smartoptics

Release Notes

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DCP-Series: R12.1.3

This release note documents the R12.1.3 release for the DCP platform.
This is a patch release with bug fixes for RADIUS

RESOLVED BUGS

RADIUS: Login fails when Cisco ISE includes Class(25) attribute #10637

When authenticating users via RADIUS, some servers — such as Cisco ISE — may include a **Class (25)** attribute in the Access-Accept message.
Earlier DCP releases did not handle this attribute correctly, causing login attempts to fail even when valid credentials and Smartoptics Vendor-Specific Attributes (VSA, type 26) were present.This issue has been corrected.
DCP now properly parses the end of the Smartoptics VSA string and ignores unrelated attributes.

Workaround for older releases:
If upgrading is not possible, configure the RADIUS server to send the Smartoptics Vendor-Specific Attribute (type 26) **after** any other attributes, or remove extra attributes such as Class(25).

UNRESOLVED BUGS

Early CLI login after reboot or coldstart may show incomplete attributes #10037

If a user logs in too soon after a reboot or coldstart, some attributes may not be available or displayed correctly in the CLI.

Workaround (prior to fix):
Issuing the same command again a few seconds later typically resolves the issue as the system finishes initializing.

Fiber Intrusion Alarm is deactivated on reboot #10038

In a DCP-1610 system operating in crypto mode, an active Fiber Intrusion Alarm is expected to persist ("sticky") until manually cleared by the user, regardless of subsequent changes to the fiber condition. However, if the system is rebooted and the intrusion condition (e.g., an open or tampered fiber) is no longer present at startup, the alarm is incorrectly deactivated.

Workaround (prior to fix):
None available.

False Loss of Lock alarm on DCP-101 after cold start #10039

Following a cold start of the DCP-101 unit, a false “Loss of lock” alarm may be triggered. In some cases, an additional reboot is required to clear the alarm, even though the unit is functioning correctly.

Workaround (prior to fix):
None available.

OCCASIONALLY LOST COMMUNICATION WITH TRANSCEIVERS on DCP-101 #10166

1 out of 500 the alarm can stop to work for the DCP-101. This can be seen with “show inventory” and the transceivers will be missing if this is the case. To solve this issue you need to perform a cold start of the slot module.

“HIGH TEMP WARNING” ALARM ON REBOOT #10167

The fan units will start with low fan speed during boot for systems with boot loader “2016.09.01-DCPR2.1” and earlier. This means that there is a risk that high temperature alarms on QSFP-DD may be triggered during boot. This is only an issue with DCP-1203 with transceiver TQD014-TUNC-SO.

To avoid this it is recommended to upgrade the boot loader to a newer version that will start with current fan speed during boot. The upgrade of the boot loader will not happen automatically at the upgrade to R8.1.1. It is a separate process to upgrade boot loader. Contact supoort if you need help.

The current boat loader version can be seen by typing the CLI command “show version”. With II-VI High Power QSFP-DD we get “High temp warning” on reboot if the DCP-2 uses the old U-Boot.

INTERFACE DIAGNOSTICS IS SHOWING FEC ERRORS FROM ASIC INSTEAD OF QSFP-DD #10169

The FEC counters in interface diagnostics are based on the FEC counters on the ASIC instead of the QSFP-DD. The FEC counters for QSFP-DD can still be monitored as part of the coherent parameters in show interface for a specific port.

LOW/HIGH POWER ALARM NOT WORKING WITH DEFAULT SETTINGS #10190

The low and high power alarms are not working when the default settings are used. The workaround is to configure the alarm thresholds. Then the alarm thresholds will work.

FEC COUNTERS FOR SO-TQSFPDD4CCZRP STOP COUNTING AFTER TOGGLING APPLICATION CODE OR FREQUENCY #10236

There is a firmware bug in SO-TQSFPDD4CCZRP that causes FEC counters stop counting after toggling application code or frequency. This means that diagnostics will show 0 all the time for the FEC counters. It is possible to clear this fault by doing reboot, clear interface diagnostics or toggle admin status.

DCP-101 NOT WORKING WITH SO-CFP-SR10 #10258

DCP-101 failed in the regression test when SO-CFP-SR10 was used on the line side. It is not recommended to upgrade systems with SO-CFP-SR10 to R9.0.1.

PULSE SHAPE ENABLE SETTING LOST AFTER COLD START FOR SO-TQSFPDD4CCZRP WITH APP CODE 1 #10259

Pulse shaping setting is lost after cold start if SO-TQSFPDD4CCZRP is used for app code 1 and with pulse shaping is enabled. The CLI will still show enable, but the actual setting is changed to disable. It is necessary to set pulse shaping to disable first and then set enable again.

SETTING ADMIN STATUS TO DOWN WILL NOT TURN OFF LASER WHEN LASER FORCED ON IS ENABLED #10286

It is expected that the laser should be turned off when admin status is set to down, but this is not happening if laser forced on is enabled. In order to turn off the laser it is necessary to set both admin status to down and laser forced on to disable.

SETTING ADMIN STATUS TO DOWN ON 10G PORTS WILL NOT TURN OFF LASER WHEN LASER FORCED ON IS ENABLED #10288

It is expected that the laser should be turned off when admin status is set to down, but this is not happening for 10G ports if laser forced on is enabled. In order to turn off the laser it is necessary to set both admin status to down and laser forced on to disable.

TRAFFIC DOESN'T ALWAYS RECOVER AFTER COLD START OF DCP-110 WITH LR4 OR LR4-10L QSFP28 ON THE LINE #10289

In some cases the DCP-110 doesn't recover traffic after cold start when LR4 and LR4-10L QSFP28 units are used on the line side. It is possible to get the traffic back by toggling the FEC. This is done by setting the FEC to enable and disable.

SNMP DCP-INTERFACE-MIB table does not include signal format for DCP-M products #10572

For all DCP-M products, the signal format—represented in the DCP-INTERFACE-MIB under the DCPInterfaceTable as `dcpInterfaceFormat` OID—is not presented via SNMP. As a result, the signal format is also not available in SoSmart.

Workaround:
The signal format can be retrieved via the CLI.

DCP-404: Changing QSFP-DD traffic mode causing traffic interruption on next reboot #10574

When changing a grey QSFP-DD transceiver on DCP-404 from 4x100G to 3x100G, 2x100G, or 1x100G mode, the clients that should be disabled remain active. The new configuration does not take effect until the system is rebooted. This can lead to an unexpected traffic interruption during a future reboot, rather than at the time of the configuration change.

This issue has been verified with TQD023-SL4C-SO and QSFP-DD-4C-FR4-4 modules.

Workaround (prior to fix):
Perform a reboot immediately after changing the traffic mode to avoid delayed disruption.

DCP-M40-PAM4 (single-fiber): Temporary false alarms during upgrade to R12.0.x, or R12.1.x #10591

When upgrading a DCP-M40-PAM4 system from R10.x or R11.x to R12.0.x or R12.1.x while operating in single-fiber mode, transient false alarms can be reported on active channels. These events are visible in the alarm log during the upgrade window. Traffic is not affected.

Workaround:
None available.

DCP-F-RA12 does not start up automatically after loss of signal in rare cases #10592

In rare cases (approximately 1 out of 100), the DCP-F-RA12 Raman amplifier module may fail to start automatically after a loss of signal event. When this occurs, the unit remains inactive until manual intervention is performed.

Workaround (prior to fix):
Toggle the admin status to restore operation.

DCP-M32-CSO-ZR+: Management network settings lost when downgrading to R10.2.1 #10599

When downgrading a DCP-M32-CSO-ZR+ from **R12.0.x** or **R12.1.x** to **R10.2.1**, the management network configuration is reset. **IP address, subnet mask, gateway and DNS** are cleared, which removes management connectivity until the settings are reapplied.

After downgrading: Reconfigure the management IP, mask, gateway and DNS manually to restore connectivity.

Workaround:
None available.

Disabling SNMPv2c does not stop SNMPv2c traps #10612

The **Disable SNMPv2c** setting turns off **manager-initiated read requests** (GET / GETNEXT / GETBULK) only. If any SNMPv2c trap destination is configured, the device will still send **SNMPv2c traps**.
This behavior also applies to **R12.0.1** and **R12.0.2**, even though **SNMPv3 traps** are now supported.

Workaround:
Remove all **SNMPv2c trap destinations** (so only SNMPv3 destinations remain).

DCP-108: BIP errors after cold start for SO-QSFP28-100G-LR with short fiber #10631

The SO-QSFP28-100G-LR transceiver gives BIP errors after cold start in DCP-108.
This happens only when the fiber is very short.

The problem doesn't exist on other single lane optics like SR1 or FR1. It is only on the LR1.

FIELD SERVICE BULLETINS

There are no FSBs published for this release.

UPGRADE NOTES

DCP RELEASE IMAGE CHECKSUM

This is a sha256 checksum that can be used to validate the integrity of the release image.

```
6ef81db1c2e53990d65d885dbd9b659fce9841f0c9a4de2b44d548ee495e7152  build/dcp-release-12.1.3.tar
```

MIKROTIK SHELF CONTROLLER RELEASE IMAGE CHECKSUM

This is a sha256 checksum that can be used to validate the integrity of the release image.

```
e0df6940c3316ea3d65a071d999b268991e07c6dd8faaf2f3d10b9d68160a87b  build/dcp-mikrotik-container-release-12.1.3.tar
```

DCP-SC-28P SHELF CONTROLLER RELEASE IMAGE CHECKSUM

This is a sha256 checksum that can be used to validate the integrity of the release image.

```
003c628dd2fae158a7409214ee040e76a83dee3d51d27909c849d0407f5d1143  build/dcp-sc-28p-release-12.1.3.tar
```

It is possible to upgrade directly to R12.1.3 from R10.0.2 or later.

Note that downgrade from R12.1.3 to earlier release will set the units to factory default.
It is not possible to do the downgrade via SoSmart since there is a question in CLI that has to be answered.
For ROADM downgrade from R12.1.3 to 10.0.2, the flexgrid to fixgrid conversion will happen in the "set boot" action. This action will also trigger the reboot automatically.

Note that a downgrade from R12.1.3 to R10.2.1 will result in lost IP address for DCP-M32-CSO-ZR+.

Note that a downgrade from R12.1.3 for DCP-404 or DCP-1203 with TQD014-TUNC-SO and pulse shaping enabled may cause traffic interruption.

Current release version	Direct upgrade?	Upgrade via	Applies to product(s)?
R5.0.x R5.1.x R5.2.x	No	R5.3.4 -> R6.1.2	ALL
R5.3.x	No	R6.1.2	ALL
DCP-M40-C-ZRplus - 6.0.210212-beta	No*	-	DCP-M40-C-ZR+
R6.0.x	No	R6.1.2	ALL
R6.1.1	No	R6.1.2	ALL
R6.1.2	No	R8.1.7	ALL
R7.0.1	No	R8.1.7	ALL
R7.0.2	No	R8.1.7	DCP-R
R7.0.5	No	R8.1.7	DCP-R

Current release version	Direct upgrade?	Upgrade via	Applies to product(s)?
R7.1.1	No	R8.1.7	ALL
R7.1.2	No	R8.1.7	ALL
R8.0.1	No	R10.0.2	ALL
R8.1.x	No	R10.0.2	ALL
R9.0.x	No	R10.0.2	ALL
R10.x.x	Yes	-	ALL
R11.x.x	Yes	-	ALL
R12.0.1	Yes	-	All
R12.0.2	Yes	-	All
R12.1.1	Yes	-	All
R12.1.2	Yes	-	All

** Contact support for help on upgrading this product.*

When upgrading in multiple steps is required, it is strongly recommended to upgrade both sides to the same release before performing the next release upgrade step. Please refer to that specific software's release notes for information about any special considerations to take when performing an upgrade to that release.

For any other upgrade scenario, not documented in the table, please contact Smartoptics Support for assistance.

Refer to DCP-CLI User Manual for software upgrade instructions.

Note that R11.x and R12.x requires SoSmart 6.0 or later. Upgrade the nodes first and then SoSmart.

DEVIATIONS

No deviations.

SUPPORTED PRODUCTS

Notes

All DCP products supported.

Product	HW Revision(s)
PLATFORM	

Chassis & Accessories

Product	HW Revision(s)
DCP-2-FAN-FB	R1B
DCP-2-FB	R1A, R2A
DCP-2-PSU-AC-FB	
DCP-2-PSU-DC-FB	
DCP-PAS-H	R1A
DCP-SC-28P	R1A

Flexible Open Line Systems

Product	HW Revision(s)
DCP-F-A22	R1A
DCP-F-DE22	R1A
DCP-F-R22	R1A
DCP-F-RA12	R1A
DCP-F-VG	R1A
DCP-M32-CSO-ZR+	R1A
DCP-M40-C-ZR+	R1A
DCP-M40-DE-1X40	R1A
DCP-M40-DE-5X8	R1A
DCP-M40-MSO-ZR	R1A
DCP-M40-PAM4-ER	R1A, R1B, R1C, R2A
DCP-M40-PAM4-ER+	R1A, R1B, R2A
DCP-M40-PAM4-ZR	R1A, R2A
DCP-M8-PAM4	R1A
DCP-R-34D-CS	R1A
DCP-R-9D-CS	R1A
PPM-AD1-1510-2F	R1A
PPM-AD1-1625-2F	R1A
PPM-DCM10-100GHz	R1A
PPM-DCM20-100GHz	R1A
PPM-DCM40-100GHz	R1A
PPM-DCM80-100GHz	R1A
PPM-DUMMY	

Product	HW Revision(s)
PPM-OCU-50-50	R1A
PPM-OCU-97-3	R1A
SO-SHELF-CTRL-AC	R1A
SO-SHELF-CTRL-DC	R1A

Modular Transponders & Muxponders

Product	HW Revision(s)
DCP-101	R1A, R1B, R2A
DCP-108	R1A
DCP-110	R1A
DCP-1203	R1A
DCP-1610	R1A, R2A, R3A
DCP-404	R1A

End of document.