

Arista Networks EOS 4.27.0F Release Notes

Version: 2.0

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Enhancements in 4.27.0F

BGP EVPN L2/L3 VXLAN/MPLS

General

Layer 2

Layer 3

Multi-agent

MLAG

MPLS

vEOS Router / CloudEOS

DCS-7170 Series

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2,
DCS-7500R3 and DCS-7800R3 Series

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

DCS-7800R3 Series

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

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

7300X3, 7320X, 7368, CCS-720XP, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2,
DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X,
DCS-7260X3, DCS-7300X and DCS-7300X3 Series

7368 and DCS-7060X4 Series

DCS-7010TX Series

CCS-750 Series

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

Resolved Caveats in 4.27.0F

BGP EVPN L2/L3 VXLAN/MPLS

General

Layer 1

Layer 2

Layer 3

Multi-agent

Rib

MPLS

Multicast

SwitchApp

CCS-720XP and CCS-750 Series

7368, CCS-750, DCS-7300X, DCS-7500R, DCS-7800 and DCS-7800R3 Series

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2,
DCS-7500R3 and DCS-7800R3 Series

DCS-7280R and DCS-7500R Series

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

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

DCS-7800R3 Series

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

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

7300X3, 7320X, 7368, CCS-720XP, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2,
DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X,
DCS-7260X3, DCS-7300X and DCS-7300X3 Series

CCS-750 Series

7368 and DCS-7060X4 Series

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

CCS-750 Series

Transceiver Series

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

Known Software Caveats in 4.27.0F

Accelerated System Update

BGP EVPN L2/L3 VXLAN/MPLS

Containerized EOS

vEOS Router / CloudEOS

CVX

General

Layer 1

Layer 2

Layer 3

IPSEC

Multi-agent

Rib

MLAG

MPLS

Multicast

vEOS Router / CloudEOS

DCS-7170 Series

DCS-7170 Series

CCS-720XP and CCS-750 Series

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

7368, CCS-750, DCS-7300X, DCS-7500R, DCS-7800 and DCS-7800R3 Series

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2,
DCS-7500R3 and DCS-7800R3 Series

DCS-7280R and DCS-7500R Series

DCS-7280R2 and DCS-7500R2 Series

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

DCS-7800R3 Series

DCS-7020 Series

DCS-7500R3 and DCS-7800R3 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, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2,
DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X,
DCS-7260X3, DCS-7300X and DCS-7300X3 Series

DCS-7010 Series

7300X3, 7320X, DCS-7060X, DCS-7260X and DCS-7300X3 Series

DCS-7260X3 Series

7368 and DCS-7060X4 Series

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

DCS-7050X2 Series

CCS-720XP Series

CCS-750 Series

DCS-7050X3 Series

Transceiver Series

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

Limitations and Restrictions in 4.27.0F

Accelerated System Update

BGP EVPN L2/L3 VXLAN/MPLS

CVX

General

Layer 1

Layer 2

Layer 3

IPSEC

Multi-agent

Rib

MLAG

MPLS

Multicast

SwitchApp

vEOS Router / CloudEOS

DCS-7170 Series

DCS-7170 Series

CCS-720XP and CCS-750 Series

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

7368, CCS-750, DCS-7300X, DCS-7500R, DCS-7800 and DCS-7800R3 Series

CCS-720XP and CCS-750 Series

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2,
DCS-7500R3 and DCS-7800R3 Series

DCS-7280R and DCS-7500R Series

DCS-7280R2 and DCS-7500R2 Series

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

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

DCS-7020 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, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2,
DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X,
DCS-7260X3, DCS-7300X and DCS-7300X3 Series

DCS-7010 Series

7300X3, 7320X, DCS-7060X, DCS-7260X and DCS-7300X3 Series

DCS-7260X3 Series

7368 and DCS-7060X4 Series

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

DCS-7050X2 Series

CCS-720XP Series

CCS-750 Series

7300X3 and DCS-7050X3 Series

Transceiver Series

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

Conditions and Impacts

EOS 4.27.0F Release Highlights

New Platforms and Hardware

- 7816R3-FM
- DCS-7816-CH
- DCS-7816-SUP

SNMP MIBs

- ARISTA-ACL-MIB
- ARISTA-ASIC-COUNTERS-MIB
- ARISTA-BGP4V2-MIB
- ARISTA-BRIDGE-EXT-MIB
- ARISTA-CONFIG-COPY-MIB
- ARISTA-CONFIG-MAN-MIB
- ARISTA-DAEMON-MIB
- ARISTA-ENTITY-SENSOR-MIB
- ARISTA-FIB-STATS-MIB
- ARISTA-GENERAL-MIB
- ARISTA-HARDWARE-UTILIZATION-MIB
- ARISTA-IF-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-MAU-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-NEXTHOP-GROUP-MIB
- ARISTA-PFC-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-PRODUCTS-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-QOS-MIB
- ARISTA-QUEUE-MIB
 - Excluding 7150
- ARISTA-REDUNDANCY-MIB
 - 7500R, 7500E, 7300X, 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-SMI-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-SNMP-TRANSPORTS-MIB
 - 7050X2, 7060X, 7260X, 7320X, 7060X2, 7160, 7020R
- ARISTA-SW-IP-FORWARD-MIB
 - IPv4 only
- ARISTA-SW-IP-FORWARDING-MIB
- ARISTA-TEST-MIB
- ARISTA-VRF-MIB
- ARISTA-VXLAN-MIB

- ARISTA-XCVR-DWDM-MIB
- ARISTA-XGS-MIB
- ENTITY-MIB
- ENTITY-SENSOR-MIB
- ENTITY-STATE-MIB
- HC-RMON-MIB
 - etherStatsHighCapacityGroup
- HOST-RESOURCES-MIB
- IEEE8021-PFC-MIB
- IEEE8021-SECY-MIB
- IEEE8023-LAG-MIB
- IGMP-MIB
- IPMROUTE-STD-MIB
- LLDP-EXT-DOT1-MIB
- LLDP-EXT-DOT3-MIB
- LLDP-MIB
- MPLS-LDP-STD-MIB
- MSDP-MIB
- NOTIFICATION-LOG-MIB
- OSPF-TRAP-MIB
- OSPFV3-MIB
- PIM-MIB
- PTPBASE-MIB
- RFC 2863 IF-MIB
 - obsoletes RFCs 1229, 1573, 2233
- RFC 2864 IF-INVERTED-STACK-MIB
- RFC 3418 SNMPv2-MIB
 - obsoletes RFCs 1450, 1907
- RFC 3635 EtherLike-MIB
 - obsoletes RFCs 1650, 2358, 2665
- RFC 3636 MAU-MIB
 - ifMauDefaultType and ifMauAutoNegStatus are writeable
- RFC 4022 TCP-MIB
 - obsoletes RFC 1213
- RFC 4113 UDP-MIB
 - obsoletes RFC 1213
- RFC 4188 BRIDGE-MIB
- RFC 4273 BGP4-MIB
- RFC 4292 IP-FORWARD-MIB
 - obsoletes RFC 1354
- RFC 4293 IP-MIB
 - obsoletes RFC 1213
- RFC 4363 Q-BRIDGE-MIB
- RFC 4750 OSPF-MIB
- RMON-MIB
 - rmonEtherStatsGroup

- RMON2-MIB
 - rmon1EthernetEnhancementGroup
- SNMP-TLS-TM-MIB
 - RFC 6353
- SNMP-TSM-MIB
 - RFC 5591
- SNMPv2, SNMPv3
- VRRPV2-MIB

SNMP Traps

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

Supported Hardware

Fixed System

- 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
- FAN-7001C
- 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
- 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
- FAN-7002H-R
- FAN-7000H-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-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-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

- PWR-1600AC
- PWR-1600AC-F
- FAN-7001D
- FAN-7001D-F
- PWR-400-DC-BLUE
- PWR-400-DC-RED
- 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
- FAN-7001C-R
- 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-501AC
- PWR-501AC-F
- PWR-501AC-R
- PWR-1011-AC-RED
- PWR-721-DC-RED
- PWR-621-AC-BLUE
- FAN-7012H-RED
- PWR-1011-AC-BLUE
- PWR-1011-DC-BLUE
- PWR-1011-DC-RED
- PWR-2411-AC-RED
- PWR-2411-DC-RED
- FAN-7012H-BLUE
- FAN-7012M-BLUE
- FAN-7012M-RED
- FAN-7010X
- FAN-7000
- 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-7280CR3-96
- DCS-7280CR3-96-F
- DCS-7280CR3K-96
- DCS-7280CR3K-96-F
- DCS-7280CR3MK-32P4
- DCS-7280CR3MK-32P4-F
- DCS-7280CR3MK-32P4-R
- DCS-7280DR3K-24
- DCS-7280DR3K-24-F
- DCS-7280CR3MK-32D4
- DCS-7280CR3MK-32D4-F
- DCS-7280CR3MK-32D4-R
- DCS-7280CR3MK-32D4S
- DCS-7280CR3MK-32D4S-F
- DCS-7260QX-64-SSD-R
- DCS-7050SX-72Q
- DCS-7050SX-72Q-F
- DCS-7050SX-72Q-R
- 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-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

- FAN-7000-F
- 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-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-7280SR-48C6-F
- DCS-7280SR-48C6-M-F
- 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-7280CR3MK-32D4S-R
- DCS-7280SR3K-48YC8
- DCS-7280SR3K-48YC8-F
- DCS-7280SR3K-48YC8-R
- DCS-7280CR3MK-32P4S
- DCS-7280CR3MK-32P4S-F
- DCS-7280CR3MK-32P4S-R
- DCS-7280SR3-48YC8
- DCS-7280SR3-48YC8-F
- DCS-7280SR3-48YC8-R
- DCS-7280CR3-36S
- DCS-7280CR3-36S-F
- DCS-7280CR3K-36S
- DCS-7280CR3K-36S-F
- DCS-7050TX-128
- DCS-7050TX-72
- DCS-7050TX-96
- DCS-7050CX3-32S
- 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-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-7050SX-64-R
- DCS-7050SX-64-SSD-F
- DCS-7050SX-64-SSD-R
- DCS-7260CX3-64E
- DCS-7260CX3-64E-F
- DCS-7260CX3-64E-R
- DCS-7060DX4-32
- DCS-7060DX4-32-F
- DCS-7060PX4-32
- DCS-7060PX4-32-F
- CCS-720XP-24Y6-F
- CCS-720XP-48Y6-F
- DCS-7050CX3-32S-SSD-F
- DCS-7050CX3-32S-SSD-R
- DCS-7050CX3M-32S
- DCS-7050CX3M-32S-F
- DCS-7050CX3M-32S-R
- CCS-720XP-24Y6-R
- CCS-720XP-48Y6-R
- DCS-7050SX3-48C8
- DCS-7050SX3-48C8-F
- DCS-7050SX3-48C8-R
- DCS-7050TX3-48C8
- DCS-7050TX3-48C8-F
- DCS-7050TX3-48C8-R
- CCS-720XP-96ZC2
- CCS-720XP-96ZC2-F
- DCS-7050SX3-96YC8
- DCS-7050SX3-96YC8-F
- DCS-7050SX3-96YC8-R
- DCS-7010TX-48
- DCS-7010TX-48-DC
- DCS-7010TX-48-DC-F
- DCS-7010TX-48-DC-R
- DCS-7010TX-48-F
- DCS-7010TX-48-R
- FAN-7002
- FAN-7002-F
- FAN-7002-R
- FAN-7002H-F
- FAN-7000H
- FAN-7000H-F

Modular

- FAN-7002
- FAN-7002-F
- FAN-7002-R
- FAN-7002H-F
- DCS-7516-SUP2-D
- DCS-7516N
- 7500R2A-36CQ-LC
- 7500R2AK-36CQ-LC
- DCS-7508
- DCS-7504
- 7300-SUP
- 7300-SUP-D

- 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
- PWR-D1-3041-AC-BLUE
- FAN-752M-RED
- PWR-3351-AC-RED
- PWR-2900AC
- DCS-7504N
- DCS-7508N
- 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
- 7516R-FM
- DCS-7516-SUP2
- 7500R2AK-48YCQ-LC
- 7500R2M-36CQ-LC
- 7500R2AM-36CQ-LC
- 7500R3-36CQ-LC
- 7504R3-FM
- 7508R3-FM
- 7500R3K-36CQ-LC
- 7500R3-24P-LC
- DCS-7808-CH
- DCS-7804-CH
- 7800R3-36P-LC
- 7800R3-48CQ-LC
- 7800R3-48CQM-LC
- 7800R3K-48CQ-LC
- 7808R3-FM
- DCS-7800-SUP
- DCS-7800-SUP1A
- 7804R3-FM
- 7500R3-24D-LC
- 7800R3-36D-LC
- 7800R3K-36DM-LC
- 7512R3-FM
- 7808R3-FM2
- 7816R3-FM
- DCS-7816-CH
- DCS-7816-SUP
- 7500R3-48Y4D-LC
- 7500R3K-48Y4D-LC
- 7800R3-48CQ2-LC
- 7800R3-48CQM2-LC
- 7800R3A-36DM2-LC
- 7800R3AK-36DM2-LC
- 7800R3K-72Y-LC
- 7300X-32Q-LC
- 7300X-64S-LC
- 7300X-64T-LC
- 7304X-FM
- 7308X-FM
- DCS-7304
- DCS-7308
- 7320X-32C-LC
- 7324X-FM
- 7328X-FM
- 7300X3-32C-LC
- 7304X3-FM
- 7308X3-FM
- 7300X3-48YC4-LC
- 7368
- 7368-16C
- 7368-SUP
- 7368-SUP-D
- 7368X4-SC
- 7304X3-FM2
- 7308X3-FM2
- 7368-4D
- 7368-4P
- CCS-750-SUP100
- CCS-750-SUP25
- CCS-750X-48TP-LC
- CCS-750X-48ZP-LC
- CCS-755-CH
- CCS-755-X3-SC
- CCS-758-CH
- CCS-758-X3-SC
- 7368-16S
- CCS-750X-48ZXP-LC

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
- CFPX-200G-DWDM
- 1000BASE-LX
- 1000BASE-SX
- 1000BASE-T
- 10GBASE-CR
- 10GBASE-LR
- 10GBASE-SR
- 10GBASE-SRL
- 100GBASE-XSR4
- 100GBASE-DR
- 10GBASE-ERBD
- SFP-10G-T
- H-D400-4Q100
- H-O400-4Q100
- OSFP-400G-FR4
- OSFP-400G-XDR4
- OSFP-400G-XDR4-S
- QDD-400G-DR4
- QDD-400G-FR4
- QDD-400G-SR8
- QDD-400G-XDR4
- QDD-400G-XDR4-S

- 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
- 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
- OSFP-400G-DR4
- AOC-D-D-400G
- 100GBASE-LR
- 100GBASE-XCWM4
- SFP-25G-MR-LR
- SFP-25G-MR-SR
- SFP-25G-MR-XSR
- SFP-25GR-LR
- SFP-25GR-SR
- SFP-25GR-XSR
- 200GBASE-CR4
- 200GBASE-SR4
- QSFP-200G-FR4
- 25GBASE-XSR
- 50GBASE-CR
- CAB-D-8S-400G
- CAB-O-8S-400G
- OSFP-400G-LR4
- OSFP-400G-PLR4
- OSFP-400G-PLR4-S
- OSFP-400G-ZR
- OSFP-AMP-ZR
- QDD-400G-LR4
- QDD-400G-PLR4
- QDD-400G-PLR4-S
- QDD-400G-ZR
- QSFP-200G-AR4
- OSFP-400G-ZRP
- QDD-400G-ZRP
- 10GBASE-ER
- 40GBASE-CR4

Picking compatible versions for MLAG ISSU Upgrade/Downgrade

Upgrading/downgrading using the MLAG ISSU procedure, from release EOS-A.B.C to release EOS-D.E.F can be done in one or multiple phases.

1. If A.B.C is a compatible EOS version for D.E.F (refer to the A.B.X or D.E.X release table) then you can directly do MLAG ISSU using the D.E.F version by following the MLAG ISSU procedure. (A.B.C -> D.E.F).
Example: The customer wants to upgrade from 4.12.10 to 4.15.4F. In the Release 4.15.X MLAG ISSU Table, the 4.15.4F version has 4.12.10 as a MLAG ISSU compatible version, so customer can directly do an MLAG ISSU upgrade from 4.12.10 to 4.15.4F.
2. If A.B.C doesn't exist in the list of compatible versions for D.E.F (refer to the A.B.X or D.E.X release table), then look for the A.B.Y version in D.E.F's ISSU compatible EOS versions, do MLAG ISSU upgrade/downgrade from A.B.C to A.B.Y and then do MLAG ISSU upgrade/downgrade to D.E.F by following MLAG ISSU procedure (A.B.C -> A.B.Y -> D.E.F). Here, Y can be greater than or less than C.
Example: The customer wants to upgrade from 4.14.1F to 4.15.4F. In Release 4.15.X MLAG ISSU Table 4.15.4F version has 4.14.9F as MLAG ISSU compatible version and Release 4.14.X MLAG ISSU Table 4.14.9F has 4.14.1F as MLAG ISSU compatible version, so customer can do MLAG ISSU upgrade from 4.14.1F to 4.14.9F and then to 4.15.4F.
3. Look for an D.E.Z version that's MLAG ISSU compatible with both A.B.C and D.E.F. Do MLAG ISSU upgrade/downgrade from A.B.C to D.E.Z and then do MLAG ISSU upgrade/downgrade to D.E.F (A.B.C -> D.E.Z -> D.E.F). Here Z can be greater than or less than F.
Example: The customer wants to upgrade from 4.14.7F to 4.15.4F. In Release 4.15.X MLAG ISSU Table 4.15.0F version has 4.14.7F as MLAG ISSU compatible version and 4.15.4F has 4.15.0F as MLAG ISSU compatible version, so customer can do MLAG ISSU upgrade from 4.14.7F to 4.15.0F and then to 4.15.4F.
4. Look for an G.H.I version that's MLAG ISSU compatible with both A.B.C and D.E.F. Do an MLAG ISSU upgrade/downgrade from A.B.C to G.H.I and then do Mlag ISSU upgrade/downgrade to D.E.F (A.B.C -> G.H.I -> D.E.F).
5. In a highly unlikely scenario, if any of the above procedures are not acceptable, MLAG ISSU can be achieved by picking multiple intermediate versions.

Release 4.20.X MLAG ISSU Table

EOS Version	Mlag ISSU compatible EOS versions
4.20.0F	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.16M, 4.15.10M, 4.15.3FX-7060X.2, 4.15.5FX-7500R, 4.16.6M-4.16.13M, 4.16.7-FXMLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.16.13FX-MLAGISSU-TWO-STEP, 4.16.9FX-7500R, 4.16.10FX-7060X, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1F-4.18.4F, 4.18.2-REV2-FX, 4.18.5M, 4.19.0F-4.19.2F
4.20.1F	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.16M, 4.15.10M, 4.15.3FX-7060X.2, 4.15.5FX-7500R, 4.16.6M-4.16.13M, 4.16.7-FXMLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.16.13FX-MLAGISSU-TWO-STEP, 4.16.9FX-7500R, 4.16.10FX-7060X, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1F-4.18.4F, 4.18.2-REV2-FX, 4.18.5M, 4.19.0F-4.19.2F
4.20.2F	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.16M, 4.15.10M, 4.15.3FX-7060X.2, 4.15.5FX-7500R, 4.16.6M-4.16.13M, 4.16.7-FXMLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.16.13FX-MLAGISSU-TWO-STEP, 4.16.9FX-7500R, 4.16.10FX-7060X, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1F-4.18.4F, 4.18.2-REV2-FX, 4.18.5M, 4.19.0F-4.19.2F
4.20.3F	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.16M, 4.15.10M, 4.15.3FX-7060X.2, 4.15.5FX-7500R, 4.16.6M-4.16.13M, 4.16.7-FXMLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.16.13FX-MLAGISSU-TWO-STEP, 4.16.9FX-7500R, 4.16.10FX-7060X, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1F-4.18.4F, 4.18.2-REV2-FX, 4.18.5M, 4.19.0F-4.19.2F

Release 4.19.X MLAG ISSU Table

EOS Version	Mlag ISSU compatible EOS versions
4.19.0F	4.16.6M-4.16.12M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1.1F, 4.18.2F, 4.18.2-REV2-FX.1, 4.18.3.1F
4.19.1F	4.16.6M-4.16.12M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F-4.18.4F
4.19.2F	4.16.6M-4.16.12M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1.1F, 4.18.2F, 4.18.2-REV2-FX.1, 4.18.3.1F, 4.19.0F-1F
4.19.3F	4.16.6M-4.16.12M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSUTWO-STEP, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1.1F, 4.18.2F, 4.18.2-REV2-FX.1, 4.18.3.1F, 4.19.0F-2F, 4.19.2.1F
4.19.4F	4.16.6M-4.16.12M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSUTWO-STEP, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1.1F, 4.18.2F, 4.18.2-REV2-FX.1, 4.18.3.1F, 4.19.0F-2F, 4.19.2.1F
4.19.5M	4.16.6M-4.16.12M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSUTWO-STEP, 4.17.0F-4.17.3F, 4.17.4M-4.17.7M, 4.18.0F, 4.18.1.1F, 4.18.2F, 4.18.2-REV2-FX.1, 4.18.3.1F, 4.19.0F-2F, 4.19.2.1F

Release 4.18.X MLAG ISSU Table

EOS Version	Mlag ISSU compatible EOS versions
4.18.0F	4.16.6M-4.16.9M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F
4.18.1F	4.16.6M-4.16.10M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M, 4.18.0F
4.18.1.1F	4.16.6M-4.16.10M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M, 4.18.0F, 4.18.1F
4.18.2F	4.16.6M-4.16.10M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M, 4.18.0F, 4.18.1F, 4.18.1.1F
4.18.3F	4.16.6M-4.16.10M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F, 4.17.4M, 4.18.0F, 4.18.1F, 4.18.1.1F 4.18.2F

Release 4.17.X MLAG ISSU Table

EOS Version	Mlag ISSU compatible EOS versions
4.17.0F	4.16.6M
4.17.1F	4.16.6M-4.16.7M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.17.0F
4.17.2F	4.16.6M-4.16.8M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.1F
4.17.3F	4.16.6M-4.16.9M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.2F
4.17.4M	4.16.6M-4.16.9M, 4.16.7FX-MLAGISSU-TWO-STEP, 4.16.8FX-MLAGISSU-TWO-STEP, 4.17.0F-4.17.3F

Release 4.16.X MLAG ISSU Table

EOS Version	Mlag ISSU compatible EOS versions
4.16.6M	4.16.7FX-MLAGISSU-TWO-STEP
4.16.7M	4.16.6M, 4.16.7FX-MLAGISSU-TWO-STEP
4.16.8M	4.16.6M-4.16.7M, 4.16.7FX-MLAGISSU-TWO-STEP - 4.16.8FX-MLAGISSU-TWO-STEP
4.16.9M	4.16.6M-4.16.8M, 4.16.7FX-MLAGISSU-TWO-STEP - 4.16.8FX-MLAGISSU-TWO-STEP
4.16.10M	4.16.6M-4.16.9M, 4.16.7FX-MLAGISSU-TWO-STEP - 4.16.8FX-MLAGISSU-TWO-STEP

EOS Version	Mlag ISSU compatible EOS versions
4.16.7FX- MLAGISSU-TWO- STEP	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.14M, 4.15.0F-4.15.4F, 4.15.5M-4.15.7M, 4.16.6M, 4.16.7M, 4.17.0F
4.16.8FX- MLAGISSU-TWO- STEP	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.15M, 4.15.0F-4.15.4F, 4.15.5M-4.15.8M, 4.16.6M-4.16.8M, 4.17.0F-4.17.1F

Release 4.15.X MLAG ISSU Table

EOS Version	Mlag ISSU compatible EOS versions
4.15.0F	4.9.11, 4.10.8.1, 4.11.11, 4.12.10, 4.13.12M, 4.14.7M
4.15.1F	4.9.11, 4.10.8.1, 4.11.11, 4.12.10, 4.13.12M, 4.14.7M, 4.15.0F
4.15.2F	4.9.11, 4.10.8.1, 4.11.11, 4.12.10, 4.13.12M, 4.14.9M, 4.15.0F-4.15.1F
4.15.3F	4.9.11, 4.10.8.1, 4.11.11, 4.12.10, 4.13.12M, 4.14.9M, 4.15.0F-4.15.2F
4.15.4F	4.9.11, 4.10.8.1, 4.11.11, 4.12.10, 4.13.12M, 4.14.9M, 4.15.0F-4.15.3F
4.15.5M	4.9.11, 4.10.8.1, 4.11.11, 4.12.10, 4.13.12M, 4.14.10M, 4.15.0F-4.15.4F
4.15.6M	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.15M, 4.14.12M, 4.15.0F-4.15.4F, 4.15.5M
4.15.7M	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.13M, 4.15.0F-4.15.4F, 4.15.5M-4.15.6M
4.15.8M	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.13M, 4.15.0F-4.15.4F, 4.15.5M-4.15.7M
4.15.9M	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.15M, 4.15.0F-4.15.4F, 4.15.5M-4.15.8M
4.15.10M	4.9.11, 4.10.8.1, 4.11.12, 4.12.11, 4.13.16M, 4.14.16M, 4.15.0F-4.15.4F, 4.15.5M-4.15.9M

Enhancements in 4.27.0F

BGP EVPN L2/L3 VXLAN/MPLS

- Added support for EVPN VPWS single-active multihoming. (485154)
- Added support for ARP Suppression for L2 EVPN MPLS. (525495)
Series Affected: 7500R3, DCS-7280CR3, DCS-7280DR3, DCS-7280PR3,
DCS-7280R3, DCS-7280SR3, DCS-7500R3 and DCS-7800R3 Series

- Added support for single-homing IRB testing for Layer 2 EVPN MPLS. (565764)
Series Affected: 7500R3, DCS-7280CR3, DCS-7280DR3, DCS-7280PR3, DCS-7280R3, DCS-7280SR3, DCS-7500R3 and DCS-7800R3 Series
- Support for hitless restart of the Bgp agent with EVPN VXLAN Type-5 (IP prefix) routes. (568151)
- Support for hitless restart of the Bgp agent with EVPN MPLS Type-5 (IP prefix) routes. (568154)

General

- Support for secondary IP addresses in IP-MIB::ipAddressTable. (66790)
- Support for gNMI dial-out via gRPC tunnel. (242758)
- NETCONF lock/ unlock operations now support acquiring/ releasing the configuration lock. (257859)
- EOS SWI image format version is changed from 01.00 to 02.00. Image format version 02.00 is compatible with all supported platforms. (414339)
- Added support for extended community immediate sets within RCF language (477967)
- Add "environment overheat action power-cycle" command and "recovery restricted" option to configure the switch behavior upon overheat (514507)
- Sampled flow tracking support to parse MPLS packets and export MPLS labels in IPFIX flow records. (524429)
- Add "show poe neighbor" command to display LLDP neighbor information for PoE ports (542182)
- Improve PTP performance on a BMCA switchover. (543368)
- Add "show system storage health smart [detail]" CLI commands and stream SMART data from SSDs to Sysdb. (548240)
- Add support for gNOI Reboot. gnoi.system.System/Reboot COLD, NSF, POWERUP and POWERDOWN system reboots are supported and the force keyword must be provided. COLD, POWERUP and POWERDOWN subcomponent reboots are supported and the message and force keywords cannot be provided. gnoi.system.System/RebootStatus is supported for system reboot statuses only. gnoi.system.System/CancelReboot is supported for system reboots only. Cannot provide a message to cancel requests. (567173)
- Added support to run DHCP Relay and IPv6 Address Locking in enforcement disabled mode concurrently. (585624)
- Added support for specifying IPv6 match rules in Postcard telemetry (595614)

- Sampled flow tracking support to export 802.1Q VLAN ID and 802.1Q customer VLAN ID in IPFIX flow records.
Support for the "show flow tracking sampled counters debug" and "clear flow tracking sampled counters debug" CLI commands. (601660)

Layer 2

- Support for using a specific RSVP tunnel for a LDP signaled Pseudowire by matching on color attribute. (538909)

Layer 3

- Support for OSPF interface statistics. (429509)
- Added OpenConfig support for IS-IS Multi Instance (441402)
- Added support for IS-IS FlexAlgo (457817)
- Added a CLI knob under "router isis" to control the CSNP transmission interval. (464602)
- Added support to detect GRE Tunnel recursion and report the loop status using syslog and status code in "Show interface tunnel" (569393)
- CSPF support for 2000 RSVP tunnels with bandwidth constraint. (569401)
- Administrative groups can be represented as names used as aliases mapped to numerical values using a new global configuration command under the TE mode. This configuration can be used in addition to the existing numerical format to specify administrative groups on traffic engineering interfaces and as a constraint for a dynamic path specification for RSVP LER headend tunnels. (574844)

Multi-agent

- Added support for steering traffic over RSVP tunnels for IS-IS prefixes in multi-agent routing mode. (429807)
- Add TI-LFA support in non-default IS-IS instance. (520752)
- Add support for multiply operator for MED and other numeric attributes to RCF. (539369)
- Support for setting MPLS VPN nexthops via inbound route-maps. (549610)
- Support for applying RCF on inbound and outbound labelled unicast routes. (555982)

- Add support for '[no|default] bgp missing-policy include community-list direction ...' command in both 'router-bgp' and 'router-bgp-af' configuration modes (563063)
- Support for setting MPLS VPN nexthops via route-maps during route import. (571534)
- Support for IS-IS IPv6 Segment Routing using IGP shortcuts (584289)

MLAG

- Added support for MLAG's local-interface to be in a VRF (79627)

MPLS

- Add support for enabling MPLS tunnel counters solely for RSVP LER tunnels (588893)

vEOS Router / CloudEOS

- Added support for configurable keepalive and feedback timer for ITS. (552320)

DCS-7170 Series

- "show forwarding destination" can be used in the 7170 platform with the default profile to figure out what is the egress interface of a packet. (609342)

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2, DCS-7500R3 and DCS-7800R3 Series

- Support for the simultaneous use of the ingress ACL and ingress QoS counter features. (390881)
- Support for the simultaneous use of the ingress ACL and ingress PBR counter features. (460315)
- Support for the simultaneous use of the ingress PBR and ingress QoS counter features. (497011)
- Enable Recirc Channels on Sand (560697)

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

- Added VLAN translation support (292661)
- Support for Egress IPv4/IPv6 RACL sharing to work with IPv4/IPv6 uRPF in Jericho2. (512656)

- Support for time stamping Key frames (552798)
- Enable TCP flag 'initial' and 'established' for CPU policy (579610)
- Added Support for Set DSCP action in Egress Aegis Traffic-Policy. (581807)
- Support for new actions for traffic policies to steering traffic to NextHop groups, adding identity tags, or removing Dot1Q headers while in Tap Aggregation mode (583961)

DCS-7800R3 Series

- Support for buffer health monitoring counters. (536100)

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

- This enhances the algorithm for dynamic policy resource sharing among multiple features in a TCAM profile. Support for TCAM profile subintf-acl-interface-policing-vlan-editing is enabled through this feature. (546939)
- Enable postcard telemetry support for IPv6 packets on Sand (562217)
- Support for Interface Policing counters feature on sub-interfaces. (564123)
- Support for Per Port Policer Packet Size Adjustment on front panel ports and LAG ports. (581669)

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

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

- Support for IPv6 unicast RPF. (474707)
- Support for configuration of Layer 2 EVPN MPLS multi-homing (488352)
- Support for configurable priority and bandwidth on the tx-queues of subinterfaces on J2 platforms. (513023)
- Support Nexthop-Group as tool destinations in Tap Aggregation service policies (549709)
- Support for TCP MSS Clamping in Hardware for IPv6 Traffic on physical Ports, SVI's and SubInterfaces. (569091)
- Support for configuration of L2 Protocol Forwarding on port-channels and port-channel subinterfaces (572873)
- Support for IPv4 source prefix matching in VRF selection policies. (593656)
- Support for the simultaneous use of the ingress interface traffic policy and ingress TAP aggregation counter features. (600564)

- Support for the simultaneous use of the ingress interface traffic policy and CPU traffic policy counter features. (600565)

7300X3, 7320X, 7368, CCS-720XP, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3, DCS-7300X and DCS-7300X3 Series

- Support for per-interface MAC address aging. (536222)

7368 and DCS-7060X4 Series

- Support for drop-precedence counters on subinterfaces. This can be combined with ACLs to count IPv4 and IPv6 packets. (372393)
- IPv4/IPv6 counters are now aggregated for port-channel interfaces. (563684)

DCS-7010TX Series

- Adding support of User-defined TCAM Profiles. (581696)
- Support for Hardware flow tracking (602209)

CCS-750 Series

- Support for Hardware flow tracking (532334)
- Symmetric IRB with IP VRF VNI support (Type 5 / VRF VNI Type-2 Routes) (534425)
- SSO support (540185)

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

- VRF-aware NAT is supported. (461558)
- VXLAN and static NAT can now be configured on the same switch (608769)

Resolved Caveats in 4.27.0F

BGP EVPN L2/L3 VXLAN/MPLS

- In an EVPN VXLAN deployment, If an EVPN MAC route advertisement is received when the advertiser is unreachable the MAC route will not be install and it will be remain un-installed when the advertiser become reachable.

A workaround is to un-configure and re-configure the MAC routes' VLAN to VNI mapping. (578329)

- When moving a VLAN from one VLAN-aware-bundle to another, MACs associated with the VLAN may fail to program if the VLAN was added to the new bundle before it was removed from the old bundle.

The workaround is to delete and re-add the VLAN, so the VLAN is added while it is not present on any other bundle. (594211)

- In an EVPN deployment, the VLAN flood list may be deleted when moving a VLAN from one VLAN aware bundle to another MAC-VRF.

The workaround to correct the flood list is to remove the VLAN from the MAC-VRF and then add it back. (603591)

- In an EVPN VXLAN All-Active Multihoming deployment, the ARP entry of a multi-homed host learned through MAC IP route advertisement can be lost. This issue does not apply to IPv6 neighbor entry for a multi-homed host. The issue does not apply to hosts connected via L2 only (no SVI for the VLAN).

A workaround is to clear the missing ARP entry on the multi-homed peer that learn it over the data plane and advertised the routes. (608813)

- When 'redundancy single-active' is configured in an EVPN MPLS network, designated forwarder election and traffic forwarding may flap.

This configuration is only supported with the VXLAN tunnel encapsulation type. (618504)

General

- OpenConfig mixed schema configuration request can fail if the CLI modes send are capable of accepting a "commit" CLI. A workaround is to add the "commit" as part of the request. (554372)
- PORT_ID allocation will fail on systems with more than 4095 interfaces. This includes peer interfaces in an MLAG configuration (593759)
- The OpenConfig agent crashes if a segmentation config gNMI request is sent containing an empty application-order list in the. (600767)
- Power Loss wrongly recorded as the reload cause on this platform instead of the correct reload cause. (604561)

SKUs Affected: DCS-7280CR3-32D4, DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3K-32D4, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4, DCS-7280CR3K-32P4-F, DCS-7280CR3K-32P4-R, DCS-7280CR3MK-32D4, DCS-7280CR3MK-32D4-F, DCS-7280CR3MK-32D4-R, DCS-7280CR3MK-32D4S, DCS-7280CR3MK-32D4S-F,

DCS-7280CR3MK-32D4S-R, DCS-7280CR3MK-32P4, DCS-7280CR3MK-32P4-F,
DCS-7280CR3MK-32P4-R, DCS-7280CR3MK-32P4S, DCS-7280CR3MK-32P4S-F and
DCS-7280CR3MK-32P4S-R

- eAPI may skip re-evaluating user credentials when certificate based authentication is used. (606686)

Layer 1

- On QSFP100 interfaces with the CRT50216 PHY connected to servers or optical line systems, links may occasionally flap.

At 100G interface speeds, workaround is to run the following CLI commands:\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x817a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x837a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x857a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x877a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x897a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x8b7a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x8d7a 0x118c\n
dut#hardware phy crt50216 [Ethernet interface] diag write 0x8f7a 0x118c
(611636)

SKUs Affected: 7368-16C, 7368-16S, 7500R3-36CQ-LC, 7500R3K-36CQ-LC,
7800R3-48CQ-LC, 7800R3-48CQ2-LC, 7800R3K-48CQ-LC, DCS-7280CR3-32D4,
DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R,
DCS-7280CR3-32D4-R, DCS-7280CR3-32P4, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F,
DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3-96,
DCS-7280CR3-96-F, DCS-7280CR3K-32D4, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R,
DCS-7280CR3K-32P4, DCS-7280CR3K-32P4-F, DCS-7280CR3K-32P4-R,
DCS-7280CR3K-96 and DCS-7280CR3K-96-F

Layer 2

- In a VXLAN routing environment using EVPN IRB, when there is a mix of L2 AND L3 VLANs, the ARP and IPv6 ND forwarding traffic can overload the CPU resulting in dropped ARP/ND packets.

As a workaround, the following configuration adds an ARP/ND proxy deny rule for the default route and reduces the CPU overload, preventing ARP/ND packet drops.

```
!  
router 12-vpn  
  arp proxy prefix-list disable-default-route-v4  
  nd proxy prefix-list disable-default-route-v6  
!  
ip prefix-list disable-default-route-v4  
  seq 10 deny 0.0.0.0/0
```

```
!  
ipv6 prefix-list disable-default-route-v6  
  seq 10 deny ::0/0  
!
```

The above config disables proxy reply for all ARP/ND hosts, and all ARP/ND traffic is forwarded in hardware. The remaining EVPN IRB features (other than proxy reply) continue to function as before. (599556)

Layer 3

- New NAT dynamic profiles might lead to undefined behavior upon reload. (521178)
 SKUs Affected: DCS-7050SX3-96YC8, DCS-7050SX3-96YC8-F and DCS-7050SX3-96YC8-R
- On scale setup, with certain network events that cause massive route updates, ARP agent's internal state may go out of sync, leading to the ARP agent repeatedly deleting and adding the same entry to the kernel. This may cause the CPU usage to spike to 100% usage.

Workaround is to restart the ARP agent. (532708)

- Forwarding L3 agent may restart when a new resilient FEC exceeds the platform max ECMP size. (585765)
- With BFD VXLAN configured, BFD agent restart after a first supervisor failover may result in continuous BFD agent restart.

There is no workaround once the restart loop starts. Performing another supervisor failover before restarting the BFD agent will avoid the restart loop. (586673)

- The OSPF agent may restart when sending a graceful restart LSA on an interface with SHA authentication configured. (593659)
- Resilient ECMP FECs that get expanded may cause the L3 forwarding agent to restart. (602069)
- Isis agent may restart when it receives LSP from any node that advertises SRLG on an unnumbered interface (605131)
- OSPFv3 fails to install routes from intra-area-prefix(NAP) LSAs if the referenced LS ID in the NAP LSA does not match the Link State ID of the RTR LSA (605376)
- When both IS-IS multi-instance and LDP tunneling is configured, IS-IS agent may restart after the last RSVP tunnel becomes ineligible for LDP tunneling

either because of removing the configuration or the tunnel going down.
(606510)

- ARP requests for NAT pool addresses might fail due to incorrect initialisation.
As a workaround restart NAT agent to recover from the issue. (610947)
- L3 Forwarding agent may restart un-expectedly when egress tunnel counters are enabled and tunnel programming is churning constantly. (615221)

Multi-agent

- In multi-agent mode, when displaying the results of "show ip bgp detail" the output may be corrupted by showing content previously output by the currently running command in place of new content (607255)

Rib

- When the Tunnel agent goes down, stale entries in the tunnel RIB may not be cleaned up upon restart of the agent. (586928)

MPLS

- If RSVP tunnels with include-hop and bandwidth requirements are configured, Cspf agent can restart unexpectedly. (601430)

Multicast

- On devices connected to multicast receivers that are part of a MLAG pair, restart of IgmpSnooping/Mlag agent may result to more IgmpSnooping restarts. This state has no impact on forwarding behavior of the box.

Workarounds: Reload the device (574602)

- The PimBidirDf agent could continuously send DF winners when multiple RPs are configured and one RP is deleted. This may cause high CPU in the PimBidirDf agent. Workaround is to restart the PimBidirDf agent. (603791)
- Periodic PIM assert messages might be sent continuously when the number of winner asserts per interval takes more than 0.1 seconds. There is no workaround. (613310)

SwitchApp

- SwitchApp does not support IGMP Filters
There is no workaround (587435)

- PVST is not supported when running SwitchApp on 7130 platforms. There is no workaround at this time. PVST will be supported in subsequent releases. (597137)

CCS-720XP and CCS-750 Series

- Some front panel BASE-T interfaces might fail to forward traffic after a reload or linecard insertion (for modular systems), if they are configured with ``speed 100full`` command. The issue only affects the following 2.5GBASE-T interfaces:

Et1, Et6, Et9, Et14, Et17, Et22, Et25, Et30, Et33, Et38, Et41, Et46, Et49, Et54, Et57, Et62, Et65, Et70,

Workaround is to run ``shutdown`` followed by ``no shutdown`` on the affected interfaces. (519774)

SKUs Affected: CCS-720XP-24ZY4, CCS-720XP-48ZC2 and CCS-720XP-96ZC2

7368, CCS-750, DCS-7300X, DCS-7500R, DCS-7800 and DCS-7800R3 Series

- During SSO, a fabric card's forwarding agent may experience an additional unexpected restart. In such cases, the forwarding agent will emit a "STRATA-3-RXDMASTUCKERROR" syslog message. A brief traffic outage may be observed. (572329)

Series Affected: DCS-7300X Series

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2, DCS-7500R3 and DCS-7800R3 Series

- 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

- When a shape rate is configured on a subinterface, restarting the Sand agent may cause the Sand agent to unexpectedly restart continuously.

A workaround is to reload the system. (593144)

- With VXLAN underlay multicast configuration, SandL3Unicast agent may restart unexpectedly, causing some traffic loss.

Post restart, the SandL3Unicast agent recovers. (600045)

- In an EVPN MPLS configuration, changing the membership of an interface from port-channel A to port-channel B might result in incorrect forwarding to/from pre-existing members of channel group B.

The workaround is to unconfigure the pre-existing members from being part of the port-channel and then configure them again. (610316)

- While in Tap Aggregation mode, traffic forwarding may be disrupted on two-way (tap-tool) ports following a stateful switchover or a Mirroring agent restart. (614967)

DCS-7280R and DCS-7500R Series

- The 'vlan-edit-extended64' TCAM profile feature is incompatible with L2 subinterfaces. Packets with destinations that hit in the MAC table and where the destination is attached on an L2 subinterface may be misforwarded or have incorrect VLAN tags.

As a workaround to fix these L2 subinterface forwarding issues, remove the 'vlan-edit-extended64' feature from the TCAM profile. (554046)

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

- On a device with VXLAN configured, a large number of split horizon drops may result in some packets being discarded on neighboring devices due to CRC errors (574067)
- With vrf selection policy configuration applied on interfaces in a linecard, SandTunnel can unexpectedly restart if the corresponding linecard is removed. (602854)
- Enabling hardware offload for sampled flow tracking and configuring a flow tracker on an Ethernet interface may result in ingress TCAM features like ACL, PBR, QoS policy etc configured on the interface to stop working.

Workaround is to use a static port channel with a single member interface instead of the Ethernet interface. (603344)

- Packets received from a VXLAN tunnel in a VLAN with MAC learning disabled will be dropped. (605820)

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

- When operating in egress replication mode, some ports might incorrectly not be included in the set of multicast or flood domain egress ports. The workaround is to not use front panel ports with a 'FapPort' greater than 125, according to "show platform fap mapping". (608029)

DCS-7800R3 Series

- If a 256b SAK is used in a MACsec session, all packets associated with the session are dropped until the first rekey completes. (592240)

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

- In an EVPN MPLS multihoming setup, in a scenario with high ethernet segment scale, a change in connectivity status in one of the CE-PE links may cause extended packet loss while all ethernet segment and MAC-IP routes reconverge. (585540)
- SandAcl agent may restart when programming flows at many different priorities. Workaround is to limit the number of different priorities to 1024. (588420)
- With a port without any explicit speed configuration, many removals and insertions of a 1G transceiver in an SFP+ or SFP25 port, or of a 40G transceiver in a QSFP100 port, may cause the forwarding agent to restart and all links to flap.

The workaround is to apply a speed configuration on the port matching the supported speed of the inserted transceiver. (600618)

- With MLAG fast MAC redirection enabled, if one of the LAGs in the MLAG is down then a packet whose DA is either the broadcast MAC or the MAC is unknown, the packet may be double delivered or loop continuously.

The workaround is to disable the MLAG fast MAC redirection feature in "config-mlag" mode:
inactive mac-address destination peer-link direct (605211)

- Postcard telemetry doesn't work on single member LAG interfaces on SandGen3 chips if 'platform sand lag hardware-only' is disabled.

Workaround : configure 'platform sand lag hardware-only' and disable and re-enable postcard feature globally. (610419)

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

- In scaled traffic-policy scenarios, when using more than half the tcam capacity on the same FAP, adding, deleting or modifying a traffic-policy can time-out and cause a CPU spike for an extended period of time (like 3-4 minutes).

The workaround for this problem in case it does not recover on its own is to restart SandAegis agent. (577206)

- If a given traffic policy simultaneously applied on both ingress and egress interfaces is unconfigured from either the ingress or egress interface, traffic policy will stop working the remaining applied interfaces. The

workaround is to reapply the traffic policy on the interfaces where traffic policy stopped working. (604080)

- When a linecard that has ports in the PFC watchdog stuck state is removed and added back, agent SandTm may restart. (611837)
- When hardware offload for sampled flow tracking is active on port-channel A, changing the membership of an interface from another port-channel B to port-channel A may result in incorrect flow tracking on port-channel A.

The workaround is to unconfigure all the pre-existing members from being part of the port channel and then configure them again. (611966)

- High congestion on a port during SSO switchover can cause continuous IptCrcErrCnt, EgrReplUcDrop and RqpDiscardPacketCtr drops after switchover. (618445)

7300X3, 7320X, 7368, CCS-720XP, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3, DCS-7300X and DCS-7300X3 Series

- Strata forwarding agent may continuously restart when a PBR policy with an access list "permit vxlan" is applied on an interface. The workaround is to remove "permit vxlan" rule from the matching criteria. (576286)
- Duplicate DHCP TCAM rules may not hit for some of front panel ports. There is no workaround for issue. (597383)
- Mirroring was disabled in cut-through mode. Workaround is to use store-and-forward mode. (598007)
Series Affected: 7320X, DCS-7060X, DCS-7060X2, DCS-7260X and DCS-7260X3 Series

- Profile change can hang after reload, this can result in NAT entries not getting reprogrammed (601409)

Series Affected: CCS-720XP and DCS-7050X3 Series

- Leaf-SSU is not supported on configurations with 2.5G or 5G interface speeds. If Leaf-SSU is performed, interfaces running at 2.5G or 5G speeds may start to transmit packets with FCS errors. The workaround is to configure "shutdown" followed by "no shutdown" on affected interfaces after the Leaf-SSU is performed. (605281)

Series Affected: DCS-7050TX3 Series

- In EVPN VXLAN setup with multicast routing enabled, ARP broadcast request and IPV6 neighbour solicitation packets may flood additional copies in the VLAN including a copy out the original source interface. (611692)

Series Affected: CCS-720XP, CCS-750, DCS-7010TX, DCS-7050CX3, DCS-7050QX2, DCS-7050SX3 and DCS-7050TX3 Series

- Changing the membership of an interface from port-channel A to port-channel B might result in no control-plane forwarding to/from pre-existing members of channel group B during stateful switchover. (611967)

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

- Routing of certain IPv6 prefixes may not work correctly when systems has one or more set of routes having following bit patterns. 1) Upper 96 bits are same and 2) Bits 65 to 96 has non-zero value. (614629)

Series Affected: 7368, DCS-7060DX4 and DCS-7060PX4 Series

CCS-750 Series

- The 'ip virtual-router mac-address' may occasionally be set incorrectly on a linecard forwarding plane agent initialization. The workaround is to toggle the 'ip virtual-router mac-address' command once more. (569373)
- For routed control plane traffic, the default port traffic class may be assigned incorrectly always to 1. The workaround is to run "platform trident reset <slice>" where slice is the primary Switchcard. (597126)

Series Affected: CCS-750 Series

7368 and DCS-7060X4 Series

- Issuing "show platform trident l3 shadow routes lpm" with large scale of routes may result in unexpected restart of StrataL3 forwarding agent. (523797)
- Enabling PTP globally alongside traffic shapers or storm control configuration will result in shaper rates being halved. (578555)
- Grpc buffer-usage counters are not supported on Tomahawk3 platforms, and can cause forwarding agent crashes if configured (593626)

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

- With RACL configured in the system, hitless upgrade from 4.15 release to 4.17.0F or 4.17.1F can be hitfull (169886)

CCS-750 Series

- The next hop table scale is only 64K instead of 128K. (443722)
- Enabling ECN counters are not supported and could lead to forwarding agent restart.

The workaround is to remove the ECN counter configuration. (588388)

- VXLAN encapsulated ARP packets may not be decapsulated.
Workaround is to have the hosts use static ARP entries. (589572)
- Removing a line card with ECN configuration on the device may cause the forwarding agent to unexpectedly restart. (597081)
- With IGMP Snooping enabled, unknown multicast data traffic may be dropped permanently post a switchcard switchover. The workaround is to restart the StrataL3 agent. (599234)

Transceiver Series

- Removing a transceiver within approximately 3 seconds of inserting the same transceiver from a QSFP200, QSFP-DD or OSFP transceiver slot may cause XcvrAgent to unexpectedly restart. (569999)

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

- NAT is not supported with non-default VRF. Configuring NAT over non-default VRF might cause Nat agent to restart continuously.

Workaround is to remove the unsupported configuration. (499723)

- Egress ACL rules can not be used to match ip protocol 50. (535104)
- ACLs can't be applied on egress destination multicast NAT rules. (598628)
- Sometimes multicast NAT translation may not work after reboot if non-default multicast translation modes ("platform trident nat translation multicast") are saved in the startup config.

Workaround is to restart the StrataNat forwarding agent. (601449)

- If there are multiple mroutes and the twice NAT rules apply to only a subset of the mroutes, the traffic may not get forwarded over the correct set of outgoing interfaces.

Workaround is to keep only the mroutes that have the same outgoing interface set as the mroutes with the twice NAT rules. (605089)

Known Software Caveats in 4.27.0F

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)
- During SSU, IPv6 ND packets may see an additional outage window that is longer than 60 seconds on the coming up path when upgrading to this release. (618795)
- During Leaf-SSU, interfaces configured with auto-negotiation may flap. This will lead to a brief traffic disruption on the affected interfaces. (619772)
Series Affected: DCS-7050CX3, DCS-7050SX3 and DCS-7260CX3 Series

BGP EVPN L2/L3 VXLAN/MPLS

- A policy change (such as changing the color extended communities) which causes an L2 EVPN MAC-IP or IMET route to resolve over a different SR-TE policy or tunnel may cause a brief traffic loss. (521090)
- 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)
- Some MAC addresses may get blacklisted when the BGP agent is restarted on a multihomed peer. The workaround is to clear the blacklist using the "clear bgp evpn host-flap" command. (538177)
- In a EVPN MLAG IRB deployment, reloading the the MLAG primary may trigger the lost of some dynamic VLAN allocated for certain VRF to VNI mappings on the secondary.

The workaround is to restart the VXLAN agent. (548097)

- In an EVPN multi-homing deployment, designated forwarder election for a given Ethernet segment and EVPN instance pair is based on the complete set of VLANs within the EVPN instance. This differs from the standard in which only the instance VLANs that are in the Ethernet segment interface's allowed VLAN list are used in the election algorithm. This deviation may cause interoperability issues with other vendors.

As a workaround, a single VLAN-aware bundle EVPN instance may need to be split into multiple instances, such that for every instance and Ethernet

segment either every instance VLAN is in the Ethernet segment interface's allowed VLAN list, or none are. (583126)

- In an EVPN multi-homing deployment, with multiple interfaces in an Ethernet Segment and a large number of allowed VLANs, the BGP agent may unexpectedly due to a configuration change. The configuration changes that can trigger the restart include but are not limited to 1) updates to the Ethernet Segment Identifier; 2) administratively shutting down or enabling a member interface.

As a workaround, if a port has a large number of allowed VLANs its configuration should be updated separate from that of other ports. (609100)

- In an EVPN VXLAN deployment with multi-homed peers in single-active mode, the designated forwarder of an Ethernet segment will not forward VXLAN encapsulated packets originating from the segment's non-designated forwarder to a single-active port, traffic will be correctly forwarded to orphaned or all-active ports. (629099)
- In an EVPN VXLAN All-Active Multihoming (MH) deployment, pings between any overlay physical IPs configured on local SVIs on the MH peers will fail to resolve the ARP entry for the overlay physical IPs and therefore fail.

The workaround is to configure static ARP entries for the overlay SVI physical IP addresses on the relevant MH peers. (639721)

Containerized EOS

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

vEOS Router / CloudEOS

- When an IPsec connection is established with a primary IP address of an interface and a secondary IP address is configured on an interface and that secondary IP address is used to establish an IPsec connection, the IPsec connection with the secondary IP address doesn't come up.
The workaround is to restart the IPsec agent. (572808)
- hot-add of an interface into the AWS instance running CloudEOS image causes SFE agent to restart unexpectedly. (617390)
- When SFE agent restarts or device reboots, some DPS paths may incorrectly set the loss rate to 50%. This will impact the load balancing of traffic by not utilizing the paths with 50% loss rate to their real capacity. The same issue may also be seen in the scenario where traffic is stopped while there is already significant amount of traffic loss over DPS paths. Auto correction of this issue may take a while to recover the loss rate back to 0 or normal value.

It can be worked around by flapping the corresponding WAN interfaces on the DPS peers of the problematic paths. (618258)

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)

- 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)
- When the Policy Control Service is enabled on CVX, under certain circumstances such as re-numbering IP on a host connected to a tagged port, the groups received from NSX controller may not be resolved into IP addresses. This may result in incorrect programming of ACLs on the switches.

Workaround is to disable and re-enable 'service pcs' on CVX. (538537)

- In a VXLAN routing deployment using VCS to distribute MAC and ARP bindings with MSS enabled, if there is an application using a virtual IP address whereby the MAC address bound to the virtual IP address changes as it migrates to behind a different VTEP, then the VTEP may fail to update the ARP entry for the virtual IP to the newer MAC address.

The workaround is to either disable MSS during the migration, or clear the ARP entries for the virtual IP on the VTEPs prior to migrating the virtual IP. (624581)

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)

- 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-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-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-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)
```

- 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)
- 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 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-7280R, DCS-7280R2, 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)
- 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)
- When an OpenConfig NETCONF client is used to add new classes to policy map, the new classes are added before any previous classes. (451025)
- In rare conditions, the kernel may panic with the message containing "BUG at ../mm/slab.c:3334" (476225)
- On system reload, the kernel may crash with the "PANIC: double fault" message. (493516)
- Management interfaces may flap with kernel message "transmit timed out, resetting" and should come back up automatically. On rare occasions an interface will remain down after such flap until the interface PCI device is reset or the system reloaded. (500322)
- Modular switch may restart in case of Fabric or Linecard failure. (554503)

- Radsec does not honour CRLs configured in the corresponding SSL profiles while establishing TLS connections with servers. (557935)
- Source interface configuration in connectivity monitor is only supported for physical interfaces. (564121)
- Local (admin) user is allowed to login with empty password when RADIUS over TLS is enabled (569426)
- In an EVPN VXLAN IRB deployment, administratively shutting down and reenabling a VLAN interface for a MAC-VRF where ARP entries are learned can restart the VxlanSwFwd agent. (605463)
- A gNMI subscriber may not receive all delete messages to an eos_native / Smash path that has had all its elements deleted.

The workaround is for the gNMI subscriber to resynchronize by starting a new Subscribe. (609497)

- Raw class-map based PBR policy updates via EosSdk will be hitful (610831)
- A gNMI subscriber may cause Octa to restart unexpectedly if it cancels its subscription shortly after sending a SubscribeRequest. (612780)
- Configuring an ACL on a VLAN interface may lead to a leafref integrity violation in the OpenConfig YANG tree precluding any successful SET operation on the YANG data.
A workaround is to remove the ACL on the VLAN interface. (614069)
- OpenConfig agent can unexpectedly restart when subject to a high scale of subscriptions and system updates. (615715)
- "reload peer" configured with a delay such as "reload peer in 1 force" results in both supervisors being reloaded after the specified delay. (621572)
- A constant very high rate of events triggering an event handler can cause memory buildup leading to an out-of-memory situation in the system

Workaround: use the "repeat" event-handler configuration command to limit the rate of event trigger (624314)

- When a port is PTP enabled and `ptp vlan` is configured, a configure replace or configure session operation that results in no modification to the PTP configuration may cause PTP churn on the first instance.

A workaround would be to perform a configure replace with the exact same running configuration to induce PTP churn on the affected port once after performing any of the following:

- Reloading the switch.

- Configuring additional allowed switchport VLANs (e.g. `switchport trunk allowed vlan`) on a PTP port with `ptp vlan` configured.
- Configuring new VLANs to be used with `ptp vlan`. (625345)
- Under periods of high system churn, Octa or OpenConfig agents may restart with a broken pipe panic. The Sysdb agent log will contain a message "Closing connection to Octa ... (AttrLog buffer is full)". The agent should recover when the churn subsides. (627426)
- When there are static tunnel interfaces with an underlay VRF configuration present and the underlay VRF instance configuration is changed, it may lead to the static tunnel interfaces to go down unexpectedly.

Restart the TunnelIntf agent to bring the static tunnel interfaces up. (627464)

- When "address locking" is configured for IPv4 and "address locking ipv6 enforcement disabled" is also configured, the IpLocking agent may start up while DHCP server or DHCP snooping is active. IP locking for IPv4 is not supported with DHCP server or DHCP snooping and should never be configured with either. (628545)
- If ingress sFlow is applied to a mirroring source port which is also used as a nexthop interface for a GRE tunnel used as a destination in any mirror session, then ingress sFlow on that port could stop working.

A workaround is to disable and then re-enable sFlow on that port; An alternative is to remove the port as a source from its monitor session and then add it back. (629718)

Series Affected: 7500R3, DCS-7020, DCS-7280CR2, DCS-7280CR3, DCS-7280DR3, DCS-7280PR3, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7280SR, DCS-7280SR2, DCS-7280SR3, DCS-7280TR, DCS-7500R, DCS-7500R2, DCS-7500R3 and DCS-7800R3 Series

- SuperServer can continuously keep restarting if a secure container-manager docker registry is configured but docker SWIX is not installed. This can only happen when EOS is upgraded. The workaround is to remove any container-manager secure registry configuration from startup-config before upgrading, install the docker SWIX and redo the configuration. (632800)
- SuperServer agent can restart if docker SWIX is not installed and container-manager configuration is present. The workaround is to install the SWIX before performing container-manager configuration. Make sure the container-manager configuration is removed from startup-config when upgrading. (632826)

Layer 1

- The forwarding agent may unexpectedly restart after a sequence of speed changes involving speeds of 10G, 25G, 40G, 50G and 100G. (358317)
Series Affected: DCS-7060X, DCS-7060X2, DCS-7260CX, DCS-7260QX, DCS-7260X and DCS-7260X3 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
- 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
- Changing interface speed from forced to auto-negotiated or vice versa may cause the forwarding agent to restart and all interfaces to flap. (532747)
Series Affected: DCS-7060X4 Series
- Changing interface speed from forced to auto-negotiated or vice versa may cause the forwarding agent to restart and all interfaces to flap. (532755)
Series Affected: DCS-7060X4 Series
- A rapidly flapping BASE-T interface with a default speed configuration may cause the forwarding agent to restart. This will cause multiple interfaces to briefly flap and a traffic outage to occur. The workaround is to configure a non-default speed on the affected interface or resolve the cause of flaps. (535720)
Series Affected: DCS-7050TX3 Series
- In certain cases like removing the MACsec profile on the key-server, LLPN Exhaustion mechanism is circumvented, causing the Evora agent to restart when rekeying an interface with the maximum transmit PN. (625438)
SKUs Affected: 7500R-8CFPX-LC, 7500RM-36CQ-LC, DCS-7050CX3M-32S, DCS-7050CX3M-32S-F and DCS-7050CX3M-32S-R
- In certain cases like removing the MACsec profile on the key-server, LLPN Exhaustion mechanism is circumvented, causing the B52 agent to restart when rekeying an interface with the maximum transmit PN. (626192)
SKUs Affected: 7800R3-48CQM2-LC, 7800R3K-36DM-LC, DCS-7280CR3MK-32P4, DCS-7280CR3MK-32P4-F, DCS-7280CR3MK-32P4-R, DCS-7280CR3MK-32P4S, DCS-7280CR3MK-32P4S-F and DCS-7280CR3MK-32P4S-R

- On 100G ports with the CRT50216 PHY, large changes in the recovered clock from the received signal without an associated loss of signal may result in the port remaining link down. This most commonly occurs with the port connected to line system equipment that has not been configured to forward faults. (626446)

SKUs Affected: 7368-16C, 7500R3-36CQ-LC, 7500R3K-36CQ-LC, 7800R3-48CQ-LC, 7800R3-48CQ2-LC, 7800R3K-48CQ-LC, DCS-7280CR3-32D4, DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3-96, DCS-7280CR3-96-F, DCS-7280CR3K-32D4, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4, DCS-7280CR3K-32P4-F, DCS-7280CR3K-32P4-R, DCS-7280CR3K-96 and DCS-7280CR3K-96-F

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)
- 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 an SSO switchover on an MLAG primary peer running Multiple Spanning Tree Protocol 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 setup using either data plane learning and/or CVX, when anycast gateway is configured with a IPv6 address, then there may be multiple responses to the Network Solicitation for the anycast gateway IP address send from a host. The number of responses will be proportional to the number of anycast gateways in the flooding domain for the VLAN. (609827)
- In a MLAG VXLAN deployment with anycast gateways, ARP synchronization between the MLAG peers may result in packet drops in the CoPP "copp-system-selfip" queue and adversely affect any application traffic over that queue. (616951)
- The "mac address-table flushing interface vlan aggregation disabled" command does not persist after device reload.

After reload, use "no mac address-table flushing interface vlan aggregation disabled" followed by "mac address-table flushing interface vlan aggregation disabled" to disable aggregation. (640490)

Layer 3

- If a loopback interface is only configured with a link-local IPv6 address, OSPFv3 will not advertise the address. (131369)
- 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)
- BFD configurations with large numbers of sessions may see BFD session flaps during initial session bringup shortly after boot. (375773)
- 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 unexpectedly restart. (414702)
- 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)
- 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)

- 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)
- DHCP relay agent might exit unexpectedly if several VRFs are continuously deleted and re-created. (471169)
- 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)
- 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)
- For short-lived TCP connections, NAT may not tear down the address mapping when it should. The workaround is to lower the TCP timeout using the `ip nat translation tcp-timeout` CLI. (526152)
- 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)
- KernelFib agent may restart on interface flap, if there are a large number of route resolving through that interface (539757)
- KernelFib agent may restart, if EVPN config is toggled in quick succession. (557358)

- RSVP tunnels might not get established or may use non-best paths when IS-IS system ID or OSPF router ID of any two neighbouring nodes in the IGP network is changed back-to-back and the best path goes via that node. (572080)
- If a route received from a BGP peer is leaked from one VRF to another using VrfLeak agent (<https://eos.arista.com/eos-4-22-1f/eos-vrfleak-agent/>) and the leaked route in the target VRF is again leaked to another VRF using route-target import/export configuration in BGP (<https://eos.arista.com/eos-4-21-3f/inter-vrf-local-route-leaking/>), the Bgp agent can restart unexpectedly.

As a workaround, use these mechanism to leak distinct set of routes. If a route has to be leaked across multiple VRFs, use either VrfLeak agent or route-target import/export configuration for leaking the route to all the target VRFs. (577257)

- Rib agent or the multiagents (Isis/Ospf) can restart with a large prefix-list configuration (578037)
- KernelFib agent may restart when interface flaps lead to a large number of routes (entire routing table) being withdrawn (597557)
- When at least one RSVP tunnel is configured with 'igp shortcut' and that tunnel's endpoint is reachable in a non-zero IS-IS instance, IGP Shortcut will erroneously activate in that instance, potentially interfering with IS-IS routes in the FIB.
To avoid this either do not configure any tunnels with 'igp shortcut' (i.e. shortcut is not in use in the zero instance) or ensure that the endpoints are only reachable in the zero instance (i.e. do not add the interface with the endpoint to other instances). (601989)
- The VxlanSwFwd agent may crash when processing a DAD packet from a host that is destined to a virtual link local address. (602176)
- In setups with large number of ARP or ND entries in the same subnet, upon a more specific route in that subnet getting removed, the Arp agent may reevaluate all of the ARP or ND entries in that subnet, resulting in high CPU usage in the platform agent.

Workaround is to split up large connected routes by adding more specific static interface routes to make the subnet that the ARP/ND entries fall under smaller. (606649)

- When auto-cost reference-bandwidth is configured in OSPF and OSPF receives a speed change event with bandwidth value 0 for a port channel interface, OSPF may set the cost of the interface to the default cost (10). This could result in traffic loss since routes may be installed to the port channel that has no bandwidth. (606650)

- Performing ASU while dynamic NAT connections are present might cause the NAT agent to restart continuously.

In order to avoid that, dynamic NAT connections should be terminated before performing ASU. (610326)

- When there are least two IS-IS adjacencies between the routers and two or more adjacencies have the same associated SRLG value configured. IS-IS agent may restart on one or more nodes when one of the adjacency goes down. (617367)
- Cspf agent may restart unexpectedly if traffic-engineering is disabled on a LAN interface. (619797)
- When there are static tunnel interfaces with an underlay VRF configuration present and a change is made to an underlay VRF configuration of any static tunnel interface, it may lead to traffic forwarding over the static tunnel interfaces to stop unexpectedly.

Restart the TunnelIntf agent to correct traffic forwarding over the static tunnel interfaces. (628103)

- Rib/IS-IS agent may restart after a link flap if IS-IS adjacency is formed over a GRE tunnel and the tunnel is reachable via both IS-IS Level-1 and Level-2 reachabilities (635006)

IPSEC

- Under some circumstances IPsec rekey time may show up as 'N/A'. (561575)

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 switchover in a switch with a large number of VRFs configured, with BGP config in all VRFs and IGP configured in a large number of VRFs, may cause the system to restart unexpectedly, leading to traffic loss. (376773)
- 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)
- SSO on ASBR with MPLS L3 VPN Inter-AS Option B configured may result in temporary traffic loss due to some VPN labels being reallocated (498848)
- SSO with MPLS L3 VPN configured may result in temporary loss of traffic flowing from MPLS core towards the tenant sites (507353)

- TLS transport is not supported for Routinator cache server. When using TLS transport, some of the PDUs may not be processed in the right manner causing the configured cache to remain in the 'syncing' state. (591353)
- Deleting one access-list type [IP, IPv6, MAC] and subsequently modifying another access-list type of the same name can cause the BGP agent to restart unexpectedly (617834)
- When Class Based Forwarding (CBF) using SR-TE policies is enabled, deactivation of an SR-TE policy that has been used for CBF may cause the IpRib agent to create unneeded drop FECs. This problem can eventually result in memory exhaustion which causes the IpRib agent to restart. (620077)
- If ROAs are withdrawn immediately after origin validation is enabled in BGP, the BGP agent may restart unexpectedly. (621239)
- When aggregate-address configuration exists and existing route in routing table is updated and quickly deleted before its potential contributor status towards an aggregate route is evaluated, the withdrawal of previous advertisement for this route may not be generated. (627615)
- A switch configured with BGP UCMP may fail to advertise a route that rapidly flaps. (627616)
- If an 'ip access-list' and an 'ipv6 access-list' are configured using the same name, the Bgp agent may restart unexpectedly. (629309)
- BGP agent may spin continuously whenever we have routes with NLRI types that are unsupported in BGP show commands and sFlow enables BGP route export. (636717)
- If BGP VPN export is configured with a policy that denies all paths, the cost of evaluating the export policy is high, leading to high CPU usage. (636955)

Rib

- 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 (standard, extended, large communities etc.) are included in the outbound route advertisements. (384629)

- The Rib agent may restart when large number of interfaces go down at the same time and there is a large scale of BGP routes reachable over these interfaces. (549816)
- RIB agent leaks memory when the color extended community or NextHop attribute changes. With a high scale of BGP routes with color extended community, even without SRTE configured, the RIB agent may restart due to the leak which leads to running out of memory. (615108)

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)
- 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)
- When running in multi-VTEP MLAG mode with BFD for VXLAN sessions, the forwarding plane agent may restart upon the removal of BFD configuration on the secondary MLAG peer. As a workaround, administratively set the BFD sessions down on the primary MLAG peer before modifying the configuration on the secondary MLAG peer. (610906)
- When the MLAG local interface is configured in a non-default VRF, an SSO switchover will result in MLAG becoming stuck in 'inactive' state.

Workaround: restart the MLAG agent via 'agent Mlag terminate' (620162)

MPLS

- If RSVP FRR is configured with local reversion at the LER, an LSP that originates from the LER and has failed over at the LER may go down and become inoperational.
Use global reversion at the LER. (602609)
- Upon reload of the switch, neighbors may reject Rsvp messages with "invalid sequence number" if Rsvp message authentication is enabled and the clock had not synced (e.g. via NTP) when the Rsvp agent started.

A workaround is to restart the Rsvp agent once the system clock has synced, for example with "shutdown" + "no shutdown" of the RSVP feature. (614022)

- Modifying the BSID of an SR-TE policy can result in the new BSID route for the policy being unprogrammed. As a workaround, remove and re-apply the policy after a brief delay to have it properly programmed. (615033)
- When RSVP FRR is triggered at the last hop of an LSP, the egress node may unexpectedly send a ResvTear message upstream which could cause the LER to take down the LSP (637696)

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)
- 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)
- In an environment with a very large number of MSDP peers, during cleanup the MSDP Agent may unexpectedly restart. (418190)
- High CPU utilization might be observed for the forwarding agent when PIM Bidir routes are present. (479119)
- Removing router pim bsr also remove router pim sparse mode configuration. Workaround is to just remove specific configuration under router pim bsr mode. (516188)
- Configuring "ip igmp host-proxy <ACL-NAME>" where the access list has a large multicast group prefix length may cause the IgmpHostProxy to be repeatedly restart resulting in traffic loss.
Use smaller prefix lengths to work around the problem. (586865)

- On devices running MLAG and IGMP or MLD snooping, when the MLAG peer address configuration is changed, multicast traffic in both ingress and egress directions can experience loss.
Workaround: `shutdown` wait and `no shutdown` under MLAG submode. (596717)
- The SandMcast agent will continuously restart if it is restarted while there are IPv4 multicast routes stored in the TCAM. The IPv4 multicast routes are stored in the TCAM when the threshold configuration for the IPv4 PIM-SM shortest path tree is set to non-zero. (606940)
Series Affected: 7500R3, DCS-7280CR3, DCS-7280DR3, DCS-7280PR3, DCS-7280R3, DCS-7280SR3, DCS-7500R3 and DCS-7800R3 Series

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 minutes 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 an unexpected PhyEthtool agent restart. 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)
- 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)

- CloudEOS VM running on-prem with NICs x520/x540/82559, some of the interfaces may stay in down state due to a race condition in the ixgbe driver. This can be triggered upon VM image upgrade/downgrade or VM reload/reboot or SFE agent restart. This problem can be seen on any NIC that is controlled by ixgbe driver. (523705)

DCS-7170 Series

- NAT sync does not work reliably if the number of NAT connections are much higher (in the order of 50K or more NAT connections). (506507)
- Monitor session with TX source to a port-channel may not be rate limited correctly. Link flap of the port channel may cause the mirrored traffic to stop. Workaround is to remove non-working port from port-channel. (516828)
- On RouteCache agent restart, if the underlay path is not available, we may end up leaking memory in the agent. (614304)
- Under heavy l3 multicast route flaps, replication update may fail, leading to traffic drops. (620107)

DCS-7170 Series

- PTP transparent mode is currently not supported. Attempting to configure PTP transparent mode with the `ptp mode e2transparent` or `ptp mode p2pttransparent` command will cause the BfnSlice agent to unexpectedly restart. (609143)

Series Affected: DCS-7170 Series

CCS-720XP and CCS-750 Series

- 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)
- 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)
- When hardware flow tracking is configured with "record format ipfix standard timestamps counters" (i.e. sw export), the IPFIX data packets generated by the hardware may get dropped on the CPU queue. The workaround is to increase the export interval by configuring "record export on interval <interval>". (552698)
- Interfaces configured for MAC loopback are limited to 10 Mbps instead of the configured speed. (585395)
 SKUs Affected: CCS-720XP-24Y6, CCS-720XP-48Y6 and DCS-7010TX-48
- During hitless restart of forwarding plane agent(s), packets which were denied by security ACLs may leak through the chip(s) being managed by the agent(s) for a second. The deny security ACL rules start acting on the traffic once the forwarding plane slice agent(s) is warm.

There is no workaround for this bug. (589311)

Series Affected: CCS-750 Series

- For a given tx-queue, traffic on unicast queue may starve the multicast queue. (616128)
 Series Affected: CCS-720XP and DCS-7010TX Series

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 AlgoMatch 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 unexpectedly restart continuously. A reboot or linecard

reset is required to clear this condition. (486369)

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

7368, CCS-750, DCS-7300X, DCS-7500R, DCS-7800 and DCS-7800R3 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 repeatedly restarts and Management0 interface is not reachable in Modular systems. Doing switchover will address the issue. (369565)
- After linecard removal and re-insertion, lag member links may remain inactive due to "waiting for hardware to program port to RX (or receive)".

Restarting the StrataLag agent recovers the port channels. (501496)

Series Affected: DCS-7300X Series

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2, DCS-7500R3 and DCS-7800R3 Series

- When the SandMcast and the SandFap agents are restarted, the VLAN floodset may not contain all the ports for several minutes. (67439)
- 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)
- PBR policies applied on interfaces do not work if the interface has some subinterfaces that also have PBR policies applied. (243286)
Series Affected: DCS-7020, DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R and DCS-7500R2 Series
- 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 deployment 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)

- VXLAN bridging traffic sent out of LAG interfaces may be temporarily dropped after an SSO event. (251398)
Series Affected: 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 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 to 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)
- 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)
- 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)
- If VXLAN is configured, PBR and QOS policies won't apply to traffic ingressing on a MLAG peer-link. (390804)
- 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)

- 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)
- A switch reload with qos policy configured may result in SandAcl agent restart. (417935)
- Storm control maximum burst size is fixed to 10kB which can lead to storm control drops for bursty incoming traffic. (423231)
- With WRR scheduling on many ports and linerate across multiple traffic classes there can be a small amount of egress buffer drops. (425123)
- 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)
- VXLAN over a MACsec proxy port as underlay may stop forwarding traffic on reload. (451061)
- VXLAN routing over MACsec proxy port stops working when a proxy port that is not bound to an external interface is updated to be bound to an external interface. (455759)
- Sflow samples of VXLAN packets terminated by the switch, will not 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)
- SflowAccel does not send flow samples to collectors routed via BGP routes with additional backup paths. (476553)
- 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)

- With a tcam profile configuration containing "feature tunnel vxlan routing", SandAcl agent restart may lead to another unexpected restart before the agent recovers. (492320)

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

- With MPLS VPN, during stateful switchover, some VPN traffic after MPLS decapsulation may be transiently forwarded in the default VRF instead of the appropriate tenant VRF. (541206)
 - An over-voltage condition on the POS1V2_HBM_IO_JE0 power rail can cause the system to power-cycle. (544659)
- SKUs Affected: DCS-7280CR3-96 and DCS-7280CR3K-96

- In configurations involving IP/IPv6/MPLS routes resolved multiple IS-IS-SR tunnels (including indirectly via other tunnels such as BGP-LU) an IS-IS-SR tunnel failure on a remote node (such as Loopback shut, or device reset) may cause extended loss on other nodes as reconvergence occurs as the multi-path set is updated. The loss duration will vary depending on the number of resolution BGP-LU tunnels and on the number of internal VLANs (run "show ip int brief | wc -l" to get an estimate of this number) and could be on the order of 30 milliseconds per tunnel, if the VLAN count is on the order of 2000, and if both IPv4 and IPv6 routes are in use.

A workaround may be to try to reduce the number of BGP-LU tunnels, or to manually adjust the network configuration to divert traffic from the IS-IS-SR tunnel towards the device to be reset. (546432)

- 'Persistent Internal Drop DeqDeletePktCnt' error messages are seen due to incorrect/missing system ACEs. Hitful restart of SandAcl agent is needed to resolve the issue. The trigger for this issue is unknown. (548524)
- A configuration session where multiple class-maps/ACLs used by a primary PBR policy are created/modified may lead to the policy to not be programmed correctly in hardware if the interface(s) where this policy is applied is/are also covered by a fallback PBR policy.

A workaround is to only update a single class-map or a single ACL in a config session if a primary PBR policy already includes the class-map/ACL to be updated.

An alternate workaround is to use three different config pushes:

- (1) Remove the primary policy from all applied interfaces
- (2) Update/create all required ACLs/class-maps
- (3) Re-apply the primary policy to all applicable interfaces. (573311)

- With a high scale of VXLAN routes, SSO or SandL3Unicast agent restart may not be hitless due to a memory exhaustion issue. (587812)

Series Affected: DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7500R and DCS-7500R2 Series

- When 'ip-length' key field is missing from the "ipsec" TCAM feature in the operational TCAM profile, all traffic on the IPsec tunnels may be trapped to the CPU, leading to low tunnel throughput.

The workaround is to enable the 'ip-length' key field in the "ipsec" TCAM feature. (588127)

SKUs Affected: DCS-7020SRG-24C2, DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R

- On a shaped subinterface tx-queue, configuring the bandwidth doesn't take effect unless no-priority is also configured. (588133)
- Adding a new member into a LAG with a high-scale VLAN translation configuration may cause some packets to be misforwarded to incorrect VLANs.

A workaround is to keep the new LAG member administratively shut before configuring it into a LAG. After a few seconds, unshut the member. (588883)

- Interfaces may flap, or link down and remain down.

On interfaces that remain down, shut/no shut can be run to recover the interfaces, though the issue can happen again.

If PTP is not in use, a workaround that avoids future occurrences of the issue is to disable the PtpTimeSync agent per these steps:

```
agent PtpTimeSync shutdown
write mem
reload all (594632)
```

SKUs Affected: 7800R3-48CQ-LC, 7800R3-48CQM-LC and 7800R3K-48CQ-LC

- When a PBR policy is applied to an SVI and new chips are added to the system, PBR may not work for the interfaces associated with the new chip if a policy is ever applied. (607599)
- SandMcast crashes when toggling MLAG configurations. (608379)
- Adding the "vlan-tag-format" qualifier to a TCAM feature will cause the SandAcl agent to restart repeatedly if no rules for this feature uses VLAN matching.

A workaround is to remove the vlan-tag-format qualifier from the feature. Alternatively, add a rule to match VLAN tags. (616132)

- A tcam profile change in flex-route, cbf, or egressIpv6Racl features may lead to forwarding issue. Restarting the SandL3Unicast agent would recover from the problem. (617588)

- With the configuration "ip hardware fib next-hop rfc5549 dedicated", IPv6 egress ACL may be skipped if IPv6 route is changed from drop to forwarding. (619336)
- Interfaces may flap, or link down and remain down.

On interfaces that remain down, shut/no shut can be run to recover the interfaces, though the issue may reoccur. If PTP is not in use, a workaround that avoids future occurrences of the issue is to disable the PtpTimeSync agent by applying the "agent PtpTimeSync shutdown", saving the configuration, and rebooting the system. (619431)

SKUs Affected: 7500R3-36CQ-LC and 7500R3K-36CQ-LC

- If 'cpu traffic-policy <policyName> vrf all' is configured, where the traffic-policy contains rules with the policer action, and the operating TCAM profile does not support the CPU traffic-policy feature, then configuring any routed port in the switch may lead to an unexpected SandAcl agent restart. The workaround is to remove the 'cpu traffic-policy <policyName> vrf all' configuration. (619998)
- Postcard sampling doesn't work for traffic that is forwarded out of a sub-interface that has shaping applied. (621932)
- Postcard Telemetry sampling doesn't work for IPv6 packets if the egress interface has an IPv6 egress ACL applied on it. (624010)
- SandDanz agent crashes on doing configure replace from a configuration that has postcard telemetry feature enabled to a configuration that doesn't have postcard telemetry feature enabled. Issue typically happens with scaled postcard telemetry configurations.
Workaround : disable postcard telemetry feature before initiating configure replace. (625169)
- Interfaces may flap, or link down and remain down.

On interfaces that remain down, shut/no shut can be run to recover the interfaces, though the issue may reoccur. If PTP is not in use, a workaround that avoids future occurrences of the issue is to disable the PtpTimeSync agent by applying the "agent PtpTimeSync shutdown", saving the configuration, and rebooting the system. (629946)

SKUs Affected: 7800R3-36P-LC and 7800R3K-72Y-LC

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

- 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)
- 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)
- When MACsec is enabled and a SSO failover occurs, the Evora agent may restart due to "LMI Access timeout", which may cause links to flap resulting in extended traffic loss. (494072)

SKUs Affected: 7500RM-36CQ-LC

- Private VLAN may not work correctly after a stateful switchover. The workaround is to restart the SandTunnel agent. (505258)
- IQM_RST_USCNT_ERR, IQM_FR_FIMC_DB_ROLL_OVER, IQM_FR_MNMC_DB_ROLL_OVER interrupts of Jericho chip indicate traffic to and from ports of the affected chip to be dropped. A full reset of the chip could workaround this issue. (540881)

DCS-7280R2 and DCS-7500R2 Series

- The default forwarding behavior for IS-IS packets received on subinterface or vlan-tag-based pseudowire connectors is now "trap" rather than "forward".

To achieve forwarding of IS-IS packets received on these connector types, apply an L2 Forwarding Profile, as described in the TOI "L2 Protocol Forwarding". This capability for IS-IS is supported in newer releases only. (611787)

- Multicast traffic on non-default VRF will be lost for as long as 15 minutes when default VRF is multicast enabled without any L3 interfaces. Workaround is to disable mulitcast on default VRF or configure a dummy L3 interface. (619693)

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

- During restart of SandAcl agent, packets may not be subjected to ACL rules for a short period of time. (372971)
- PBR, QOS, CPU policies applied to VLAN interfaces may not function correctly if VLAN interface memberships change during SandFapNi restart,

Linecard insertions or removals, or during interface speed changes.

The workaround is to restart the SandTunnel agent, or reapply the policy configurations. (488958)

- If tap aggregation and a CPU traffic policy are configured together, either the CPU traffic policy will not apply to any traffic or the SandAcl agent will continuously restart. (492549)
- If a LAG with some subinterfaces configured with ACLs is deleted while SandAcl agent is shutdown, the ACL applied on such subinterfaces will continue to apply even after removing the ACL configuration on such subinterfaces. (519537)
- When VXLAN is enabled, L4 port match in ACLs on VXLAN decap packets does not work. (567246)
- When an interface traffic-policy is changed such that hardware resources are exhausted by the change, SandAegis agent may restart. After the agent restart, the switch will recover after traffic-policy rollback kicks in. (574639)
- On applying/removing a Egress TC-to-CoS map on L2 LAG Subinterfaces, the packets going out of the Subinterfaces can have wrong dot1q tag. Workaround is to shut the subinterface, apply the map and then unshut it (582063)
- In some scenarios, typically during route resolution changes, ECMP FECs associated with resilient ECMP IP/IPv6 routes may leak, leading to a gradual increase in FEC resource consumption. These resources may be reclaimed by restarting the L3 feature agent agent, though this can lead to temporary traffic loss over the resilient routes. (599763)
- Following a Stateful Switchover, disabling power to either supervisor using "no power enable module Supervisor" may cause some control plane agents to restart unexpectedly and repeatedly.

To resolve the agent restarts, restart the Linecard agents one at a time. (606781)

- Priority-based flow control fail to work after SSO on some instances. Workaround is to restart SandFapNi agent for the linecard after scheduling downtime. (606784)
- Configuring an IPsec encryption algorithm with a key length less than 256 bits can result in a B52 agent crash. (610799)
- After performing a Stateful Switchover on a switch that has sFlow, Mirroring or Tap Aggregation features enabled, control packets with no VLAN tag may be dropped. (625965)

- After a SandL3Unicast agent hitless restart, MPLS EVPN flows may be completely dropped or egress without their MPLS headers.

A workaround is to restart the SandL3Unicast agent hitfully. (628123)

DCS-7800R3 Series

- The SandMact agent may restart continuously when there is linerate traffic and MAC scale is above configured dynamic MAC learning limit threshold.

A workaround is to increase the dynamic MAC learning limit threshold above the MAC scale experienced by the system. (561359)

- On modular systems, when a SandFapNi instance restarts, it can trigger a one-time restart of all SandFapNi instances on the system. (604402)
- PFC watchdog when triggered and recovered on a stuck port, may lead to the port transmitting PFC pause frames indefinitely.

The only way to fully recover from this situation is restart of the SandFapNi agent for the affected port. Disabling PFC on the port may stop the PFC frames but re-enabling PFC configuration will lead to the same issue. (618441)

- When port speeds are modified on LAG members, the control plane traffic egressing the LAG could be disrupted. (626552)

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)
- The SandIpsec agent does not automatically restart after a TCAM profile change, which means that IPsec-related changes to the profile will not take effect.

The agent must be manually restarted after the TCAM profile is changed using "agent SandIpsec terminate". (567183)

SKUs Affected: DCS-7020SRG-24C2, DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R

- When IP packets small enough to require ethernet padding are forwarded into an IPsec tunnel, the padding bytes are not stripped. This may cause these packets to be dropped when decapsulated and decrypted by other IPsec products. (603398)

SKUs Affected: DCS-7020SRG-24C2, DCS-7020SRG-24C2-F and DCS-7020SRG-24C2-R

DCS-7500R3 and DCS-7800R3 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)
- In an EVPN MPLS multi-homing topology, ESI filtering may not work after SandFap agent restarts.

The workaround is to restart SandTunnel agent. (607723)

- Continuous SflowAccel agent restart is seen when hardware sFlow and shaping on LAG subinterfaces is configured. This will result in hardware sFlow not working as expected. (610518)
- When two prefix lengths are configured with 'ipv6 hardware fib optimize prefix-length' command, the packet matching the smaller prefix length will be mis-forwarded if there is a matching less specific IPv6 route in the routing table for the same packet. (635484)
- Forwarding and learning of secondary VLAN traffic received over a VXLAN tunnel may be impacted.

The workaround is to restart the SandAcl agent. (640184)

- SandL3Unicast agent may restart unexpectedly when all of the below conditions exist:
 1. Using IPv4 route optimization using the internet profile OR with an expansion and compression configuration
 2. TCAM profile has flex-route feature

Packet forwarding will resume after restart of the SandL3Unicast agent. (643643)

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

- sFlow hardware acceleration may be disrupted in a forwarding chip if the SandL3Unicast agent is restarted.

A workaround is to restarting the SandFapNi agent for the corresponding linecard. (525998)

- Under sustained heavy load, when more than one interface is receiving traffic at line rate capacity, the SandCounters process may restart repeatedly until traffic is reduced. (543931)
- When a remote MAC is learnt on an Ingress PE with L2 EVPN MPLS configuration, the traffic destined to the remote MAC may get dropped for a brief amount of time. (551995)
- SandAcl can restart when line card is hot swap with higher line rate traffic in progress. (556308)
- In the presence of virtual MAC with mask configuration, packets that undergo recirculation may not be properly forwarded. (559242)
- When an interface traffic-policy containing both IPv4 and IPv6 match rules is applied to one or more L3 interfaces with a valid IPv4 and IPv6 addresses later has all IPv4 or IPv6 match rules removed results in the traffic-policy no longer being applied to the interfaces.

Workaround is to re-install the policy on all interfaces (574937)

- Traffic policy matches on VLAN tags may incorrectly match untagged packets by interpreting part of the untagged packet as a VLAN tag. (597565)
- When inserted into a previously-occupied linecard slot, Linecards may boot-up with many interfaces not connected and the "error-correction encoding" CLI command not having any effect.

Workaround is to power cycle the linecard with the "no power enable" and "power enable" CLI commands. (599945)

SKUs Affected: 7800R3-48CQM-LC

- Traffic-policies with matches on inner fields of GTPv1 packets may may incorrectly match GTPv1 packets with message type != 255. (604085)
- VRRP traffic may be dropped after a SSO or SandL3Unicast agent restart.

As a workaround, flap all routed interfaces with a VRRP configuration. (604466)

- Following a SandFapNi restart or a switch reload, it has been noticed that traffic-policies may not be installed on interfaces. This can happen especially if the traffic-policies are big or if there are too many traffic-policies to be installed.

The workaround is to uninstall all the traffic-policies, restart the SandAegis agent and reinstall the traffic-policies on the interfaces. (607607)

- IPv4 packets routed via a IPv6 next hop will not be logged if the egress L3 subinterface had an ACL applied with a deny rule that also logged such packets. (621198)
- The SandMact, SandMcast, and SandL3Unicast agents may restart continuously after SSO.

A workaround is to restart the SandFapNi agents after an SSO. (624941)
Series Affected: DCS-7500R3 and DCS-7800R3 Series

- sFlow hardware acceleration may be disrupted in a forwarding chip if a linecard is removed from the system.

A workaround is to restarting the SandFapNi agent for the corresponding linecard. (624996)

- In L2 EVPN MPLS Multi-Homed configuration, BUM traffic might loop during the period of designation forwarder election. (627057)
- On L2 EVPN MPLS PE devices, any configured ingress ACLs or QoS policy maps will not be applied to the traffic received on interfaces connected to CE devices. (628078)
- After installing or reloading a linecard, PTP sync and follow-up packets may stop being sent.

A potential workaround is to restart the SandPtp agent. Note that this will result in PTP restarting on all PTP enabled interfaces. (628431)
Series Affected: DCS-7500R3 and DCS-7800R3 Series

- If 4K L2 subinterfaces are configured on the same fap, then all of them may not come up. (634640)
- With CFM endpoints configured SandOam agent might restart if the linecards are still coming up, impacting the functionality on other endpoints that are already up. The agent restart stops once all the linecards are up. (636671)
- VXLAN packets with a non-IPv6 payload that undergo bridging after decapsulation might be unexpectedly flooded to all ports in the VLAN. (640019)
- Egress IPv6 ACL logging do not work on packets subject to layer 3 MPLS termination. (640491)
- The SandMcast agent restart on a switch configured with EVPN VXLAN L3 multicast can reduce the supported multicast route scale. (645378)

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 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)
- RACLs are not supported for VXLAN traffic ingressing on a MLAG peer-link when AlgoMatch is enabled. (485677)
- For an ACL applied to a LAG subinterface when all members of the LAG subinterface on a given chip are down, subsequent edits to any ACL on that chip may cause the default configured action to be applied to all interfaces on the chip where an ACL is present.

The default configured action is to either drop or permit if the "hardware access-list update default-result permit" is present.

To recover when this bug:

- Remove the "ip access-group" configuration from LAG subinterfaces that are down
- Remove the LAG members that are down from the LAG that has subinterfaces with an ACL configuration (598255)

7300X3, 7320X, 7368, CCS-720XP, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3, DCS-7300X and DCS-7300X3 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 unexpectedly restart 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_HWHOP_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)

- 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)

- 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)
- 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
- 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
- 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
- Having any ACLs with UDF qualifiers as well as any of the following LAG/ECMP hashing features present in the configuration: RRocce 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)
- DirectFlow flows with mirroring action may not be reprogrammed after a supervisor switchover or StrataMirror agent restart.

The workaround is to restart the Strata agent, which restores the flows. (406857)

- 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
- 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)

- Hosts may incorrectly learn the ARP of virtual IP behind the switch MAC when the switch is reloaded or configuration is flapped.
Workaround is to clear the ARP on the host to trigger a new ARP reply with the correct VARP MAC. (418626)
- Configuring more than 16K MPLS pop/swap labels will cause continuous restart of forwarding agent. (419243)
- 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
- 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
- During Leaf-SSU or SSO, interfaces with 100GBASE-SRBD transceivers may experience a single link flap. (440451)
- 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)
- Slice agent may restart unexpectedly on performing speed change and/or shutting/no shutting on a PFC enabled interface with traffic flowing out of the interface. The issue will not be seen if PFC is not configured or traffic is not flowing. (462139)
Series Affected: 7368 Series
SKUs Affected: DCS-7060DX4-32-F and DCS-7060PX4-32-F
- 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)

- 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)
- With "switchport default phone vlan <vlan-id>" configuration, DHCP offer packets tagged with the default phone vlan tag might be sent out untagged on trunk ports (501749)
- 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)
- During an SSO failover, Strata Linecard agent may not detect hardware, resulting in a fatal error reboot with increased traffic outage. (512403)
Series Affected: DCS-7300X 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)
- Groups of four adjacent BASE-T ports share a common hardware resource; for example, Et1-Et4 and Et5-Et8 and so on. Due to an issue with the shared hardware resource, all 4 ports may fail to link up.

On fixed systems, the workaround is to run `platform trident reset`. On modular systems, the workaround is to run `platform trident <linecard> reset` on the affected linecard. (529148)

SKUs Affected: CCS-720XP-24Y6, CCS-720XP-48Y6 and DCS-7010TX-48

- A different set of routed interfaces may operate after reload or StrataL3 process restart if the supported scale of routed interfaces is exceeded. (533468)
SKUs Affected: DCS-7010TX-48

- Changing the speed of a QSFP or SFP interface from 10G to 1G may cause a Strata forwarding agent restart under some circumstances. This will cause an interruption in traffic on all ports. Workaround is to change from 10G to another speed before changing to 1G. (550269)

Series Affected: 7300X3, CCS-720XP, DCS-7050X3 and DCS-7260CX3 Series

- When using a config session that deletes and recreates an existing ACL applied to one or more SVIs, and detaches the ACL from its applied SVIs in the same config session, the affected SVIs may be left in a state that blocks all traffic.

Reapplying the ACL to the affected SVIs will unblock them. Using "hardware access-list update default-result permit" will prevent blocking the SVIs during ACL modification. (555485)

- VXLAN rule in ACL applied on SVI will cause Strata slice agent to continuously restart. Workaround is to remove VXLAN rule from ACL applied on SVI. (559747)
- TCAM resource exhaustion can lead to VXLAN forwarding to fail. Workaround: Reduce TCAM resource utilization to allow VXLAN entries in TCAM by unconfiguring other features that occupy TCAM. (561231)
- When "show platform trident vxlan multihoming groups non-peering" is executed, StrataL3 agent may restart unexpectedly. (561420)

- Fabric interface on a linecard can sometimes end up in a state where it can discard all packets at egress. When this condition happens, the "show platform trident fabric counters queue detail" command will show that the drops increment while there is no increase in packets or bytes transmitted on the problematic fabric interface. To recover from the problem, it is necessary to restart the linecard forwarding plane agent by running "platform trident <linecard> reset". The recovery process can cause traffic disruption across several ports in the switch. (562860)

SKUs Affected: DCS-7304 and DCS-7308

- Committing security access lists through CVP may restart forwarding plane slice agent. Post restart forwarding plane functionality will continue to work as is. Workaround is to use "hardware access-list update default-result permit" CLI. (571289)

- After performing SSU from a PTP unsupported release to a PTP supported release, PTP will not be functional. The workaround is to reset the forwarding switch by issuing the CLI command "platform trident reset" after the SSU and prior to enabling PTP. This will cause all interfaces to flap and a brief traffic outage to occur. (582970)

Series Affected: DCS-7060X4 Series

- Port channel(s) may not be programmed correctly under the following scenario:
 - port channels with interface members are configured
 - a new switch configuration is created where interface(s) is moved from one port channel to another
 - that new configuration is applied using the CLI "configure replace ..." or "copy ... running-config"

Workaround options:

- restart StrataLag agent using CLI "agent StrataLag terminate"
 - reload the switch (586414)
- Performing SSU may result in a cold reboot due to DMA cancellation failure resulting in extended traffic loss. (589308)
 SKUs Affected: DCS-7050SX-64, DCS-7050SX-64-F, DCS-7050SX-64-R, DCS-7050SX-64-SSD-F and DCS-7050SX-64-SSD-R
 - When many VLANs and/or LAGs are configured, port channels may flap during SSU. (592390)
 - DHCPv6 unicast packets which are not destined to switch are copied to CPU, which may forward the packet to destination along with one copy forwarded in hardware resulting in duplication of unicast DHCPv6 packets. (595070)
 - CPU traffic on the uplink interfaces after a power cycle may all be dropped. The workaround is to reset the Strata agent responsible for that interface using CLI command 'platform trident Strata-Linecard1 reset' for slot 1 or 'platform trident Strata-Linecard2 reset' for slot 2. (600888)
 SKUs Affected: CCS-750-SUP100
 - A SSU reload may result in the SCD watchdog causing an extended traffic outage. (605183)
 - When PTP is enabled, the slice agent may unexpectedly restart during a hitless restart. This will result in a hitful restart of the slice agent. (605632)
 Series Affected: DCS-7050TX, DCS-7050X, DCS-7260CX, DCS-7260QX and DCS-7300X Series
 - QSFP transceivers inserted into a OSFP slot using OSFP-QSFP Adapter (OQA) after switch boot up will not link up. The workaround is to configure "shutdown" followed by "no shutdown" on all interfaces in the affected OSFP slot. Another workaround is to restart the forwarding agent using the CLI command "platform trident reset". This will lead to a brief traffic outage to occur on all ports. (612798)
 SKUs Affected: DCS-7060PX4-32

- ARP packets destined to VARP MAC on a L2 VLAN may get dropped instead of forwarding the packet on the VLAN. (613277)
- Interfaces with 1000BASE-T SFP transceivers may report a false link up when configured with default, "no speed", "speed auto", or "speed auto 1000full". The workaround is to configure affected interfaces with "speed forced 1000full" instead. (614753)
Series Affected: 7320X, DCS-7060CX, DCS-7060CX2, DCS-7060SX2 and DCS-7260CX Series
- MAC addresses might not age out on port-channels spanning across multiple chips (616314)
SKUs Affected: CCS-720XP-96ZC2, CCS-720XP-96ZC2-F, DCS-7250QX-64, DCS-7250QX-64-F, DCS-7250QX-64-R, DCS-7250QX-64-SSD-F, DCS-7250QX-64-SSD-R, DCS-7260CX-64, DCS-7260CX-64-F, DCS-7260CX-64-R, DCS-7260CX-64-SSD-F, DCS-7260CX-64-SSD-R, DCS-7304 and DCS-7308
- Performing SSO with increased route scale while Segment Security is configured may result in a fatal error reboot and extended traffic outage. (623639)
- When the switch is configured with an ARP timeout of less than 600s along with virtual IP configuration and when an MLAG peer is undergoing SSU reload, ARP entries may get timed out on the peer that has not been reloaded.
The workaround is to have a higher ARP timeout value. (625327)
- After an interface flap, multicast traffic may not forward correctly in data plane.
Workaround is to remove and re-apply multicast configuration. (627318)
Series Affected: DCS-7010TX Series
- When removing VARP MAC configuration, ARP replies destined to the previously configured VARP MAC will be consumed by the switch even when the configuration has already been removed.

Workaround: Restart Strata agent or reload the device. (630505)
- Performing SSU, SSO or StrataL3 agent restart may result in excessive traffic outage for VXLAN traffic. (638886)

DCS-7010 Series

- 802.1x pause and guaranteed bandwidth cannot be configured at the same time. (91141)
- IPV6 traffic received over IPV4 tunnel interface may be dropped.

The workaround is to configure IPv6 address on all the ingress L3 underlay interfaces. (545486)

7300X3, 7320X, DCS-7060X, DCS-7260X and DCS-7300X3 Series

- If RPR or SSO is configured, Strata fabric agent restarts may cause switchover to occur. (368082)
SKUs Affected: DCS-7304 and DCS-7308
- Packet buffer memory corruption can result in packets getting discarded without visibility in counters.
When this condition occurs, the buffer usage reported by the "show platform trident mmu queue status" command exceeds the total number of buffers reported by the "show platform trident mmu buffers" command.
A workaround is to run the "platform trident reset" command, which results in forwarding agent restart causing the links of the system to flap momentarily. (553299)

DCS-7260X3 Series

- 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)
- Transceiver insertion or removal from a port used for recirculation in VXLAN routing may result in continuous traffic loss. Workaround is to flap the port by doing shut/no shut. on the interface. (590389)
- A single event upset (SEU) in the IFP_LOGICAL_TABLE_SELECT TCAM or IFP_TCAM_WIDE may not be detected. This may cause traffic to be misclassified.

A forwarding agent restart is required to forward traffic normally. (625317)

7368 and DCS-7060X4 Series

- 802.3X pause is not supported (348758)
- 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)

- Link may be unstable at 400G with 400GBASE-DR4, 400GBASE-AR8 or 400GBASE-SR8 transceivers. (472927)
SKUs Affected: 7368-4D and 7368-4P
- Speed change on a port-channel member can cause a flap in BFD and BGP sessions for the entire port-channel (520638)

- Changes in interface L1 configuration via CLI such as speed, forward error correction, or shutdown while traffic is running may cause an unexpected forwarding agent restart. This will lead to a brief traffic outage on all ports. (595680)

Series Affected: DCS-7060X4 Series

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

- A port operating at 100Mbps with a 1000BASE-T SFP adapter may not transmit packets to its link partner or may transmit corrupt packets failing FCS checks at the link partner, even if it successfully links up.

Workaround is to run a shut/no shut on the affected port. (80970)

- 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)
- 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)
- In the presence of large amount BUM traffic across several interfaces, discards may be observed on some CPU queues. (563505)

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)
- Vxlan multicast decapsulation will not work for packets that are sourced from unknown source VTEP. (538407)
- Continuous flapping of L3 interfaces could cause the StrataL3 forwarding agent to restart, resulting in a momentary traffic loss. (550872)
- When the per VLAN routing feature is enabled, BFD packets will be dropped in HW resulting in existing sessions going down or preventing new sessions from getting established.

Workaround is to disable per vlan routing feature. (568298)

CCS-720XP Series

- Setup with only Storm-control and scaled IP Locking configuration may cause slice agent to restart continuously. (599935)

CCS-750 Series

- When report flooding is disabled in IGMP Snooping configuration, report packets may still be flooded on port-channel member interfaces.

The workaround is to disable and re-enable IGMP snooping. (534531)

- Downlink LAG routed port configuration is not supported . (552927)
- Packets sent from the CPU may be placed in the default transmit queue despite the QoS policy. (611708)
- Packets may display unexpected routing behavior. (614735)
- Applying the same QoS policy-map with police action on multiple interfaces may not work as expected. (620018)
- When IGMP Snooping is enabled, unknown multicast traffic may have a brief traffic outage on all interfaces when linecards or supervisors are added or removed. (638257)

DCS-7050X3 Series

- Ports with inserted transceivers which only support 40G (such as 40GBASE-SRBD) and a default interface speed configuration may reserve 4 logical ports (hardware interface resources) instead of 1 on boot up. This may cause other interfaces to become inactive and the syslog STRATA-4-HW_PORT_RESOURCE_FULL to be logged.

The workaround is to configure 40G-only transceivers with the "speed 40g" interface configuration. After the configuration is applied, the forwarding agent must be restarted using the CLI command "platform trident reset". This will cause all interfaces to flap and a brief traffic outage to occur. (554109)

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)

- 100GBASE-SR4 modules may not link up or experience errors when inserted into a QSFP-DD slot or an OSFP slot using an OSFP to QSFP Adapter (OQA) on some platforms.

The workaround is to override the transceiver tuning with the command `'transceiver electrical lane 1-4 rx-output-amplitude module-default rx-output-pre-emphasis module-default tx-input-equalization module-default'` (631109)

SKUs Affected: 100GBASE-SR4

- Interfaces with 1000BASE-T SFPs may improperly report link up when the link is down or completely unconnected upon switch reboot.

The interfaces should be administratively disabled prior to reboot to prevent black-holing traffic. (631124)

SKUs Affected: 1000BASE-T

7300X3, CCS-720XP, CCS-750, DCS-7010TX and DCS-7050X3 Series

- Egress ACL on SVI for BUM traffic will not match ACL rules for packets being sent across fabric interfaces. (284543)
- 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)
- 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)
- If a hitless forwarding agent restart is attempted while the hardware configuration does not match the running configuration, then it may cause an additional forwarding agent restart and loss of traffic. This may also happen if the forwarding agent is restarted while some interfaces have been disabled due to insufficient logical ports. (417835)

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

- Some NAT rules may not work correctly if the StrataL2 forwarding agent happens to restart. Packets may not get translated as expected
The impacted rules need to be un-configured and then re-configured. (483821)

Series Affected: DCS-7300X Series

- 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

- If NAT configuration is modified or if a NAT-enabled interface is shutdown and enabled while traffic is flowing, then some of the NAT connections might not be setup properly leading to packet loss or untranslated traffic.

Workaround is to be quiesce traffic before modifying the NAT configuration and then resume traffic. (497045)

- 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)

- In VXLAN setup, even with underlay ECMP configured, the traffic may not be hashed to all the ECMP links towards the spines. (540083)
- Some multicast NAT translations may stop working after the restart of Strata forwarding plane agent.

Workaround is to remove and re-add the affected rules. (544827)

- With GRE tunnels or IPinIP tunnels or Nexthop-group tunnels configuration along with subinterface in the tunnel core interface, tunnel encapsulated packet will not be tagged with dot1q tag as configured in the subinterfaces, instead packet will go out tagged with internal vlanId assigned for the subinterface. There is no workaround for this issue other than removing subinterface configuration in the core interface. (548327)
- Some NAT translations may stop working after rebooting a switch.

Workaround is to restart the Strata Slice Agent. If the problem persists, perform a cold reboot of the switch. (563526)

- When VXLAN IPv6 underlay is configured and when core interface is a port channel on a SVI, continuous port channel interface flaps may result in persistent loss of VXLAN traffic to remote VTEPs that are reachable through that port channel. (567455)
- 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. (567587)

Series Affected: 7300X3 and CCS-750 Series

SKUs Affected: CCS-720XP-96ZC2 and CCS-720XP-96ZC2-F

- When a linecard with LAG members configured statically is removed, subsequently moving or adding the LAG to a different VLAN may cause BUM

traffic on that VLAN to be blackholed.

To work around this issue, remove the removed LAG members from the LAG.
(603388)

SKUs Affected: 7300X3-32C-LC and 7300X3-48YC4-LC

- Agent StrataL3 may not get properly initialised if segment security and multicast is enabled. Workaround is to disable these configurations and re-enable them one after another. (603915)
- On switch reboot/reload with NAT configured, the ports come up and then NAT configuration is applied. If traffic is flowing before the NAT configuration is fully programmed, then some packets might go out untranslated or dropped. Workaround is to stop traffic till NAT configuration is fully applied. (606202)
- When address-only NAT is configured, and after a host is assigned a NAT IP address, ACL check is skipped for subsequent flows from that host. Such flows gets translated even if they match deny ACL entry.

Workaround is to use Dynamic NAPT or static NAT configuration. (613563)

- When two dynamic NAT connections are established with the same IPs on two different interfaces, the StrataNat agent may repeatedly restart.

To resolve the issue, the device must be restarted. (613804)

- If dynamic NAT configuration is modified or if the admin shutdown/no shutdown performed on an interface configured with dynamic NAT while NAT traffic is flowing, NAT connections may be left untranslated.

Workaround is to manually flush all the entries using the command "conntrack -F" in the corresponding network namespace bash mode. If configured on a non-default VRF (vrfName, for example), run the command "ip netns exec ns-vrfName conntrack -F". (615735)

- When address-only NAT is configured and the default NAT profile (NAPT) is configured, after a host is assigned a NAT IP address, ACL check is skipped for subsequent flows from that host. Such flows gets translated even if they match a deny ACL entry. (618773)
- If dynamic NAT rules with the same ACL are configured on more than 64 interfaces, the StrataNat agent may restart continuously.

Workaround is to use different ACL names such that no more than 64 interfaces share the same ACL name. (621189)

- Restart of Forwarding plane agent renders a modular T3 switch blackholing the incoming traffic. A slice restart resolves the issue. (621224)

- Packets may be transmitted without translation if an interface with multicast NAT configuration is admin shut and then no shut.

Workaround is to reload the DUT. (621701)

- Using optics at 4x10G mode on Ethernet104 port might cause the forwarding agent to restart continuously.

A workaround is to use any other QSFP100 port for 4x10G operation with optics. (623597)

SKUs Affected: DCS-7050SX3-96YC8

- Modifying the ACL configuration applied to the NAT rules with ECMP configuration is not supported.

Workaround is remove the ACL, verify the rules are deleted from hardware and then re-apply the ACL. (623961)

- The traffic received on some interfaces may not be hashed correctly on outgoing port channel(s) as ECMP hash configuration may be used on these interfaces instead of LAG hash configuration. The CLI "show load-balance destination port-channel ..." may report an error or provide a wrong answer if the affected interface is entered as an ingress interface.

Workaround: restart Strata slice agent(s). (625571)

- A single event upset (SEU) in the IFP_LOGICAL_TABLE_SELECT TCAM or IFP_TCAM_WIDE may not be detected. This may cause traffic to be misclassified.

A forwarding agent restart is required to forward traffic normally. (626452)

- Prefixes used exclusively in match-lists for MSS-G feature and not provided by FIB can result in LPM match causing traffic to be forwarded through CPU.

There is no workaround for this issue. (634355)

- When IGMP Snooping is enabled, unknown multicast traffic may have a brief traffic outage on all interfaces when a speed change or transceiver gets inserted or removed on a QSFP port. (638649)

- If NAT ACL has a deny rule, then packets matching the deny rule will be dropped. (642262)

Limitations and Restrictions in 4.27.0F

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)
- Performing SSU to boot into an image with this limitation may require that the currently running image is deleted to ensure that there is sufficient space available to perform the upgrade. (525870)

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)
- VRRP+VXLAN is not supported in deployment with EVPN VXLAN. (549525)
- In an EVPN/VXLAN environment with VLAN-Based MAC-VRF, type 2 and type 3 routes are incorrectly imported when the route-targets match even if the VNIs are different.

The workaround is to use different route-targets for the VLAN-Based MAC-VRF's to prevent the routes from being incorrectly imported. (631589)

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 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)

- 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)
- Macro-Segmentation Service (MSS) running in consistent enforcement mode may emit "CVX-3-MSS_HOST_UNPROGRAM_ERROR" syslog messages for the hosts attached to only one MLAG peer when that peer is reloaded.

These messages can be ignored. "CVX-3-MSS_HOST_RECOVER" messages will be observed as soon as these hosts are learned again at the reloaded MLAG peer afterwards. (524705)

- For Macro-Segmentation Service (MSS) deployment running in consistent enforcement mode, "CVX-3-MSS_HOST_UNPROGRAM_ERROR" or "CVX-3-MSS_RULE_UNPROGRAM_ERROR" syslog messages may be seen when a switch is reloaded (planned reload).

Use "clear cvx connections client <switch-id>" command to clear the switch from CVX registration. (524717)

- In a Macro-Segmentation Service (MSS) deployment in a multi-VRF environment with EVPN as control plane, when an MLAG peer is reloaded, CVX-3-MSS_HOST_PROGRAM_ERROR message is logged for the intercept hosts followed by CVX-3-MSS_HOST_RECOVER message. (525851)
- In a Macro-Segmentation Service (MSS) deployment with a Palo-Alto Firewall, when using an aggregator interface in a virtual system, all its member interface must be in the same virtual system. (528511)
- In a Macro-Segmentation Service (MSS) deployment with a Palo-Alto firewall, a policy with multiple source or destination zones will be enforced over only one source zone and/or one destination zone.

A workaround is to split the policy into multiple policies with single source and/or destination zone. An alternative is to add the source and destination subnets to the policy configuration. (567376)

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)
- 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)
- 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 skip processing a tagged firewall policy if one of the interfaces in the zone are not configured with a valid IP for that zone.

To workaround 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)
- A reload with "The system rebooted due to a watchdog on the lower card" as the reload cause may occur unexpectedly on hardware built prior to 2020. (372163)

SKUs Affected: DCS-7050SX-128-F, DCS-7050SX-128-R, DCS-7050SX-128-SSD-F, DCS-7050SX-128-SSD-R, DCS-7050TX-128-F, DCS-7050TX-128-R, DCS-7050TX-128-SSD-F, DCS-7050TX-128-SSD-R, 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-7260QX-64-F, DCS-7260QX-64-R, DCS-7260QX-64-SSD-F, DCS-7260QX-64-SSD-R, DCS-7280CR-48-F, DCS-7280CR2-60-F, DCS-7280CR2A-60-F, DCS-7280CR2K-60-F, DCS-7280QR-C72-F, DCS-7280QR-C72-M-F, DCS-7280QR-C72-M-R and DCS-7280QR-C72-R

- 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)
- 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
- When "logging format hostname ipv4" is configured, log messages may not display the correct IP address if the IP address is updated. (422666)
- 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)
- Per-port denial of service protection (PDP) support has been removed. (440074)
- 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)

- When eAPI is configured with invalid SSL profile, nginx will stop running and all http/s requests will be refused (474422)
- Currently EOS does not support parsing and separating multiple ACL rules in the same NAS-Filter-Rule AVP using zero byte delimiter. (475210)
- EOS-2GB.swi is no longer available. (475680)
- vlan A cannot be both source and target of 'floodset expand vlan' configuration at same time, i.e. have 'floodset expand vlan <vlan B>' and be used in 'floodset expand vlan <vlan A>' to configure vlan C (497773)
- Installed licenses without corresponding licensing features configured might not be visible from the CLI (504793)
- If Octa, OpenConfig or TerminAttr are started under low memory conditions, they can cause a spike in CPU usage before unexpectedly restarting. (534841)
- Configuring NTP to serve clients in more than 500 VRFs fails with a syslog message "ntpd: Too many sockets in use". (543116)
- When the "tunnel destination" address is configured as a broadcast address for static tunnel interfaces then there could be packets drops during decapsulation at the tunnel endpoint. (544032)
- 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)
- The "dot1x re-authenticate" command is not supported for failed supplicants. Workaround is to flap the interface. (567028)
- Removing "vlan" key-field from custom TCAM profile for ingress security ACL feature causes ACL application on SVIs to fail.

To workaround this issue, add "vlan" key-field to custom TCAM profile for ingress security ACL features. (570680)

SKUs Affected: CCS-720XP-96ZC2 and CCS-720XP-96ZC2-F

- In SSO redundancy mode, the switch may take longer (more than 20 minutes) to be declared switchover ready. This is to accommodate for all agents to become ready for switchover. (572615)
- The CLI command to enable this feature, "locked-address ipv4 enforcement disabled" is not supported on this platform. (572773)
Series Affected: CCS-750 Series
- When unsupported transceiver support is unlocked using a key, the ports that are in disabled state before unlocking will continue to be disabled.

The workaround is to remove such transceivers and re-insert them after unlocking the unsupported transceiver support. (574146)

- The 'logging level all' CLI expands to individual commands in the configuration, preventing dynamic updates of the logging list as part of EOS upgrades. (579047)
- TACACS+ authentication and authorization through SSH does not work with Pulse Secure server because EOS sends different port names in authentication ("ssh") and authorization (actual vty) requests which are rejected by the server. (583678)
- Sampled flow tracking exports IPFIX flow records with egress interface as 'discard' for flows on pseudowire patched interfaces. (603916)
- "match-prefix-set" in OpenConfig does not allow matching against IPv6 prefix lists (613502)
- /mnt/flash cannot be used as the log archiver destination on systems formatted as VFAT. To check if a product is formatted as /mnt/flash, from bash, run "mount | grep flash", and look for "type vfat" or "type ext4". If you see "type vfat", then that product's /mnt/flash storage is formatted as VFAT. (642415)

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
- Clause 37 (BASE-X) auto-negotiation is not supported on SFP25 ports. (492271)
 SKUs Affected: DCS-7010TX-48-F and DCS-7010TX-48-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-7280CR3-96-F, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4-F, DCS-7280CR3K-32P4-R, DCS-7280CR3K-96-F, DCS-7280CR3MK-32D4-F, DCS-7280CR3MK-32D4-R, DCS-7280CR3MK-32P4-F and DCS-7280CR3MK-32P4-R

- Interfaces with BCM82391 PHY do not support auto-negotiation. (537530)
SKUs Affected: 7500RM-36CQ-LC, DCS-7050CX3M-32S, DCS-7280SR3-48YC8 and DCS-7280SR3K-48YC8
- QSFP to SFP adapters are not supported on front panel interfaces ethernet25/1-36/1. To work around this, use interfaces ethernet1/1-24/1 instead. (625046)
SKUs Affected: DCS-7280CR3-36S-F and DCS-7280CR3K-36S-F

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)

- Even with fallback to unprotected traffic configured, traffic loss in the order of milliseconds may be seen during initialization (491232)
- Upon programming a large number (~250) of VTEPs in a flood set at once, the L2Rib agent may restart. Workaround is to program them in batches, waiting a few seconds between each batch. (544051)
- 802.1X is supported on LAG member ports using EAPOL authentication. (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)
- 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)
- Destination (TEP) or include hop entry for a RSVP tunnel can be TE router ID of a router or IP address on any interface that has an IGP neighbor. It cannot be any other interface address, like a loopback interface address which is not TE router ID or a stub interface address. (453019)
- Nexthop group tunnel counters does not work, when tunnel counters is enabled using 'hardware counter feature mpls tunnel' command. (474078)
- 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)
- 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)
- Rsvp autobandwidth feature does not work for single hop tunnels. The workaround

is to configure Rsvp explicit-null on the egress router for single hop tunnels. (571177)

- VARP VTEP IP configuration is not supported on AP aggregation VTEPs

It is recommended that either EVPN VXLAN symmetric or asymmetric IRB be used for distributed VXLAN routing in campus environments. (571517)

- Incorrect MTU value on QinQ subinterfaces may be programmed in the hardware. (624562)
- IS-IS Extended administrative group (EAG) sub-TLV is not supported. If a system in the network advertises EAG, Arista router will ignore the sub-TLV. (628807)

IPSEC

- We do not support NAT on Isec autoVPN in this release. (564431)

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)
- 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)
- In multi-agent mode, extended Sflow BGP data is not supported for BGP LU routes. (411762)

- 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)
- An AS_PATH prepend operation in an RCF function applied towards an IBGP peer is ignored. (474006)
- IP ACLs are not supported for control plane route filtering for VRF leaking (536329)
- Match dynamic prefix-list clauses in route maps are only supported for BGP inbound and outbound route maps. (564552)
- CVP will not monitor multiple BGP peers that are configured using the same peering IP address. (588954)
- BMP, SNMP and EosSdk will not report multiple BGP peers configured with the same BGP peering address. (602657)

Rib

- No support for IPv6 labeled Unicast capability when BGP neighbor is established using IPv4 transport. (208402)
- Match dynamic prefix-list clauses in route maps are only supported for BGP inbound and outbound route maps. (261865)
- 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)
- The port-channel configured on each MLAG switch with the same MLAG ID must also have the same channel-group ID. (22890)

- 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)
- If an MPLS ping/traceroute is issued for an ELC capable LSP, the entropy label and ELI will not be present in the label stack sent out from the device issuing the OAM command (487473)
- Using IPv6 tunnel alias endpoint to inject IPv6 traffic on a RSVP tunnel may not work if tunnel endpoint advertises explicit-null label. The workaround is to configure implicit-null on the tunnel endpoint when configuring IPv6 tunnel alias endpoint on LER. (593635)
- MPLS vias in the LFIB are limited to 128 even when the maximum allowed ECMP or UCMP values exceed this number (602879)
- With "hardware next-hop fast-failover" configuration, Ti-LFA MPLS tunnel switching over from a path without a MPLS label to a path with a MPLS label isn't supported. (631560)

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 unexpectedly restart 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)
- Multicast routes are not created when a source is transmitting only fragmented multicast packets.
Switch to using SFE for multicast software forwarding. (605326)

SwitchApp

- IGMP snooping filters are not supported when SwitchApp over forwards IGMP reports. Reports are over forwarded if the "igmp flooding" CLI is enabled through the FPGA instance CLI, or if the FPGA profile does not support correct forwarding of IGMP reports. (601917)

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 detaching a network interface. (306132)
- CloudEOS does not support more than 10k /30 routes. The SFE agent will restart if more than 10k /30 routes are added to the system. The workaround is to reduce the number of /30 prefixes. (540204)

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
- 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)

- Accelerated Software Upgrade (ASU) is not supported in combination with the packet-filter profile. The hitless reload will time out and fall back to a normal reload. (473985)
Series Affected: DCS-7170 Series
- On the DCS-7170 series, ASU is not supported on the firewall profile. (475112)
Series Affected: DCS-7170 Series

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 and CCS-750 Series

- When hardware flow tracking is enabled, tcpControlBits information element in IPFIX flow records for VXLAN encapsulated TCP flows is incorrect. (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
- Negation operator (!) and 'assigned' keyword are not supported in Radius NAS-Filter-rule(attribute-id 92) Attribute. (475207)
- 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)
- WOL feature is currently only available for phone trunk port, but not for regular trunk port. (481468)

- Fallback to MBA authentication feature may not work as expected with Caching Auth feature. (482333)
- Timeout value configured for MBA fallback feature can block MBA Auth for upto 60 seconds more than the configured value since first non-EAPOL packet is received. It is recommended to configure the hold period to be lower than the timeout value for MBA fallback. (483995)
- MBA for passive device can not be triggered by ARP/ICMP if IP locking is enabled (500439)
- 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)
- Limitation - 802.1X Web Authentication Implicit ACL feature doesn't work when IP Locking is configured on the interface. The workaround is to use 802.1X ACL based Web Authentication. (557986)

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)
- Ingress ACLs on IPv6 packets do not work when IPv6 uRPF is configured and AlgoMatch is enabled. (512394)

7368, CCS-750, DCS-7300X, DCS-7500R, DCS-7800 and DCS-7800R3 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)

CCS-720XP and CCS-750 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)

7500R3, DCS-7020, DCS-7280R, DCS-7280R2, DCS-7280R3, DCS-7500R, DCS-7500R2, DCS-7500R3 and DCS-7800R3 Series

- The L3 MTU on interfaces is not enforced on SVIs. (11659)
Series Affected: DCS-7020, DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, 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)
- show interfaces counters rates' for port channels may show a slightly inaccurate data rate (including above 100%). (67367)
- 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)
- 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 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, 7800R3-48CQM-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)
- 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)
- Stale telemetry flow-spec statistics may be seen until the next "show flow-spec" command is issued. (345195)
- 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)
- unicast RPF is not enforced on IP packets when the destination IP needs ARP resolution (356347)
- Software forwarding is not supported for GRE or IP-in-IP tunnel terminated packets using decap-groups. (358369)
- 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 Ipsec tunnels are configured, it is random as to which ones are assigned flow entries within on-chip encrypt/decrypt engine. The set of Ipsec 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)
- 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)
- Header truncation for mirrored packets can not be used when the destination of a monitor session is a GRE tunnel. (428547)
- A port transmitting packets smaller than 100B that were tunnel terminated on the switch might be limited to ~90% linerate (429797)
- Egress MAC ACLs are matched on the incoming packet's ethernet header and not on the rewritten ethernet headers. (458724)
- Egress mac acls do not work on interfaces that are not front-panel interfaces, even though they can be configured. (483583)

- When the feature "flow" in a TCAM profile is configured with only the "drop" action, the profile is rejected. The workaround is to add any other action to feature "flow". (486849)
- 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-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R and DCS-7500R2 Series

- 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-7280R, DCS-7280R2, DCS-7500R and DCS-7500R2 Series
- 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)
- SVI egress counters are not incremented for IPV4 or IPV6 multicast packets. (508471)
- Egress counter features configured via "hardware counter feature ..." do not include packet or byte counts for packets sent from the local CPU. (525380)

- Counter information flows from the forwarding chips to the tables that support TerminAttr in a very bursty manner. When averaged over a several minute window the rates will be accurate, but for shorter intervals calculated rates may oscillate significantly above and below the nominal rate.

For better accuracy, please use a longer interval to generate rate information. (540116)

- Hitless restart is not supported with Macsec proxy (540419)
- `show forwarding destination` may give incorrect results when the traffic would hit an egress IPv4 ACL using bridged IPv4 traffic or hit an egress IPv4 ACL using one of the following qualifiers: TCP established, fragment, and L4 port range. Note that TCP and UDP egress IPv4 ACL rules use the fragment qualifier. (554480)
 Series Affected: DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R and DCS-7500R2 Series
- Hitless restart of Layer 3 forwarding agent is not supported unless "ip load-sharing prefer local" configuration is removed. Note that this configuration is added by default on this system. (555772)
 SKUs Affected: DCS-7280QR-C36
- Route churn under hardware FIB exhaustion may cause BFD sessions to flap. (556089)
- MPLS label popped packets will not match rules that match on 'tcp established' in egress IP acls (565015)
- For products with paired QSFP100 (odd numbered) and QSFP+ (even numbered) ports, the even numbered port may experience link flaps when a transceiver with a different media type from the previous installed transceiver is inserted in the odd numbered port. (565969)
 SKUs Affected: DCS-7280QR-C72-F, DCS-7280QR-C72-M-F, DCS-7280QR-C72-M-R, DCS-7280QR-C72-R, DCS-7280QRA-C36S-F and DCS-7280QRA-C36S-R
- VRRP IPv6 using VRRP IPv4 MAC prefix may have unexpected packet forwarding behavior when the VRRP IPv6 and IPv4 have different states and one of the states is Master. (567504)
- Routes resolved over LAG sub-interfaces that have shape rate configured may forward traffic to CPU after SandL3Unicast agent restarts. The workaround is to flap the parent LAG by using the shut and no shut command. (570311)
- PE to PE overlay ping does not work on L2 MPLS EVPN. Work around isn't available. (617720)

DCS-7280R and DCS-7500R Series

- An IPv6MPLS 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-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R and DCS-7500R2 Series

- Egress Ipv4 ACLs and Egress MAC ACLs cannot be configured together (443671)
- Egress Ipv6 ACLs and Egress MAC ACLs cannot be configured together. (443673)
- With `counters per-entry` for egress mac acl, we can uniquely count max of 3967 rules per fap. (460819)
- MTU is not enforced for MPLS packets forwarded by a MPLS swap route, which have a length one byte more than MTU. (464742)
- The two rate three color (trTCM) QoS policy-map counters can show incorrect values for packets marked green or yellow if the ingress traffic is broadcast or multicast traffic. (479267)

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

- On TCAM profile change, sub-interfaces that have a L2 Protocol Forwarding profile applied or those sub-interfaces for which a sub-interface on the same physical interface has a L2 Protocol Forwarding profile applied, will briefly forward all traffic that is otherwise supposed to be trapped to CPU by default. (525564)
- 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)
- SandAcl agent may restart a few times when other Sand agents restart. (546778)
- With RFC5549 ACLs configurations, the Egress IPv6 ACL deny logging on port channel subinterfaces stops working on performing agent SandL3Unicast restart. (549181)
- MPLS explicit NULL termination isn't supported with flex-route configuration containing non-nibble aligned prefix length. (576801)
- If MPLS tunnels are allocated in uncountable egress banks due to transiently high scale, they can be left in an uncountable bank which will prevent traffic counters from being aggregated for these tunnels. As a workaround, a hitfull restart of the forwarding plane agent will reallocate the tunnels in countable egress banks 1 & 2. (635152)

DCS-7280R2 and DCS-7500R2 Series

- On platforms with Jericho+ switches and with large number of pseudowire patches (2500 or more) configured, disabling hierarchical FECs (HFECs) using

CLI command "ip hardware fib hierarchical next-hop disabled" may leave some patches unprogrammed and not operational.

Workaround is to save config with HFEC disabled to startup config and reload the switch. (569868)

DCS-7280R3, DCS-7500R3 and DCS-7800R3 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)
- 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)
- IP forwarded traffic that is mirrored to a GRE tunnel destination will have the PCP bits of their VLAN tag set to 0. (400909)
- Application of low rate shaping on multiple interfaces with line-rate traffic into the box will create a backlog in DRAM. Due to this majority of traffic will be served to egress from slower DRAM instead of SRAM. In the congestion state, even after the removal of shaping with line-rate traffic ingress from multiple ports, switch won't be able to deliver full throughput. The recovery from DRAM to SRAM will happen over a period of time once the congestion is removed. (414481)
- Set dcsp will not apply to mpls routed packets that egress with mpls labels (418791)
- Unidirectional links are not supported at 40G speed on QSFP100 interfaces using the CRT50216 PHY. (467672)
 SKUs Affected: 7368-16C, 7500R3-36CQ-LC, 7500R3K-36CQ-LC, 7800R3-48CQ-LC, 7800R3-48CQ2-LC, 7800R3-48CQM-LC, DCS-7280CR3-32D4, DCS-7280CR3-32D4-F, DCS-7280CR3-32D4-M-F, DCS-7280CR3-32D4-M-R, DCS-7280CR3-32D4-R, DCS-7280CR3-32P4, DCS-7280CR3-32P4-F, DCS-7280CR3-32P4-M-F, DCS-7280CR3-32P4-M-R, DCS-7280CR3-32P4-R, DCS-7280CR3-96, DCS-7280CR3-96-F, DCS-7280CR3K-32D4, DCS-7280CR3K-32D4-F, DCS-7280CR3K-32D4-R, DCS-7280CR3K-32P4, DCS-7280CR3K-32P4-F, DCS-7280CR3K-32P4-R, DCS-7280CR3K-96 and DCS-7280CR3K-96-F
- Certain speed groups are limited to one active serdes rate configuration. These speed groups are those that show only one serdes rate in the Active column of the output of "show hardware speed-group status". (486659)
- For VXLAN decapsulation + routing of overlay packet, the ECN bits may not be correctly copied from the incoming overlay packet. (489998)
- 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, 7800R3-48CQ-LC, 7800R3K-48CQ-LC, DCS-7280CR3-32D4, DCS-7280CR3-32P4, DCS-7280CR3-96, DCS-7280CR3K-32D4, DCS-7280CR3K-32P4, DCS-7280CR3K-96, DCS-7280CR3MK-32D4 and DCS-7280CR3MK-32P4

- Encapsulating PTP packets over VXLAN tunnel is not supported. (526461)
- When Hardware Accelerated Sflow is configured the uptime in sFlow datagram is updated every 1/4 of milli sec, rather than every milli sec as prescribed in sFlow standard. (531769)
- Sequence number in sFlow datagram doesn't reset to one when hardware accelerated sFlow is disabled.
The sequence number in sFlow datagram gets reset to 1 for those sFlow sub-agent when the line-card is reset/ restarted on which the sFlow sub-agent is residing. (531983)
- With loose mode uRPF configuration, the switch doesn't drop packets with an uRPF lookup (using source IP) matching a drop route. (531998)
- 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)
- If all front-panel ports are populated, and traffic load is high, an improperly programmed current limit could be exceeded generating a spurious power-off. (536331)
SKUs Affected: DCS-7280CR3-96 and DCS-7280CR3K-96
- Symmetric hashing is always on for IPv6 addresses, when both source and destination addresses are included in the applied load-balance profile. (557714)
- In transparent two-step mode, PTP packets egressing the same port with the same sequenceId may cause transient jumps in correctionField.

The workaround is to use one-step transparent clock mode (564682)

- ECN bits are not preserved during VXLAN bridge encapsulation (587486)

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

- When operating under fabric egress replication mode (`platform sand multicast replication default fabric-egress`), multicast traffic egressing (or dropped in the egress pipeline of) Ethernet ports is incorrectly counted as unicast traffic in the "Egress Queue Counters" section of the `show interfaces counters queue` command. In other words, all traffic will be counted as unicast. (488383)

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

- If a packet is mirrored to a GRE tunnel, but the forward copy is trapped to the CPU, then the ingress VLAN ID carried in the GRE key will be set to 0 when the mirrored copy is encapsulated in the GRE envelop. (434871)
- Mirroring to GRE destinations will not work if VxLAN encapsulation is enabled (548429)
- PTP v1 packet forwarding is incompatible with both Tap Aggregation BR/VN tags stripping and GUE packet decapsulation.

The workaround is to disable these features before enabling `ptp forward-v1` configuration. (572447)

- Different streams being rate-limited by the same group policer might exhibit bias towards some streams and fair policing across all the streams is not guaranteed. (578041)
Series Affected: DCS-7280CR2, DCS-7280R, DCS-7280R2, DCS-7280SR, DCS-7280SR2, DCS-7280TR, DCS-7500R and DCS-7500R2 Series
- BGP Flowspec rules will not work on SVIs if the TCAM profile does not include a "port qualifier size N", N > 1 configuration for the flow-spec features. (588565)

- L4 destination port matching in egress IP ACLs does not work on untagged bridged traffic. (609461)

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

- Only port-channel interfaces are supported as peer links. Single member port-channel interfaces are supported. (409958)
- If a packet that is decapsulated with a decap group is mirrored to a GRE tunnel, the packet's ingress VLAN will be set to 0 in the upper 2 bytes of the GRE key. (430986)
- A learnt MAC address won't age out in case there is only continuously running unicast RPF drop traffic from the source MAC. The workaround is to clear the dynamically learnt MAC from the MAC address table. Once the MAC address is cleared, the MAC address won't be learnt if all traffic with the source MAC address is dropped by unicast RPF. (536215)
- When MAC address is changed on the interface gratuitous ARP is not being sent. (536257)
- When MAC address is changed on the interface neighbor advertisement is not being sent. (539590)
- During EVPN MPLS encapsulation, the VLAN priority bits of payload Dot1Q header will be marked using the traffic-class to CoS map configuration in the global QoS map. (550987)
- Configurable router MAC address feature does not work with sampled flow tracking (IPFIX). (566813)
- Configurable router MAC address feature does not work with sFlow extension BGP. (566823)
- QoS policy-map is not supported on Pseudowire decapsulated traffic flows. (574600)
- Renamed TCAM Qualifiers l4ops_ip_pacl, l4ops_ip_qos, l4ops_ip6_pacl, and l4ops_ip_racl into l4ops_24b, l4ops_7b, l4ops_3b and l4ops_18b. This can cause customer scripts using `show platform fap pmf` command to fail if they are using any of the above renamed TCAM qualifiers. (595868)
- Routing lookup is not supported on linecards configured to use the hardware forwarding profile "system-profile-tap-aggregation." Nevertheless, some lookups may still succeed.

The workaround is to change the linecard's forwarding profile to "system-profile-default". (604835)

- On Gen4 Faps , SSO for TCAM based ACL rules is hit full. There is a brief window where ACLs are not applied to the flows. (606756)
- On Gen4 Faps , SSO is hit full for TCAM based ACL rules. (606764)
- Configuration of "encapsulation dot1q vlan ..." under a routed port is not supported. (608383)
- If a packet matches both a Tap Aggregation steering rule, as well as either a security ACL or traffic-policy rule to drop the packet, the steering policy counter will still increment. (620429)
- In L2 EVPN MPLS configuration, ARP resolution will not happen between L2 subinterfaces configured on the same parent port with same forwarding VLAN (624370)

DCS-7280R and DCS-7280R2 Series

- CBF does not work in AlgoMatch mode on some custom TCAM profiles (603206)

7300X3, 7320X, 7368, CCS-720XP, CCS-750, DCS-7010, DCS-7050X, DCS-7050X2, DCS-7050X3, DCS-7060X, DCS-7060X2, DCS-7060X4, DCS-7250X, DCS-7260X, DCS-7260X3, DCS-7300X and DCS-7300X3 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 destination: 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)
- 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, CCS-750, DCS-7050CX3, DCS-7050SX3, DCS-7050TX3, 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)
- When a VXLAN encapsulated packet is received on a VXLAN VLAN where PBR policy is applied, the switch will not PBR forward the decapsulated packet. (244093)
- 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_HWHOP_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, DCS-7050SX3-48YC8-R, DCS-7050TX3-48C8-F and DCS-7050TX3-48C8-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 'hardware nat static access-list resource sharing' is in the switch's config, and a static NAT filter ACL and a security ACL have overlapping rules, the security ACL's hit counter might not increment in all cases. Regardless of the hit counter, both the security ACL rule and the NAT filter ACL rule will be applied correctly.

Workaround is to disable static NAT ACL resource sharing with:
'no hardware nat static access-list resource sharing'
Alternative workaround is to disable port ACL in VFP with:
'platform trident tcam port-acl vfp disabled' (450080)
- 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 the incoming packet is VLAN tagged, then the truncated mirrored packet will be 4 bytes shorter than expected. (463986)
Series Affected: 7300X3, 7368, CCS-720XP, DCS-7050X3 and DCS-7060X4 Series
- 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. (473582)
- By default, configuring a static NAT rule with an empty access-list is treated the same as no access-list: for source NAT, the switch will ignore the destination IP, and vice versa for destination NAT.
With "hardware nat static access-list resource sharing" enabled, configuring a static NAT rule with an empty access-list is treated the same as an undefined access-list: some hardware resources may be consumed, but the traffic will be forwarded untranslated. (473783)
Series Affected: CCS-720XP, DCS-7050CX3 and DCS-7050X3 Series
- 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)
- When persistent port security is enabled on an interface, MAC addresses will persist when an interface is down. While the interface remains down, traffic destined to these MAC addresses will be dropped.

Persistent port security is enabled by default, and can be disabled with 'switchport port-security persistence disabled'. (485828)
- If dynamic load balancing is enabled for an ECMP group, it's member link flap might cause poor traffic distribution. Traffic distribution may improve over time. (487595)
Series Affected: DCS-7060X4 and DCS-7260X3 Series
- If dynamic load balancing is enabled for ECMP groups while the traffic is flowing, then the load on the ECMP members may not be distributed uniformly.

Traffic distribution may improve over time. (490418)

Series Affected: DCS-7060X4 and DCS-7260X3 Series

- When dynamic load balancing is enabled, If multiple traffic flows destined to the same ECMP group arrive at the same time, then the load on the ECMP members may not be distributed uniformly. Traffic distribution may improve over time. (490716)

Series Affected: DCS-7060X4 and DCS-7260X3 Series

- Packets sent from the CPU cannot be egress mirrored unless they are being sent out of an SVI. (495146)
- If the speed of an interface changes with traffic running, it is possible for "show interface counters" and "show interface counters fast-poll" to diverge on that interface. (502252)
- Egress mirroring of multicast packets that are going to be encapsulated on the switch, independent of mirroring, is not supported. (512880)
- Issuing "reboot -f" from the shell can cause continuous machine check errors, requiring a power cycle.

Instead, use the "reload" CLI command, or "reboot" in bash. (525314)

SKUs Affected: DCS-7010TX-48, DCS-7010TX-48-DC, DCS-7010TX-48-DC-F, DCS-7010TX-48-DC-R, DCS-7010TX-48-F and DCS-7010TX-48-R

- 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)
- Routing between VXLAN VLANs with VRRP is not supported. (548160)
Series Affected: DCS-7050QX, DCS-7050SX, DCS-7050TX, DCS-7050X, DCS-7060CX, DCS-7060CX2, DCS-7060SX2, DCS-7060X and DCS-7060X2 Series
- The traffic load across ports comprising a port channel(s) may be uneven for certain traffic patterns and/or port channel configuration and state.

Workaround:

- change the seed in the hashing algorithm until satisfactory result is achieved by executing configuration CLI command:

"arista(config)# port-channel load-balance trident <seed>" (555833)

- Implicit ICMPv6 permit rule(s) in TCAM is not seen in output of "show platform trident tcam acl detail" command.

Workaround is to check the entry and packet hits for the entry using output from "show platform trident tcam detail". This command shows all ACL entries in TCAM and packet hits per entry. (563228)

- Enabling L2 protocol forwarding of LLDP on a given port will implicitly enable forwarding of EAPOL and MKA packets on the same. (569478)
- Configure replace operation is not supported with TCAM profile configuration. Changing TCAM profile with configure-replace may cause an unexpected restart of forwarding agent(s) if TCAM based features like ACL, policy QoS are also part of the configuration change. (571912)

Series Affected: DCS-7050CX3 and DCS-7050SX3 Series

- Deny action is not supported on ACLs configured for filtering based packet sampling used for mirroring packets to the collector. (582014)
- BGP packets are ignored by IP counters if hardware IP counters are not enabled. (599275)
- 7304X3-FM and 7304X3-FM2 are not guaranteed to interoperate within the same chassis. 7308X3-FM and 7308X3-FM2 are not guaranteed to interoperate within the same chassis. The system will not emit any warnings. (621072)

SKUs Affected: 7304X3-FM, 7304X3-FM2, 7308X3-FM and 7308X3-FM2

- Reaching a VLAN's configured limit for locally learned dynamic MACs will not generate a syslog message. (631035)
- The "show tech-support" command does not contain output from the "show mac address-table dynamic local limit" command. (631039)
- When Port Security configuration is removed from an interface while StrataL2 agent is initializing , we can end up in a state where some MAC addresses on the interface do not get aged out and can also not be cleared via configuration.

A workaround is to flap the interface to remove the MAC addresses. (635439)

DCS-7010 Series

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

7300X3, 7320X, DCS-7060X, DCS-7260X and DCS-7300X3 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)
- Mirror To GRE destinations with multiple ECMP nexthops or LAG is not supported. A single link of the LAG or ECMP nexthops will receive all mirror traffic. (639980)

Series Affected: 7368 Series

SKUs Affected: DCS-7060DX4-32 and DCS-7060PX4-32

DCS-7260X3 Series

- 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)
- 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)
- When 'hardware counter feature gre tunnel interface in' feature is enabled, the gre tunnel interface decap counters are not incremented when subinterface is used as the ingress interface. (464972)
- Per vlan routing and sub interface are not supported together. (486439)
- "show version compatibility" CLI command reports image incompatibility when image is compatible. (547566)
SKUs Affected: DCS-7060DX4-32-F and DCS-7060PX4-32-F
- 3m QSFP-DD passive copper cables are not supported in ports 1-4 and 29-32 (639613)

SKUs Affected: DCS-7060DX4-32

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)
- L2 protocol forwarding is not supported (470496)

CCS-720XP Series

- When flow group ACL rules are changed, flow group counters displayed in "show platform trident flow counters" will continue to have counters incremented for active flows corresponding to older flow groups till the flows are aged out. (552450)

CCS-750 Series

- The switch is not capable of generating pause flowcontrol frames. (480688)
Series Affected: CCS-750 Series
- The supervisor uplink SCD does not support hitless FPGA upgrade. (528417)
SKUs Affected: CCS-750-SUP100 and CCS-750-SUP25
- The switch is not capable of generating Priority Flow Control (PFC) frames. (555294)
Series Affected: CCS-750 Series
- Per-interface WRED counters is not collected and shown. (595932)

7300X3 and DCS-7050X3 Series

- The egress queue and per hop latency of the INT terminator node are always shown as zero. (562000)

Series Affected: DCS-7050CX3 and DCS-7050SX3 Series

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. (536318)

7300X3, CCS-720XP, CCS-750, DCS-7010TX 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 MplsLabelAction even for swap operation. (416134)
- 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 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

- When IPV6 VXLAN underlay core interface is an access port on a SVI, VXLAN encapsulated packets may be sent out with VLAN tag in the outer ethernet header. The work around is to configure the port as a trunk port. (533929)
- Packets mirrored to GRE with a size within 16 bytes of the MTU limit may be dropped on egress due to exceeding the MTU size after the mirrored packet is encapsulated. (592957)
- "Dont fragment" bit is not set in the outer IP header of the VXLAN encapsulated packets when the payload is non-IP. (605003)
- When Postcard Telemetry is enabled, EVPN Multicast will not be supported. (614072)
Series Affected: 7300X3, CCS-720XP, DCS-7050SX3, DCS-7050TX3 and DCS-7050X3 Series
- ACL resource sharing feature is not supported for NAT translations of tunneled packets like VXLAN-tunneled packets.

Workaround is to turn off ACL resource sharing: "no hardware nat static access-list resource sharing" (620222)

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.