow may not work properly after ASU.
Restarting SandFap agent after ASU will fix the issue. (490542)
SKUs Affected: DCS-7280SR-48C6-F, DCS-7280SR-48C6-M-F, DCS-7280SR-48C6-M-R, DCS-7280SR-48C6-R, DCS-7280TR-48C6-F, DCS-7280TR-48C6-M-F, DCS-7280TR-48C6-M-R and DCS-7280TR-48C6-R

BGP EVPN L2/L3 VXLAN/MPLS

- When a secondary IP address is configured on a VXLAN interface, the switch may fail to send EVPN MAC address advertisement routes for locally learned MAC addresses. (446070)
- When using EVPN MPLS, if the ArpSuppression agent restarts, it may fail to populate some of the ARP entries corresponding to the remote bindings from the received MAC-IP routes. (457156)
- In EVPN VXLAN setup with IPv6 hosts when there are L2-only VTEPs publishing mac-only routes, Neighbor Solicitations from hosts behind a L3-VTEP for a target host behind a L2-only VTEP may be dropped without both proxy reply and flooding over VXLAN tunnel. This may happen only after the target host

moves from the L3-VTEP to the L2-VTEP. The workaround is to apply a l2-vpn config on the L3-VTEP and add a deny proxy prefix list. (472048)

- DF election may not work correctly after changing VLAN - VNI binding. (484811)
- In a EVPN VXLAN deployment, the BGP agent may restart when removing an Ethernet Segment Identifier associated with a large number of VLANs.

This is seen at a scale of 250 VLANs. (513122)

- A remote VTEP reached through unnumbered BGP over IPv6 will be incorrectly displayed as a configuration error with "FAIL" state due to "No route" (525842)

Containerized EOS

- ISIS/OSPF/OSPF3 may not function properly in cEOS if the kernel interfaces are prefixed with "eth" (397410)

CVP

Network Provisioning

- ISIS auth config (at global and interface levels) is lost when any ISIS or interface related config is pushed via GNMI or NetCONF. (543354)

CVX

- If a VmTracer session configures all the available VLANs on the switch, then the switch may errdisable the routed ports by freeing up the internal VLANs. (139294)
- On all switch series configured as a MLAG pair where CVX is used as the VXLAN control plane, on rare occasion after a MAC address move between switches the MAC address can be advertised to the CVX server by two different VTEPS. This can cause packets destined to the MAC address to be blackholed. The workaround is to clear the mac address on both the advertising VTEPS so that the mac address will be relearned properly. (158130)
- The MacroSegmentation Service (MSS), working with L2 transparent firewalls, requires the firewall interface be statically identified on CVX via configuration commands (as opposed to using LLDP to detect them dynamically). This prevents issues such as traffic loss in the event that a member port of a aggregated link goes down. (275384)
- Macro-segmentation Service (MSS) might stop intercepting traffic when the last member of the Near service LAG goes down.

To work around this failure, use the interface mapping from the MSS dynamic device-set configuration to statically map service device interfaces to their corresponding switch port channels. (275656)

- In a CVX deployment, the Controllerdb agent can experience a memory leak which may trigger a Controllerdb restart which may trigger a leader re-election. (379620)
- When the Macro-Segmentation Service (MSS) is enabled on an MLAG VTEP and the VTEP receives the ARP entries from the VXLAN Control Service (VCS), a reload of the secondary MLAG peer can result in ARP entries getting deleted on the peer. The workaround is to disable MLAG and re-enable it on the secondary peer. (411505)
- When a switch or CVX is upgraded or rebooted, CVX services can become partially disruptive (419781)
- The Macro-Segmentation Service does not support connecting a port-channel to the firewall when used with a CheckPoint firewall device with a sub-interface configured. (431709)
- When a security policy on a CheckPoint firewall includes unsupported services, the Macro-Segmentation Service (MSS) intercepts traffic for all services for the specified end-points in the policy. (433067)
- Upgrading a Palo Alto Networks firewall from version 9.0.4 to 9.0.5 causes the Macro Segmentation System (MSS) on CVX to receive exceptions due to invalid firewall API replies, causing all MSS policies to be removed. (436030)
- Vxlan Controller Service may ignore vARP MACs published by switch for VNIs not shared by all VTEPs publishing vARP VTEP IP. (448453)
- In a CVX + EVPN DCI topology, if a VTEP is moved from one CVX cluster to the other, EVPN on the new CVX cluster can fail to advertise IMET routes for that VTEP. (453153)
- In Macro-Segmentation Service (MSS) configuration, the firewall credentials are displayed without encryption in MssPolicyMonitor agent log files. This happens for any firewall currently supported. (470768)
- When CVX receives a malformed control-plane message, the ControllerOob agent may restart. This can trigger HA failover of the CVX cluster. (483850)
- OpenStack dynamic VLAN to VNI mappings for OpenStack Ironi baremetal hosts will be removed from CVX client switches if the VirtualNetwork agent is restarted (486304)

- The OpenStack agent may use the wrong region's endpoints for name resolution in multi-region deployments

A workaround when using CVX to manage only a single region is to redirect queries to the correct endpoint with 'ip host <wrong endpoint> <correct endpoint ip>'. (503014)

- In a Macro-Segmentation Service (MSS) deployment, a firewall REST API providing a malformed response may cause enforced policy to be withdrawn and re-applied. (512505)
- When 'client state preserve' feature is configured on CVX, state of the primary switch of an MLAG VTEP will not be preserved upon disconnection. If the primary switch did not reboot and disconnected from CVX due to network faults, it may cause disruption of VXLAN control plane leading to VXLAN traffic loss.

As a workaround, reboot the MLAG primary switch. (533925)

- In a Macro-Segmentation Service (MSS) deployment with Panorama, uncommitted changes to the list of managed devices may be used by MSS to program rules on the switches. (536412)
- After a CVX failover the the NetworkTopologyAggregator agent may restart.

A workaround is to trigger another CVX failover. (545008)

General

- When a policy map of type PBR is attached to an interface that is either in down state or a switchport (or both), and if the policy map is too large to fit into available hardware resources, the CLI will not report the error and roll back the configuration. Later, when the interface becomes an operational routed interface, the policy map will not be programmed into hardware. However, "show policy-map type pbr" shows the policy applied to the interface.

To fix the discrepancy, remove extra rules from the policy map to make it fit into the hardware. (89931)

- OpenFlow Flows may not be programmed in the right priority order after changing OpenFlow Table Profile config to "auto" mode. (118767)
 SKUs Affected: DCS-7260CX3-64, DCS-7260CX3-64-F, DCS-7260CX3-64-R, DCS-7260CX3-64E-F and DCS-7260CX3-64E-R
- While running a combination of both UDP and TCP traffic (e.g. BFD and BGP), a race condition may lead to a kernel panic due to reusing previously freed memory. (131245)

- The OpenFlow agent fails to return counters associated with a flow, when queried by the OpenFlow controller using protocol version 1.0 (132812)
- On switches using the tg3 driver for the management interface a kernel panic can happen resulting in a switch reload. (136944)

Series Affected: 7368 Series

SKUs Affected: DCS-7010T-48-DC-F, DCS-7010T-48-DC-R, DCS-7010T-48-F, DCS-7010T-48-R, DCS-7020SR-24C2-F, DCS-7020SR-24C2-R, DCS-7020SR-32C2-F, DCS-7020TR-48-F, DCS-7020TR-48-R, DCS-7020TRA-48-F, DCS-7020TRA-48-R, DCS-7050CX3-32S-F, DCS-7050CX3-32S-R, DCS-7050QX-32-F, DCS-7050QX-32-R, DCS-7050QX-32-SSD-F, DCS-7050QX-32-SSD-R, DCS-7050QX-32S-F, DCS-7050QX-32S-R, DCS-7050QX-32S-SSD-F, DCS-7050QX-32S-SSD-R, DCS-7050QX2-32S-F, DCS-7050QX2-32S-R, DCS-7050SX-64-F, DCS-7050SX-64-R, DCS-7050SX-64-SSD-F, DCS-7050SX-64-SSD-R, DCS-7050SX-72-F, DCS-7050SX-72-R, DCS-7050SX-72-SSD-F, DCS-7050SX-72-SSD-R, DCS-7050SX-72Q-F, DCS-7050SX-72Q-R, DCS-7050SX-96-F, DCS-7050SX-96-R, DCS-7050SX-96-SSD-F, DCS-7050SX-96-SSD-R, DCS-7050SX2-128-F, DCS-7050SX2-128-R, DCS-7050SX2-72Q-F, DCS-7050SX2-72Q-R, DCS-7050SX3-48YC12-F, DCS-7050TX-48-F, DCS-7050TX-48-R, DCS-7050TX-48-SSD-F, DCS-7050TX-48-SSD-R, DCS-7050TX-64-F, DCS-7050TX-64-R, DCS-7050TX-64-SSD-F, DCS-7050TX-64-SSD-R, DCS-7050TX-72-F, DCS-7050TX-72-R, DCS-7050TX-72-SSD-F, DCS-7050TX-72-SSD-R, DCS-7050TX-72Q-F, DCS-7050TX-72Q-R, DCS-7050TX-96-F, DCS-7050TX-96-R, DCS-7050TX-96-SSD-F, DCS-7050TX-96-SSD-R, DCS-7050TX2-128-F, DCS-7050TX2-128-R, DCS-7060CX-32S-F, DCS-7060CX-32S-R, DCS-7060CX2-32S-F, DCS-7060CX2-32S-R, DCS-7060SX2-48YC6-F, DCS-7060SX2-48YC6-R, DCS-7150S-52-CL-F, DCS-7150S-52-CL-R, DCS-7150S-52-CL-SSD-F, DCS-7150S-52-CL-SSD-R, DCS-7160-32CQ-F, DCS-7160-32CQ-R, DCS-7170-32C-F, DCS-7170-32C-M-F, DCS-7170-32C-M-R, DCS-7170-32C-R, DCS-7170-32CD-F, DCS-7170-32CD-R, DCS-7170-64C-F, DCS-7170-64C-M-F, DCS-7170-64C-M-R, DCS-7170-64C-R, DCS-7260CX3-64-F, DCS-7260CX3-64-R, DCS-7280CR2A-30-F, DCS-7280CR2K-30-F, DCS-7280CR2M-30-F, DCS-7280QR-C36-F, DCS-7280QR-C36-M-F, DCS-7280QR-C36-M-R, DCS-7280QR-C36-R, DCS-7280QRA-C36S-F, DCS-7280QRA-C36S-M-F, DCS-7280QRA-C36S-M-R, DCS-7280QRA-C36S-R, DCS-7280SE-64-F, DCS-7280SE-64-R, DCS-7280SE-68-F, DCS-7280SE-68-R, DCS-7280SR-48C6-F, DCS-7280SR-48C6-M-F, DCS-7280SR-48C6-M-R, DCS-7280SR-48C6-R, DCS-7280SR2-48YC6-F, DCS-7280SR2-48YC6-M-F, DCS-7280SR2-48YC6-M-R, DCS-7280SR2-48YC6-R, DCS-7280SR2A-48YC6-F, DCS-7280SR2A-48YC6-M-F, DCS-7280SR2A-48YC6-M-R, DCS-7280SR2A-48YC6-R, DCS-7280SR2K-48C6-M-F, DCS-7280SR2K-48C6-M-R, DCS-7280SRA-48C6-F, DCS-7280SRA-48C6-M-F, DCS-7280SRA-48C6-M-R, DCS-7280SRA-48C6-R, DCS-7280SRAM-48C6-F, DCS-7280SRAM-48C6-R, DCS-7280SRM-40CX2-F, DCS-7280SRM-40CX2-R, DCS-7280TR-48C6-F, DCS-7280TR-48C6-M-F, DCS-7280TR-48C6-M-R, DCS-7280TR-48C6-R, DCS-7280TRA-48C6-F, DCS-7280TRA-48C6-M-F, DCS-7280TRA-48C6-M-R, DCS-7280TRA-48C6-R, DCS-7304, DCS-7308, DCS-7504N, DCS-7508N, DCS-7512N and DCS-7516N

- When configuration of a service-policy of type pdp on an interface fails due to lack of hardware resources, the interface may not be protected by any

PDP policy. The workaround is to remove the configuration of the PDP service-policy and to configure the PDP service-policy default-pdp-policy on the interface. (216365)

- The CLI command "route-target import auto <ASNumber>" for VLAN VRF does not work and hence should not be used. Alternatively, the suggested configuration is "route-target import auto". In this case the AS Number is picked up from the BGP configuration.

Example:

```
router bgp 301
  vlan 300
    # This does not work as AS Number for generation of route target is
    explicitly
    # configured
    route-target import auto 302
```

Suggested Usage

```
router bgp 301
  vlan 300
    # In this case 301 is used as the AS number for generation of route
    target
    route-target import auto (255062)
```

- Inserting or removing a linecard can result in the system panicking with a signature similar to

```
[ 286.353571] BUG: unable to handle kernel paging request at ffffffff
[ 286.436777] IP: [<ffffff8130fa93>] pci_free_cap_save_buffers+0x16/0x29
```

or

```
[ 336.206463] BUG: unable to handle kernel NULL pointer dereference at
0000000000000011
[ 336.300062] IP: [<ffffff8130c63c>] _pci_find_saved_cap+0x18/0x31 (262388)
```

- The MacroSegmentation Service (MSS) feature doesn't work in conjunction with the VARP VTEP IP configuration required for VXLAN routing where a subset of VTEPs are L2 VTEPs. (263532)
- Support for VRRPs in OpenConfig not fully implemented (268736)
- OpenConfig fails because of an invalid type in ISIS with the log message 'expected attribute type nominal.U8, got uint8' (293256)
- The ZeroTouch agent does not properly handle 301 HTTP return codes when downloading the bootstrap script. This can lead to the device leaving ZTP mode with a default startup-config. (342098)

- When a MLAG peer (configured as a service VTEP for MSS) reloads, MSS re-installs intercept flows which may cause traffic to drop for a short duration. (349254)
- If the L3 forwarding agent is restarted when VXLAN MAC addresses are present and the route to remote VTEPs are down, then the L2 forwarding agent might unexpectedly restart in rare cases. (355110)
- If multiple front-panel ethernet interfaces are configured as reflector interfaces for the same flow of traffic to be reflected, loops can be formed and hosts can flap from one interface to another when the reflector configuration is subsequently changed. The workaround is to only configure one reflector interface to handle traffic reflection. (360869)
 Series Affected: DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- When configuring VXLANs from the EOS CLI, "ip address virtual" is supported and mapped to YANG, but "ip virtual-router address" is not supported. (372193)
- Mlag agent may crash if the system is being put in Maintenance Mode if interface profile has shutdown max-delay enabled. Workaround is as follows:
 1. Create a maintenance interface profile which does not have shutdown max-delay configured with profile name being lexicographically largest.

```
profile interface zzz_no_shutdown_delay
  rate-monitoring threshold 4294967295
```

 2. Create an interface group constituting all the physical ethernet interfaces of peer-link and attach the above interface profile that does not have shutdown max-delay configured.
 3. Create a unit with this group and quiesce it. (380387)
- When the forwarding agent hitfully starts up, PTP packets sent downstream may have invalid timestamp and the switch may incorrectly advertise itself as the GM. Valid PTP packets and correct GM advertisement will converge post forwarding agent startup. (402786)
- If a large number of rules are setup on a single 'ip access-list', the OpenConfig agent may use a lot of CPU time and may restart unexpectedly. (407002)
- If the number of PTP vlan's enabled on a switch using 'ptp vlan' command exceeds 65536, PTP agent will become unresponsive and eventually restart. Reducing the VLANs below the limit will avoid getting in this state. (408199)
- When in transparent two-step mode PTP packet sequenceId collision may cause transient jump in offsetFromMaster. Workaround is to use one-step transparent clock mode. (408202)

- DirectFlow 'action output nexthop <ip addr>' ignores TTL of incoming packet and forwards the packet even if the TTL has expired. (417994)
- If SSH or TELNET is enabled in a non-default VRF, restarting Sysdb can cause the service to be unavailable. This can typically happen on a standby supervisor configured with the RPR redundancy protocol, and may only be noticeable after a switchover. To recover, run 'sudo service xinetd restart' from bash. (420882)
- EventMgr Agent may crash after manually hot swapping a Line Card. This has been observed only on Fully loaded 8-slot modular systems so far. A temporary workaround is to remove the following plugins (EventMgrFanPlugin, EventMgrTemperaturePlugin, EventMgrPowerSupplyPlugin and EventMgrVoltagePlugin) via "rm /usr/lib/EventMgrPlugin/<ListedPluginName>" and then restart EventMgr via "agent EventMgr terminate". This will remove the capability of the device to monitor environment-related health metrics ("cooling", "power", "voltage" and "temperature"). (422697)
- The Macro-Segmentation Service (MSS), when configured to communicate with a Checkpoint firewall device running in layer 3 mode, fails to ensure rule priority ordering is maintained. (424556)
- If "logging trap system severity emergencies" is configured, the SuperServer agent may restart repeatedly. Use "logging trap system severity alerts" to log both alert messages and emergency messages. (425696)
- In a VXLAN routing setup configured with Virtual Ip (Anycast IP) , when the local L3 VTEP (where the host is local) receives the ARP request for the gateway Anycast IP, then it will update the sender's ARP entry and reply to the sender host. However, the remote L3 VTEPs will receive the request due to VXLAN flooding, but will not update the sender's host arp entry, possibly resulting in an inconsistent ARP entry between the local and remote VTEPs. (429227)
- Configuring EOS via OpenConfig may fail when 'redistribute connected' is present in the BGP or ISIS configuration and static routes are not present.

This can be resolved by adding a single IPv4 or IPv6 static route. (434767)

- The Aaa agent might restart when LDAP servers are unreachable (436291)
- ZTP can stop cycling speeds on front-panel ports whose capabilities have no supported speeds for a possible speed-group configuration; this will not affect management ports. For example: a 40G-only transceiver inserted into a port with a default speed-group setting of 25G. (444861)
- OpenConfig is affected by CVE-2020-7919 in 32-bit EOS. (450879)
- When an OpenConfig NETCONF client is used to add new classes to policy map, the new classes are added before any previous classes. (451025)

- Licenses bound to a device, such as MACsec licenses, would not be found after boot until the license store is refreshed. (451099)
- Removing a bash action from an event-handler via "action bash" can result in inability to copy and paste that particular event-handler config. A workaround is to use "action bash :". (452832)
- If any interface is configured with "ip address unnumbered", configuration changes made with gNMI, NETCONF, or RESTCONF do not apply.

To workaround the issue "ip address unnumbered" needs to be removed from the configuration via the CLI or EAPI. (457161)

- When the switch reloads, it might fail to mount the internal flash, entering Zero Touch mode. Going to bash and reload by running 'sudo reboot' will fix the problem. (460245)
- ISIS configuration on a non-default VRF via OpenConfig fails. (460407)
- Non-alphanumeric characters (with the exception of '-', '_', and '~') in VRF names may prevent some inter-process communication, resulting in some state not being updated in those VRFs. (464188)
- gNMI, NETCONF, and RESTCONF access to the device may be disrupted if client certificate authentication is configured and a client connects with a malicious certificate. (464752)
- When configuring a VLAN_AWARE_BUNDLE evpn-instance via OpenConfig that contains a VLAN range and VLANs with ETIDs, the VLANs with ETIDs will not be retained. Only the VLAN range will apply.
A work around is to configure the range first and follow with any VLANs with specific ETIDs. (470793)
- Configuring IPv4-mapped IPv6 Address in an ACL leaves OpenConfig in an inconsistent state preventing any further OpenConfig Update operation. (471220)
- Removing a bash action from an event-handler via "action bash" can result in inability to copy and paste that particular event-handler config. A workaround is to use "action bash :". (471816)
- The VFAT flash filesystem can get corrupted after reload.

To recover, reload the system again. (471854)
- Under limited circumstances, telnet may behave in an unexpected manner (472113)

- In rare conditions, the kernel may panic with the message containing "BUG at ../mm/slub.c:3334" (476225)
- Any configured QoS mappings for traffic class to COS and traffic class to DSCP bits are not applied on packets that are reflected via an Interface Reflector that is configured in MAC swap and direction out mode. The source and destination MAC addresses are swapped as expected, but the COS and DSCP bits of the reflected packets are copied unmodified from the original ingressing packet. (476507)
 Series Affected: DCS-7280CR2, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280SE, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- If FIB optimization configuration is present in startup config, it is accepted on platforms that do not support the feature leading to incorrect routes being programmed in the hardware. This causes incorrect routing. To workaround this problem, remove the optimization configuration from the startup config and reload the switch. (478338)
- In an EVPN deployment, ARP entries maybe not be cleared when it's Type 2 route is withdrawn. (478941)
- Under certain circumstances flash may be remounted read-only if dosfsck was not able to fix FS corruption on first pass (481251)
- On systems with many update notifications from eos-native paths, the Octa agent log files could fill up with spurious errors. (482039)
- Octa sends more data than requested for a gNMI Subscription with origin "eos_native" and mode SAMPLE. (482142)
- Octa may restart unexpectedly when handling a gNMI Subscription with origin "eos_native" and mode SAMPLE. (482143)
- Irregularities in how VXLAN packets are forwarded (485689)
- On system reload, the kernel may crash with the "PANIC: double fault" message. (493516)
- EosSdk agents using a certain combination of Sysdb mount paths may cause the Sysdb agent to restart on connecting to Sysdb. If the agent is configured and stored in startup-config this can cause Sysdb to get stuck in a restart loop. (496371)
- Adding and deleting Nexthop groups via EosSdk APIs, may increase process memory usage over a period of time. (498368)
- Large PTP Offset From Master value fluctuations occur following PTP link failover resulting in disruption to downstream PTP clients. (499397)

- PTP Sync messages may be buffered and delayed between 6 to 12 seconds. This may cause downstream clients to lose PTP time synchronization. (508551)
- PTP agent may unexpectedly restart when port-channel links change its status from up to down and vice versa. (519578)
- A customer-provided agent using EosSdk may restart when configuring or modifying an ACL. (524324)
- Configuring anything on EOS via OpenConfig may fail if BFD is configured. (526372)
- A mis-configuration of the event-handler feature when it uses the on-logging trigger with no regex command will result in a continuous triggering of the handler's action. (528458)
- For an egress policy-map, attaching a policer to a class-map that requires more hardware TCAM rules than that can be fit in a single TCAM slice is not supported. This is a hardware limitation. (529081)
- When communication between CVX and switch is secured using SSL profile, Controllerdb agent on CVX or Sysdb agent on switch can restart unexpectedly. (537015)
- Octa can incorrectly report collection entries as deleted under /Smash eos native paths.

Restarting Octa will make the incorrectly reported deleted entries appear again, however they or other entries can subsequently be incorrectly reported as deleted again. (537209)

- gNMI clients subscribed to paths with origin eos_native may stop receiving notifications.
To work around the issue restart Octa or start a new subscription. (539454)
- The "arp reply relay" feature does not support a VXLAN domain with L2 VTEPs. (540369)
- If multiple clients subscribe to overlapping /Smash eos native paths provided by Octa, Octa can unexpectedly restart. (540472)
- EOS is not vulnerable to CVE-2020-26116. However, custom agents using the python3 runtime can be vulnerable. http.client in Python 3.x before 3.5.10, 3.6.x before 3.6.12, 3.7.x before 3.7.9, and 3.8.x before 3.8.5 allows CRLF injection if the attacker controls the HTTP request method, as demonstrated by inserting CR and LF control characters in the first argument of HTTPConnection.request. The fix for this CVE-2020-26116 prevents header injection in http methods. (543494)

- EOS is not vulnerable to CVE-2019-20907. However, custom agents using the python3 runtime can be vulnerable.

In Lib/tarfile.py in Python through 3.8.3, an attacker is able to craft a TAR archive leading to an infinite loop when opened by tarfile.open, because _proc_pax lacks header validation. The fix for CVE-2019-20907 updates the python3 tarfile module to prevent an infinite loop. (543497)

Layer 1

- Speed change on interfaces with "speed-misconfigured" errdisable state after hitless reload causes forwarding agent restart. This leads to the flap of all connected interfaces. The workaround is to recover all "speed-misconfigured" interfaces by configuring speeds of affected /2, /3 and /4 ports to match the speed of the corresponding /1 ports before hitless reload. (352115)

Series Affected: DCS-7060X and DCS-7060X2 Series

- When a QSFP port is set to 4x25G rate, inserting a 40G QSFP transceiver can trigger a single or continuous forwarding agent restart. A workaround is to configure the port for 40G or 4x10G rate before inserting the transceiver. (405185)

Series Affected: 7300X3, DCS-7050X3 and DCS-7260CX3 Series

- Enabling or disabling MacSec on a port while traffic is running can result in the port getting into an unusable state where all traffic is dropped. Evora agent needs to be hitfully reset to recover the port. (436111)

SKUs Affected: 7500R-8CFPX-LC, 7500RM-36CQ-LC, DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R

- Speed changes on SFP ports cause all four ports in the port group to flap. This can also happen when speed changes are triggered by transceiver insertion/removal on SFP ports which are set to "default speed" or "no speed". (460034)

SKUs Affected: CCS-720XP-24Y6-F, CCS-720XP-24Y6-R, CCS-720XP-24ZY4-F, CCS-720XP-48Y6-F, CCS-720XP-48Y6-R, CCS-720XP-48ZC2-F, DCS-7050SX3-48YC8-F and DCS-7050SX3-48YC8-R

- Interfaces may fail to link up when using 40GBASE-SRBD transceivers on ports with CRT50216 PHY. (476924)

Series Affected: 7368 Series

SKUs Affected: 7500R3-36CQ-LC, 7500R3K-36CQ-LC, DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4-F and DCS-7280CR3K-32P4-R

- When link-down debounce is configured, if at the expiration of the debounce timer the PCS is link up but local fault is present, remote fault will not be sent to the peer if the link remains down past the link-down debounce period, resulting in a unidirectional link.

The workaround is to not configure link-down debounce. (482636)

Series Affected: 7300X3, 7320X, 7368, DCS-7160 and DCS-7170 Series

- Configuring speed, forward error-correction or speed-groups on a large number of interfaces at once may cause the forwarding agent to restart and all interfaces to flap. The workaround is to configure interfaces in smaller batches. (494284)

Series Affected: 7368 and DCS-7060X4 Series

- Ports configured for 100G without FEC with the CRT50216 PHY may remain down after an AIS or PRBS signal is received.

A work around is to enable and then disable FEC with 'error-correction encoding reed-solomon' followed by 'no error-correction encoding' (498631)

- QSFP ports with CRT50216 PHY do not support link-debounce intervals shorter than 5 seconds. (498871)

SKUs Affected: 7368-16C, DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4-F and DCS-7280CR3K-32P4-R

- MACsec frames shorter than 88-bytes long without SCI and 96-byte MACsec frames with SCI are dropped upon reception. (514526)

SKUs Affected: 7500R-8CFPX-LC, 7500RM-36CQ-LC, DCS-7050CX3M-32S, DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R

- Interfaces drop unencrypted pause or PFC frames while MACsec is enabled. (538882)

SKUs Affected: 7500R2AM-36CQ-LC, 7500R2M-36CQ-LC, DCS-7280CR2M-30, DCS-7280CR2M-30-F, DCS-7280SRAM-48C6, DCS-7280SRAM-48C6-F, DCS-7280SRAM-48C6-R, DCS-7280SRM-40CX2, DCS-7280SRM-40CX2-F and DCS-7280SRM-40CX2-R

Layer 2

- If Ebra agent restarts on a VTEP that is running EVPN control plane with route type 5, then it can result in VxLAN traffic loss. (276063)
- MACsec delay protection feature is not working. (282186)
- If VxLAN routing is configured on an MLAG configured system, the VxlanSwFwd agent can crash when receiving certain malformed packets. (364633)

- Supports IP Locking local interface in non-default VRF. (434731)
- When running rapid-PVST at high scales of interfaces and vlans, the device may occasionally not transmit a BPDU, which can lead to a BPDU timeout on the neighbor. (442663)
- Performing a SSO switchover may result in STP topology reconverging. (470962)
- Restarting STP agent with a high number of interfaces and vlans in PVST mode may result in STP topology reconverging. (472675)
- In VXLAN deployment, remapping the VNI from one VLAN to another VLAN may cause the destination VTEP to drop ARP requests received over VXLAN tunnel in that VNI. (482403)
- "%SPANTREE-4-BLOCK_RATELIMITER: Exceeded BPDU rate limiter on <INTF>" may be logged and INTF errdisabled if spanning-tree mode is not rapid-pvst or "spanning-tree mst pvst border" is not configured and sflow is configured on the switch in a network where PVST is enabled on other switches.

To work around, disable sflow on the affected interface. (487260)

- Re-configuring a member interface from a port-channel configured with "port-channel lacp fallback individual" and currently in fallback individual mode to another port-channel that does not have the fallback configuration can cause the member interface to remain in Bridged forwarding state instead of Data Link. This can potentially cause traffic loop.

To workaround, un-configure the affected interface from the port-channel and reconfigure it. To avoid this issue while moving an interface from one port-channel to another, un-configure the interface from current port-channel before configuring it into the new port-channel. (525342)

- On a device that's an MLAG or had MLAG configured in the past and configured with rapid-pvst STP mode, if more VLANs are configured than platform limit, then the StrataVlanTopo agent may continuously restart. Device won't log SPANTREE_TOPOLOGY_LIMIT_EXCEEDED to indicate platform topology limit exceeded.

To workaround, reduce number of VLANs to platform limit specified in Arista product documentation. (548254)

Layer 3

- If a loopback interface is only configured with a link-local IPv6 address, OSPFv3 will not advertise the address. (131369)
- During reload or configuration changes, BFD session may be stuck in init state on one side. Restart Bfd agent to work around the issue. (195545)

- The Ldp agent may restart if configured with a large number of MPLS ECMP routes with many next hops. (273767)
- With scaled VRF config, in the order of 1K VRFs, if the Arp agent restarts, it may fail to come up. (275514)
- In certain scale situations upon a sysdb restart, arp entries can be learned in kernel but not show up under 'show arp'. When this happens, the work around is to restart the Arp agent. (275749)
- Configuring 'max-metric router-lsa' on an OSPF router may cause summary LSAs to be generated with maximum metric. (276629)
- High rate of ISIS-SR MPLS route churn may cause the Mpls agent to restart. (283149)
- Removing LDP mappings in a large scale LDP configuration may result in LDP neighbor sessions flaps. (283972)
- Auto discovery of multiple IPv6 link-local BGP neighbors over a single interface does not work and will result in only one of the neighbors transitioning to established state. (289875)
- If a sub-interface creation/deletion overlaps with it's VRF creation/deletion then the sub-interface may not be deleted properly in kernel. This prevents creation of same sub-interface in kernel again.

Workaround is to restart Ebra agent. (337707)

- The Macro-Segmentation Service (MSS) for Layer 3 firewalls may not correctly program traffic redirection/offload flows if the service is enabled prior to DirectFlow being enabled on all switches.

A workaround is to shutdown the MSS service on CVX, enable DirectFlow on all supported switches and re-enable the MSS service. (366022)

Series Affected: DCS-7050TX, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7250X, DCS-7260X, DCS-7260X3 and DCS-7300X Series

- BFD configurations with large numbers of sessions may see BFD session flaps during initial session bringup shortly after boot. (375773)
- The Arp agent restarts when a virtual IP is added and there is a matching permanent ARP entry in the kernel but not in the ARP agents internal data structures. Usually, the Arp agent will recover normally. In rare situations, the Arp agent may repeatedly restart. In this case, adding a static ARP/neighbor entry via the CLI will fix the issue with no impact on the system. Note that adding a static ARP/neighbor entry via the CLI for every virtual IP address will avoid this problem completely. (389761)

- At scale, when migrating BFD sessions from SwBfd to HwBfd, sessions may flap and take a few minutes to converge. (400256)
- When graceful restart is enabled under "router isis" and other protocol routes are redistributed into IS-IS then on ASU or SSO, some traffic that is forwarded using redistributed routes might be lost. (413706)
- Removing SVI configuration at scale via a config-replace operation may cause the Bfd agent to crash. (414702)
- When "flow tracking hardware" is enabled, some IPFIX data packets exported from HW may have an incorrect UDP checksum and hence could get dropped. There is no workaround to this issue. (416139)
Series Affected: CCS-720XP Series
- DHCP Relay Agent may exit unexpectedly when 'ipv6 dhcp relay install routes' is unconfigured with very high dhcp prefix delegation routes scale. (417272)
- The ISIS agent may restart if RSVP-TE is for Fast Reroute is configured at the same time as ISIS overload bit or te router-id. (417606)
- If a decap group with multiple IPv6 addresses are configured in either a config-session or config-replace, forwarding agent may restart unexpectedly, or the decap-group may not get programmed correctly. (421010)
- When OSPFv3 graceful restart is configured on an ABR and NSSA Type 7 external LSAs are translated to ASE Type 5 LSAs and SSU or SSO is executed, OSPFv3 may withdraw the translated ASE type 5 LSAs temporarily, causing traffic loss in OSPF peers. (421638)
- The MLAG agent may exit unexpectedly after upgrading from 4.22.0 or an older release if the MLAG peer switch is still running the older software version and DHCPv6 prefix delegation routes are being sync'd across the peers. (425810)
- IPv6 nexthop address is not accepted by the Cli under nexthop-group configuration. (426019)
- In multi-agent routing protocol mode, if the BGP Prefix Independent Convergence (PIC) feature is enabled or disabled after BGP sessions are established, BGP next hops can mistakenly become unresolvable.

Restarting the Bgp agent can provide a workaround for the issue. (427029)

- Cspf agent may restart when TI-LFA is configured and the backup path is via a neighbor to which the point of local repair has ecmp paths and atleast one path is not directly connected to the neighbor (427437)

- Deleting a VRF may lead to BFD sessions being stuck in their current state. Only BFD timeouts would result in a change of state of BFD sessions. A workaround is to restart the Bfd agent. (427612)
- Despite there being no support for TI-LFA protection of proxy node segments, backup paths computed towards the Segment Routing Mapping Server could be installed for IS-IS SR LFIB route and tunnels that correspond to proxy node segments. (429305)
- Changing the VRF of an interface where BFD static neighbors are configured will result in BFD session failure. Subsequent configuration changes via 'bfd static neighbor' will result in duplicate BFD configuration displayed in the output of 'show active'. The workaround is to unconfigure BFD static neighbors before moving an interface to a different VRF. (430640)
- Changing the VRF of an interface where BFD static neighbors are configured will result in BFD session failure. Subsequent configuration changes via 'bfd static neighbor' will result in duplicate BFD configuration displayed in the output of 'show active'. The workaround is to unconfigure BFD static neighbors before moving an interface to a different VRF. (430672)
- When 'bfd per-link rfc-7130' is configured on static port-channel, BFD member session down may not block LAG member from joining port-channel. Configure 'bfd per-link rfc-7130' on a static port-channel may cause port-channel interface flap. (431738)
- BFD sessions may never come up after doing changing global BFD configuration (for example, doing a "configure replace" or "bfd shutdown" and "no bfd shutdown").

To workaround, restart Bfd agent. (432109)

- When processing flow-spec rules with match components that carry <match operator, value> (for example: match component type 3, type 4, etc), if the match operator specifies a length that is greater than what is needed to encode the actual value, then "show flow-spec ..." may incorrectly report the installed state of the rule. In addition, the SandAcl agent may crash continually if multiple flow-spec rules were received that differ only in the match operator's specified length.
For example: The two rules noted below are expected to match an IP protocol value of 10. However, they encode the number of bytes needed to represent the value differently.
Rule1: Match Component Type 3, <operator: len = 0, value: 10>
Rule2: Match Component Type 3, <operator: len = 1, value: 10> (433033)
- In BFD per-link rfc-7130 interop mode, when 'bfd neighbor' address does not match peer port-channel IP, unconfigure 'bfd per-link' on one side of BFD peers will cause LAG member to be removed from port-channel on the other

peer. Make BFD configuration match on both sides to recover the port-channel. (434055)

- When a IS-IS/BGP/OSPF peer is torn down on the receipt of the BFD session down notification on a link that is still physically up, there could be traffic loss on traffic destined to prefixes which have ECMP paths that also include the aforementioned link. (434576)
- When adding a new unnumbered interface to a route with an ECMP set of nexthops, some traffic may be briefly lost if it attempts to traverse the newly added interface before ARP has a chance to resolve the nexthop. (434726)
- If an interface flaps, host routes may not be installed for static ARP/neighbor entries. This may also affect dynamic entries that were present before the flap and immediately relearned after the flap.

A workaround is to restart the Arp agent. Another workaround is to flap the interface again until the problem is resolved. (435806)

- In situations involving a route with a next hop IP getting deleted and added back without a next hop IP, static ARP entries falling in the same subnet as the prefix of this route may not be correctly added.

Workaround is to restart the ARP agent. (436002)

- Turning on the event monitor while using RSVP can cause ConfigAgent to crash. Shutting it down with `no event-monitor` will prevent the issue. (436254)
- If an interface flaps, host routes may not be installed in the hardware for static ARP/neighbor entries. This may also affect dynamic entries that were present before the flap and immediately relearned after the flap.

A workaround is to flap the interface again until the problem is resolved. Another workaround is to restart the Layer3 Forwarding agent. (436597)

- V6 Attached route for a host over the Vxlan interface may not be programmed in the hardware for a remotely learned host. (438882)
- If routing is disabled while the platform L3 agent is coming up, the platform agent may restart. (439604)
- BGP agent may restart when auto-local-adr is configured on a non directly connected BGP session (442171)
- When IS-IS dynamic flooding is enabled, the IS-IS process may restart when there's a network topology change. (444542)

- Hardware accelerated BFD sessions on an physical interface with dot1q encapsulation may fail to come up.
A workaround is to disable BFD hardware acceleration. (444671)
- When a static ARP entry is added via CLI with a MAC of 0.0.0, Arp will continuously crash. The workaround is to either remove the static ARP entry or add a non zero MAC address to the static ARP entry. (444677)
- With FIB compression being enabled, the StrataL3 agent and SandL3Unicast agent can restart unexpectedly. (445777)
- OSPF may incorrectly originate an Indication LSA in an area which has LSAs with the DC-bit cleared. (458064)
- Removal and re-addition of existing SRLG configuration on an interface in quick succession may result in Rib agent exiting unexpectedly (458856)
- When a series of back-to-back configuration changes are applied to a BFD session, the session may not have the latest configured value. To work around the issue, un-configure and re-configure the BFD session. (458955)
- IS-IS adjacency will get dropped when the IS-IS SHA authentication feature is used in interop scenarios with non Arista devices. (463543)
- The output of 'show ip nat sync peer' may incorrectly indicate a connected state, even though an incorrect peer IP address has been configured. (464011)
- When there're a lot of NAT translations synchronized through NAT Sync in a very short time period, NAT Sync may hang and stop synchronizing.
Restarting Nat agent with "agent Nat terminate" in CLI Enable mode may help. Retrying the command several times may be needed. (467300)
- DHCP relay agent might exit unexpectedly if several VRFs are continuously deleted and re-created. (471169)
- With 'ipv6 dhcp relay install routes' configured on more than 100 SVIs, DHCP relay agent may exit unexpectedly when a IPv6 DHCP helper address is configured simultaneously on all SVIs. (471338)
- In situations in which a large number of routes are forwarded over the same dynamic tunnel interface, the Arp agent may crash if the forwarding information of these routes are changed. The Arp agent will restart normally afterwards. (472837)
- When using OSPFv3 and encryption or OSPFv2 and encryption, the Rib agent may stop responding and restart unexpectedly. (472846)
- When adding a VRF during config replace or quickly deleting and re-adding a VRF, the internal state of the ARP agent may go out of sync and ARP entries may be missing from "show arp." Workaround is to delete the VRF and re-add it. (474469)

- After several subsequent interface shut/no shut, some routes might not forward traffic. The workaround is to toggle the interface once more. (476768)
- Running the command 'no bfd neighbor ADDR' on a Port-Channel with BFD neighbors configured where "ADDR" is either an IPv4 or IPv6 address will result in the removal of all BFD neighbor configuration regardless of address-family. The work-around is to re-add the incorrectly-removed BFD neighbor configuration via the 'bfd neighbor' command. (477517)
- When the MAC address changes on a BFD peer, the session may flap. This can happen when the interface fails over from active to standby. (477559)
- Some nexthop group configuration changes may not be processed when nexthop group config is undergoing high churn. This can result in traffic loss for routes going over the nexthop groups. (480952)
- Cspf agent may restart when TI-LFA protection is configured and the number of segments requiring protection is over 2K (481703)
- In EOS, host route computation is facilitated by the Arp agent. In situations with scaled neighbor entries, particularly when all or most of the entries map to the same route, the Arp agent may encounter a heartbeat timeout, leading to the Arp agent restarting. Typically, the Arp agent will run fine after the restart. (484901)
- In EOS, host route computation is facilitated by the Arp agent. In situations where the FIB routing table is at internet scale, particularly if all or most of the routes are tunneled, the Arp agent may encounter a heartbeat timeout, leading to the Arp agent restarting. Typically, the agent will run fine after restart. (484902)
- In scale situations, if a static ARP entry is added immediately before a route is deleted and re-added, the entry may not be properly added. Workarounds include removing and re-adding the static entry, flapping the interface the entry end up on, or restarting the Arp agent. (486998)
- TI-LFA backup paths will be computed slowly when there are large number of node-segments/anycast-segments/adjacency-segments that are protected. (489097)
- All ECMP static vxlan evpn routes for a prefix get deleted when one of the contributing static vxlan evpn routes is deleted. (493505)
- An LSR which is the penultimate hop in an RSVP LSP may incorrectly report a "bandwidth unavailable" error if the tunnel destination IP is an interface IP that does not match the last hop in the ERO.

A workaround is to use a loopback interface as tunnel destination or the interface IP that is present in the ERO. (493578)

- If the Intermediate System to Intermediate System (IS-IS) router receives a link state PDU that contains malformed sub-TLVs in the extended IS reachability TLV, the Rib process (in Rib mode) or the Isis process (in the multi-agent mode) will restart repeatedly. It will recover after such LSP is removed from the link state database. (497449)
- Issues with processing DHCPv6 packets containing route information. (498246)
- BFD sessions may continuously flap after a speed change on an interface. A workaround is to restart StrataBfd. (499185)
- When changing the OSPF Router Id, OSPF will not flush its existing self-originated LSAs from the routing domain before the new Router Id takes effect (499551)
- Isis agent will restart if an interface has ipv4 unnumbered configuration and ipv6 global address configuration and has enabled ipv4 and ipv6 traffic engineering. (501374)
- When the IP reachability of the TI-LFA protected link is leaked from one level into another level on the router in level-1 and level-2, then on link down local convergence delay timer is immediately aborted for the protected prefixes. This may cause the traffic loss due to micro loop. (504629)
- Protocol messages exceeding 1500 bytes are ignored, in particular BUNDLE and SREFRESH messages, which is the case for jumbo frames. The symptom can be dropped LSPs or long convergence times. (521363)
- An RSVP RESV message is immediately sent as a reply to a NACK object, which can lead to a packet storm if an RSVP neighbor incorrectly uses NACK objects as an error reporting mechanism. Configuring RSVP with `refresh method explicit` will prevent this issue but disable Refresh Overhead Reduction. (522041)
- IP routes and FECs may fail to install in some instances when we recover from a resource overflow scenario. A workaround is to restart the L3 platform agent. (526893)
- Stateful switchover can cause a small traffic loss because of host routes without ARP resolution. (533234)
- When there are more than 254 RIP enabled interfaces then it may result in restart of the protocol agent if a route needs to be advertised to more than 254 neighbours. (535893)
- When large number of distribute lists are configured in RIP then it may result in route flaps and the protocol agent CPU utilization can increase significantly. (536500)

Multi-agent

- If a VRF is deleted while the Bgp agent is in the middle of processing paths in BRIB, it may restart unexpectedly. (209143)
- Performing a stateful swtichover in a switch with a large number of VRFs configured, with BGP config in all VRFs and IGP's configured in a large number of VRFs, may cause the system to restart unexpectedly, leading to traffic loss. (376773)
- When deleting and re-adding a VRF in quick succession either manually or via config-replace, BGP routes may remain unresolved.

The workaround is to delete and recreate the VRF as a first attempt, and restart the Bgp Agent as a last resort. (377648)

- Certain IPv4(6) BGP routes that were intermittently marked as looping due to a loop in the nexthop resolution may not get installed in RIB and FIB, eventhough the BGP path is active in the BGP table. This issue can cause loss of traffic for any incoming packets expecting to be routed based on the missing route. (415865)
- If Ethernet Segment Identifiers are moved between interfaces using configure replace, EVPN type 4 Ethernet Segment Routes may not be generated causing the switch to not participate in Designated Forwarder election for that Ethernet Segment. (420873)
- When OSPF graceful restart is configured in mulitple VRFs in multi-agent mode and routes are redistributed into OSPF and SSU or SSO is executed, OSPF may withrdaw the external LSAs for the redistributed routes temporarily, causing traffic loss in OSPF peers. (421252)
- Bgp agent may unexpectedly restart if import of both remote VPN peer paths and locally redistributed/network paths are configured (423096)
- In an EVPN deployment, a device reload may result in some MAC/IP Advertisement routes with non-zero IP addresses not being advertised. Refreshing the associated MAC address table or ARP table entry will enable advertisement to proceed. (424191)
- When configuring multiple VLANs at the same time to use BGP EVPN as the control plane, the BGP agent may crash due to race condition. (425573)
- If next-hop-self is explicitly configured for an eBGP peer (using 'neighbor <> next-hop-self' command) and the peer is also activated in EVPN address family, the BGP agent can unexpectedly restart. The explicit next-hop-self configuration for the peer should be removed to avoid this. (431680)

- The sFlow or MSDP agent, when configured with BGP extension, may unexpectedly restart when BGP routes are being removed. (432001)
- The Bgp agent may restart unexpectedly if auto-local-addr is configured on a neighbor that is in the process of being established. (433805)
- When using EVPN MPLS IRB, an ARP request from a host at a multi-homed site that is targeted at another host in the same site, may result in the PE of the site sending an unexpected proxy reply towards the requesting host. The proxy reply sent by the PE may incorrectly modify state in any switches within the site, making them learn the target host MAC on the PE port, resulting in transient connectivity issues. (438142)
- If reachability of a path changes while awaiting convergence, the state may not be updated during post-convergence processing (439871)
- Changing IPv6 next hop of 6PE routes via the outbound route map causes incorrect label advertisement of explicit-v4-null (0) (442283)
- Routes may not be updated in the kernel when its next hop gets resolved via a drop route. (444682)
- Applying an inbound route map to change the next hop of a 6PE route makes the route invalid (445187)
- Mpls agent may consume high memory and can restart unexpectedly if there is a large amount of churn in vpn-ipv4 or vpn-ipv6 nexthops present on the router. (450048)
- ISIS/OSPF/OSPFv3 agents can restart unexpectedly if interface static routes over tunnel interfaces are redistributed into them. The workaround is to configure gateway static routes using nexthop IP instead of interface static routes. (450213)
- IS-IS SR LFIB may be deleted and recreated if the ECMP resolution for IS-IS SR adjacency segment changes (457220)
- When a large number of updates are backed up in the transmit socket buffers, it may sometimes lead to the BGP neighbors session getting stuck in Idle (PendingNotification) state when the session reset is attempted and BGP is unable to send a notification. Not being able to send out updates may lead to traffic misforwarding or drops. (466575)
- Sometimes BGP (multi-agent) would advertise an incorrect originator-ID when sending updates to iBGP clients when configured as route-reflector. The problem only manifests when different paths (could be paths belonging to the same prefix or different prefixes) have the exact same path attributes, including NextHop. The problem corrects itself if the paths are resent to the route-reflector from the source whose paths had the incorrect

originatorId. This problem can manifest with add-path configuration as well when the additional paths have the same path attributes. (472025)

- When a new peering gets established, BGP IAR tracking phase may get stuck in the 'waitingRibInstall' phase. This results in BGP LU LFIB or FIB update getting suspended.
To recover, clear all the BGP sessions by issuing 'clear ip bgp *'. (473953)
- During BGP graceful restart, 'update wait-for-convergence' behavior is unnecessarily forced for AFI-SAFIs which do not have graceful restart configured (either specifically per AFI-SAFI or globally). (478038)
- In Multi-agent model, EosSdk ip route does not work as the route is set with invalid route type. (478236)
- Bgp agent may restart unexpectedly when 'bgp always-compare-med' option is configured and large number of competing paths for the same prefix from several neighbors with different MED values are present (482275)
- During SSU or SSO, 'update wait-for-convergence' behavior is unnecessarily forced for AFI-SAFIs which do not support SSU or SSO. (483591)
- UCMP is not supported for FECs pointed to by routes in a VRF which are the result of reachability information learnt outside of BGP IPv4 and IPv6 unicast address-family (e.g: L3 EVPN, L3 MPLS VPN, BGP-LU, 6PE, etc)

If UCMP is enabled for BGP in such cases, the IpRib agent may restart continuously when processing FECs for such other address-family routes. (487511)

- If multiple dynamic BGP peers are present in a peer-group and the peer-group has a prefix-list in the configured inbound policy, the inbound policy may not get re-evaluated for all the dynamic peers on modification to the prefix-list.
"clear ip bgp *" or BGP agent restart can be used to re-evaluate the input policy correctly when this happens. (504936)
- BGP Fallback AS is not supported for dynamic BGP peers (507024)
- At large route scale, the restart of either the Bgp agent or the IpRib agent may cause repeated restart of the IpRib agent (508763)
- When BGP additional-path install is configured, the usage of ECMP FEC resource increases. (514388)
- If a BGP peer (or peer group) description is longer than 255 characters, polling the aristaBgp4V2PeerDescription MIB object may fail. In addition, if BGP traps/notifications are enabled, the Snmp agent will restart whenever it attempts to send the aristaBgp4V2BackwardTransitionNotification trap.

Workaround: Limit the BGP peer(group) description to 255 characters.
(528521)

- A switch configured with MPLS EVPN may proxy reply and not flood a gratuitous ARP announcement message, which may prevent cluster failover migration of a virtual IP to a new server. (541463)

Rib

- When both IPv4 LU and IPv6 LU are enabled, the BGP tunnel table may enter an inconsistent state that requires a clearing of neighbors. (384365)
- In the ribd routing protocol model, prior to EOS 4.21.3F release, the command
"neighbor <peer|peer-group> send-community extended" (under "router bgp")
will result in both standard and extended communities being sent
(in outbound route advertisements) to the corresponding peer.

Starting with EOS release 4.21.3F this behavior has changed. The command
"neighbor <peer|peer-group> send-community extended" will result in *only*
extended communities sent to the peer.

If the previous behavior is desirable, then the command
"neighbor <peer|peer-group> send-community" without additional keywords
can be used. This command will ensure that all applicable community types
are
included in outbound route advertisements for the peer.

This change can be done in any release (running EOS version 4.18.1F or
newer)
prior to the upgrade to EOS 4.21.3F (or newer) release.

EOS 4.21.3F or newer releases allow much more granular control of what
community
types (standered, extended, large communities etc.) are included in the
outbound
route advertisements. (384629)

- Under extreme circumstances, the area leader may exclude itself from the dynamic flooding topology. (425590)
- The dynamic flooding algorithm to compute the flooding topology picks a start node to begin the computation. When that node is partitioned from the Area Leader, the nodes in the Area Leader's partition will not be in the flooding topology. This causes the problem of that partition being exposed to a congestive collapse. This problem lasts until the LSPs of the incorrect start node are timed out, which is typically 20 minutes but could be

different if lsp refresh interval is configured).

Suggested workaround: To reduce the probability of this happening, prioritize the Area Leader to be the node with the highest degree of connectivity. Configuration statement:

```
arista(config-router-isis)#area leader priority ?
```

```
<0-255> Area leader priority
```

This workaround will not work in all situations since connectivity of a node will change and there may be multiple nodes with the same degree of connectivity. But it does reduce the probability of hitting this bug for a given topology. (429480)

- In the presence of tie breaker configuration for ECMP paths, the Rib agent may exit unexpectedly while handling BGP updates for a prefix having ECMP, when some paths of the given prefix are undergoing metric change. Workaround is to remove tie breaker configuration. (444000)
- In extremely rare circumstances when additional paths send any is enabled and a neighbor continuous route churn for same NLRI may trigger Rib restart (465132)

MLAG

- If non-MLAG reload-delay is configured to be lower than the MLAG reload-delay when LACP standby is used, traffic entering the non-MLAG interfaces destined towards hosts on the MLAG interfaces will be lost during the LACP standby period. (83330)
- Vxlan Controller Service flood lists will be lost during ISSU causing an interruption to BUM traffic (430867)
- When MLAG dual primary recovery delay is active, and the config for recovery delay is removed, the interfaces will errdisabled indefinitely. (433059)
- Maintenance enter operation may be stuck for System unit on an MLAG switch after upgrading from an older release and Mlag agent may restart unexpectedly while exiting maintenance mode. To workaround, create a user-configured unit with all the BGP and interface groups of System unit and use the user-configured unit for maintenance operations instead of System unit. (483610)
- MLAG ISSU breaks on a switch running a version of EOS < 4.20.5 if it receives ARP entries from the VXLAN Control Service (VCS) while the peer has been upgraded to EOS version >= 4.20.5 (497776)
- In a MLAG VXLAN deployment, the VxlanSwFwd agent may restart when receiving a Gratuitous ARP. (507878)

MPLS

- After rebooting or performing a configure replace, some MPLS routes may not be programmed.
A workaround is to restart the Mpls agent or Layer 3 forwarding agent. (428105)
- The 'hardware next-hop fast-failover' configuration may have not function correctly on a router with port-channel interfaces configured. (439078)
Series Affected: DCS-7500E, DCS-7500R and DCS-7500R2 Series
- When the refresh overhead reduction extension is used, some RSVP messages may never be sent out (shown as "State: path-only" under "show mpls rsvp session").
As a workaround, the extension can be turned off and on again. (441063)
- Arp agent may crash continuously in cEOS-lab container when a static MPLS route pointing to a nexthop-group is configured. (477494)
- MPLS agent might restart due to route churn in FIB containing large number of routes. (526406)
- If MPLS agent restarts when LFIB contains BGU-LU MPLS routes that resolve over ISIS-SR tunnels, the mentioned LFIB routes might not be programmed after restart.

The workaround is to configure 'fib sharing igp tunnel disabled' command under segment-routing CLI model. (529085)

- Excessive toggling of the 'mpls ip' or 'ip routing' commands may cause the LDP label range to be exhausted. (539317)

Multicast

- An S,G route may not properly cleanup previously sent S,G joins. This would prevent S,Gs from being deleted in the upstream router. A work around is to flap the interface in which the join is sent on. (291756)
- In an environment with a very large number of MSDP peers, during cleanup the Msdp Agent may crash. (354364)
- If large number of IGMP reports are received in a very short interval, some of them might get dropped resulting in the multicast route not being created. The routes will be re-learned on the subsequent query interval. If "show cpu counters queue" shows consistent drops under "CoppSystemIgmp", consider increasing the bandwidth for this Copp class. (356675)
- With a scale of few thousand multicast route, and multicast traffic stopped and restarted after a while (> 5mins) some routes might get into a

fastdrop state causing loss of multicast traffic. Clearing the affected multicast route can be used as a work around. (380214)

- Fast reload fails when multicast is configured on a non-default VRF that is not PIM enabled. The default VRF is always PIM enabled, but a non-default VRF is PIM enabled when it contains at least one PIM interface. Workaround is to enable a PIM interface on each non-default VRF. (398256)
- When using Igmp host proxy, longer than expected traffic gaps might be seen when proxying source specific joins. (408784)
- Changing PIM DR priorities while PIM SSM IPv4 Non-DR OIF installation feature is enabled on multiple interfaces with thousands of multicast routes on 7050 and 7300 platforms results in device getting into a bad state with ACLs. Once the device is in this state, the device needs to be rebooted. Disable the feature and change the priorities and then reenables the feature in order to not get into this state. (416636)
- If a VRF is removed while it has active multicast routes, the Multicast Agent can restart unexpectedly. (418028)
- In an environment with a very large number of MSDP peers, during cleanup the Msdp Agent may crash. (418190)
- When IGMP snooping proxy is not enabled and there is multiple IGMP queries on a VLAN, the membership of the VLAN may prematurely age out if multiple general queries are received in quick succession. This will result in traffic loss. (422416)
- Pimsm could restart when link is flapped while route to RP changes. (443240)
- The first SA msg send from one Msdp Peer to another could be delayed up to 60 seconds. (444449)
- When static multicast routes are configured, in some cases the IgmpHostProxy agent may not create reports for all of the mroutes. As a workaround, after this occurs, deleting and recreating the static mroute should fix the IgmpHostProxy agent state. (449133)
- Hosts attached to a VLAN could see an increased delay in receiving the initial multicast stream at times when the host sends reports at certain low latencies. (475942)
- High CPU utilization might be observed for the forwarding agent when PIM Bidir routes are present. (479119)
- When using Sfe based forwarding configuration, the BessMgr agent may restart unexpectedly when multicast packet size is greater than 1500 bytes (481192)
- If MLD Snooping is configured, IPv6 multicast packets may not be bridged as expected in a PIM SM or PIM SSM non DR VLAN. (493226)

Series Affected: DCS-7020, DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series

- BessMgr agent could restart unexpectedly when resolving a large number of unresolved packets at once. (495863)
- Removing router pim bsr also remove router pim sparse mode configuration. Workaround is to just remove specific configuration under router pim bsr mode. (516188)
- If the SandMcast agent restarts while IPv6 multicast routes are programmed, the routes may become incorrectly programmed. The programming of the IPv6 multicast routes can be corrected by toggling IPv6 multicast routing off and back on. (519865)

Series Affected: DCS-7020, DCS-7280CR2, DCS-7280CR3, DCS-7280DR3, DCS-7280PR3, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R, DCS-7500R2 and DCS-7500R3 Series

- Using "software-forwarding sfe" for software forwarding of multicast packets does not work on x86_64 version of EOS. (537616)
- Forwarding agent might unexpectedly restart or use incorrect RPF setting during unicast route churn. (539478)

vEOS Router / CloudEOS

- The OpenFlow agent fails to handle packet-in messages (145001)
- When several IPsec tunnels are up and traffic is passing through them, removal and addition of a IPsec license may cause the the Ipsec agent to restart.

The workaround is to shutdown all the interfaces before the IPsec license is removed and reapplied and then do a "no shutdown" on the tunnel interfaces. (248213)

- A reboot due to a kernel panic can happen during first 10 mintues of vEOS bootup on Microsoft Azure. The kernel panic occurs because of a task blocking without being scheduled for more than 300 seconds in "D" state. (249618)
- Interface may be allowed to be configured with un-supported speed of NIC using "speed <speed>", which will cause PhyEthtool agent crash. Do not use "speed <speed>" command to configure interface speed that NIC does not support. (264395)
- When running vEOS devices in Sfe mode with interfaces having an MTU of 9214, users may encounter a scenario where not all routes are propagated through the network. The workaround is to have interfaces use an MTU of 9202 or less. (289886)

- On vEOS Router in Sfe/DPDK mode with many GRE/IPSec tunnels, changes to configuration may cause a long time to be applied to the datapath. (349552)
- When loading a vEOS instance in an Azure cloud, it is possible for the device to experience a kernel panic just after bootup, causing the device to reboot a second time. (354411)
- In an EVPN IRB deployment on vEOS, changing the VXLAN source-interface interface may result in EVPN ip-prefix routes not getting installed into one or more VRFs for one or more remote VTEPs. (369816)
- When multiple IPSec connections are created, some with AES encryption and some with NULL encryption and NULL authentication, bessd will crash when decrypting the IPsec packets encrypted with NULL encryption and NULL authentication. (378590)
- Under limited circumstances, vEOS may experience issues with data plane traffic (471392)
- CloudEOS supports upto 600K BGP routes with 8G of system memory; If 800K BGP routes are programmed, out-of-memory condition will kill random processes.

Out-of-memory issue can be mitigated by increasing the system RAM to 12G to program 800K BGP routes. (478214)

- Irregularities in how VXLAN packets are forwarded on CloudEOS. (486331)
- If IPv6 or multicast packets are sent to vEOS on two or more interfaces vEOS forwarding engine can crash. Disable IPv6 and mcast configuration on the interfaces of the neighboring routers connected to vEOS. (497553)
- An improperly formatted TCP MSS option can trigger a Sfe dataplane restart. (504565)
- When the Sfe data plane flow cache has reached capacity, IpSec packets which bypass the flow cache can trigger a data plane restart. (507937)
- Reusing a VNI previously used by VRF-A on VRF-B will affect traffic on VRF-A.

The workaround is to restart the software forwarding engine (Sfe) agent. (523066)

- Changing the mapping of Vrf to VNI (VXLAN Network Identifier) twice will cause the software forwarding engine (Sfe) agent to restart. There will be a brief moment of traffic loss which will recover eventually. (539064)

DCS-7150 Series

- If a multicast boundary is applied on an SVI which also has IGMP snooping enabled, IGMP snooping will not take effect. (138610)
- On DCS-7150 series, FocalPointV2 agent might restart if a misbehaving host creates a large number of new connections in quick succession, without sending data.
This issue can be prevented by configuring NAT connection limits for such hosts. (149634)
- Further improvements to reduce the probability of watchdog reboots due to SEUs on the switch chip (501119)

DCS-7170 Series

- On the DCS-7170 series MLAG protocol traffic shares the same CPU queue with traffic destined to CPU. A burst of such traffic, destined to CPU, can lead to MLAG flaps. It will recover automatically when the burst is over. (449993)
- The maximum MTU supported is 9210 bytes instead of 9214 bytes. (457427)
- When performing egress multicast nat, only the 19 least significant bit of the mac address is updated. (459603)
- On the DCS-7170 series L3 protocol traffic shares the same CPU queue with traffic destined to CPU. A burst of such traffic, destined to CPU, can lead to protocol flaps. It will recover automatically when the burst is over. (464981)
- On DCS-7170 series, a policer configuration with burst unit in mbytes will result in continuous crash of BfnQos agent. Remove the configuration to recover, and the issue can be worked around by specifying the burst in kbytes. (469790)
- IPv4 Multicast routes may be prematurely aged out (472845)
- If the system experiences a persistent configuration churn, an internal consistency check may cause a forwarding agent restart, which incurs a 100ms traffic outage. (474987)
- Hardware errors in the switching ASIC may get silently ignored after an initial reporting. (484277)
- Irregularities in how VLAN packets are forwarded on DCS-7170 platforms (486735)

DCS-7170 Series

- When a monitor destination is continually congested due to fan-in/high rates of traffic, and LAG is used in the system, the slice agent may restart when there is LAG membership change or port status change. (516260)
- This is a debug issue. Some dropped packets are not accounted while they should be counted as "Invalid Egress Port" drops on the output of "show platform barefoot drop counters". The packets are dropped by the traffic manager but retrieving this counter is not available on some releases. (535991)

CCS-720XP Series

- Under heavy CPU load, the Strata agent may unexpectedly restart because of a timeout. (348087)
- If link speed is changed on a 2.5G interface, Strata forwarding plane agent may unexpectedly restart with "Process died with signal 3 \ (SIGQUIT\)" signature. Subsequent restart of the Strata agent will resolve the issue. (368424)
- The forwarding slice agent may restart unexpectedly when a SEU is encountered in the BSC_AG_AGE_TABLE during initialization. This may result in brief traffic outage. Switch is expected to start normal operation after the agent restart. (417588)
- MacBasedAuth Configuration is not honored after switch is rebooted on Sand based platform. User can enable MacBasedAuth by flapping MacBasedAuth Config on the port after switch restarts. (423084)
- When two or more hardware flow trackers are configured the forwarding agent may restart unexpectedly. In this case even if the extra flow tracker is removed the forwarding agent may continue to restart.

Workaround is as follows:

- 1) Do "shutdown" on the "flow tracking hardware"
- 2) Remove all flow trackers except one in the flow tracker config. Only one flow tracker can be present at a time.
- 3) Do "no shutdown" on the "flow tracking hardware"

In case the above doesn't work you need to remove flow tracking hardware by doing:

```
(config)# no flow tracking hardware  
and reconfigure flow tracking hardware and add only one flow tracker. (426694)
```

- When the configuration has "dot1x authentication failure action traffic allow vlan #", "switchport phone trunk untagged" and "switchport phone vlan

VLAN#", the Dot1x agent crashes while handling the failure of a tagged EAPOL authentication attempt, if the VLAN in the tag is the same as the one configured in "switchport phone vlan" (435372)

- Dynamic Authorisation(DM/CoA Messages) requests for MBA users will be discarded if userName format is configured for MBA supplicants. Use default values of userName format to use Dynamic Authorisation for MBA supplicants. (441137)
- Speed changes and link flaps can cause a slow memory leak and an unexpected restart of the Strata forwarding plane agent. System is expected to recover and start normal operation following the restart. (441847)
Series Affected: CCS-720XP Series
- In multi-host authenticated mode, switch may send out untagged unicast identity requests to the tagged EAPOL supplicants which may cause them to not respond to the identity requests breaking their authentication. (447422)
- Dynamic Authorisation response packets(i.e. ACK/NAK sent by NAS to AAA) may be ignored by AAA server if NAS is configured to use loopback interface. (457009)
- When a device behind phone/hub/switch connected to Arista switch is authenticated via Dot1x MAC Based Authentication, it cannot be moved to different port if dynamic VLAN is not received or dynamic VLAN is same as native VLAN. (477280)
Series Affected: CCS-720XP Series
- Authentication of any data device behind a tagged phone will fail after the phone is authenticated and authorised via EAP in phone VLAN on that port. Also, if a data device authenticates before tagged phone doing EAP, the authorisation of phone in phone VLAN will fail. (490365)
- PTP timestamps may occasionally jump 4 seconds back in time. The switch will recover on its own after a few minutes of synchronizing with the PTP grandmaster again. (490501)
- If a MBA supplicant is put in authentication failure VLAN on devices that support MAC based VLAN assignment, MAC move for the supplicant won't trigger MBA on the new port. (493172)
- On phone trunk ports which are not controlled by Dot1x, phones do not honour port-security max-address limit and get installed in the L2 table even after the port-security limit is breached (494095)
- NAS sends two EAPOL identity requests in response to EAPOL start from supplicants. This can cause authentication timeouts for some Windows supplicants. (498610)

- Executing ASU with phone trunk ports configuration can lead to Dot1x agent being killed. (503859)

DCS-7160, DCS-7170, DCS-7280R and DCS-7280R2 Series

- The AlgoMatch forwarding agent will restart when config replace is used to configure access-lists with large number of rules. (240540)
- Following a physical error on link between Jericho and Algomatch FPGA the SandHalo agent may restart, causing ACLs to be removed and reinstalled. (283917)
- When an acl configuration is applied to a large number of SVIs in a configuration session, the acl configuration fails. (367513)
- A SEU can occur on the Jericho side of the ELK interface to the Halo fpga. These error interrupts can happen for other reasons like oversubscribing the ELK interface, but if they persist, they are usually the result of a SEU. This results in dropped control packets from SandHalo and SandHalo will continuously crash. A reboot or linecard reset is required to clear this condition. (486369)

Series Affected: DCS-7280R2 and DCS-7500R2 Series

- Under certain conditions where small packet are bursting across many interfaces, chip can get in a state of dropping half packets coming into the chip. (488904)
- If the Scd agent unexpectedly restarts, FPGAs controlled by the agent could remain in an uninitialized state. The SandFap agent may then unexpectedly restart with a hardware initialization timeout error.

A workaround is to configure "hardware access-list mechanism tcam". Doing so will have the side effect of disabling AlgoMatch. (501810)

SKUs Affected: DCS-7280CR2A-30, DCS-7280CR2A-60, DCS-7280CR2K-30 and DCS-7280CR2K-60

7368, DCS-7300X and DCS-7500R Series

- When many IPv6 routes are configured and the BFD protocol in use, BFD sessions may flap when a linecard is removed or shut down. (279129)
- ManagementActive Agent crash repeatedly in rare corner case and Management0 interface is not reachable in Modular systems. Doing switchover will address the issue. (369565)
- Hotswapping a card may cause a kernel panic and the switch will reboot unexpectedly. Not running traffic on the card before powering down will make this hit less frequently, but it may still hit. (387173)

- BFD sessions may flap when a standby supervisor is inserted after the active supervisor is already online. (431652)
SKUs Affected: 7300-SUP, DCS-7500-SUP2, DCS-7500E-SUP and DCS-7516-SUP2
- After a stateful switchover, EOS may not monitor chassis power failures. This may result in cards staying powered off even if the chassis power recovers. (486749)
SKUs Affected: DCS-7516-SUP2 and DCS-7516-SUP2-D
- All fabrics and linecards may power down upon removal of the active supervisor (490109)
SKUs Affected: DCS-7516-SUP2 and DCS-7516-SUP2-D
- On modular systems with redundant supervisor cards, if the standby supervisor has connected management interfaces, ZeroTouch provisioning may fail to download a configuration from any connected DHCP servers. The workaround is to "shutdown" the management interfaces on the standby supervisor. (507185)

CCS-720XP Series

- All fans will spin to 100% when one out of two power supplies is not inserted. (435602)
Series Affected: CCS-720XP Series
- PoE ports that are able to classify but do not power on for an extended period of time may cause Sysdb memory usage to grow, eventually resulting in out-of-memory events, particularly with TerminAttr

A workaround is to configure "poe disabled" on the affected ports (528060)

SKUs Affected: CCS-720XP-24Y6, CCS-720XP-24ZY4, CCS-720XP-48Y6 and CCS-720XP-48ZC2

DCS-7020, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500E, DCS-7500R, DCS-7500R2 and DCS-7500R3 Series

- When the SandMcast and the SandFap agents are restarted, the VLAN floodset may not contain all the ports for several minutes. (67439)
- In scenarios with continuous MAC address flapping where VXLAN remote VTEPs are being added and removed, the forwarding state for hosts pointing to some remote VTEPs may be incorrect. This may lead to brief misforwarding of packets or a restart of the SandMact agent (68683)
- When in MLAG mode without ip routing enabled, under some control plane oversubscription scenarios the MLAG peer link might come down. The workaround is to either enable IP routing or have a static ARP entry on the MLAG peers for each other. (90247)

- An IPv6oGRE packet terminated using decap-group with a host route destination IPv6 address will be dropped.

The workaround is to disable exact match host routes using "no platform sand ipv6 host-route exact-match". (95873)

- On DCS-7280E, DCS-7500E series, DCS-7050X, DCS-7250X, and DCS-7300 series switches, the vlan tag on IGMP messages(report, query, leave) generated by the switch is not translated in the egress direction by the switchport vlan mapping command. (113104)
- Some packet loss may be observed when IP multicast traffic has high fanout on a single physical port (e.g. trunk port with many receivers for the same multicast group on different VLANs), even when the total egress packet rate is well below linerate. The default egress buffer settings may not perform well under this scenario. This issue can be resolved by adding "platform arad buffering egress port multicast max-queues-full 1" to the switch config and rebooting the switch. (115343)
- MAC mirroring ACLs do not match IPv6 packets. (137537)
- On a device with with a large number of active VLANs, doing "shutdown" and "no shutdown" on many interfaces may cause the SandMcast agent to restart. (175529)
- Mirrored traffic is not subject to egress security ACLs which are applied to mirroring destination ports. (190637)
- PBR is not supported along with IPv6 in IPv6 packets. (193914)
- On 100M interfaces acting as IEEE 1588 slave ports, restarting IEEE 1588 may cause ingress timestamps to spike by as much as 100s of ms.

A workaround would be to reset the interface after restarting IEEE 1588. (218386)

- Acl and related features that use TCAM for rule matching do not work correctly on packets with IPv6 extension headers if the rules have layer 4 match criteria such as tcp flags and source/destination ports. (221161)
- If an ACL is attempted to be applied on a subinterface, whose parent port is not a routed port, the CLI will timeout. (229537)
- PBR policies applied on interfaces do not work if the interface has some subinterfaces that also have PBR policies applied. (243286)
- VTEP cannot learn a remote host's MAC address from VXLAN encapsulated IPv6 Neighbor Advertisement packets received from that host. This might be an issue in a pure IPv6 depolymnt where the VTEP does not receive any bridged traffic from the host. In such a scenario, the traffic toward the host will be

flooded in the VLAN.

The work around for this is to force Neighbor Solicitation (NS) packets from the host for its gateway or send bridging data traffic from the host. (246676)

- ACL/PBR/QOS will not take effect on ports with VLAN Translation configured. (246982)
- A TCAM profile not compatible with all linecards in a system will not be installed on any linecard in that system. However, hardware tcam profile status may show erroneously that the profile is installed on compatible linecards.

Removing the incompatible linecard(s) or use a TCAM profile that is supported by all linecards in the system. (247842)

- The platform Slice agent may restart unexpectedly when sflow hardware acceleration is enabled or disabled. (247895)
- VXLAN bridging traffic sent out of LAG interfaces may be temporarily dropped after an SSO event. (251398)
Series Affected: DCS-7500E and DCS-7500R Series
- When linecards are powered on/off, there may be a traffic loss for a short duration on the interfaces where vlan mapping feature is configured. (254476)
- Unknown unicast and multicast packets are unnecessarily copied to CPU after VXLAN decapsulation when there is an SVI configured on the VXLAN VLAN. (258990)
- When a bidirectional PIM multicast receiver is connected to only one MLAG peer switch, the IGMP reports from the receiver may get dropped resulting in multicast traffic drops towards the receiver. (259308)
- Egress acl deny logging does not work when the packet is destined to a RFC5549 next-hop. (264045)
- When a DirectFlow flow is created with an action to drop the outer tag, the packet is still leaving the interface tagged. (264336)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- When a physical port (e.g. Et1) is removed from a Port-Channel (e.g. Po1) that has subinterfaces configured (e.g. Po1.1), and there are subinterfaces configured under that physical port (e.g. Et1.1), the subinterfaces under the physical port can be incorrectly programmed. This results in traffic being dropped for the incorrectly programmed subinterfaces.

The workaround is the flap the subinterfaces affected. (269823)

- If one or more linecards in a modular system is running in tap aggregation mode, a small percentage of multicast traffic on linecards running in normal mode may be dropped, following a change to membership of some tap aggregation destination groups. (275286)
- After applying or removing shaping configuration on an L2 subinterface, the L2 subinterface must be flapped for the configuration to take effect. (278730)
- PIM multicast traffic may experience a brief interruption when one or more linecards on the same modular chassis enters or leaves TAP Aggregation mode. (279972)
- When the primary and fallback policy are both changed in the same config session, traffic may stop matching on either primary or fallback policy. (287146)
- When primary and fallback policies are both changed in the same config session, some packets will not be subject to either policy for a brief period during the configuration change. (287154)
- Power cycling a 7500E linecard in a chassis with 7500E fabric modules can cause packet loss on 7500R linecards. (295825)
- When both port-channel load balance for multicast and selective ingress replication is configured, groups that get ingress replicated incorrectly replicate packet to each member of port-channels that are member of the group.
As a workaround one of the features has to be disabled. (344650)
- With MPLS pop routes and IP egress ACL configuration, restarting the L3 forwarding agent may lead to another unexpected restart. (349534)
- While in Tap Aggregation mode, if VXLAN header stripping is enabled on a Tap port and recirculation is required, policy maps applied on such a Tap port may not take effect. Moreover, unrelated traffic from other Tap ports may be misdirected to the tool group to which the policy map may direct the stripped VXLAN traffic. (371416)
- While in Tap Aggregation mode with VXLAN tags stripping feature enabled, forwarding of VXLAN tagged packets will be disrupted if the Sand agent or the SandFap agent restarts.

Reconfiguring the VXLAN tag stripping feature on the relevant tap ports will restore functionality. (372603)

- When the DirectFlow action 'output nexthop' is applied, the TTL for the redirected bridged packets is set to 255. (375100)

- If the SandFap agent has a high CPU load, PTP timestamping for the associated ports managed by the SandFap agent may be incorrect until the CPU load is reduced. (381033)
- Ethernet over MPLS packets being terminated and decapped on a LDP pseudowire will be hashed as if the inner header is IPv4 rather than Ethernet (382763)
- In the presence of virtual MAC with mask configuration, packets that undergo recirculation may not be properly forwarded. The workaround is to eliminate the configuration that causes the recirculation to happen. (387535)
- If VXLAN is configured, PBR and QOS policies won't apply to traffic ingressing on a MLAG peer-link. (390804)
- BGP Flowspec and Cpu Traffic Policy may be unable to recover from programming failure when there is initial TCAM bank exhaustion, but at a later time, TCAM banks do become available and the feature is then applied to another interface on another forwarding ASIC. The workaround is to remove and reapply the feature on all the interfaces. (393500)
- Traffic subject to CPU traffic policy `_policer_` action will not be `_forwarded_`. This includes multicast control traffic which is replicated to both the CPU but also forwarded (e.g. PIM, OSPF HELLOs, etc.). Unroutable unicast traffic is also flooded, and so will not be forwarded if matched by a CPU traffic policy policer action. An example policy of concern is

```
traffic-policies
  traffic-policy EXAMPLE
    match PIM ipv4
      protocol pim
      actions
        police rate 1024 kbps
```

In this example, PIM control packets would be policed to 1024 kbps to the kernel, but dropped completely on any outbound interface.

NOTE: If the traffic subject to policing is only bound for the CPU port (e.g. unicast control plane traffic such as BGP packets), there is no impact. (395561)

- Sometimes Macsec Proxy interface gets into error disabled state on reload when fips is enabled.

To workaroud the issue configure errdisable max flap value; i.e., "errdisable flap-setting cause link-flap max-flaps 24 time 10". Note the setting is global and affects non Macsec Proxy interfaces as well. (396589)

- On PTP enabled switches, CRC errors may occur in internal time synchronization that can cause PTP time to be unstable. PTP time will recover stability on its own after a few seconds. (399179)
- Insertion of a fabric module may cause brief traffic loss on the device (402508)
SKUs Affected: 7504R3-FM and 7508R3-FM
- PTP time will temporarily be incorrect if the SandFap agent hangs for more than 32 seconds. The PTP time will recover on its own after a few minutes. (403095)
- Applying ipv6 ACL and then bringing up any lag subintf will allow traffic not matching any rule to flow through.
Reapplication of the ACL resolves the issue. (404160)
- When configure replace is used to configure large acl configurations, the configuration might time out and the new configuration may not apply. The workaroud is to make smaller changes in the acl configuration. (404797)
- In the event of a SSO, reload, or SandTunnel agent restart, sub-interface, VLAN Translation, LDP MPLS Pseudowires, and other features that require egress VLAN tagging may mis-forward and not tag egress traffic.

The workaroud is to re-configure these features to correct hardware programming corruption cause by the SSO, reload, or SandTunnel agent restart event. (405157)

- Advertising BGP Flowspec rules with police action while having insufficient TCAM space may cause the SandAcl agent to restart. (405381)
- Advertising BGP Flowspec rules with police action while having insufficient TCAM space may cause the SandAcl agent to restart. (405663)
- With scaled Acl configurations, SandAcl agent restart may result in additional agent restarts. (408260)
- When an ACL with a 65K or more rules is applied to an interface, SandAcl agent will continuously restart. Workaroud is to remove the ACL from the configuration. (409638)
- With multiple configuration operations, such as add/modify/delete, on QoS policy maps, a restart of SandAcl agent may result into a core file and hitful operations for a brief period when 'feature qos mac' is in use. (410390)

- If a large number of BGP Flowspec rules (> 5000) with policer actions configured are programmed and a port channel with BGP Flowspec applied to is shut and unshut, the filtering actions may fail to program and the SandAcl agent might restart unexpectedly.
To recover from this condition, reduce the number of policer actions configured to 5000 or fewer. (411635)
- When the DirectFlow 'priority' keyword is set greater than 65534 the configured priority will not be set to the correct value and the SandAcl agent may continually restart. (412206)
- With "ip pim spt-threshold infinity" configuration and having 10K or more Ipv4 (*,G) multicast routes, in addition to what hardware can accommodate, SandMcast agent may restart repeatedly. Work-around is to reduce the scale of (*,G) multicast routes to a number that can fit in hardware. (415164)
- Configuring 4094 different Egress IPv4 RACL on 4094 SVI will cause repeated SandAcl Agent crash.
No workaround is available except for scaling down Egress IPv4 RACL. (415577)
- A switch reload with qos policy configured may result in SandAcl agent restart. (417935)
- Control plane connectivity on ports in 802.1q tunnel mode will be affected if the port mode is set to 'dot1q-tunnel' after the access VLAN is configured. The workaround is to set switchport mode to dot1q-tunnel first, then set switchport access vlan. Similarly, the access VLAN needs to be cleared before clearing the port mode when unconfiguring. (419766)
- When a BGP Flowspec rule changes both its priority and the action(s) to be applied on matching traffic, the new action(s) may not be honored. (421495)
- Storm control maximum burst size is fixed to 10kB which can lead to storm control drops for bursty incoming traffic. (423231)
- EventMgr Agent may crash after a manual linecard hotswap. A temporary workaround is to remove EventMgrSandVoqDeletePlugin via "rm /usr/lib/EventMgrPlugin/EventMgrSandVoqDeletePlugin" and then restart EventMgr via "agent EventMgr terminate". This will remove the capability of VOQ Delete event management. (424250)
- With WRR scheduling on many ports and linerate across multiple traffic classes there can be a small amount of egress buffer drops. (425123)
- When using an L2 EVPN MPLS configuration, if all the member interfaces of a port-channel go down and come up, L2 EVPN MPLS forwarding may fail.

The workaround is to restart SandTunnel Agent or to do a "shut" and "no shut" on the port-channel. (426351)

Series Affected: DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280TR, DCS-7500R and DCS-7500R2 Series

- Applying a CPU Traffic Policy with policers while policer resources are exhausted may cause the SandAcl agent to restart unexpectedly. (426395)
- Sometimes on reload MACsec sessions on MACsec proxy ports stay down when FIPS restriction is enabled. (430728)
- Configuring the maximum TCAM bank limit while having a number of banks allocated for BGP Flowspec larger than the configured limit may cause both the SandAcl and SandTcam agents to restart unexpectedly and continuously. To recover from this, the device must be rebooted. (432441)
- In Tap Aggregation mode, there is a small timing window where MAC addresses could be learned on an interface which is a member of a port-channel if its link state is toggled repeatedly. The effect is that traffic will be dropped if the destination MAC matches these learned addresses.

Use ``clear mac address-table dynamic'` to clear the MAC address table. (432544)

Series Affected: DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SE, DCS-7280SR, DCS-7500R and DCS-7500R2 Series

- After configuring a Vxlan interface, egress traffic will be tagged with vlan 0 if it enters the switch on an l2 subinterface. (432767)
- The following commands, "show ip[v6] hardware fib routes", "show ip hardware ale l2-adj", and "show ip[v6] hardware fib fec" when used with very large output may crash SandL3Unicast agent when interrupted via control-c or by quitting pager. (433841)
Series Affected: DCS-7020, DCS-7280CR2, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280SE, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- Pbr may be unable to recover from programming failure when there is initial TCAM bank exhaustion for a named policy, but at a later time, TCAM banks do become available and the policy is then applied to another interface on another forwarding ASIC. The workaround is to remove and reapply the named policy on all the interfaces. (434114)
- TCAM banks will not be released if the max bank CLI command was configured while more banks were allocated than the configured limits. For the banks to be released, unconfigure the max bank CLI and try reapplying and removing the TCAM entries. (434549)
- When some number of TCAM banks are already allocated for a feature, configuring the maximum TCAM bank limit lower than the allocated number may

cause the SandAcl agent to restart repeatedly. To recover from this, the device must be rebooted. (434560)

- The Igmp agent will not receive any IGMP packets where source MAC address matches xx:xx:04:xx:xx:xx on an SVI. (436955)
SKUs Affected: DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R
- The SandAcl agent may restart repeatedly when multiple UDF payload matches with the same header and offset but different masks are configured in access-lists. (439400)
- Flapping BGP Flowspec configuration on an interface where the neighbor is publishing large number of Flowspec matches may cause the forwarding agent to crash. (439838)
- If L3 Forwarding agent restarts in the presence of VXLAN MAC addresses, it might lead to unexpected restart of L2 Forwarding agent. This might result in temporary flooding of traffic toward some destinations. (440226)
- When the outgoing interface for a Vxlan underlay route changes from one forwarding chip to another, it can impact VXLAN overlay route convergence. (440233)
- Performing many updates to a PBR policy in a short amount of time may cause the SandAcl agent to restart unexpectedly. (441912)
- IP multicast packets may get mis-routed in an MLAG configuration when the peer chassis is rebooted in a multi FAP system.
A restart of the SandMcast agent will clear the left over entries from the hardware. (444856)
- With PIM enabled on a VXLAN SVI configuration, reload of a switch might lead to incorrect flooding of PIM packets to remote VTEPs, causing PIM neighborship to not form between the MLAG pair, leading to misforwarding of routed multicast traffic in overlay. "shut", "no shut" of SVI would resolve the issue. (445280)
- Arp suppression in a multi-homed L2 EVPN MPLS configuration with more than two peers may cause loops. (445770)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280TR, DCS-7500R and DCS-7500R2 Series
- With VXLAN configuration, if the route to a remote VTEP churns while the tunnel hardware resource usage is closer to the hardware limits, then the SandL3Unicast agent might restart unexpectedly. (445834)
- V6 unknown multicast packets are not headend replicated to remote VTEPs. (448950)

- If an access-list is used in a PBR policy and also in a QOS policy, editing this access-list may result in a failure to apply the QOS policy. The workaround is to use two separate access-lists for the PBR and QOS policies. (450595)
- The SandFap agent unexpectedly restarts when a PRBS type unsupported by the interface is configured; this will lead to traffic loss on all the interfaces. (450978)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- Increased TCAM usage after reload if startup configuration has Acls for Ingress Ipv4 security Acls, QOS, PBR, FlowSpec, CPU Traffic Policy, and TapAgg when configured on SVIs. The increased TCAM usage may result in some ACLs not getting programmed in hardware. (451463)
- Sflow samples of VXLAN packets terminated by the switch, will have their VXLAN headers stripped. (457096)
- "match nexthop-group" filter is not supported in PBR rules when the corresponding nexthop-group is referenced by ECMP routes. (458189)
- EventMgr Agent may crash after a manual linecard hotswap. A temporary workaround is made to disable the following functionalities:
 - VOQ Delete event management
 - Environment related health metrics like 'cooling', 'power', 'voltage' and 'temperature' under 'monitor device-health' configuration mode (464788)
- When a link-down debounce timer is configured (link-debounce time <time> or link-debounce time 0 <time>), if, at the expiration of the debounce timer, the PCS is up but a LF is present the local link can be down but fail to send remote fault to the peer.
The workaround is to not use a link-down debounce. (471886)
- A packet egressing a QinQ subinterface could have its outer VLAN tag stripped.

A workaround is to restart the SandTopo agent. (473305)
- On DCS-When a port-based connector is used for a pseudowire or local cross-connect patch, dot1q-tagged packets will have the outer tag incorrectly removed on ingress/encap if any one of several other features are configured on the switch (on any interface) including: L2 subinterfaces, Dot1q Tunnel, Vlan Mapping, and Vxlan. The only workaround is to unconfigure these other features. (474093)
Series Affected: DCS-7020, DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- SflowAccel does not send flow samples to collectors routed via BGP routes with additional backup paths. (476553)

- If the number of BGP Flowspec matches exceed the hardware TCAM banks and entries available, and then Flowspec is enabled on additional interfaces while in the overflow state, the matches may fail to be programmed on the additional interfaces, even if the published Flowspec matches later fall back under the hardware limits. (477150)
- Once the maximum number of supported unique PBR policies per chip is exceeded, removing the PBR policy on an interface, converting the interface to a vlan member and applying a RACL on the SVI does not work. (477753)
- SandL3Unicast agent may leak memory when unshared nexthop group entries are modified repeatedly. (478158)
- Changing the nexthop for routes may cause a momentary traffic loss during reprogramming. (478170)
- When BGP neighbors advertise Flowspec rules containing the police action and the system's policer resources are exhausted, any further change to Flowspec rules may cause the SandAcl agent to restart unexpectedly. Upon a SandAcl agent restart, existing Flowspec rules are removed from hardware and the system will attempt to program the new set of advertised rules, which will succeed if there are enough hardware resources.

As a workaround, restart the SandAcl agent after freeing enough policer resources, e.g., remove rules from features such as QOS policies that use policer resources. (486688)

- Configuring 'port qualifier size N bits' in 'feature flow-spec port ipv4|ipv6' causes BGP Flowspec to stop working on non-Algomatch switches. (487271)
- TCAM bank reservation may not work after reload.
The workaround is to remove and reapply the reservation config for any existing feature after all the SandFap agents are up. (488675)
- Irregularities in how VXLAN packets are forwarded on Sand-based platforms (490552)
Series Affected: DCS-7020, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- With flex-route compression optimization configuration, exhaustion of hardware resources lead to continuous SandL3Unicast agent restart. (492870)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- Once storm control is configured on an interface, policers configured via a QOS policy-map or cpu-traffic policy on this interface will police packets more aggressively than the configured rate.
The workaround is to restart the SandFap agent.
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R, DCS-7500R2 (494749)

- VXLAN routing traffic may get mis-forwarded when there is rapid churn in the reachability of VTEPs (495364)
- If the SandFap agent is busy, or starved of CPU bandwidth, for an extended period of time, PTP stability may be affected negatively. The message 'TIMESYNC_ERROR' will be logged in syslog when this happens. (495418)
- With hardware accelerated sflow, if there are more than 14 sflow hardware accelerators in the system, the SandFap agents can restart if sflowAccel is disabled (496646)
- Using a user defined TCAM profile that has the packet type `mpls ipv4 forwarding routed decap` may cause unpredictable behaviour in access control lists (ACLs) and IP TOS field corruption for ingress traffic that is not MPLS. (499458)
- "hardware next-hop fast-failover" is not supported with MPLS EVPN flood adjacency resolved over an MPLS SR tunnel that is in turn resolved over TI-LFA tunnel. (503263)
- In a 6PE configuration, packet ingressing on an L3 subinterface with explicit null label and destined to this switch is not supported. (504582)
- If the source IP is not in the routing table, the unicast RPF will not drop the packet and will forward a corrupted packet. (505285)
- Congestion discards keeps increasing for ports involved in fastdrop multicast routes where the incoming interface is a routed port or SVI with only one interface. (506369)
- On a modular system, if only some of the linecards are configured in Tap Aggregation mode, inserting or removing a linecard which is configured for Tap Aggregation would cause traffic disruption on other linecards in Tap Aggregation mode. (508024)
Series Affected: DCS-7500R, DCS-7500R2 and DCS-7500R3 Series
- When a DirectFlow flow is modified, the original flow entry might still be programmed in the TCAM along with the modified one. The original TCAM entry will not be visible using CLI. The workaround is to manually restart the SandAcl agent. (508034)
- Removing a field-set configuration (i.e., via "no field-set ipv4 prefix <field-set-name>") does not cause traffic-policies that match on the field-set to be updated in hardware. Packets will still match on the IP prefixes or L4-ports of the removed field-set configuration. The removal of the field-set from hardware will take effect in a subsequent change to the policy configuration. (512073)

- With hardware accelerated SFlow enabled and more than 20 LAGs in the system and mirroring sessions configured, the Sand agent restarts continuously. (512973)
- Traffic for some routes may get mis-forwarded using default route under rare circumstances, that are influenced by some route distribution, and order of route updates. (513287)
- TCAM entries may become corrupted when two CLI commands which read TCAM entries from hardware are executed simultaneously. The commands which cause a TCAM hardware read are 'show platform fap acl tcam diff', and 'show platform fap acl tcam hw hits'. (521356)
- The SandPtp agent may restart unexpectedly and repeatedly if PTP is enabled on more interfaces than a predetermined maximum. For fixed systems, the maximum is 140 interfaces. For modular systems, the maximum is 140 times the number of linecard slots, regardless whether they are populated or not.

Reducing the number of interfaces on which PTP is enabled to below the maximum. (528554)

- Ipv6 multicast routes with IIF as port-channel subinterface may remain unprogrammed after reloading the peer switch to which the IIF is connected.

Workaround is to clear the affected routes or flap the affected IIF. (537653)

- With hardware fast failover configuration, ECMP to non-ECMP FEC transition leads to programming of backup path in hardware even when the active path is up. (540338)
- Routed traffic may be continuously dropped after all SandFap agents restart. The workaround is to restart SandL3Unicast agent. (540586)

DCS-7500E Series

- On the DCS-7280E and DCS-7500E series, disabling autonegotiation on a port with a 1G fiber transceiver can cause occasional link flaps.

The workaround is to always enable autonegotiation on these ports. (70667)
SKUs Affected: 7500E-72S-LC

- IPv4 egress RACLs will not filter multicast traffic in shared mode. In unshared mode, multicast traffic is filtered only if ingress replication is enabled. (131660)
- An IPv6 Egress ACL applied to a Port Channel is not applied to a newly added member interface, if the member interface already has the same ACL applied to it. The workaround is to remove the ACL from the interface before adding it to the PortChannel. (141736)

- SAND_POSSIBLE_STUCK_PORT may be logged on an Ethernet interface after switch initialization, which can cause an interface to not transmit packets despite being up.

A workaround is to perform a full reset of the corresponding forwarding chip using the "reset platform arad <forwarding chip name> full" command. All Ethernet interfaces on that forwarding chip will flap; to determine all the Ethernet interfaces on the forwarding chip, run "show platform arad <forwarding chip name> map | grep Ethernet". (201096)

- In multi-agent mode, configuring multiple VRFs and Vxlan routing may lead to continuous OOM failures. (399674)
- Parity errors in SCH_TOKEN_MEMORY_CONTROLLER_TMC memory reported as ARAD_INT_SCH_TMC_PARError interrupt are not corrected by software. (495093)

DCS-7280R and DCS-7500R Series

- In MPLS L2EVPN configuration, traffic requiring 3 or more LU labels to be pushed, may not be forwarded correctly. (275834)
- On the 7500R-8CFPX-LC linecard modules, rapid removal and reinsertion of the transceiver may result in the Denali agent restarting.

Inserting transceiver 10 seconds after removal from the same slot is the workaround. (293594)

SKUs Affected: 7500R-8CFPX-LC

- PFC pause frames, if received on /3 subport of Sesto2 master ports, will not be honored on the affected platforms. (411352)
SKUs Affected: DCS-7280QR-C72-F, DCS-7280QR-C72-M-F, DCS-7280QR-C72-M-R, DCS-7280QR-C72-R, DCS-7280QRA-C36S, DCS-7280QRA-C36S-F, DCS-7280QRA-C36S-M-F and DCS-7280QRA-C36S-M-R
- VRF-mapped IP over MPLS packets with TTL=1 in the IP headers may be dropped, if the installed system TCAM profile uses packet types 'mpls ipv4 forwarding routed decap' or 'mpls ipv6 forwarding routed decap'. This could be a predefined TCAM profile such as pbr-match-nexthop-group or a user-defined profile with these packet types.

Create a new TCAM profile based on current profile and remove these packet types from all applicable features. Note that this will remove support for these packet types in egress ACLs, and 'mpls tunnel termination model ttl uniform dscp pipe' configuration will no longer work. (412811)

Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series

- With MPLS 6 label push configured with a port-channel/port-channel sub-interface as nexthop, one of the label pushed becomes null instead of

configured value. Issue is not seen on every time port-channel is flapped. Workaround is to restart the "SandL3Unicast" agent. (433872)

- Configuring more than 6 MPLS labels for the pseudowire path (including VC label and flow label), will cause the SandTunnel Agent to crash and not recover. The only workaround is to reduce the number of transport labels and/or to remove flow label such that the total is 6 or fewer. (443140)
- When an ingress Port Acl includes TCP or UDP port range matches and vxlan is configured on the switch, any vxlan transit packet ingressing into the switch may incorrectly match on such rules. To prevent this, key field l4ops must be excluded from the tcam profile. (477195)
- Optimized routes may not be programmed properly if TCAM profile is changed from <profile-1> to <profile-2> with both profiles having 'feature flex-route' in it.

The workaround is to change the TCAM profile in two steps - first change from TCAM profile <profile-1> to default and then from default to <profile-2>. (483629)

- With VXLAN, and PIM configuration on overlay SVI, VXLAN packets with inner IPv6 multicast packet consisting of Hop-by-Hop option may not be terminated and forwarded correctly. (484825)
- In an EVPN MPLS configuration, extra invalid packets may be sent out during flooding of a BUM packet in an EVPN MPLS VLAN which may cause loops in the topology.

The workaround is to restart SandL3Unicast agent. (498762)

- The SandAcl agent may restart continuously if a linecard is replaced with another linecard with fewer forwarding chips. (505164)
- If the CPU is included in monitor sessions with multiple destinations, it will only work if the device mirror0 is selected. If multiple mirroring to CPU sessions with multiple destinations are configured, all packets will be sent to mirror0. (525919)
- When an SVI is configured with an MTU value and a new interface is created with breakout cable and configured to be in that vlan, the new interface is not programmed with the correct MTU value. The workaround is to re-apply the MTU configuration on the SVI. (536927)

DCS-7280R2 and DCS-7500R2 Series

- While a system with both 7500R and 7500R2 linecards is booting up, under the rare condition that if routes are programmed while the linecards were booting up, the switch may be misforwarding traffic. Restarting the

SandL3Unicast agent recovers from the condition. 'platform sand l3 lpm encoding jericho-plus' to prevent the problem. (433628)

- If there is a parity error in the PPDB_B block of a JerichoPlus or QumranAx chip, the router MACs pointing to the CPU may get deleted from the hardware MAC table on that chip leading to loss of L3 connectivity.

As a workaround, restart the SandMact agent using the CLI "agent SandMact terminate". (521075)

DCS-7280R3 and DCS-7500R3 Series

- During restart of SandAcl agent, packets may not be subjected to ACL rules for a short period of time. (372971)
- Neighboring interfaces may flap if speeds or speed groups are configured on an interface. (394764)
- Decap groups incorrectly uses uniform mode for QoS. (417136)
- The traffic class in IPv6 packets egressing the switch after MPLS label termination might be incorrect. (420345)
- TTL exception handling during MPLS termination may not occur after a parity error in the IPPD_FWD_ACT_PROFILE hardware table.

To address these errors, schedule downtime and restart the SandTunnel agent. (424100)

- IPv6 over MPLS packets received with IPv4 Explicit NULL (i.e. Label=0) are misforwarded. (425904)
- Disabling MPLS routing (globally or under an interface) does not take effect. (426023)
- Enabling TX mirroring on a trunk port will cause a traffic storm on that port.

Break the traffic loop by removing the monitor session. (427586)

- PIM-SM v4 does not work on an mlag with IgmpSnooping enabled. (427859)
- Nexthop groups counters doesn't work for direct IP nexthop entries (without any tunnel encapsulation). (428144)
- A statically configured MAC entry may be replaced by a dynamically learned MAC entry leading to transient mis forwarding of packets destined to that MAC address. This transient condition gets corrected in the next poller cycle. (428580)

- MPLS Pseudowire tunnel resolving through nexthop-group may not be programmed correctly in hardware. (430182)
- Even with a MAC ACL to deny IS-IS packets, MAC address of the IS-IS neighbor is learnt. (431856)
- IPv6 egress PACL may not take effect when both IPv4 and IPv6 egress PACLs are applied on the same interface. The workaround is to remove the Egress Ipv6 Acls from the interface and reapply. (433886)
- 40G ports may not come up due to missing serdes tuning (434732)
- SandAegis agent may crash when the last IPv6 rule is deleted from a traffic-policy which has both IPv4 and IPv6 rules (435733)
- In some scenarios ECC 2-bit errors may not be software corrected. (439132)
- On a modular Jericho2 system with more than 5 Jericho2 linecards, configuring MTU on any interface causes SandL3Unicast to crash. (443043)
- Egress MPLS tunnel counter may not work after the reachability of tunnel nexthop goes through churn. (443473)
- On Switch with Jericho2 FAP(s), if Pimsm spt threshold is configured as infinity, Pimsm multicast traffic forwarding may not work properly. (447366)
- After a restart of the forwarding agent packets originating on the CPU are dropped. (458206)
- After switch or linecard reload, packets may be forwarded with corrupted headers. (461365)
- MPLS packets with more than 10 labels, are not forwarded correctly. (467327)
- Basic Qos functionality may not work on system boot. Workaround is to restart SandTm agent after system boot is complete. (471630)
- SandL3Unicast agent might restart unexpectedly after a SandFapNi agent restart or Linecard OIR, and could result in transient traffic disruption. (474848)
- Speed change on a port with running traffic may lead to stuck queues for packets egressing on that port. If this occurs, shut the port and restart SandFapNi agent to recover. To avoid this, shut the port before changing speeds. (479144)
- Linecard hotswap or a switch reboot when the traffic is running may cause all packets to drop at ingress of one or more forwarding chips. Restart of the SandFapNi agent instance for the affected chips will resolve the issue. (483181)

- Outer DSCP is not derived from Traffic Class in VXLAN encapsulated bridged packet. (487274)
- DSCP of VXLAN de-capsulated IP packet is set to DSCP value of outer IP packet. (488045)
- Forwarding of IPv4 and IPv6 multicast packets over MPLS Pseudowires is not supported. (493142)
- With large Nexthop group updates, in rare instances Packet can egress with wrong header data. (499845)
- Links with 100GBASE-LR4/LR4 transceivers starting with serial number prefix ADP may flap. (500081)
 SKUs Affected: DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-R, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4-F and DCS-7280CR3K-32P4-R
- When a Gratuitous ARP (GARP) that maps an IP address to a special multicast MAC is received with another packet, the system can restart unexpectedly due to a kernel crash. (504140)
- PTP packets may be malformed if they are forwarded by a switch when PTP is not enabled on the switch, or if the switch is running a version of EOS that does not support PTP on the particular hardware platform. An additional 34 bytes are inserted after the outer Ethernet header.

Use "platform fap diag mod IPPB_IEEE_1588_IDENTIFICATION_CAM 0 32 VALID=0" to configure the packet forwarding ASICs to pass through PTP packets without modification. (505900)

- In interface traffic-policies, when configuring a destination port after configuring source port field-set, the ports are treated as field-set names (506962)
- If a MLAG LAG member is unconfigured while the SandAcl agent is not running, BUM traffic from the peerlink to the specific member may be dropped.

The work around is to reconfigure and unconfigure the MLAG LAG member while the SandAcl agent is running. (516712)

- Parity Interrupts for the first bank of first Fap of TCAM sometimes cause corruption in MLAG entries in the Large Exact Match table. This can be detected using the TCAM interrupt counter increase. Restarting of DUT fixes the problem. Alternatively, one can change the TCAM profile and change it back. (519945)
- When two or more of the following features: Port ACL, PBR, QoS, Flowspec, Aegis, and CPU Policy are applied on the same interface with a non-default TCAM profile, one or more of the features may not work (526913)

- If the "acl subintf ip/ipv6/mac" feature is added to a TCAM profile without the corresponding "acl port ip/ipv6/mac" feature being added to the same profile, subinterface ACLs will not work. (532393)
- MTU violating VXLAN routed packets with either IPv6 overlay or an Ethernet tag on the underlay ethernet header can cause the egress port to lock up. When in this state, no packets will egress the port and traffic will get deleted on the ingress VOQ. Shutting and unshutting the port will restore the traffic. (537323)
- Disabling of egress RACL sharing ("no hardware access-list resource sharing vlan ipv4 out") is not supported with MPLS swap routes that are optimized as forward routes. The workaround is to re-enable egress RACL sharing, which is the default option. (542197)

DCS-7020 Series

- When multiple Ipsec tunnel interfaces are shutdown, then "no shut" in a short period of time, routes associated with some tunnel interfaces may not be installed after "no shut". The workaround is to do shut/no-shut again on the individual tunnels where routes not installed. (377984)
SKUs Affected: DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R
- When traffic is flowing from a 10G interface to a 1G interface and PFC is enabled on the ingress 10G interface, if the administrator changes the COS to TC mapping all the incoming traffic on the 10G interface is dropped. The only way to recover is by restarting SandFap. (400653)

DCS-7500R3 Series

- In some situations, some fabric links going to a fabric chip are not used to carry fabric traffic. (450214)

DCS-7020R, DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series

- Traffic on a subinterface will be subject to BGP Flowspec matches applied to the parent interface, unless the TCAM profile has the flowspec feature configured with 'port qualifier size N', where $N > 1$. (541950)
- When a line card is swapped with a different model line card, and there was previously some LAG configuration for ports that do not exist on the new line card, the SandFap slice agent corresponding to that line card may restart repeatedly.

A workaround is to re-insert the old line card and wait approximately two minutes. Then, re-insert the new line card. (545221)

Series Affected: DCS-7500E, DCS-7500R and DCS-7500R2 Series

DCS-7280R3, DCS-7500R3 and DCS-7800R3 Series

- When a line card is swapped with a different model line card, and there was previously some LAG configuration for ports that do not exist on the new line card, the SandFapNi slice agent corresponding to that line card may restart repeatedly.

A workaround is to re-insert the old line card and wait approximately two minutes. Then, re-insert the new line card. (536443)

Series Affected: DCS-7500R3 Series

DCS-7280R and DCS-7280R2 Series

- VXLAN packets that are decapped and bridged are incorrectly subject to the IP ACL applied on the ingress port. (221457)
- When AlgoMatch is enabled, packets may be unexpectedly dropped if ACLs are applied and an interface has a double tag VLAN mapping. (229765)
- The HaloFpga agent will continuously restart if SandFap agent is restarted.

The workaround is to powercycle the linecard or powercycle the switch if it's a fixed system. (252069)

- When ACLs are applied on a large number of interfaces (more than 1000 SVI interfaces), the SandHalo agent may restart with a SOCKET_CLOSE_LOCAL syslog message. (253015)
- IPv6 routing with virtual VTEP configuration will not work on platforms that run in AlgoMatch mode. Workaround is to change the access-list mechanism configuration to tcam (472142)
- Traffic egressing out of a LAG interface may not be subject to egress ACL on reload (473227)
- RACLs are not supported for VXLAN traffic ingressing on a MLAG peer-link when AlgoMatch is enabled. (485677)

7300X3, 7320X, 7368, CCS-720XP, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3 and DCS-7300X Series

- In multi-chip systems with L2 MTU greater than 9236, packets that are larger than 9236 bytes that flow between the switch ASICs will be dropped. (102837)

Series Affected: 7300X3, DCS-7250X, DCS-7260CX and DCS-7300X Series

- Traffic streams matching DirectFlow flows with VLAN or MAC rewrite actions could face brief disruption across a StrataL3 agent restart. (111833)
Series Affected: DCS-7050X Series
- When performing reload hitless, link flaps on BASE-T ports might be observed. (152459)
Series Affected: DCS-7050TX Series
- MAC ACLs and PACLs cannot co-exist on the same interface if QoS policy ACLs exist in the switch (186949)
- The StrataVlanTopo agent may crash after many linecard online insertion and removal operations. (193787)
Series Affected: DCS-7300X Series
- Ethernet65, Ethernet66 may experience extra link flap when performing fast boot. (221059)
SKUs Affected: DCS-7260QX-64-F, DCS-7260QX-64-R, DCS-7260QX-64-SSD-F and DCS-7260QX-64-SSD-R
- The Strata fabric or linecard agent may restart due to fabric link flaps leading to traffic outage. (225302)
Series Affected: 7320X and DCS-7300X Series
- DirectFlow flow in table type vfp will not match malformed Arp requests. (233922)
- When traffic is redirected using PBR and when the FIB lookup based on destination IP address indicates ARP miss, the PBR redirected traffic may be rate-policed.

The workaround is to use count action for the ARP-needed class. (238084)

- When the utilization of the MAC address table grows close to the full hardware capacity, the StrataL2 agent may encounter an out of memory (OOM) condition in the system, causing the agent to get restarted. (238115)
Series Affected: 7320X, DCS-7010, DCS-7050TX, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7260X, DCS-7260X3 and DCS-7300X Series
- If nexthop resources are exhausted as indicated by syslog `VXLAN_HWHER_NEXTHOP_RESOURCE_FULL`, forwarding of BUM traffic to that VTEP will be affected. (246391)
Series Affected: DCS-7050X and DCS-7060X Series
- During an SSO failover, Strata Fabric agent may not detect hardware, resulting in a fatal error reboot with increased traffic outage. (250129)
Series Affected: DCS-7300X Series

- In an L3 EVPN setup, traffic that is sourced by a VTEP that is a pure VXLAN router (i.e., it performs no VXLAN bridging and has no hosts attached to it) might incur some loss at the receiving VTEP, where the packets are decapsulated and forwarded.

Configure a custom PDP policy with the vxlan-vtep-learn class set to count to work around this issue. (251117)

- BUM traffic may temporarily loop into the MLAG pair when a member interface in either the peer-link port channel or in an MLAG port channel is brought up. (259213)
- When IPv4 uRPF exceptions are already programmed, configuring IPv6 uRPF exceptions imposes a heavy processing load on the Strata Slice agent to do a transition from IPv4 to IPv4-v6 exception mode in the hardware. Therefore, under a scaled config scenario, the Strata Slice agent may restart repeatedly.

Removal of IPv6 exceptions will help in recovering the system if this condition is hit. (264449)

- IS-IS configured over LAGs may see neighbor adjacency flapping during a hitless restart. (276232)
- A PCI error can break counter collection for an ASIC.

Resetting the ASIC with "platform trident reset" will fix this error. (277519)

- In ALPM mode, If TCAM is unable to accommodate route with prefix < 64 but is able to accommodate prefix > 64, in that case StrataL3 might crash during route addition or deletion. (282009)
- After hitless speed change from 1G to 40G or 100G, link may remain down.

Workaround is to perform hitful restart of forwarding agent. (283175)

SKUs Affected: DCS-7050CX3-32S, DCS-7050CX3-32S-F, DCS-7050CX3-32S-R, DCS-7050SX3-48YC12, DCS-7050SX3-48YC12-F, DCS-7260CX3-64, DCS-7260CX3-64-F and DCS-7260CX3-64-R

- Applying a large configuration containing many interface changes may result in Strata forwarding agent restart, which could cause traffic loss during the reconfiguration. (330840)
- Configuring more than five different speeds simultaneously on the system will result into continuous forwarding agent restarts. (339513)
Series Affected: 7300X3, CCS-720XP, DCS-7050CX3, DCS-7050SX3, DCS-7050X3, DCS-7260X and DCS-7260X3 Series

- Some ports (esp. Et73-Et96 and Et103-Et104) might blackhole traffic or fail to linkup. (358361)
 SKUs Affected: DCS-7050TX-128-F, DCS-7050TX-128-R, DCS-7050TX-128-SSD-F and DCS-7050TX-128-SSD-R
- Irregularities in how VLAN packets are forwarded. (360186)
- When VXLAN is configured and when a route or ARP points to an ecmp group with both local and remote nexthops, then a packet destined to this ecmp group may get looped between the linecards and fabric cards resulting in link congestion and packet drops. The work around is to disable the source port based hashing by removing "ingress-interface" in "ip load-sharing trident fields" command. (368073)
- Irrespective of IGMP snooping being enabled or disabled, IGMP packets will not be flooded to remote VTEPs. (368106)
 Series Affected: 7300X3, DCS-7050X2 and DCS-7050X3 Series
- Executing "platform trident forwarding-table partition" in quick succession may result in unrecoverable traffic loss. The work around is to do remove and reissue the command "platform trident forwarding-table partition". (368260)
- DirectFlow entries that redirect traffic out of a port-channel may incorrectly egress packets on none or multiple members of the port-channel. (378467)
 SKUs Affected: DCS-7250QX-64-F, DCS-7250QX-64-R, DCS-7250QX-64-SSD-F, DCS-7250QX-64-SSD-R, DCS-7260CX-64-F, DCS-7260CX-64-R, DCS-7260CX-64-SSD-F, DCS-7260CX-64-SSD-R, DCS-7304, DCS-7308 and DCS-7316
- After switching scheduler mode, the StrataCounters agent might be unable to complete a hitless reload shutdown stage, which will cause a hitless reload to be hitful. This can be pre-identified by seeing "SBus ack error in schan command" in the StrataCounters agent log. Workaround is to reset the ASIC before running reload hitless. (388694)
 Series Affected: DCS-7050X3, DCS-7060X, DCS-7060X2 and DCS-7260X3 Series
- When PTP is configured on a both a primary lane and a secondary lane on the same front panel interface, a speed change on the primary lane can cause an unexpected Strata agent restart, causing all lanes for that interface to become inactive until an ASIC reset is performed. This reset would result in all interfaces flapping. (390862)
- Changing MMU Profile configuration while the PFC watchdog has detected stuck queues on an interface can result in packets getting sent out from the interface instead of being dropped. (400780)
- Having any ACLs with UDF qualifiers as well as any of the following LAG/ECMP hashing features present in the configuration: RRoce hashing, flexible hashing or TTL/HopLimit hashing, will result in incorrect operation of the

LAG/ECMP hashing where the switch incorrectly hashes on IP payload. To avoid this problem the conflicting features should not be configured at the same time. (403182)

Series Affected: DCS-7050X, DCS-7050X2, DCS-7060X, DCS-7060X2, DCS-7260X3 and DCS-7300X Series

- Changing PFC Watchdog configuration while traffic is flowing can result in sub-second traffic outage when PFC Watchdog is in non-disruptive mode and multi-second traffic outage when PFC Watchdog is in disruptive mode. (403790)

- Switch may drop ingress UDP traffic destined to the switch MAC address when destination UDP port of the ingress packet matches VXLAN protocol default UDP port even if the destination IP address of the packet does not match any of the configured local VTEP IP addresses. (404138)

Series Affected: 7300X3, CCS-720XP, DCS-7050X2 and DCS-7050X3 Series

- Irregularities in processing 802.1q packets (407644)
- Restart of StrataL2 may lead to continuous StrataL2 restarts. Workaround is to reload the system. (408138)
- DirectFlow flows do not take precedence over conflicting router ACLs. (408734)
Series Affected: 7300X3, CCS-720XP, DCS-7050CX3, DCS-7050SX2, DCS-7050SX3, DCS-7050X2 and DCS-7050X3 Series

- When running DirectFlow at scale, removing an IP/Mac ACL may result in (repeated) slice restarts (408779)

- Flow control transmit PAUSE packets won't be sent in case of congestion in current device or upstream device (410180)

SKUs Affected: CCS-720XP-24Y6-F, CCS-720XP-24ZY4-F, CCS-720XP-48Y6-F, CCS-720XP-48ZC2-F, DCS-7050CX3-32S, DCS-7050SX3-48YC12, DCS-7050SX3-48YC8-F, DCS-7260CX3-64 and DCS-7260CX3-64E-F

- Control plane traffic may not be transmitted on a port-channel during stateful switchover if only one linecard is inserted. (411680)

Series Affected: DCS-7300X Series

- DirectFlow flows can be uninstalled from a linecard on reaching the idle timeout for the flow even though matching traffic continues to match the flow on another linecard. The flow can be restored by re-programming it or disabling the idle timeout.

Series Affected: 7300X3 (411851)

Series Affected: 7300X3, 7320X and DCS-7300X Series

- In an MLAG setup, under certain conditions, packets entering a LAG interface on one MLAG peer destined to the other peer might end up getting dropped on the MLAG peer link.

A workaround for this is to restart the StrataLag agent. (412307)

- Configuring more than 16K MPLS pop/swap labels will cause continuous restart of forwarding agent. (419243)
- Hitless Strata agent restart may cause a Port Channel interface to flap if it contains members with auto-negotiation speed configuration (419369)
- On ECMP shrinkage due to link down events, VXLAN tunnels reachable via ECMP may experience extended outage until routes reconverge. (419753)
- If the number of next-hop groups configured exceeds maximum supported hardware NHGs, then STRATA-3-MPLS_MAC_DA_PROFILE_TABLE_FULL syslog message is logged and L3 forwarding agent may continuously restart.

The workaround is to scale down the number of next-hop groups configured to stop the agent from continuously restarting. (420234)

- Ethernet49-54 may not link up with peers over long copper cables. Workaround is to enable autoneg on both ends of the link with 'speed auto <speed>' command. (421121)
SKUs Affected: DCS-7060SX2-48YC6-F and DCS-7060SX2-48YC6-R
- After a speed change, flows with mirroring actions on affected interfaces may not be mirrored as expected. Strata Slice agent can be restarted to restore expected behavior. (422221)
Series Affected: CCS-720XP, DCS-7050SX3 and DCS-7260CX3 Series
- Multicast routed packets with an IIF as a VXLAN VLAN can cause the packet to be looped back through the MLAG port-channel of the MLAG peer. (423278)
Series Affected: 7320X, DCS-7250X, DCS-7260CX and DCS-7300X Series
- The forwarding agent may continuously restart if the speed is changed from 100G to 50G when a 50G QSFP transceiver is inserted. This only affects 2-lane 50G transceivers, and does not affect 100G transceivers operating in 50G mode. A workaround is to configure the speed before inserting the transceiver. The forwarding agent restarts can be stopped by temporarily configuring the affected interfaces in 25G mode. (424990)
- In scale policy-map configuration, in some cases, a config replace can lead to restart of Strata slice agent. (430654)
Series Affected: DCS-7260CX Series
- On MLAG VRRP setup, if there is a VRRP flap that results in MLAG pair transitioning from backup to master and back, VRRP MAC entries can be programmed incorrectly in hardware. (434866)

- During an ASU upgrade, interfaces with 100GBASE-SRBD transceivers may experience a single link flap. (440451)
Series Affected: DCS-7260CX3 Series

- Hitless upgrade may fail if there are errdisabled interfaces.

Workaround is to fix the speed misconfiguration to bring the interfaces out of errdisabled state. (445466)

- Changing Acl configuration rapidly and multiple times may cause the forwarding agent to repeatedly restart unexpectedly. (447584)
- Restarting the StrataL3 forwarding agent, or performing an SSU operation may cause the StrataL3 forwarding agent to restart repeatedly. The switch has to be rebooted to recover from this condition. (450331)
- Graceful restart may not complete successfully for protocols configured on LAG interfaces during SSO. (460144)
Series Affected: DCS-7300X Series

- Irregularities in processing of VXLAN SIP learning packets. (463138)
- Cold boot or restarting Evora and/or Strata agents may lead to continuous traffic loss on QSFP100 ports

A workaround to recover is to hitfully restart the Strata agent with CLI command "platform trident reset" (469797)

SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R

- Special filter is installed on MLAG port channel member interfaces to block packets ingressed from MLAG peer via peer link at egress to avoid loop. When the filter is not installed on a member interface before it is added to MLAG port channel, there might be a momentary loop when interfaces belonging to an MLAG port channel link up. (471268)
- When EVPN multihoming is configured, VXLAN packets originating from an ES peer that are supposed to be routed after decap may get dropped. (474155)
- VXLAN remote MAC entries may not be properly recovered in some cases across ASU and SSO resulting in flooding for those macs. (477643)
- With PFC pause stream for lossless priorities on egress interface and data traffic destined to the egress interface for lossy and lossless priorities, few seconds of loss may be seen on lossy priority traffic on toggling PFC globally.
Workaround: Stopping PFC pause frames before toggling PFC globally. (477941)
- With PFC pause stream for lossless priorities on egress interface and data traffic destined to the egress interface for lossy and lossless priorities,

indefinite traffic loss may be seen on lossy priority traffic on toggling PFC globally.

Workaround - Stopping PFC pause frames, Strata slice agent restart, Enabling watchdog on PFC received interface. (477954)

SKUs Affected: CCS-720XP-24Y6-F, CCS-720XP-24Y6-R, CCS-720XP-24ZY4-F, CCS-720XP-48Y6-F, CCS-720XP-48Y6-R, DCS-7050CX3-32S, DCS-7050CX3M-32S-F, DCS-7050CX3M-32S-R, DCS-7050SX3-48YC12, DCS-7050SX3-48YC12-F, DCS-7050SX3-48YC8-F and DCS-7050SX3-48YC8-R

- Updating an already installed QoS policy-map might result in certain rules of the policy-map not taking effect in hardware.

A workaround is to remove this QoS policy-map from all the interfaces where it is applied first and then reapply it on all the desired interfaces. (478549)

- LANZ fabric thresholds may not be applied if the Strata slice forwarding agent restarts. Workaround is to remove and reapply the thresholds. (480422)

SKUs Affected: DCS-7250QX-64-F, DCS-7250QX-64-R, DCS-7250QX-64-SSD-F, DCS-7250QX-64-SSD-R, DCS-7260CX-64-F, DCS-7260CX-64-R, DCS-7260CX-64-SSD-F, DCS-7260CX-64-SSD-R, DCS-7304, DCS-7308 and DCS-7316

- L3 agent restart or "reload fastboot" may cause routed packets to be misforwarded for up to 1 second. There is no workaround for this issue. (481604)
- Irregularities in how VXLAN packets are forwarded. (486663)
- Slice agent might restart repeatedly in scale QoS policy-map configuration with policers, which causes hardware policers to exhaust. The workaround is to reduce number of policy-maps with policers attached to them. (489846)
- Aggregate storm control rate limit is not honored for broadcast and multicast traffic. (490511)
Series Affected: DCS-7010, DCS-7050X, DCS-7050X2, DCS-7060X, DCS-7060X2, DCS-7250X, DCS-7260X3 and DCS-7300X Series
- If an MBA supplicant is not assigned a dynamic VLAN when it is authenticated on a port, and if the supplicant later moves to a new port which is in unauthorized state, MBA authentication on the new port will not succeed and the port will continue to stay in unauthorized state. (491230)
- Programming or updating a Router ACL may rarely result in forwarding plane slice agent restart and can leave the corresponding vlan permanently blocked. (498502)

- MLAG connectivity between the peers might go down after linecard OIR. Flapping MLAG peer-link interfaces will bring the MLAG connectivity back up (500162)
- When the control plane is down during SSU, ARP packets from the remote VTEPs may not be forwarded to edge members of the VLAN. There is no workaround to this issue. (501085)
- In some cases, post forwarding agent restart, egress ACLs may not work properly and can affect traffic egressing out of ports where this egress ACL is not applied
Restarting the forwarding plane slice agent yet again will recover the system from the inconsistent state. (501088)
- It is possible that storm-control configuration will still be applied in hardware after removing the configuration. Workaround is to restart the Strata agent. (504901)
- System might reboot unexpectedly with unknown reload cause. (507537)
Series Affected: 7368, CCS-720XP, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7260X and DCS-7260X3 Series
SKUs Affected: 7300X3-32C-LC, 7304X3-FM, 7308X3-FM, 7320X-32C-LC, 7324X-FM, 7328X-FM, DCS-7010T-48, DCS-7010T-48-DC, DCS-7010T-48-DC-F, DCS-7010T-48-DC-R, DCS-7010T-48-F and DCS-7010T-48-R
- L3 routes with ECMP to multiple remote VTEPs may take longer time to converge when members in ECMP goes down. (513994)
- Interface default mtu may not apply properly on ports post reboot and cause IP fragmentation issues depending on packet mtu size. The workaround is to toggle the interface default mtu configuration. (515239)
- If a multi-ASIC linecard is hotswapped with a single-ASIC linecard in the same slot, the Snmp agent may continuously restart. The only workaround is to reload the system. (515667)
Series Affected: 7300X3 and DCS-7300X Series
- Restarting Strata with an ACL config that doesn't fit in TCAM can leave system in an incorrect state where subsequent attempts to program ACLs can fail. (522674)
- 'deny any any log' MAC ACL rule will not drop DHCP traffic and DHCP traffic will still be snooped. (523037)
- Mirror To CPU while in cut-through mode can cause corruption of data-transfer to Cpu. The corruption may affect all traffic to CPU until the forwarding ASIC is reset. Workaround is to run in store-and-forward mode. (527455)
Series Affected: 7320X, DCS-7060X, DCS-7060X2, DCS-7260X and DCS-7260X3 Series

- Enabling per VLAN routing with an L3 interface that only has an IPV6 address will result in no routing of packets received on this L3 interface. Workaround is to flap the interface. (528490)
- During an SSO failover, interfaces with VXLAN configured may result in an increased traffic outage on the associated interface (528749)
Series Affected: DCS-7300X Series
- Attaching a policer to class-default of an egress policy-map consisting of both IPV4 and IPV6 ACLs, is not supported and may lead to forwarding agent restart (534152)
- VXLAN encapsulated ARP request and reply packets that have more than one dot1q tag will not be properly forwarded. (535958)
- Enabling sFlow while in cut-through mode can cause corruption of data-transfer to CPU. The corruption may affect all traffic to CPU until the forwarding ASIC is reset. Workaround is to run in store-and-forward mode. (541940)
Series Affected: 7320X, DCS-7060X, DCS-7060X2, DCS-7260X and DCS-7260X3 Series

DCS-7010 Series

- 802.1x pause and guaranteed bandwidth cannot be configured at the same time. (91141)
- A single-event upset (SEU) on FP_METER_TABLE may cause the Strata agent to restart. This may disrupt traffic flow temporarily. (389323)

7320X, DCS-7060X and DCS-7260X Series

- A single-event upset (SEU) on L3_ECMP_RRLB_CNT can lead to a forwarding agent restart, after which the switch forwards traffic normally. (348722)
- If RPR or SSO is configured, Strata fabric agent restarts may cause switchover to occur. (368082)
SKUs Affected: DCS-7304 and DCS-7308

DCS-7260X3 Series

- Ports with 1g transceivers will still count towards the limit of 5 speed classes even when disabled and may lead to continuous restart of the Strata forwarding agent. It can cause traffic outage on other ports.

Workaround is to remove the 1g transceiver. (338741)

- Forwarding agent may restart when a 40GBASE-SRBD transceiver is inserted after the hitless reload. To work around, configure "speed forced 40gfull" on the desired interface prior to inserting the transceiver. (417311)
- An internal power failure may cause a data plane outage requiring a manual reboot to recover (447040)
 SKUs Affected: DCS-7260CX3-64, DCS-7260CX3-64-F, DCS-7260CX3-64-R, DCS-7260CX3-64E-F and DCS-7260CX3-64E-R

7368 and DCS-7060X4 Series

- 802.3X pause is not supported (348758)
- L3 flooded packets do not preserve VLAN priority values. (365998)
- MPLS traffic will be dropped if the nexthop MAC address ages out or not known.

The workaround is to set the MAC address aging-time to a larger value or simply turn off MAC aging if possible. (389425)

- The switch card may experience internal power failure. (427251)
 Series Affected: 7368 Series
 SKUs Affected: 7368X4-SC
- Control packets destined to link local IPv6 addresses may go to glean queue and hence could get dropped resulting in protocol flaps. There is no workaround to this issue. (475260)
- Lossy traffic could be discarded at ingress interface instead of egress interface, if the ingress interface has "priority-flow-control mode on" configured. Because of this, the lossy priorities on the ingress port are vulnerable to head-of-line blocking. Buffer build-up on the lossy priorities is a necessary condition for the problem. (514254)
- OSPFV3 Control packets destined to the CPU may go to glean queue and hence could get dropped resulting in protocol flaps. There is no workaround to this issue. (520443)
- Speed change on a port-channel member can cause a flap in BFD and BGP sessions for the entire port-channel (520638)
- System may experience transient traffic drop on some of the existing routes, when new routes having some specific distribution are added to the system. (524510)

DCS-7050X, DCS-7250X and DCS-7300X Series

- Configured as MLAG, link flap of one or more LAG peer-link member ports could cause brief flooding of packets over the peer-link and can also lead to double delivery of packets on the MLAG interfaces. (117870)

- (A1 silicon only) MPLS traffic gets incorrectly prioritized, causing other traffic on the same port to get dropped. (160269)
SKUs Affected: DCS-7050QX-32
- A single event upset (SEU) on an MMU configuration table may incorrectly clear the entry configuration. (187144)
- Altering the priority of transmit queues of a port will result in some traffic loss on that port. (194460)
- A single-event upset (SEU) on the tables REPLICATION_FIFO_BANK* may not be corrected, which may lead to traffic loss. (391625)
- Sometimes, an interface can stop transmitting despite there being queued packets on the interface's egress queues. Doing a "shutdown" followed by "no shutdown" on the interface can resolve the problem. (400610)

DCS-7050X2 Series

- When an interface which is transmitting at line rate is disabled and re-enabled, it might end up in a condition where it is unable to transmit any more packets. Disabling the interface again causes the Strata-FixedSystem agent to restart following which the interface continues to transmit properly. (245501)
- Packets sourced from an authenticated MAC on a Dot1X MBA authenticated port gets punted to CPU. Unicast packets destined to authenticated MACs egress out tagged on a Dot1x MBA authenticated access port. (532463)
- Vxlan multicast decapsulation will not work for packets that are sourced from unknown source VTEP. (538407)

Transceiver Series

- When performing an accelerated switch upgrade with the command reload fast-boot, some transceivers may experience a link interruption. This can occur on dual-speed QSFP100 optical modules that support both 100G and 40G, specifically when the module is configured to operate at 2x50G. Examples include the 100GBASE-PSM4 and the 100GBASE-CWDM4. (343684)
- When operating a 400GBASE-DR4 in 4 x 100G-2 breakout mode, administratively disabling an interface may cause another interface on the same 400GBASE-DR4 to go link down. (428140)
- When operating a 400GBASE-DR4 in 4 x 100G-2 breakout mode, if one interface goes down, it may cause another interface on the same 400GBASE-DR4 to go link down.
Restore link on all 4 interfaces of the 400GBASE-DR4 to recover the port.

This will not prevent any future link down from affecting multiple interfaces on the same 400GBASE-DR4. (428829)

- Externally calibrated SFP form factor transceivers will operate with system default high alarm threshold of 63C and system default high warning threshold of 58C and may be logged as overheating when operating within their thresholds as programmed in the module EEPROM. (489787)

7300X3, CCS-720XP and DCS-7050X3 Series

- Egress ACL on SVI for BUM traffic will not match ACL rules for packets being sent across fabric interfaces. (284543)
- A single-event upset (SEU) on the table ING_VLAN_TAG_ACTION_PROFILE_1 may not be corrected, which may lead to traffic loss.
Restarting the StrataL2 agent is required to clear the error and forward traffic normally. (287239)
- MPLS IPv4/IPv6 ping is not supported (394778)
- When performing SSU, there may be failure in table programing resulting in fatal error cold reboot with extended traffic outage. (399774)
- Tagged packets with any VLAN priority received through MLAG peer links are always mapped to the same egress queue, and not complying with "show qos map". (407056)
- Performing SSU may lead to continuous traffic disruptions and/or certain features may not function correctly. (410242)
- When the Strata agent is not running, the CPU will not be able to send or receive packets until Strata starts running again. (413020)
- When a DirectFlow flow entry with both an L2 rewrite modification and any other field is both matched on and modified in the same flow, traffic may egress without performing L2 rewrite modifications. (414504)
Series Affected: 7300X3 Series
- Interfaces with certain types of optics do not come up after doing a administrative no-shut following a hitless reload operation if those interfaces were kept in admin down state prior to hitless reload. (416694)
- Interfaces with certain types of optics do not come up after doing a administrative no-shut following a hitless reload operation if those interfaces were kept in admin down state prior to hitless reload. (417223)
- When "platform trident forwarding-table flexible" is configured, L3 unicast forwarding to hosts / L3 multicast forwarding may not work resulting in

unexpected behavior. The workaround is to remove the CLI and use "platform trident forwarding-table partition" instead. (421084)

- LAG and ECMP hashing on RRoCe, IPV4/TTL and/or IPV6 hop limit packet fields may fail to function. (424477)
- Performing a reload can result in some host routes being unprogrammed. (427790)
Series Affected: 7300X3, CCS-720XP, DCS-7050CX3, DCS-7050SX3 and DCS-7050X3 Series
- If an interface has a 1g transceiver and other interfaces in the same speed group are configured for 25g, the slice agent will restart continuously.

Workaround is to configure all ports in the speed group for 10g. (433880)

- LAG and ECMP hashing on RRoCe, IPV4/TTL and/or IPV6 hop limit packet fields may fail to function. (435585)
- Creating a DirectFlow flow with an MLAG interface included in the output interface action can result in a continuous restart of the StrataL3 agent. (446134)
- Performing SSU may result in extended traffic outage, leading to total traffic loss being slightly over 1 second. (477139)
- If a port group has a 1G/10G master port, and also contains a 1G port, and at least one 1G/25G port in the group is disabled, the forwarding agent may continually restart following a reload. This only happens when the speed group is set to the 'default' configuration.
The restarts can be stopped by setting a 10g speed group configuration. (478935)
- When the uRPF feature is disabled and enabled in quick succession, the switch may enter an inconsistent state and may stop routing traffic.
Workaround is to repeat the same steps with an interval of about 5 seconds between the two operations. (480331)
- "platform trident unknown-mac-drop" command is not honored for packets that are routed and flooded on the egress VLAN. There is no workaround for this. (481755)
- Aggregate storm control rate limit is not honored for traffic that is routed and flooded in the egress VLAN. (485492)
- If EVPN VXLAN multihoming is configured, and link towards ethernet-segment goes down, then some macs that reside behind that link may get stuck in hardware. As a result, traffic destined to those macs may get dropped. The workaround is to reboot the switch. (495546)

- Having any ACLs with UDF qualifiers as well as any of the following LAG/ECMP hashing features present in the configuration: RRoce hashing or TTL/HopLimit hashing, will result in incorrect operation of the LAG/ECMP hashing where the switch incorrectly hashes on IP payload. To avoid this problem the conflicting features should not be configured at the same time. (497016)
Series Affected: DCS-7050CX3, DCS-7050SX3 and DCS-7300X Series
- With VXLAN enabled, during SSO, control plane traffic may cause a kernel panic and unexpected reload on the new primary supervisor. (498652)
- If MLAG peer gateway feature is enabled and MLAG peer link is configured as a port channel, it may result in Strata forwarding agent restart. As a workaround, peer link port channel has to be unconfigured and then restored. (523701)
- Egress ACL rules can not be used to match ip protocol 50. (535104)
- VXLAN encapsulated packets received with inner payload having more than one dot1q tag will result in outer dot1q tag being stripped when egressing out on a port. There is no workaround to this. (536312)
- Disabling static NAT access-list sharing with "no hardware nat static access-list resource sharing" may in some cases leak hardware VFP resources.

Workaround is to reload the switch. (539951)

- Dynamic NAT access-list requires the subnets/hosts to be specified. It does not support ACL "permit ip any any".

Possible workaround is to use deny ACL at the beginning to filter out traffic between private subnets and gateway that do not need translation. (546206)

DCS-7160 Series

- In some cases, when PFC (Priority Flow Control) is configured on an interface and if the user performs a "default interface" on a range of interfaces, the XpQos agent is restarted. (245559)
- In the event of the XpAcl agent restarting, the hardware programming of ACL may not be correct.

In order to recover, remove the ACL configuration on ports/SVIs, and reattach them. (251114)

- On XP platforms, if XpMact agent restarts, and we have a large number of learned mac addresses and a large number of host routes, some of the host routes may get removed from hardware.

To recover, clear all learned mac addresses and restart XpMact. (255279)

- VXLAN routing & bridging traffic may fail to converge after Sysdb agent is restarted.

A workaround is to reboot the switch. (255957)

- In cases of high TCAM utilisation by Policy-based Routing, a 'configure replace' can result in Incorrect TCAM programming.
In such cases, remove and re-apply the same policy-map which will result in programming the correct TCAM rules. (260906)

Series Affected: DCS-7160 Series

- XPL3Unicast process may crash when the switch is reloaded if PBR policies with nexthop VRF actions are applied on an interface in the non-default VRF. (262713)
- Value of outer/underlay UDP source port of VXLAN encapsulated packet may vary based on overlay packet size for a given overlay packet flow (identical overlay/inner 5 tuple). This could lead to unnecessary ECMP load balancing of egress VXLAN encapsulated packet which can further lead to performance issues for a overlay TCP session/flow. (422669)
- IGMP IPv4 multicast control packets may create loop over a Vxlan Tunnel , if IGMP snooping is turned off in a VLAN. Workaround is to enable IGMP snooping in a VLAN (which is enabled by default in EOS) (429933)
- When using the tcam-acl profile, ACL removal from an interface may not take effect in some situations. Workaround would be to restart XpAcl. (431682)
- When using the tcam-acl profile, if there exists an interface with multiple ACLs applied, the rules are not guaranteed to be programmed in the correct order. Workaround would be to avoid having interfaces with multiple ACLs applied. (431684)
- A sub-50 ms power outage may cause the links to go down permanently with the XpCentral agent crashing repeatedly. Reloading the system is required to recover from this failure. (457940)

SKUs Affected: DCS-7160-48TC6-F and DCS-7160-48TC6-R

- XpL2 crashing with VLANs configured on trunk ports can cause unexpected ingress VLAN translation, incorrect MAC learning, L2 loops, and possibly more, indefinitely.

Workaround is to remove and re-add the VLANs from the port's configuration, or unconfigure and reconfigure all VLANs, or reload. (475570)

- If incoming BFD packet is encapsulated by VXLAN and overlay Destination MAC address is router MAC then BFD packet may get dropped and BFD session state remains down (477801)

- Irregularities in how VXLAN packets are forwarded on DCS-7160 platforms. (485730)

Limitations and Restrictions in 4.23.1.1F

Accelerated System Update

- During a hitless reload upgrading from a release before 4.21.3, more than 3 LACP packets could be transmitted within a one second interval. This should not cause problems. (338048)
 SKUs Affected: DCS-7050SX-128-F, DCS-7050SX-128-R, DCS-7050SX-128-SSD-F, DCS-7050SX-128-SSD-R, DCS-7050SX-64-F, DCS-7050SX-64-R, DCS-7050SX-64-SSD-F, DCS-7050SX-64-SSD-R, DCS-7260CX3-64, DCS-7260CX3-64-F, DCS-7260CX3-64-R, DCS-7260CX3-64E-F and DCS-7260CX3-64E-R
- Aborting 'reload fast-boot' command with Ctrl-C is unsupported (344574)
- SSU of VRRP Master and Backup routers at the same time is unsupported and may cause extended traffic loss. Successfully SSU one router then SSU the other router. (345657)
- On systems with 4GB of /mnt/flash space, there may be insufficient space to store both an old swi image and a new swi image to perform an SSU upgrade. The workaround is to delete the old swi image from /mnt/flash prior to performing the upgrade. (385364)

BGP EVPN L2/L3 VXLAN/MPLS

- On a BGP router, EVPN creates dynamic VLANs for L3 VNIs in receiving EVPN RT2 or RT5 advertisements even when the router does not have any L3 VRF or import route-target configurations. (294328)
- On a BGP EVPN device, if a VLAN-aware bundle is configured to include VLANs from multiple IP VRFs and if there are any IP addresses reused across multiple VRFs, then only one of the corresponding MAC/VLAN ARP bindings is distributed over EVPN. As a workaround, configure VLAN-aware bundles such that all VLANs in the bundle are in the same IP VRF. (514980)

CVX

- MapReduce Tracer is only recommended for deployments with 128 or fewer TaskTrackers.

If a switch has more than 128 directly connected TaskTracker nodes with MapReduce Tracer deployed, then the MapReduceTracer Agent can increase CPU utilization significantly. It is recommended to keep the directly connected TaskTracker count to below 128 when MapReduce Tracer feature is deployed. (80403)

- When a new SDN controller with 'manager ip' command is configured in HSC, HSC retains the configurations (e.g., logical switches) received from the old controller.

The workaround is to disable and re-enable the HSC service. (132171)

- Switches and CVX instances participating in a CVX setup must either all run 4.15.4F or later, or all run images from before 4.15.4F. (146664)
- If a CVX service agent connects to a client switch running a newer software version, the service agent may fail to connect to the client.

Upgrade the CVX software to a version greater or equal to versions running on all client switches. (219403)

- Intercept hosts on trunk ports with native vlan are only supported on 7050X2 platforms (257580)
- The Macro-Segmentation Service (MSS), requires MLAG fast redirection be enabled on the service MLAG TOR pair, when configured to work with a L2 transparent FW. This configuration minimizes traffic loss when any individual interface in the MLAG port channel goes down. (268291)
- The MssClient agent, can restart unexpectedly, when the MacroSegmentation Service, deployed with a L2-transparent firewall and is configured to intercept more than 10,000 end-points on a single switch (a number that's far greater than the total number of intercepts possible on the switch). (283221)
- The Arista OpenStack plugin has been enhanced to create a default route for the routers created in OpenStack, when VRF creation and vrf_default_route option is enabled in the networking-arista plugin configuration (295274)
- Mss does not support traffic interception for the hosts connected to Service VTEP. (354754)
- The MacroSegmentation Service (MSS) allows users to configure multiple tags on CVX that can be used in firewall policy definition, to identify policies MSS should work on. It is however not possible to delete one of the multiple tags configured.

A workaround would be to remove all tags and reconfigure the subset required. (372320)

- In Macro-Segmentation Service (MSS) for L3 Firewalls , Virtual SVI IP addresses cannot be treated as intercepted hosts and thereby cannot be added to any redirect policy. However, these IPs can still be part of offload policies, even though implicit redirect will not work for them. (372504)

- If the Macro-Segmentation Service (MSS), working with a L3 firewall, is configured to intercept traffic from a host generating multicast traffic, the traffic can be black-holed.

To work around this issue, configure the following DirectFlow rule on all TOR switches MSS is programming rules on and assign it the highest priority:

```
flow bypassMulticast
  priority 65535
  table trident ifp
  match ethertype ip
  match destination ip 224.0.0.0 240.0.0.0
  ! (375156)
```

- MLAG devices in an environment with the Macro-Segmentation service (MSS) configured (with L3 firewalls), should have a high-priority DirectFlow rule configured to ignore traffic over the MLAG peer link. This can be configured using the following flow definition on each switch (assuming Po1 is the MLAG peer link):

```
flow bypassPeerLink
  priority 65535
  table trident ifp
  match input interface Po1
  match ethertype ip (375185)
```

- The Macro-Segmentation service (MSS), running with L3 firewalls, requires the following flows to be configured on the service VTEP devices connected to the firewall manually in order to prevent return traffic from the firewall from being subject to MSS rules again. The flows required are:

```
flow bypassFwIntf3
  priority 65535
  table trident ifp
  match input interface Po1103    >>>>>>> lag interface connected to FW
  match ethertype ip
  !
flow bypassFwIntf4
  priority 65535
  table trident ifp
  match input interface Et31    >>>>>>> phy interface connected to FW
  match ethertype ip
  ! (375189)
```

- The MssPolicyMonitor agent might unexpectedly start running and eventually exit when the CVX functionality is disabled on the master CVX instance. This does not have any side-effect on the operation of the Macro-Segmentation Service (MSS). (378077)
- When the Macro-Segmentation Service (MSS) is enabled and works with a L3 firewall, there can be a momentary traffic outage on reloading a MLAG peer if

the CVX to VTEP (MLAG switch) connection is not re-established before the MLAG reload delay expires at the reloaded peer. (418560)

- Add support for Port-Channel interfaces for ContainerTracer. (429898)
- If MSS policy enforcement rules configuration is changed from verbatim to group verbatim, the SandAcl agent can restart unexpectedly (433592)
- When Macro-Segmentation Service (MSS) is enabled on the CVX in an environment where no switch is configured as CVX client, multiple "excessive warmup delay" syslog messages for MssPolicyMonitor agent might be noticed. (497132)
- In a Macro-Segmentation Service (MSS) deployment with a PaloAlto firewall, enforcement policy configured with application using dynamic port assignment is not supported. (515749)

General

- CLI does not allow access to files whose names contain spaces. (539)
- When VmTracer is used in a network that includes Cisco devices, ESX hosts connected to the Arista switch will see CDP frames from the Arista switch as well as from the other Cisco devices. VmTracer will display the VM info when the ESX host reports Arista's CDP info, but then will delete it when the ESX host reports other CDP info.

The workaround is to drop all inbound CDP on all ports using MAC ACLs. (101756)

- EOS SDK-based applications must be run via the 'daemon' command configuration. They cannot be run directly from bash. (158431)
- EOS extension scripts and agents which do not use EOS-SDK will need to be modified to work in 4.16.6M and beyond. (158467)
- Private VLAN is not supported in the EOS image distributed to US customers. (159408)
- EOS swix extensions containing RPMs which were based out of or procured from Fedora distributions prior to Fedora 18 may fail to install due to dependency issues. Suggested workaround is to recreate the swix files with the corresponding RPMs from Fedora 18 distribution. (162325)
- Packets with size greater than MTU of egress interface will not honor directflow flows and may not be forwarded (180927)
- SSO is hitful with subinterfaces. Protocols running on subinterfaces may experience session flaps during SSO. (188070)

- ACL drop counters cannot be cleared. (202905)
- when ACLs are configured with stats over port-channels, these stats are kept at the physical port level not at the port-channel level. (203131)
- With international and HW-REV-01 images and the introduction of "ip access-group <access-list name>" other configuration commands beginning with 'ip' that are configurable in the global config mode are not accessible in "router bgp" mode.

To access those commands exit the "router bgp" config mode to switch to the global config mode. (219390)

- Changes made to running-config after a config session is created might be reverted when the config session is committed which contains changes in similar or related areas. Use 'show session-config diff' inside the config session before committing to verify what changes will be made. (226850)
- The uptime in the output of "show module" may not match the uptime as shown by "show version" or "show uptime". The uptime in "show module" represents the time the module has been up since the last change in the "Status" column in the output of "show module", which differs from the meaning of uptime in "show version" and "show uptime". (248230)
- To avoid interoperability problems when using strong SNMPv3 encryption algorithms, follow the following minimums:
 - When using AES192 for privacy, use a minimum of SHA224 for authentication.
 - When using AES256 for privacy, use a minimum of SHA256 for authentication. (268290)
- Copy commands with sftp: or scp: URL do not work via eAPI by passing password through the "input" parameter. SSH keys have to be setup to run the commands without a password. (283716)
- The boot config command takes effect immediately inside a config session and cannot be aborted (346171)
- EOS support alphanumeric VLAN names, however ODL gives an error when reading the leaf /interfaces/interface/routed-vlan/config/vlan if the name contains alphabetic characters.

To workaround use numeric VLAN names only in EOS. (361244)

- The Macro-Segmentation Service (MSS) fails to skips processing a tagged firewall policy if one of the interfaces in the zone are not configured with a valid IP for that zone.

To workaroud this problem, configure a valid IP address on the interface.
(367835)

- Enabling next-hop sharing (using "ip hardware fib next-hop sharing" command) could result in slower convergence in the case of link failures. (369305)
- For static tunnel interfaces, duplicate or conflicting GRE tunnels are tunnels that have the same source, destination, tunnel mode (GRE) and key configurations as an existing tunnel. A duplicate tunnel is always in the down state. When there are duplicate static tunnel interfaces and a config-replace is executed, it is non-deterministic which one of the conflicting tunnels will be in the up state. (373135)
- When an interface profile is used to configure an interface's access VLAN, the VLAN is not created automatically. The VLAN must be manually created with the vlan command. (376621)
- When using interface profiles, configuring interfaces may take a few minutes, depending on the number of interfaces being configured. It may be faster to apply an empty interface profile to the interfaces, and then update the profile. (382120)
- The CLI commands "locator-led [multifan | powersupply | chassis]" will not cause multifan, powersupply and chassis LEDs on the front panel of the system to flash, as they did on previous generations of fixed systems. The beacon LED on the back panel of the chassis is purple by default. The CLI commands "locator-led chassis" causes it glow red instead of expected blue. (395892)
 SKUs Affected: DCS-7050SX3-48YC8-F, DCS-7050SX3-48YC8-R, DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3K-32P4-F, DCS-7280PR3-24-F and DCS-7280PR3-24-M-F
- The configuration lock feature does not prevent changes to the configuration via SNMP. (402556)
- If an EOS CLI command is used to create a reference to a VRF that does not exist, a subsequent OpenConfig YANG operation may cause the VRF to be created in EOS. (411908)
- Large amounts of monitoring traffic processed at the control plane via aggressive sflow sampling or mirroring to CPU could affect other control plane functions due to CPU bandwidth contention. (415992)
- The commands "show (startup|running)-config [all] section <section>" may cause the cli session to exit if the output is big (>~1MB) and paginated. (417111)

- IP Locking may send out additional queries when STP changes state (even possible in portfast config which is common for the IPLocking use-case). (417806)
- When hardware or software flow tracking is enabled and tracking flow is a VXLAN flow, the exported IPFIX packet may contain incorrect inner VLAN ID. (421437)
Series Affected: CCS-720XP Series
- Adding or Removing privilege level to an existing group in a LDAP group policy results in duplicate entries appearing in cli. (422323)
- When "logging format hostname ipv4" is configured, log messages may not display the correct IP address if the IP address is updated. (422666)
- A range of 0.01 sec to 255 seconds is allowed for the YANG VRRP advertisement-interval value (range is 1..25500 as advertisement-interval is specified in hundredths of a second), but EOS only accepts values in the range 1 sec to 255 secs. (426391)
- In the 'show interfaces interactions' CLI, the list of speeds an interface is limited to does not account for the limitations that result from speed-group configuration. (434363)
- Configuring both TACACS+ and LDAP with SSL profiles and "fips restriction" may cause the Aaa agent to continuously restart. To use TACACS+ and LDAP with SSL profiles at the same time, remove "fips restriction" from the SSL profile configuration. (439333)
- When we first configure a port-channel lag_type, we must set values for both aggregation/config/lag-type and ethernet/config/aggregate-id (i.e. member configuration) in the same transaction. The lag-type is populated in EOS once the port-channel has one member port and remains set. (445421)
- Installing 64-bit rpm fails with 32-bit EOS.swi on older supervisors (457100)
- When eAPI is configured with invalid SSL profile, nginx will stop running and all http/s requests will be refused (474422)
- EOS Extension Manager does not allow installing a 64-bit rpm as an extension if the 32-bit rpm of the same name is already installed (and vice versa). For example, 32-bit EOS will not allow install of 64-bit glibc rpm as an extension claiming that rpm is already installed. This is because of a missing rpm architecture check. (487943)

- Installed licenses without corresponding licensing features configured might not be visible from the CLI (504793)
- The YANG path '/network-instances/network-instance/mpls/global/config/null-label' is unsupported, but it is incorrectly listed as supported, and accepted by the OpenConfig agent. (514041)
- The following YANG paths are unsupported, but are incorrectly listed as supported and accepted by the OpenConfig agent.

```
/network-instances/network-instance/policy-forwarding/policies/policy/rules/
rule/action/config/decapsulate-gre
/network-instances/network-instance/policy-forwarding/policies/policy/rules/
rule/action/state/decapsulate-gre
/network-instances/network-instance/policy-forwarding/policies/policy/rules/
rule/action/config/discard
/network-instances/network-instance/policy-forwarding/policies/policy/rules/
rule/action/state/discard (515061)
```

- If Octa, OpenConfig or TerminAttr are started under low memory conditions, they can cause a spike in CPU usage before unexpectedly restarting. (534841)
- For a given interface, multiple simultaneous MAC address flush requests on different VLANs may result in clearing all MAC addresses on that interface. This is an optimization to support a higher scale of VLANs and interfaces. To disable this optimization, use the "mac address-table flushing interface vlan aggregation disabled" CLI configuration. (544712)

Layer 1

- The MACSec outPktsEncrypted and outOctetsEncrypted counters are not supported with the MACSEC Proxy feature (281715)
- On Vxlan MACsec proxy, disable learning is not supported on proxy patch vlan. (284348)
 SKUs Affected: 7500R2M-36CQ-LC, DCS-7280CR2M-30-F, DCS-7280SRAM-48C6, DCS-7280SRAM-48C6-F, DCS-7280SRAM-48C6-R, DCS-7280SRM-40CX2-F and DCS-7280SRM-40CX2-R
- Ports configured at PAM4 speeds (50G-1, 100G-2, 200G-4, 400G-8) do not support link-debounce intervals shorter than 2 seconds. (500674)
 Series Affected: 7368 and DCS-7060X4 Series
 SKUs Affected: DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4-F and DCS-7280CR3K-32P4-R
- Interfaces with BCM82391 PHY do not support auto-negotiation. (537530)
 SKUs Affected: 7500RM-36CQ-LC and DCS-7050CX3M-32S

Layer 2

- LACP PDU fast rate ("lacp rate fast" on an Arista switch) should not be configured on any port in an MLAG pair, or any port connected to an MLAG pair. (13950)
- Static ARP inspection may not work on modular platforms after SSO switchover. The workaround is to disable and re-enable static ARP inspection after switchover. (244477)
- The command "lacp rate fast" is not supported on modular systems with stateful supervisor switchover (SSO) enabled. Neighboring devices should not have "lacp rate fast" configured on ports connected to the said system. (248121)
- In a MACsec profile, when a primary key's CKN is changed, then operating primary continues to be principal actor even when a fallback key is configured till the time the new primary establishes a successful MKA session. There is zero traffic disruption. (275678)
- Port Security Protect does not support trunk ports. If a port is secured to source MAC <A> in VLAN <X>, traffic from source MAC <A> in other VLANs of the trunk port will also be allowed. (344773)
- While performing SSO, a device's peers might not receive LLDP packets within default TTL (120 seconds) and those peer devices may not maintain LLDP status information for the device undergoing SSO. After SSO is complete, the peers will again have LLDP state available.

To avoid losing LLDP state during SSO, consider increasing LLDP hold time at the remote. (347459)

- If 'traffic unprotected allow' is configured in a Macsec profile, agent restart or Stateful Switchover may result in traffic loss (362766)
- An MLAG switch cannot be used as an EVPN multi-homing provider edge. When a switch has MLAG enabled, MAC addresses from ports with an ethernet segment configured are advertised through BGP as if they were single-homing, and local ethernet segments are not advertised through BGP. (397867)
- If a non-existent interface, or an L2 subinterface configured in a VLAN with MLD Snooping enabled, and an IPv6 multicast group is statically configured on that interface, the MldSnooping agent may experience unexpected restarts. (420903)
- Even with fallback to unprotected traffic configured, traffic loss in the order of milliseconds may be seen during initialization (491232)
- 802.1X is not supported on LAG member ports. (544556)

Layer 3

- ECMP is not supported for routes learned via RIP. (34773)
- DHCP relay is not supported when running virtual machines on EOS (101754)
- CLI does not detect TCAM exhaustion and automatically revert the change when a PBR policy is applied to an L3 interface in the "shutdown" state, since the actual hardware programming happens when the interface comes up. (122651)
- OSPFv3 support for multiple address families (RFC 5838) in EOS introduces support for IPv4 routing with OSPFv3. OSPFv3 for IPv4 AF in EOS requires configuring neighboring OSPFv3 IPv4 routers on the same link with primary IPv4 addresses in the same subnet. Adjacency is established in OSPFv3 IPv4 AF even if the neighbor's primary IPv4 address is in a different subnet but routes through the neighbor on a different subnet will however not be installed. This limitation may be removed in a future release. (140234)
- When BFD is unconfigured with Fhrp as the only client and/or BFD is administratively shut, both VRRP routers will become Master. This transition is temporary and Master-Backup relationship will be restored. (159647)
- BFD sessions established between Arista switches and Cisco peers over IPv6 link-local addresses may flap when BFD echo mode is enabled. (159803)
- vEOS does not support BFD echo sessions. (160770)
- If "bfd per-link rfc-7130" is configured on port-channel(s) with primary and secondary IPv4 addresses configured in the same subnet, and the "bfd neighbor" is configured with peer switch port-channel's secondary IP address and there is a BFD session using primary IP address, then the port-channel might flap continuously.

Configure secondary IP address on the affected port-channel(s) to different subnet from their primary IP address on both switches. (182622)

- BFD echo functionality is not available on L2 Port-Channels with BFD RFC7130 mode enabled. (190418)
- If a port channel is configured with "bfd echo" and "bfd per-link rfc-7130" and is used for OSPFv3 or PIM, BFD sessions will not come up with echo functionality. BFD with SSO for OSPFv3 or PIM is not supported. (190997)

- BMP is not supported for router bgp instances configured in non-default VRFs. (210363)
- SSO is not supported when BFD is configured for ISIS IPv6 sessions. (239704)
- An LACP port channel configured with BFD per-link and echo may experience BFD session flap on existing member links if new member link(s) are added to the port channel while the BFD peer device undergoes Stateful Switchover (SSO). (255042)
- Eos does not support programming IPv6 ECMP paths to kernel (258387)
- The DSCP value of BGP control plane packets set by the command 'bgp transport qos dscp <value>' will be overwritten when the platform 'qos rewrite dscp' is enabled and the outgoing interface is a SVI based on traffic-class to dscp map present on the platform. (269764)
- In the output of the "show ipv6 dhcp relay counters" or "show ip dhcp relay counters" command, interface-specific DHCP relay counters might not sum up to "All Req" and "All Resp" counters. (278786)
- Tunnel interfaces flap when configuring ttl, tos and path mtu discovery on them. (281464)
- IPv6 addresses are not supported as tunnel source and destination. (283912)
- High MPLS route scale or high MPLS route churn may cause the platform agent to restart unexpectedly. (289217)
- High MPLS route scale or high MPLS route churn may cause the platform agent to restart unexpectedly. (289224)
- When BFD is configured with per-link mode rfc-7130 for an IPv6 link-local address on a Port-Channel and the Port-Channel transitions to the Down state, the Port-channel may not transition back to the UP state.

The workaround for this situation is to disable and then re-enable BFD per-link mode rfc-7130 on the Port-Channel. (343814)

- On Macro-Segmentation Service (MSS) deployment with L3 firewalls, a flow entry that fail to get programmed due to lack of TCAM space, is not programmed when TCAM space becomes available at a later time. The workaround is to "shut" and "no shut" on the direct flow config. (372232)
 Series Affected: DCS-7050TX, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X and DCS-7060X2 Series

- The update wait-install feature may not work as expected if there are routes which fail programming due to hardware resource exhaustion. The routes which failed programming may still get advertised out to peers. (372765)
- DHCP packets will not be processed by EOS DHCP Server when DHCP Relay is relaying packet from one SVI where DHCP Relay is configured to another SVI where DHCP Server is configured. (389017)
- When a sampled packet egresses a trunk port and the path is ECMP, sFlow will arbitrarily pick one of the ECMP next hops for the next hop IP of the router extension. (415747)
- DHCP clients will fail to obtain IPv6 leases when "ipv6 dhcp relay destination" is set to IPv6 multicast address. (426796)
- IPv6 Egress ACLs may not be applied to traffic if 'ip hardware fib next-hop sharing' is also configured (446000)
- VXLAN features are not compatible the 'ip hardware fib next-hop sharing' configuration. Configuring VXLAN routes may result in identical FECs not being shared and potential misforwarding after changes to FECs are made. (477471)
- The config 'ip hardware fib next-hop multi-path maximum' does not restrict the size of installed next-hop group ECMP FECs (498484)
- CLI configuration of a static route with nexthop pointing to self ip address is not rejected. (514894)
- New NAT dynamic profiles are not supported on multi-chip and modular system. (525213)
Series Affected: 7300X3, CCS-720XP and DCS-7300X Series
- BFD over Vxlan does not work for IPv6 underlay. (526897)
- Area proxy does not operate correctly if authentication is enabled. (532868)
- IS-IS area proxy does not support graceful restart. (535780)
- EOS Routemap configuration does not have CLI guards for some unsupported 'set metric ..' commands. Configuring these unsupported commands can lead to agent restarts. As a workaround remove the unsupported 'set metric ..' command. (541169)

Multi-agent

- If a BGP peer is configured for BFD fallover, the BFD session is not cleaned up even after the BGP peer is unconfigured. (217199)

- Traffic destined to an L3EVPN route whose underlay has ECMP BGP-LU routes, may experience temporary traffic loss when the underlay goes from n way to n-1 way or lower. The duration of loss can vary depending on the scale of BGP-LU routes or L3EVPN routes. (251692)
- When the multi-agent routing protocol model is configured, the maximum number of next hops for an OSPF ECMP route is 128. (274888)
- With very a very low multi-hop BFD timer configured, a BFD session may flap when a path (belonging to an ECMP set), over which the BFD session is established, goes down. (287571)
- BGP session over indirectly connected interface that was down due to lack of IGP path to peering address may take around one minute to re-establish once the IGP path is available. (287628)
- Route-map specified as match-map for dynamic prefix-list is evaluated only against BGP routes. (345444)
- The IpRib agent runs out of addressable memory when a large number of routes are leaked to a large number of VRFs. (346575)
- Routes which are imported into a target VRF using a "leak routes source-vrf" policy cannot be matched on the basis of the source-protocol from the source-VRF as part of the "rib fib policy" (403739)
- When using 64-bit versions of EOS, Bgp, BgpCliHelper and Bmp agents may report a virtual memory size up to 50 GB larger than actual memory used. The actual memory usage is better represented by the sum of "RES" and "SHR" from "show processes top". (427364)
- When BGP router has advertised a large scale of routes (e.g. several million) and it reloads, there may be traffic drops while it is coming back up. This happens when the reloading router comes back up before the directly connected peering routers (which are receiving routes via an intermediate Route Reflector) get a chance to process millions of withdrawals and delete all the routes from FIB. (458127)
- IP ACLs are not supported for control plane route filtering for VRF leaking (536329)

Rib

- No support for IPv6 labeled Unicast capability when BGP neighbor is established using IPv4 transport. (208402)
- Dynamic prefix-list match clauses are not supported in BGP neighbor inbound route maps. (269663)

- The BGP configuration commands, "bgp next-hop-unchanged" and "neighbor next-hop-unchanged", are not supported in ribd mode (single-agent mode).

In ribd mode, this functionality can only be achieved via route map configuration. (275007)

MLAG

- Spanning-tree mode backup does not work in an MLAG configuration. (15151)
- Configuring a device connected to an MLAG with a round-robin LAG distribution algorithm is not supported if the device is going to participate in IGMP. (28370)
- On a scaled MLAG setup, Lag+LacpAgent agent may restart unexpectedly if MLAG is reinitialized due to configuration changes. (116125)
- On an MLAG system configured with dual primary detection and with default control plane ACL enforced, MLAG will not form if the management interfaces of the MLAG peers are connected through extra hops (e.g., on different subnets), due to the default control plane ACL dropping MLAG control packets with TTL < 255.

The work around is to apply a control plane ACL which permits MLAG control packets with the correct TTL. (271308)

- TCAM profile switch in a MLAG switch may result in some packet duplication for broadcast or multicast packets (341353)

MPLS

- The MPLS agent may continuously restart on a router with high BGP LU Tunnel scale. (377939)
- BGP LU Tx MPLS routes corresponding to BGP LU advertisements with multiple labels are not supported. (395029)

Multicast

- If a single IGMP snooping port has multiple multicast hosts attached and performs proxy reporting or report suppression from these multiple hosts downstream, immediate-leave must be disabled for the VLAN.

Use "no ip igmp snooping VLAN <vlanId> immediate-leave". Otherwise, some desired multicast traffic might be lost. (21367)

- After ASU reload, if the first PIM hello packet received from the neighbor gets lost and If the neighbor has a high hello query-interval, it will

result in traffic loss. Workaround is to use default PIM hello query-interval and increase the PIM hello query-count. (341447)

- With scale greater than 5000 multicast IPV6 routes, show platform sfe mroute ipv6 <vrf> commands might not display the right number of routes when performing multiple addition/deletion operations across VRFs. This is applicable only if user level multicast forwarding agent is configured to be used instead of kernel. (378841)
- Bessd might crash on config replace with scaled setup over 30 VRFs and large number of PIM enabled interfaces. Work around is to reduce the scale. (398185)
- Pim "non-dr install-oifs" feature becomes disabled if the non-dr needs to route multicast traffic for any reason to the interface on which the feature was originally configured. This is how the feature is expected to work. The workaround is to setup the network in a way that the DR always becomes the assert-winner. However, if the non-DR becomes assert winner for some routes on an interface and feature becomes disabled, flap the pim sparse mode configuration on non-DR on that interface to attempt to get out assert winner state. (401672)

vEOS Router / CloudEOS

- The /mnt/flash/cloud_ha_config.json based configuration for the CloudHa agent is not supported from this release. If you are upgrading from an older image (< 4.20.5) please reconfigure HA using EOS CLI. Please see information on converting json file based config to CLI commands in the vEOS Router Configuration Guide. (264660)
- While vEOS instances in an AWS cloud can be created using either a Bring Your Own License (BYOL) or Pay As You Go (PAYG) format, there currently is no show command in vEOS to easily help the user or support determine which mode this instance uses. (272649)
- Tx/Rx ring parameters of an "Elastic Network Adapter (ENA)" interface cannot be set through config.json in vEOS. (276382)
- vEOS supports up a maximum of 8 physical cores. With hyperthreading enabled it is 16 vCPUs (278286)
- In dpdk based vEOS(MODE=sfe in /mnt/flash/veos-config), SR-IOV mode doesn't work with Intel x520/82599 on ESXi. As a workaround use mixed mode instead of the SRIOV only mode in ESXi (296718)
- Hot detaching network interface instances is unsupported. Reboot the instance after deattching a network interface. (306132)
- Site-to-site path monitored under "router path-selection" may experience flapping, when a lot of packets on the path (>10%) are dropped due to too

much traffic injection into the virtual router. Workaround is to use QoS service policy to assign Inband Telemetry control packets (default UDP destination port is 4789) with a higher priority. (434087)

DCS-7150 Series

- Under extreme circumstances where a high volume of broadcast or multicast traffic is sent from 10G ports to a mix of multiple 1G ports and one or more 10G ports, continuous over-subscription of the 1G interfaces could result in consumption of all system queue descriptors.

If this occurs, the 10G ports may be limited to 1G transmission rates. While this is an extreme case, CLI commands can be used to tune the maximum queue length available to 1G interfaces to mitigate this risk. (32294)

- NAT translation does not happen for a packet if the ARP for the next-hop is not resolved or is aged out. Translation will start happening again once ARP resolution completes.

The workaround is to install a static ARP entry for the next-hop that the NAT translated packet will take. (40132)

- Source port loopback suppression at high traffic rate can reduce the egress bandwidth of a port. This will happen when a port forwards incoming multicast traffic at a high rate to a multicast group which also has this port as a member. This port will receive back copies of the replicated traffic and drop them due to loopback suppression if there are no receivers on it at the egress stage of the port. (40294)
- NAT and VXLAN cannot be configured on the switch at the same time. (47258)
- When agile ports are configured for 40G with clause 73 autoneg (speed auto 40gfull) while using CR cables, the ports cannot be used in a port channel.

The workaround is to force the speed to '40gfull' on the ports. (55517)

- Systems with A0 silicon, packets are not forwarded to the egress port when egress truncation and timestamping are enabled together. Removing the configurations resumes packet forwarding. Truncation and timestamping are not supported together. (72756)
- The VXLAN flood VTEP list cannot be more than 128k VLAN-VTEPs, where VLAN-VTEPs is the number of VLANs multiplied by the number of VTEPs. (73228)
- Ingress port access control list (PACL) on a VXLAN-enabled interface is not supported. If ingress PACL is configured on a VXLAN-enabled interface, in-hardware VXLAN encapsulation of incoming packets is not expected to work correctly. VXLAN encapsulation of packets in software is not affected.

Removing ingress PACL configuration on the affected interface restores correct VXLAN hardware encapsulation behavior on that interface. (76085)

- Multicast-routed frames get tx-mirrored even when they do not egress the tx-mirrored multicast destination due to VLAN suppression. This is a limitation of the switch ASIC. (87933)
- Enabling counters for Static or Twice NAT connection can cause FocalPointV2 agent restarts, when the number of connections exceed 275. (109048)
- On a DCS-7150 series switch, VXLAN encapsulating a packet post routing may result in the outgoing packet being corrupted if the packet was permitted by an ACL with "statistics per-entry" enabled. (294588)
- IPV6 hop-limit based filter in access-list is not supported even if accepted by CLI. (383400)

Series Affected: DCS-7150 Series

DCS-7170 Series

- If an ingress packet contains more than one 802.1Q tag and the egress port is a trunk port, the egressing packet may get corrupted. (180436)
Series Affected: DCS-7170 Series
- BFD sessions are not supported on Port-channel interfaces. The sessions will not come up. (250315)
- Changing port speed from 10G/25G/50G to 40G/100G will cause the forwarding agent (BfnSliceAgent) to restart. This can result in a brief traffic outage in the order of 100ms on all ports. The link state of other ports will not change. (256519)
- 10/25/50 Gbps interfaces only support MTU up to 7Kbytes. (258823)
- After applying or removing shaping configuration on an L2 sub-interface, the L2 sub-interface must be flapped for the configuration to take effect. (281312)
Series Affected: DCS-7170 Series
- After setting CoPP rate = 0, a few packets (<10) might be let into the CPU, but everything will be dropped afterwards. (350676)
- Full mroute scale may not be achievable under certain scenarios due to hash collision for the multicast route table. (380545)
- When egress NAT and MLAG are both used, 'show ip mroute' may show NAT'ed addresses in addition to the receiving mroute addresses. (394571)
- firewall profile on DCS-7170 platform does not support IP multicast (401134)

- While programming mirror destinations in hardware, if the interface corresponding to the mirror destination experiences a link flap, it may not be programmed in the hardware. The workaround is to reconfigure the mirror destination in CLI after removing it. (414534)
- VXLAN encapsulated ieee reserved mac addresses are not trapped to CPU and hence any control protocol that is VXLAN encapsulated will not work. (423963)
- If the members of a mirror destination Port-Channel disappear while programming the mirror destination in hardware, the BfnMirroring agent restarts due to an assertion failure. After the restart, the system recovers and the hardware entries are programmed correctly. (424633)

DCS-7170 Series

- On the 7170 series of switches, when IPv6 is used in VXLAN underlay, the UDP checksum will be 0 for all the packets going out with an IPv6 VXLAN encapsulation. (297660)

CCS-720XP Series

- "show environment power" does not show insertion status or telemetry information for PWR-1021-AC-RED or PWR-621-AC-RED when there is no input power. (369368)
SKUs Affected: PWR-1021-AC-RED and PWR-621-AC-RED
- When hardware or software flow tracking is enabled, Vxlan encapsulated TCP flows may get exported with incorrect tcpFlags. The tcpFlags field track outer header's TCP flags hence for Vxlan packets it is undefined. There is no workaround to this issue. (416079)
- On receiving COA-REQ for changing VLAN for EAPOL supplicant, the NAS deliberately fails authorization for the first time in the new vlan. (449890)
- The per-interface configuration to ignore reauthorization timeouts from the AAA server ("dot1x timeout reauth-timeout-ignore") is not designed to work if manual reauthorization is requested from the command line. The reason for this is that manual reauthentication is designed to force the supplicant to contact the AAA server to retrieve the latest credentials. (453044)

- CoA request for VLAN change for EAPOL supplicant returns CoA-NAK. The VLAN does get changed when device is reauthenticated and the AAA server sends the new VLAN in an Access-Accept response. (459726)
- Hitless FPGA upgrades are not supported due to hardware limitations. Therefore FPGA images will not be upgraded during SSU. (474978)
SKUs Affected: CCS-720XP-24Y6-F, CCS-720XP-24Y6-R, CCS-720XP-24ZY4-F, CCS-720XP-48Y6-F, CCS-720XP-48Y6-R and CCS-720XP-48ZC2-F
- Ip options qualifiers are not supported in the NAS-FILTER-RULE attribute if present in the Access-Accept or COA packet from the AAA server. If Ip options are present in NAS-FILTER-RULE, it may cause supplicant to fail authorization. (480659)
- When authentication caching is enabled and the link on a switch port is brought down due to a device being unplugged, it may take up to 2 minutes for the static mac address associated with the port to be removed from the mac address table. This is a grace period provided to give time for the device to be re-inserted into the same port. (489930)
- If a switchport loses power, the credentials of the attached phone and PC will remain cached when authentication caching is enabled. However, when power is restored, the EAPOL enabled PC may not be reachable within the default reauthorization limit of 3 attempts and the supplicant will be removed as a result. The solution in this situation is to increase the reauthorization limit using the per-interface dot1x command: dot1x reauthorization request limit 10 (500488)

DCS-7160, DCS-7170, DCS-7280R and DCS-7280R2 Series

- On devices with Algomatch enabled, removing an ACL on an interface might fail because the remaining ACLs on the system may not fit in the hardware tables. (192811)

7368, DCS-7300X and DCS-7500R Series

- BFD on a statically-configured port channel may flap and traffic may be lost on a linecard insertion of which an interface is a member of the port channel.

Use LACP or disable the port-channel members on the inserting linecard before the linecard insertion (361336)

- Non per-link BFD sessions over port-channels may flap when a linecard where some of the port-channel's members reside is powered off with "no power enable". (363122)
- When a system shuts down due to a power overload, EOS does not log a 'power overload' reload cause (371160)
- Mixed supervisor types are not supported on dual-supervisor modular systems. (450053)
- With scaled VRF, SVI and Arp entries, typically beyond claimed support, the Arp agent may experience a SIGQUIT during SSO switchover, on the new active supervisor. There is no workaround for this issue and switchover is ultimately successful. (495528)
- When 1000 VRFs are configured with 4000 SVIs, the Ira agent may experience a SIGQUIT during SSO switchover. There is no workaround for this issue and switchover is ultimately successful. (495529)

CCS-720XP Series

- Polycom SoundStation IP 7000 phone might stop sending traffic after a switch power cycle if the phone stays on PoE power without an L1 link for some time.

Workaround is to toggle PoE power on the affected interfaces with "poe disabled" followed by "no poe disabled". (502688)

DCS-7020, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500E, DCS-7500R, DCS-7500R2 and DCS-7500R3 Series

- The L3 MTU on interfaces is not enforced on SVIs. (11659)
Series Affected: DCS-7020, DCS-7280CR2, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280SE, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- Disabling IPv6 routing on an L3 interface is not supported when IPv4 routing is also enabled on that L3 interface. (43093)
- Linecards with HW revision < 02.00, when configured for 100G and a physical layer problem is present, a one-way link may result. The link experiencing the physical layer problem will be down. However, the peer link may still be up.

The workaround is to detect this situation, by, for example, looking at the link status on both sides of the 100G link, and perform remedial actions; for example, replacing the transceiver or cable. Running a keepalive

protocol like LACP on these links is advised. (67325)

SKUs Affected: 7500E-12CM-LC and 7500E-72S-LC

- show interfaces counters rates' for port channels may show a slightly inaccurate data rate (including above 100%). (67367)
- Linecards with HW revision < 02.00, under extreme scenarios where we receive linerate small packets on all interfaces connected to the same forwarding ASIC and ingress mirror or sflow dangerous is turned on many of these interfaces, some packets (both the original and the mirror/sFlow copy) can be dropped. (67942)
SKUs Affected: 7500E-12CM-LC, 7500E-36Q-LC, 7500E-48S-LC and 7500E-72S-LC
- A VXLAN encapsulated packet after de-encapsulation is not forwarded back to the port on which the original packet was received.
Similarly, a native ethernet packet after VXLAN encapsulation is not forwarded back to the original receive port towards the remote VTEP. (75075)
- VARP and VRRP cannot be enabled at the same time. If VRRP is configured, there can be up to 128 combinations of interface and Virtual Router ID (VRID), but there can only be at most 8 different VRIDs and the VRIDs must differ only in the 3 least significant bits. VRRP for IPv4 and IPv6 cannot be configured at the same time. (75752)
- Due to hardware limitation, if an egress IP ACL is applied on an interface which is part of a VLAN with an egress router ACL, the filtering behavior for egress traffic of that interface may be undefined. (82094)
- For packets that hit rules across multiple ACLs, the hit counts are accounted for only in a single ACL. PACL counters take precedence over RACLs and MAC ACLs, and RACL counters take precedence over MAC ACLs. (85440)
- When an egress IPv6 RACL is applied to a VLAN, IPv6 packets may not be subjected to MTU checks. (88778)
- An egress ACL on a destination port of a monitor session only takes effect for Rx mirrored packets which are IP forwarded. The egress ACL will not work for bridged packets or Tx mirrored routed packets. (89915)
- When a shaper is configured the output of the shaper has a tolerance of +30% with 100-byte frames. This reduces to +5% as the frame size is increased to 600 bytes. The shaper variance reduces when the port happens to be the endpoint of a tunnel. (93546)
- The egress per-queue byte counter is not exact for certain packet types. For routed packets the egress per-queue byte counter may be offset by +/-2 bytes. For any packets originating from the CPU, the per-queue byte counter may be offset by -12 bytes. (97660)

- Packets that attempt to do a GRE key lookup where the GRE key lookup misses will have egress IPv6 ACLs applied with the ingress VLAN (102455)
- GRE key forwarding packets that are recirculated will have no QoS policy applied to them. (102458)
- If a double tagged frame is received on an untrusted or DSCP-trusted interface, the CoS is retained if the outgoing frame is tagged, unless the frame is routed (131614)
- IPv6 Egress ACL deny logging is not supported on subinterfaces. (146487)
- PBR policy is supported only on interfaces in the default VRF. If a PBR policy is configured on an interface in a user defined VRF, the behavior is undefined. (148895)
- Disabling IPv4 routing on an L3 interface is not supported when IPv6 routing is enabled on that L3 interface. When "no ip routing ipv6 interfaces" is configured to enable the forwarding of IPv4 packets over IPv6 nexthops over interfaces that do not have IPv4 address, but only a IPv6 address, it will also allow routing IPv4 traffic over these interfaces. (151356)
- While in Tap aggregation mode enabling either VN or BR tag stripping will disable VXLAN header stripping functionality. Traffic steering on the inner IP header of VXLAN packets will also be disabled.

Removing the VN/BR tag stripping configuration will restore VXLAN stripping and traffic steering functionality. (175829)

- When running PTP with 4X10G break-out cables, a variable delay is observed with the PTP timestamps that can cause instability to the PTP time calculations. (186891)
SKUs Affected: 7500E-36Q-LC
- When the 'vxlan-routing' hardware TCAM profile is configured, VXLAN traffic flows in overlay may not work alongside IPv6 traffic flows in underlay. The workaround is to use the CLI command 'no platform sand ipv6 host-route exact-match'. (190017)
- In Tap Aggregation mode, Tap Aggregation features may not work for 802.1BR/VN tagged packets when 802.1BR/VN tag stripping is not configured. (198798)
- Links are not compatible with systems running EOS 4.18.1F

The workaround is to upgrade both sides of the link. (199152)

SKUs Affected: 7500R-8CFPX-LC

- Traceroute to a IP route where the IP route is getting forwarded through a MPLS nexthop-group may incorrectly display the first hop as being

unreachable. The actual first hop will appear in the second position.
(209273)

- When ingress packet truncation is enabled in Tap Aggregation mode, truncated packets are not counted as packets received on the ingress interface. (215346)
- Frames less than 64 bytes are dropped (as expected), but not counted.

Command "hardware phy cmx42550 <intf > diag read64 mac line 0x138" can be used to dump the counter for the purpose of debugging". (218429)

SKUs Affected: 7500R2M-36CQ-LC, DCS-7280CR2M-30-F, DCS-7280SRAM-48C6, DCS-7280SRAM-48C6-F, DCS-7280SRAM-48C6-R, DCS-7280SRM-40CX2-F and DCS-7280SRM-40CX2-R

- Vxlan decapped packets will not match rules that match on 'tcp established' in egress acls (226582)
- Native VLAN setting on Tap interfaces does not take effect. (227770)
- While in Tap Aggregation mode, ingress VLAN membership filtering does not work when packets are destined to a tool interface configured with egress packet truncation. (227841)
- While in Tap Aggregation mode, interfaces configured for egress truncation will continue to consume hardware resources even when they are down. (228384)
- LLDP functionality is not supported on interfaces with ingress truncation enabled. (229983)
- Sflow agent CPU utilization is around 10% even when hardware acceleration is enabled and the agent is not processing any flow samples. (251674)
- With MTU increased beyond 9100B, there can be some multicast packets of size greater than 9100B that are dropped as a port gets close to linerate. (261446)
- Changing PMF profile on one linecard may cause a brief disruption of PMF-based features on other linecards which should not be affected by the same change. (270849)
- A QoS policy, with a class map which has either set-tc or set-dscp on the ingress port and which has DSCP rewrite map on the egress port, results in indeterministic behavior with respect to DSCP remarking of the outgoing packet. (273320)
- If a QOS and PDP Policy both having police action are applied on an interface and the traffic hits both the policies then QOS Policer Counter is

messed up. The "show policy-map type qos pmap-name" will give the PDP Policer Counter, not the QOS Policer Counter. (275994)

- Rate values for subinterfaces shown by "show interface counter rates" may deviate up to 15% from corresponding rate on parent interface. (278700)
- With TCP MSS Clamping feature configured, TCP SYN packets might get dropped under high CPU usage conditions if the incoming TCP SYN packet rate is high. (279370)
- Packets larger than 10196 bytes will be discarded by the forwarding ASICs. (280459)
- PFC on DSCP trusted ports is not supported. (281214)
- Loop protect feature is not supported when AlgoMatch HW is enabled. (290706)
- L3 forwarding through SVIs is not support on L2 sub-interfaces. (293410)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- When a port becomes a LAG member, there may be a very brief moment where a few packets may be duplicated on the LAG. (295260)
- Fragmented IP packets will not match on flow-spec rules that include a match on TCP/UDP port. (297309)
- When all the L2 subinterfaces belonging to a parent interface are shutdown, packets are bridged and mac addresses are learnt on parent interface (300202)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- VXLAN routing is not supported on a modular system on which one of the linecards is configured for TAP aggregation. (306180)
- Show interfaces counters ip only show IPv4/Ipv6/MPLS counters per physical interface and not per port-channel (306209)
- When a BGP peer session is cleared, traffic which hits existing flow-spec rules may increment the wrong counter for a brief period of time. (339523)
- If non shaped sub interfaces are configured under same interface having shaped sub interfaces, traffic will egress out of the non shaped sub interfaces in a round robin fashion. It is recommended to not have shaped and unshaped sub interfaces under the same parent. (341851)
Series Affected: DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- Hardware accelerated sflow with profile sflowaccel-v2 doesn't work with 7500E linecards. (342130)

- With uRPF configuration, packets sent by the Cpu that match a route forwarding into MPLS, GRE, or a Vxlan tunnel are incorrectly dropped in the hardware due to uRPF violation. (343891)
- Stale telemetry flow-spec statistics may be seen until the next "show flow-spec" command is issued. (345195)
- Filtered mirroring is not supported on linecards or fixed-systems operating in TAP Aggregation mode when traffic steering is enabled. (349883)
- Hardware accelerated Sflow does not support collectors reachable over arbitrary tunnel types (354749)
- IPv4 packets with options in the IP header will not be subjected to Unicast Reverse Path Forwarding (uRPF) checks, and hence will not be dropped even if the source IP is unknown. (355542)
- Software forwarding is not supported for GRE or IP-in-IP tunnel terminated packets using decap-groups. (358369)
- The loop protect feature does not work on ports of Algomatch enabled linecards and fixed systems. (361130)
- The egress DSCP value in the Outer IP header for packets that undergo headend replication after routing is derived from the Traffic Class (and not copied from the ingress DSCP value). (366189)
- While in Tap Aggregation mode, if the identity tag configuration of a Tap port is changed, traffic received on this port may be sent to an invalid multicast destination momentarily. This will cause the DchUnreachables counter to increment. (372757)
- TX mirroring shows VXLAN encapsulated packets that are actually dropped by split horizon. (375795)
- If more than maximum supported Isec tunnels are configured, it is random as to which ones are assigned flow entries within on-chip encrypt/decrypt engine. The set of Isec tunnel interfaces assigned flow entries may not be the same as the set of tunnel interfaces which have IKE connections established. As a result, some tunnel interfaces with IKE connection established may not get link up. (376431)
- Different streams being rate-limited by the same policer might exhibit bias towards some streams and fair policing across all the streams is not guaranteed. (380599)
- Configuring more than 250 BFD sessions on a physical interface may result in many of those sessions flapping because of hardware drops on the interface. (389387)

- Drop Precedence based tail drop thresholds can be ignored when multiple queues are congested and buffering resources are low. (395693)
- If a security-ACL is configured on a sub-interface beyond the supported limit of acls, SandAcl might restart continuously until the number of configured acls is brought back within the supported limits (398815)
- Queue build-up doesn't show up for 64 byte packets in case of congestion via following commands:-
 - 1) platform fap diag diag cosq non_empty_queues
 - 2) show interfaces queue length

Following command should be used instead:-
show queue-monitor length (398937)

- PIM sparse mode feature which allows installation of outgoing interfaces on the non-DR for a faster failover does not work on L3 sub-interfaces. This feature relies on an egress ACL to stop multicast traffic from going out of the interface. Multicast egress ACLs do not work on L3 sub-interfaces due to a platform limitation. If the feature is configured, there will be duplication of traffic. The workaround is not use the feature on such interfaces. (405696)
- When a policy-map with match on inner VLAN is programmed on an interface, if single tagged packet traffic is sent to that interface, the behaviour of that packet is indeterministic as inner VLAN tag is calculated using an offset and vlan-tag-format qualifier doesn't differentiate between single and double tagged packets. (415587)
- When MPLS label is pushed on the traffic ingressing CoS trust port then EXP bits are not derived from TC based on packet's COS. (417108)
- Byte counts are not supported for IPSec tunnels. (419031)
- SflowAccel supports up to 200 VRFs. (423892)
- PAUSE frames with correct DMAC=01:80:C2:00:00:01, Ethertype=0x8808, opcode=0x0001 are never forwarded and are always consumed by the hardware. (426047)
- A port transmitting packets smaller than 100B that were tunnel terminated on the switch might be limited to ~90% linerate (429797)
- Priority Flow Control pause watchdog actions "errdisable" and "notify-only" actions are not supported. (450857)
- Interface-level Priority Flow Control (PFC) watchdog commands are not supported. (450860)

- IPv4/IPv6 counters are not supported on port-channel interfaces. (479658)
- When a LAG is used as a destination for a monitor session, a given set of packets mirrored from a Rx source will hash differently compared to the same set of packets captured from a Tx source, due to hardware limitations. Consequently, symmetric hashing will not work as expected with a monitor session which captures both Rx and Tx traffic from a single port, and using a LAG as a destination.

A workaround is to only capture traffic on the ingress (Rx direction).

Another workaround is to use two different monitor sessions, and destinations, for the two directions of the target traffic, and implement symmetric hashing on a second stage. (486994)

Series Affected: DCS-7020, DCS-7280CR2, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280SE, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500E, DCS-7500R and DCS-7500R2 Series

- Egress MPLS tunnel counters are not supported for implicit null tunnels. (496375)
- When "ip hardware fib optimize" is enabled for a non-nibble aligned prefix-length, local-remote MPLS Pseudowires must have Control Word enabled for MPLS decap forwarding to work correctly. If Control Word is not enabled, then ETHoMPLSoETH traffic that ingress with the first nibble of the inner DMAC starting with "0x4" will be speculative parsed as IPv4oMPLSoETH and incorrectly dropped. (496624)
Series Affected: DCS-7020, DCS-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- For Packets with GRE tunnel encap header, MTU enforced on the hardware is 3 bytes more than configured value in Cli. (498470)
Series Affected: DCS-7280CR2, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- With 'hardware next-hop fast-failover' configuration, the maximum ECMP size supported is reduced to 1023 in R, R2 series and 127 in R3 series switches respectively. (502940)
- VRF label termination into non-default VRF is not supported for multi-label MPLS packets. (504763)
- When BGP neighbors advertise Flowspec rules with police actions where the number of rules exceed what can be programmed in TCAM, policers will be allocated in hardware for all requested rules even though best-effort programming will only program the subset of rules that fit in TCAM. As a result, hardware policer resources will be unnecessarily consumed for rules which are not installed in hardware. (506688)

- With flex-route compress option enabled or the flex-route internet profile along with a hardware tcam profile including the flex-route feature, if the default route resolved over tunnel, it may lead to SandL3Unicast agent to restart continuously. (525611)

DCS-7500E Series

- With a delay ECN threshold configured, some packets (under 10 %) experiencing valid measurable delays greater than the threshold may not be ECN marked. (141587)
- With a delay ECN threshold configured, packets experiencing delays of up to 2 microseconds more than the configured delay may not be ECN marked. (141588)

DCS-7280R and DCS-7500R Series

- An IPv6oMPLS packet terminated by L3 EVPN MPLS configuration will not be forwarded. The workaround is to disable IPv6 exact match host routes using 'no platform sand ipv6 host-route exact-match' and disable IPv6 route optimizations for prefix length 128. (201414)
Series Affected: DCS-7020, DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R and DCS-7500R2 Series
- When a linecard is inserted in a chassis there can be a temporary marginal drop in fabric throughput for other cards. (205880)
- On the system with DCS-7500R linecards, if DCS-7500R2 linecards are inserted, routes may consume more resources in the hardware routing table. (215393)
- Jericho chip buffering DRAM test at agent startup does not catch bad parts while it should fail to force RMA of bad parts. (218971)
- VXLAN and GRE tunnels cannot be configured at the same time. (248239)
- IPv6 multicast routes are stored in two separate TCAM resources. The group IP is stored in one TCAM while the source IP is stored in another. Since one TCAM contains the source IP it will contain an entry for every multicast route. However, the group IP TCAM will reuse entries for duplicate group IPs. For example, if you have routes (S1,G1) and (S2,G1), one TCAM entry is required for the group IP and two TCAM entries are required for the source IP. This means it is possible that more TCAM resources are allocated to the source IP lookup than the group IP lookup. The scaling achieved during the initial distribution of multicast routes will be preserved. However, if the distribution later changes, optimal scaling for the new distribution may not be reached. (257364)
- The CPU traffic policy feature does not support filtering on IPv6 extension headers. (364996)

- Ingress ACLs and PBR are not supported for MPLS tunnel terminated traffic using VRF label. (366695)
- VRF terminated traffic is not sampled with sFlow. (369010)
- Drop-precedence thresholds are not supported on mirror session ports. (388932)
- We do not support incoming multicast LDP packets with a destination multicast MAC address.
RFC 5332 doesn't mandate the use of sending labeled multicast traffic in a multicast ethernet frame. Multicast MAC destination address could be used in upstream label assignment. (393406)
Series Affected: DCS-7020, DCS-7280CR2, DCS-7280E, DCS-7280R, DCS-7280R2, DCS-7280SE, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500E, DCS-7500R and DCS-7500R2 Series
- MTU is not enforced for MPLS packets forwarded by a MPLS swap route, which have a length one byte more than MTU. (464742)

DCS-7280R3 and DCS-7500R3 Series

- "Drop" MAC entries only drop packets whose destination MAC address matches the "drop" MAC entry. Packets whose source MAC address matches the "drop" MAC entry are not dropped by the "drop" MAC entry. (341123)
- IP egress ACLs are not supported for MPLS terminated packets. (383263)
- Strict Priority scheduling for 400G interfaces don't work properly for 64 byte packets when traffic rate is above PPS limit of the chip. (388517)
- Cli to change tail-drop threshold for 200/400G ports is not supported by software. (396029)
- Applying a Qos policy on Vlan interfaces may result in SandAcl restart, since this functionality isn't supported. (403280)
- Applying a Qos policy on sub-interfaces may result in SandAcl restart, since this functionality isn't supported. (403281)
- Traffic drop may happen when we sent traffic to all 8 traffic-classes (aggregate rate nearing linerate) to port which has been configured with Strict-Priority scheduling. (406550)
- Traffic drop may happen when we sent traffic to all 8 traffic-classes (aggregate rate nearing linerate) to port which has been configured with WRR scheduling. (406561)
- Only port-channel interfaces are supported as peer links. Single member port-channel interfaces are supported. (409958)

- Per TC based VOQ tail-drop thresholds isn't supported in software. (413344)
- Set dcsp will not apply to mpls routed packets that egress with mpls labels (418791)
- IPv6 routing into VXLAN is not supported. (422440)
- "ip tunnel <ip> nexthop-group" configuration for nexthop-groups with type mpls consisting of direct IP nexthops without label encapsulation is not supported. (458065)
- Unidirectional links are not supported at 40G speed on QSFP100 interfaces using the CRT50216 PHY. (467672)
- For VXLAN decapsulation + routing of overlay packet, the ECN bits may not be correctly copied from the incoming overlay packet. (489998)
- VXLAN VARP VTEP with IPv6 overlay routing requires vxlan-routing TCAM profile to be applied on the switch. (503496)
- The "phy link serdes mapping direct" CLI command requires the 25g serdes rate to be configured, unlike what is displayed in "show hardware speed-group configuration". (523850)
 SKUs Affected: 7500R3-36CQ-LC, 7500R3K-36CQ-LC, DCS-7280CR3-32D4, DCS-7280CR3-32P4, DCS-7280CR3K-32D4 and DCS-7280CR3K-32P4
- When SandCounter agent is down, datagram counters are not accounted. Hence in show sflow output, the "Number of Datagrams" entry displays lesser value than expected. (536213)

DCS-7020 Series

- The interface bin counter for both in and out packets with sizes 1523-Max may be inaccurate. Packets with sizes between 9217-9236 are not counted by the switch for interfaces Ethernet 1-48. (188121)
- Mirroring and sFlow can not be supported on the same source interface at the same time due to a hardware limitation. (209060)
- AES128/SHA-1 and AES256/SHA-256 are the only supported encryption/authentication algorithm pairs. (342005)
 SKUs Affected: DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R
- Using an Ipsec tunnel interface for policy-based routing nexthop is not supported. (378861)
 SKUs Affected: DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R
- Ipsec tunnel interfaces are not supported as part of nexthop-group. (378890)
 SKUs Affected: DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R

- Dynamic NAT, AKA Port Address Translation, is not supported for IPSec tunnels. (384624)

DCS-7280R and DCS-7280R2 Series

- Flex-route is not supported with security ACLs (Port ACLs, Router ACLs & MAC ACLs) when AlgoMatch is enabled. The workaround is to configure 'hardware access-list mechanism tcam'. (348149)

7300X3, 7320X, 7368, CCS-720XP, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3 and DCS-7300X Series

- Untagged packets received on a port with PFC enabled may be assigned the wrong priority. In case of congestion, PFC frames may not be sent or may be malformed.

The issue is observed when a port uses a default CoS value that is mapped to a traffic class with a different value. For example, if the default CoS is 0 and CoS 0 is mapped to traffic class 1. The workaround is to change the default CoS value on the port or the global QoS mapping such that the default CoS and the traffic class match. (23922)

- System does not stop transmitting traffic for the exact amount of time quanta received in PAUSE or PFC frame. This can lead to packet loss during congestion if the peer switch does not have enough buffers. The workaround is to use XON/XOFF instead of time based flow control, or to increase the time to account for one MTU sized packet. (27190)
- QoS shaping and guaranteed bandwidth will only work in store-and-forward mode. They are not supported in cut-through mode. This includes 'shape rate X' and the 'bandwidth guaranteed X' commands. (56790)
- Accelerated Software Upgrade (ASU) from 4.13.x (x < 6) to 4.13.6 and above requires a special upgrade procedure due to a software image format change. (90097)
- 10 Gbps packet replication on all SFP+ ports at the same time may lead to packet discard. (91149)
- Egress L2 MTU violations in cut-through mode may result in unexpected discards of other frames. (95577)
- VXLAN encapsulated packets cannot be TX mirrored at the egress properly. The mirrored packets will have an incorrect MAC header. (97272)
- Forwarding-table partition mode 4 is not supported. (100862)
Series Affected: DCS-7010 Series

- When IGMP snooping is enabled a single unknown multicast floodset is shared across all VLANs with IGMP snooping enabled. This can cause unexpected flooding to a trunk port that has no multicast routers on a given VLAN, but has multicast router attached to the same trunk port on another VLAN. (105188)
- When "hardware access-list resource sharing vlan in" is configured, systems will start sharing resources that are required for programming access-group/ access-list. In this mode only 24 port range checkers are available for programming L4 port ranges. After the 24 port range checkers are consumed, system will use port number and mask combination to program the rules in the access-list. Doing so would result in a given access-list consuming more TCAM entries in this mode than it would in the default mode. However, as the access-list is shared among multiple VLAN interfaces the effective TCAM usage can be lower.

This affects ip access-list, ip standard access-list, and ipv6 access-list.
 ipv6 standard access-list
 is not impacted. (105498)

Series Affected: DCS-7010, DCS-7050X and DCS-7050X2 Series

- "hardware access-list resource sharing vlan in" configuration will not share resources required by IPv6 standard access-lists. (105502)
 Series Affected: DCS-7010 and DCS-7050X Series
- When "hardware access-list resource sharing vlan in" is configured, Link Local Multicast traffic will not be intercepted by the ACL attached to the VLAN interface. (105504)
- A large ACL and PBR policy configuration that consumes all TCAM resources may not fit after doing a config-replace, ACL agent restart or switch reload. After performing a config-replace, ACL agent restart or a switch reload, it is possible that only the ACL or the PBR policy will be able to fit. (105667)
 Series Affected: DCS-7010 and DCS-7050X Series
- There may be a momentary traffic disruption every time the nexthop specified in a PBR policy resolves to a new designation: affected packets may be forwarded by normal L3 lookup, or be dropped.

The system will recover automatically; the PBR policy will return to route packets as per the new nexthop resolution momentarily. (105670)

- When any PBR policy is applied, packets that violate the egress MTU and are destined to flood the VLAN will end up being flooded instead of being sent to the CPU. (105680)
- Subinterfaces cannot be used to send or receive VXLAN encapsulated packets. (105767)

- When "hardware access-list resource sharing vlan in" is configured, changing the ACL on a VLAN interface:
 1. From an ACL that is not shared with other VLAN interfaces to one that is shared with other VLAN interfaces can cause deny traffic to get permitted until the new ACL takes effect.
 2. To another ACL that doesn't fit in the TCAM can cause deny traffic to get permitted until the system reverts back to the previously applied ACL. (106646)
- If IP-in-IP decap groups are configured, "qos trust dscp" configuration is not supported on traffic matching the decap groups. (107579)
- Vxlan and MPLS features may not be configured at the same time. (109330)
- When "hardware access-list resource sharing vlan in" is configured and TCAM is close to being full, restart of the forwarding agent or a reboot of the box, can cause some ACLs to not get programmed properly. (109876)
- The Accelerated Server Upgrade feature is not supported with the "hardware access-list resource sharing vlan in" configuration. (110114)
- IGMP snooping is not supported on Vxlan enabled VLANs. The multicast packets will always be flooded locally and to remote VTEPs. (110479)
- A front-panel or fabric port may get stuck in an errored state and drop traffic egressing the port. When this happens, the forwarding agent log will contain "port <internal port #> start error detected". This condition will persist until it is manually cleared. A forwarding agent restart is required to clear the error and forward traffic normally. (112051)
- MPLS is not supported on subinterfaces. (113110)
- Packets being VXLAN encapsulated are constrained to a single underlay physical nexthop per physical egress port.

Topologies involving SVIs over trunk ports, or non point-to-point routed ports towards the core will not work optimally, the encapsulated packets will be sent to the wrong next-hop for all but one of the VTEPs.

Topologies involving virtual VTEPs connected via a downstream L2 switch will not work, as the receiving vswitch will not have the capability to route the packet to the right VTEP. (113722)

- Port ACLs are not supported on VXLAN terminated traffic. (113726)
- If the configured RACLs do not fit in the TCAM, then disabling the RACL sharing feature might cause removing a RACL from an individual VLAN interface to fail.

To recover from this state, delete/remove the access-list and then reconfigure the access-list. (114028)

- Configuring "hardware access-list resource sharing vlan in" in a config replace session or in config session is not supported (114291)
Series Affected: DCS-7010 and DCS-7050X Series
- L2 flooding of BUM packets on Vxlan vlans uses L3 replication tables, which are also used by IP multicast routing. The replication tables have an entry for each vlan, physical port combination (lag or non lag). We will run out of this table resources if we need more than 64k entries. (114517)
- Toggling "hardware access-list resource sharing vlan in" configuration could cause ACLs that were already programmed on VLAN interfaces to not get programmed. This could traffic loss on the VLANs where the ACLs were originally applied. (115348)
Series Affected: DCS-7010 and DCS-7050X Series
- If the switch is in cut-through mode, L2 MTU violations will not be counted if the packet headers are changed while forwarding. (116760)
- QoS policies are not supported for L3 Unicast flooded packets (routed packets with nexthop MAC not learned) (123883)
- When a PBR is attached to any interface, Layer-3 packets which are getting flooded in the egress VLAN will not be treated with Egress Router ACL if one is configured on that egress VLAN. (133144)
- VXLAN routing is not supported on systems with BCM56750 fabric chips. Such switches can be identified using the CLI command "show platform trident l3 summary", which will show bcm56750 for "Fabric chip model". (134625)
- Mirroring of incoming multicast traffic to a GRE tunnel may result in data traffic loss on the egress interface in an oversubscription scenario. (139591)
- Egress IP/IPv6 router ACL is not supported for VXLAN encapsulated traffic. (148642)
Series Affected: DCS-7050X2, DCS-7050X3 and DCS-7300X Series
- IP ACLs configured on SVIs to match routed IP multicast traffic may also match bridged IP multicast traffic in that SVI. (152523)
- If hardware tables for VLAN translation overflows, the entries need to be un-configured and re-configured after the overflow condition is removed due to appropriate configuration changes. (157196)

- Up to 4 mirroring sessions are supported.

Each direction mirrored on a source port counts towards that limit of 4. For example, if a port is configured with rx and tx mirroring (the default), this counts as 2 consumed sessions. (158490)

- 1) Multicast traffic matching reserved IPv4 multicast address range 224.0.0.X is not counted by L3 interface counters.
2) L3 interface counters not supported for IPv6 multicast traffic.
3) Unicast traffic to CPU is counted by L3 interface counters only if routing is enabled (i.e. ip routing for IPv4 traffic and ipv6 unicast-routing for IPv6 traffic) (160930)
- Mirroring of Vxlan encapsulated packets in the egress direction is not supported. (167189)
- If a trunk port is configured as a member of both the underlay and overlay VLANs, the following limitations apply:
 - If packets received on the trunk port are flooded in the overlay VLAN, the VxLAN encapsulated copy is not forwarded on the ingress trunk port.
 - Vxlan encapsulated packets received on the trunk port, if flooded in the overlay VLAN after decapsulation, are not forwarded on the ingress trunk port. (185321)Series Affected: DCS-7050CX3, DCS-7050SX3, DCS-7050X2 and DCS-7300X Series
- If ingress ACL is applied on an interface, traffic sent to CPU from that interface is falsely counted as InAclDrop in "show int counters ingress acl drop". (203465)
- Clause 37 auto-negotiation on SFP28 and QSFP28 ports is not supported. A workaround is to use 1G forced speed configuration on the affected ports. (206778)
Series Affected: 7300X3, CCS-720XP, DCS-7050CX3, DCS-7050SX3, DCS-7050X3, DCS-7060CX, DCS-7060CX2, DCS-7060SX2, DCS-7060X, DCS-7060X2 and DCS-7260CX3 Series
- When "reload fast-boot" is performed from a release prior to 4.17.2, switches with BGP peering connections with the switch undergoing "reload fast-boot" could experience BGP KeepAlive timeouts before they see port flaps. This could result in longer than expected data plane downtime during the upgrade. (214700)
Series Affected: DCS-7050X, DCS-7060X and DCS-7060X2 Series
- A multi-bit ECC error in forwarding ASIC packet memory cannot be automatically corrected. A hitful restart of the slice agent managing the forwarding ASIC or a reboot of the system is required to clear the condition. (214950)

- If ip-ttl is the only enabled field for port channel hashing, after reload hitless, packets may get hashed to a different link than before the reload. (223568)

Series Affected: DCS-7050TX, DCS-7050X and DCS-7060X Series

- A configured mirroring ACL may not be applied in hardware. This can be confirmed by checking the output of 'show platform trident tcam mirror'. (236908)
- Sflow output interface determination will not work when the output interface is a subinterface. (250424)
- A switch may not be able to bridge or route VXLAN traffic if it hits one or all of following conditions:
 - Nexthop resources are exhausted as indicated by syslog `VXLAN_HWHW_NEXTHOP_RESOURCE_FULL`.
 - MAC table overflow as indicated by show platform trident mac-address-table missing.

To recover from this condition reduce the config scale and flap the VXLAN interface. (253601)

- Flexible port-channel hashing may not hash accurately when the inner L4 header option is configured for IPV6 GRE packets. (267487)
- If a packet stream is policed by multiple policers, the policed rate may be lower than any of the configured policer rates. (271046)
- To perform filtered mirroring of a packet based on VLAN from an interface configured to perform VLAN translation, the ACL must be programmed with the translated VLAN. The mirrored packet will be the same as the packet at the source interface. (278599)
- BGP neighbor sessions may flap when URPF is configured on an interface. (279113)
- To perform filtered mirroring of a packet based on VLAN from a subinterface source, the ACL must be programmed with the internal vlan of the subinterface. The mirrored packet will be the same as the packet at the source interface. (280943)
- Matching on inner VLANs is not supported in mirror ACLs. If an entry is specified matching on inner VLAN, it will be ignored and permit all packets. (284371)
- SSU is supported when upgrading from the associated release in each release train: 4.18.8, 4.19.8, 4.20.7, 4.21.0. (289548)
- Issuing "no shutdown" on a member link of port-channel may send duplicate packets for sub-second on that member link (291514)

- DirectFlow (and features such as the MacroSegmentation Service that use DirectFlow) are unsupported on the 7260, 7300 series of switches. (296715)
- When primary vlan and secondary vlan are part of different MST instances, the hardware programming of lag will not happen. (300119)
- Not all interfaces in the groups Ethernet49-Ethernet52 and Ethernet53-Ethernet56 can be broken out in to 4x25G, 4x10G or 2x50G mode due to MAC resource limitation on the system. Interfaces without MAC resource will be marked inactive and 'STRATA-4-HW_PORT_RESOURCE_FULL' will be logged in syslog.

Speed change on interfaces in the groups Ethernet49-Ethernet52 and Ethernet53-Ethernet56, can free up the MAC resources to make inactive interfaces active in that group. (306121)

SKUs Affected: DCS-7050SX3-48YC8-F and DCS-7050SX3-48YC8-R

- When MLAG peer MAC routing is enabled, OSPF neighborship over VXLAN overlay may never get established. (349242)
- Ip-length based rules are not supported on Egress ACLs. (353247)
- Packets dropped in the egress pipeline may still be egress mirrored successfully. (357609)
- Some ports (esp. Et73-Et96 and Et103-Et104) might blackhole traffic or fail to linkup. (358362)
SKUs Affected: DCS-7050TX2-128-F and DCS-7050TX2-128-R
- SSU is not supported with Vxlan and MLAG config. (388669)
- Ports with ingress MAC ACL still learn MAC addresses although traffic may be dropped (400211)
- Reload hitless from EOS-4.22 or earlier results in /2 and /4 ports on Ethernet 1-12, 21-44 and 53-64 to remain inactive when /1 and /3 are configured in 10G or 25G. In order to activate /2 and /4 ports, configure 40G, 50G or 100G /1, then configure 10G or 25G back. These ports are also activated following a forwarding agent restart. (409057)
Series Affected: DCS-7260CX3 Series
- "reload fast-boot" is not supported with virtual IP address config. (411323)
- Speed change on a port with macsec enabled is not supported and could cause the port to get into a persistently un-authenticated state. Workaround is to disable macsec on the port, change the speed and then re-enable macsec on the port. (415737)
SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R

- Performing SSU from any release prior to 4.22.2 can lead to extended outage and mis-forwarding. (424812)
SKUs Affected: DCS-7050SX3-48YC8-F and DCS-7050SX3-48YC8-R
- IP ACL match over MPLS Encapsulated Packets is not supported. (426413)
- During Mpls PHP operation inner payload type gets ignored. (428546)
- When both "hardware counter feature vni decap" and "hardware counter feature vni encap" are enabled, the egress flexcounter pools will only be released after both features are disabled. (441887)
Series Affected: 7300X3, 7320X, 7368, CCS-720XP, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3 and DCS-7300X Series
- When an interface undergoes a hitless speed change, sFlow sample numbers and sequence counts for that interface may be reset. (452949)
Series Affected: 7300X3, 7368, DCS-7050X3, DCS-7060X4 and DCS-7260CX3 Series
- With VXLAN dataplane learning disabled, locally learned MAC addresses will not age out if VXLAN encapsulated packets from remote VTEPs are received with inner packet's source mac as the locally learned MAC. The locally learned MAC entry needs to be cleared manually by issuing 'clear mac address-table dynamic vlan <VLAN> address <ADDRESS>'. (460607)
- If virtual mac address of the switch is learnt against a front panel port, it may not age out. The workaround is to clear the mac address manually by issuing 'clear mac address-table dynamic vlan <VLAN> address <ADDRESS>' command. (470965)
- When IPV4 and IPV6 PBR are both programmed in TCAM, forwarding plane agent restart may result in IPV6 PBR rules not being programmed in hardware. There is no workaround to this. (473582)
- The total length field in the IP header is not populated correctly when operating in cut-through mode. The switch should be operated in switch-and-forward mode when mirroring to a GRE tunnel. (475273)
- Mirrored packets that violate the MTU requirements will not be fragmented. (481513)
- Packets sent from the CPU cannot be egress mirrored unless they are being sent out of an SVI. (495146)
- Egress mirroring of multicast packets that are going to be encapsulated on the switch, independent of mirroring, is not supported. (512880)
- The mirroring logic can only capture and mirror packets seen by the ingress pipeline. Packets generated by the memory-management unit do not traverse

the ingress pipeline and hence cannot be mirrored. This applies to all types of mirroring. (527668)

- When policer is attached to the class-default of an egress policy-map consisting of both IPV4 and IPV6 ACLs, IPV4 and IPV6 traffic hitting class-default would be policed individually with rate configured on default class-map (541843)
- The Strata agent restarts after running "platform trident diag psr <port>" command. (546588)

DCS-7010 Series

- IEEE 1588 PTP transparent clock does not decrement TTL for PTP routed packets (55078)

7320X, DCS-7060X and DCS-7260X Series

- When in cut-through forwarding mode, mirror sessions with both ingress mirror sources and egress mirror sources configured to mirror packets to the same mirror destination port will not be programmed in hardware.

The workaround for this is to switch to store-and-forward mode where the limitation is not present. (154721)

- Cut-through mode is not supported on the SFP+ interfaces. (182728)
- Cut-through mode is not supported at 1G speed. (219427)

DCS-7260X3 Series

- LANA is not supported. (217543)
- Configuring 100G, 50G, 40G, 25G and 10G simultaneously might result in unexpected packet forwarding behavior. (235075)

7368 and DCS-7060X4 Series

- Multicast replication resources in TH3 are only 10% of their unicast counterparts. Due to this multicast replication in TH3 is limited to 1.2 Tbps. (297317)
- show running-config incorrectly displays interfaces for non-inserted cards. Interface statuses for missing or powered down cards are displayed as inactive. (306105)
Series Affected: 7368 Series
- Layer2 source MAC learning may occur on packets received with CRC errors. (325507)

- Routed unicast traffic egressing a SVI for which destination MAC is not learnt are sent to CPU and then flooded on the egress VLAN. (368228)
- Per vlan routing and sub interface are not supported together. (486439)

DCS-7050X, DCS-7250X and DCS-7300X Series

- Packets sourced from the CPU to be VXLAN encapsulated will not have the right DSCP marking in the outer header based on the global QOS map configuration. (139248)
- Tcam entries used by IPv6 standard access list is not shared across interfaces (159827)
- In MLAG VTEP configuration, the switch incorrectly drops VXLAN encapsulated packets that are destined to the VTEP IP address with the destination mac as peer switch's bridge MAC address. The workaround is to configure VARP in such scenarios. (173716)
- Multicast traffic destined to boundary or prefix mroutes configured may be forwarded out of order if fabric priority flow control is enabled for the given priority. (185981)
- If an SVI is used as a core interface to reach remote Vteps, any L3 EVPN traffic using that SVI will be dropped if the underlay mac becomes unlearned. A workaround is to configure MAC timeout to a higher value than ARP timeout to ensure macs don't get aged out. (192419)
- During "reload hitless", ECMP traffic flows may get hashed to a different ECMP path than before the reload. (218700)
Series Affected: DCS-7050X Series
- Direct flow on T2+ has the following limitations
 1. Only IP packets can have their source mac , destination mac and vlan changed.
 2. When a packet has its smac, dmac and vlan changed then it can only be forwarded to one interface.
 3. When a packet has its vlan changed it can only be forwarded untagged on access ports.
 4. An output interface must be specified whenever a packet's smac,dmac and/or vlan is changed. (251477)
- SFP+ and QSFP+ interfaces with a MAC loopback configuration (traffic-loopback or routing recirculation-interface) may erroneously allow the peer device to link up and blackhole traffic. To work around the issue, either unplug the cable or administratively shutdown the interface on the link partner. (494452)

DCS-7050X2 Series

- When IEEE 1588/PTP is configured on interfaces running at 100Mb/s speeds, the master offset and mean path delay calculations are inaccurate due to a limitation in the internal PHY (122816)
- Switch tries to perform VXLAN decapsulation of a packet if the destination IP of the packet matches the local Vtep IP address and the destination UDP port matches the configured VXLAN Port, even though the L2 Destination Mac address does not match any of its local Mac addresses. This can result in the packet getting dropped. This issue is more likely to be encountered when the switch happens to be an MLAG peer and the MLAG peers have the same VTEP IP configured. The MLAG switch may drop the received VXLAN encapsulated packets addressed to its MLAG peer's Mac address when the destination IP matches the shared VTEP IP configured on the MLAG Peers. (145099)
Series Affected: DCS-7050SX2 Series
- Egress VLAN translation will not work on routed multicast packets when the VLAN to be translated is part of the outgoing interface list. (151093)
- VLAN translation is not supported on vxlan core ports (154309)
Series Affected: DCS-7050X2 Series
- Due to an increase in the number of default entries programmed in the TCAM, 'Out of TCAM entries', might be seen while configuring ACLs. This happens due to the TCAM hardware resources being full. The workaround is to unconfigure any unused feature that requires TCAM resources. (182178)

Transceiver Series

- SFP-1G-T transceivers can only advertise one speed at a time. Desired speed and negotiation must be explicitly configured. Recommended commands are:

* "speed auto" / "speed auto 1gfull" / "speed auto 1000full" : enable autoneg, advertise only 1G
* "speed auto 100full" : enable autoneg, advertise only 100M
* "speed 100full" : disable autoneg, force speed to 100M (159401)
SKUs Affected: 1000BASE-T
- 25G transceivers could suffer signal degradation when using the MAM1Q00A-QSA QSFP-to-SFP adapter.

Use a MAM1Q00A-QSA28 QSFP28-to-SFP28 adapter instead. (253324)
- For SKUs CAB-O-2Q-400G, CAB-O-4Q-400G, CAB-D-2Q-400G and CAB-D-4Q-400G, when operating at 25G or 50G NRZ speeds, forward error-correction should be

manually configured (enabled or disabled) on both sides of the link as the default error-correction on both ends may not match. (392124)

- Revision 20 OSFP-400G-2FR4 transceivers may not correctly report the operational value of the configured Tx Input Equalization. This can be observed in 'show interfaces transceiver tuning detail', in which the Operational Tx Input Equalization may not match the Configured value. If the 'Tx Input Equalization' Configured column shows auto, automatic Tx Input Equalization is enabled, despite the Operational value shown. (423045)
SKUs Affected: OSFP-400G-2FR4
- There is a hardware incompatibility between 100G AOCs with serial numbers starting with "AEB" and certain Mellanox adapters.

The recommendation is to RMA for AOCs with serial numbers that don't start with "AEB". (457261)

- Interfaces with BCM82391 PHY do not support 1000BASE-T transceivers. (535121)
- QSFP200 cables and optics encoded using the CMIS specification are not recognized in QSFP100 ports.

There is no workaround. (536318)

7300X3, CCS-720XP and DCS-7050X3 Series

- The DirectFlow "set vlan action" command is not supported. (237046)
- When configuring a DirectFlow action, specifying "interface hardware-loopback" as the destination of "action output" is not supported. (243031)
- IPv6 packets with WESP payload (next header 141) bypass the IPv6 security ACLs and service policies. (243387)
- Cut-through mode is not supported on SFP+ interfaces. (252731)
- Directflow configuration with "set vlan", but no "action set output interface" configured is not supported. (345852)
- NAT is not supported on subinterfaces (353236)
SKUs Affected: 7300X3-32C-LC, 7300X3-48YC4-LC, DCS-7050CX3-32S and DCS-7050SX3-48YC12
- The following DirectFlow configurations are not supported: match input interface hardware-loopback
action output interface <> (more than one)
action output interface hardware-loopback
action output flood|all
action set cos (355927)

- Setting the default CoS value for a phone VLAN, using the CLI "switchport default phone vlan cos <>", takes effect only if the phone trunk port is in CoS trusted mode. If the phone trunk port is in CoS untrusted mode, then the port's default CoS value will be used for the phone VLAN. (390588)
- MAC Egress ACL configurations matching IP packets may not work when the IPv4/v6 per-interface counter feature is also configured. (411243)
- Leaf stateful switch upgrade is not supported on this platform. (415340)
SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R
- CLI output of "show platform trident l3 shadow mpls-vc-and-swap-label" will show push as MplaLabelAction even for swap operation. (416134)
- 1G speed is not supported on DCS-7050CX3M in this release (416148)
SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R
- 10/25G speeds do not support Macsec in this release (418855)
SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R
- 10/25G speeds not supported (420239)
SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R
- MPLS packet undergoing swap operation does not honor the MTU configured on ingress/egress interface. (422668)
- Only 2K MPLS routes are supported (425691)
Series Affected: CCS-720XP Series
- If the number of MPLS next-hop groups configured exceeds 512, then STRATA-3-MPLS_MAC_DA_PROFILE_TABLE_FULL syslog message is logged and L3 forwarding agent may continuously restart.

The workaround is to scale down the number of MPLS next-hop groups configured to stop the agent from continuously restarting. (428162)

- If the packet ingresses on one line card and egresses on a different line card, then a truncated egress mirrored packets will be 4 bytes shorter than expected. (445200)
SKUs Affected: DCS-7304 and DCS-7308
- 50g port speed is not supported in this release (445999)
SKUs Affected: DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R
- SVI is not supported as Vxlan IPV6 underlay core interface. (533929)

DCS-7160 Series

- If there is a port ACL (PACL) or router ACL (RACL) that matches on L4 information for TCP/UDP/ICMP, and if the incoming packet has IP options, then those packets are dropped. (172932)
- No support for matching on DSCP field on IP packets for security ACLs. (174114)
- If the MAC address of the next-hop to reach a remote VTEP is not learned, and if the remote VTEP is configured for Head End Replication (HER) for a VXLAN VLAN, then, the the VTEP is not included in the list of HER VTEPs and no VXLAN BUM packets will be sent to that VTEP. The VTEP is included in the list of HER VTEPs once the underlay MAC address of the next-hop to reach that VTEP is learned.

The workaround is to ensure that the underlay MAC of the next-hop to reach remote VTEPs are always present (which is the normal operation). (178395)

- Control plane Policy Map counters are not supported. (180303)
- A maximum of 3840 remote VTEPS are supported when the switch is configured as a Vxlan Vtep. (188553)
- ACLs with Vxlan is not supported, and may result in unexpected forwarding behavior depending on the configuration and pipeline profile. (217888)
- Any IPv6 ACL containing a rule with the first 96 bits set as 0 cannot be configured when the algomatch profile is being used. (218453)
- Customer may witness around 100 mililiseconds of packet loss when VxLAN ECMP nexthop changes. (219888)
- There may be traffic loss of up to 100 mililiseconds when a VxLAN nexthop (as part of ECMP)undergoes modifications. (268600)
- The DSCP value of BGP control plane packets set by the command 'bgp transport qos dscp <value>' is overwritten when 'qos rewrite dscp' is enabled and the outgoing routed interface is a SVI. The rewritten value is based on traffic-class to DSCP map configuration. (288617)
- If a different XP profile than the one that is currently running is configured, and ACL configuration/ACL viewing commands without running a chip reset/reboot (via

platform xp xp0 reset),
the command can cause XpAcl to restart. (418083)

- VLAN ID match in IP ACLs is not supported on DCS-7160 platforms. (514366)

Conditions and Impacts

The release notes listed above use shorthand terminology to refer to conditions that arise frequently in connection with bugs. This section explains each condition and its impact in more detail.

Condition: Rib agent restart

Impact: When the Rib agent goes down, all routing sessions are terminated; all BGP sessions drop, all OSPF adjacencies are lost, and neighbors stop forwarding traffic to us. When the Rib agent restarts, adjacencies are re-formed, and, after protocol convergence, traffic flows through us again. In most cases where there is adequate network-level redundancy, application-visible impact should be minimal

Condition: Rib agent hang

Impact: When the Rib agent hangs, routing protocols stop running. Routing peers will generally time out their session with the hung Rib agent, withdrawing routes accordingly. Meanwhile, the device continues to forward packets based on existing routing state. During this time, the device will not respond to routing topology changes. After a heartbeat timer expires (typically 10 minutes), the Rib agent restarts. In networks with sufficient redundancy, application impact of a Rib agent hang is usually low, because there is no data path disruption. However, in conjunction with other network changes (such as link failure or introduction), routing loops may occur.

Condition: kernel crash

Impact: A kernel crash has impact similar to issuing the "reload now" command. All links go down and all forwarding stops. Then, the system reloads, which may take up to 15 minutes. In a network with adequate redundancy, there should be minimal traffic loss associated with this period. After reload, links come up and protocols (LACP, STP, BGP, etc) reconverge. Protocol reconvergence is not necessarily hitless, depending on topology and configuration. For example, a switch may advertise a prefix to a connected subnet before STP has converged. However, any associated outage should be short lived, typically lasting around 30 seconds. The MLAG-SSO feature can dramatically reduce the window of disruption.

Condition: forwarding agent restart

Impact: A forwarding agent restart typically results in the switch ASIC being reset. It clears packet memory, dropping all packets currently in the switch, and causes all links to go down. The restart can take up to 45 seconds, during which time all links are down. Once the restart completes, all links come back up automatically, followed by protocol reconvergence (MLAG, LACP, STP, BGP/OSPF/IS-IS, etc). Depending on which protocols and options are in use, the reconvergence may take a few seconds up through several minutes. On modular switches, the

impact of forwarding agent restart is limited to the affected line card; that is, if the forwarding agent for line card 3 restarts, then all ports on line card 3 bounce and protocols on those ports reconverge, but ports on other line cards are unaffected.