



Cisco Evolved Programmable Network Manager 2.0.3 Release Notes

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Functionality Added in Cisco EPN Manager 2.0.3

Optical Circuits/VCS

- Provisioning of an additional OTN circuit type—Optical Channel Payload Unit (OPU) over Optical Channel Data Unit (ODU). These circuits provide a high-bandwidth point-to-point connection between two customer designated premises and use ODU UNI circuits to carry client signals through the network.
- (Beta feature) Ability to create and provision two mutually diverse OCH Trail UNI circuits at the same time.



Optical Configuration:

- Support added for new line cards in Cisco NCS 4000 devices by introducing the ability to configure the framing type as Packet. The line cards can also be configured with different rates.

Configuration Archive

- You can now view details of and rollback the admin configuration on a given device. You can further use Cisco EPN Manager to upload a file with new configuration details and then deploy the configuration to devices such that the new configuration is merged with the device's existing configuration. This feature is supported on Cisco ASR 9000 and Cisco NCS 4000 devices.

GUI

- Ability to export table data to a .csv file has been further expanded; see the [Cisco Evolved Programmable Network Manager 2.0.3 User and Administrator Guide](#).

RESTCONF NBI

- Support for optical circuits provisioning and inventory retrieval.
- Multi-layer topology retrieval for optical circuits.
- Supported circuit types: OCHCC, OCHNC, OCH Trail, OCH Trail UNI, ODU UNI, ODU TUNNEL, end to end ODU circuit (OPU over ODU).
- Support for Explicit Path create, update, delete and retrieval.
- Alarm retrieval.

MTOSI NBI

- Support for provisioning and retrieval of end-to-end ODU circuits using Cisco NCS 2000 NID and ODU2 over 4000.

Device Support Information

Device/OS Support Added in Cisco EPN Manager 2.0.3

Cisco NCS 2000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 2xxx	ONS 10.6.1

Cisco ASR 9000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco ASR 9xxx	IOS XR 5.3.3

Cisco ASR 9000v Satellite Routers—New Operating System Support

Device Model	Device OS
Cisco ASRv 9xxxv	IOS XR 5.3.3

Metro Core—New Operating System Support

Device Model	Device OS
Cisco ONS 15454 devices	ONS 10.6.1

Beta Device/OS Support Added in Cisco EPN Manager 2.0.3

This section lists the new support provided in Cisco EPN Manager 2.0.3. For a list of all support information, click the gear icon at the top right of the web GUI and choose **Help > Supported Devices**.



Note

The following devices and operating systems are supported in Cisco EPN Manager 2.0.3 with limited (beta-level) functionality.

Cisco NCS 4000 Network Convergence Systems—New Operating System Support

Device Model	Device OS
Cisco NCS 40xx	IOS XR 6.1.22

Refer to [Cisco Evolved Programmable Network Manager Supported Devices](#) to see which features are supported on the devices.

Deprecated WiFi Device Support

Support for WiFi access points and WiFi controllers has been deprecated as of Cisco EPN Manager 2.0.3.

Cisco EPN Manager no longer supports the following device families:

- Cisco Catalyst 6500 Series Wireless LAN Services Module
- Cisco Aironet 340 Series Access Points
- Cisco Aironet 350 Series Access Points
- Cisco Aironet 700 Series Access Points
- Cisco Aironet 1100 Series Access Points
- Cisco Aironet 1140 Series Access Points
- Cisco Aironet 1200 Series Access Points
- Cisco Aironet 1240 Series Access Points

- Cisco Aironet 1250 Series Access Points
- Cisco Aironet 1530 Series Access Points
- Cisco Aironet 1550 Series Access Point
- Cisco Aironet 1600 Series Access Points
- Cisco Aironet 1700 Series Access Points
- Cisco Aironet 2600 Series Access Points
- Cisco Aironet 2700 Series Access Points
- Cisco Aironet 3500 Series Access Points
- Cisco Aironet 3600 Series Access Points
- Cisco Aironet 3700 Series Access Points
- Cisco 800 Series Access Points
- Cisco AP802 Integrated Access Point
- Cisco 602I Series Unified Access Points
- Cisco 702E Series Unified Access Points
- Cisco 702I Series Unified Access Points
- Cisco 702W Series Unified Access Points
- Cisco 801GN Series Unified Access Points
- Cisco 801AGN Series Unified Access Points
- Cisco 801HAGN Series Unified Access Points
- Cisco 802GN Series Unified Access Points
- Cisco 802AGN Series Unified Access Points
- Cisco 1040 Series Unified Access Points
- Cisco 1100 Series Unified Access Points
- Cisco 1130 Series Unified Access Points
- Cisco 1140 Series Unified Access Points
- Cisco 1240 Series Unified Access Points
- Cisco 1250 Series Unified Access Points
- Cisco 1260 Series Unified Access Points
- Cisco 1200 Series Unified Access Points
- Cisco 1310 Series Unified Access Points
- Cisco 1500 Series Unified Access Points
- Cisco 1520 Series Unified Access Points
- Cisco 1505 Series Unified Access Points
- Cisco 1530I Series Unified Access Points
- Cisco 1530E Series Unified Access Points
- Cisco 1550 Series Unified Access Points
- Cisco 1562E Series Unified Access Points
- Cisco 1562I Series Unified Access Points

- Cisco 1562D Series Unified Access Points
- Cisco 1570E Series Unified Access Points
- Cisco 1570I Series Unified Access Points
- Cisco 1600I Series Unified Access Points
- Cisco 1600E Series Unified Access Points
- Cisco 1700I Series Unified Access Points
- Cisco 1700E Series Unified Access Points
- Cisco 1810W Series Unified Access Points
- Cisco 1815I Series Unified Access Points
- Cisco 1830I Series Unified Access Points
- Cisco 1850I Series Unified Access Points
- Cisco 1850E Series Unified Access Points
- Cisco 2600I Series Unified Access Points
- Cisco 2600E Series Unified Access Points
- Cisco 2700E Series Unified Access Points
- Cisco 2700I Series Unified Access Points
- Cisco 2800I Series Unified Access Points
- Cisco 2800E Series Unified Access Points
- Cisco 3201 Series Unified Access Points
- Cisco 3500I Series Unified Access Points
- Cisco 3500E Series Unified Access Points
- Cisco 3500P Series Unified Access Points
- Cisco 3600I Series Unified Access Points
- Cisco 3600E Series Unified Access Points
- Cisco 3600P Series Unified Access Points
- Cisco 3700I Series Unified Access Points
- Cisco 3700E Series Unified Access Points
- Cisco 3700P Series Unified Access Points
- Cisco IW3700 Series Unified Access Points
- Cisco 3800I Series Unified Access Points
- Cisco 38500E Series Unified Access Points
- Cisco 5212 Series Unified Access Points
- Cisco 5312 Series Unified Access Points
- Cisco MIMO Series Unified Access Points
- Cisco UNKNOWN Series Unified Access Points
- Aruba 40 Series Access Points
- Aruba 41 Series Access Points
- Aruba 50 Series Access Points

- Aruba 52 Series Access Points
- Aruba 60 Series Access Points
- Aruba 60P Series Access Points
- Aruba 61 Series Access Points
- Aruba 65 Series Access Points
- Aruba 65WB Series Access Points
- Aruba 68 Series Access Points
- Aruba 68P Series Access Points
- Aruba 70 Series Access Points
- Aruba 80S and M Series Access Points
- Aruba 80MB Series Access Points
- Aruba 80SB Series Access Points
- Aruba 85 Series Access Points
- Aruba 92 Series Access Points
- Aruba 93 Series Access Points
- Aruba 105 Series Access Points
- Aruba 120 Series Access Points
- Aruba 120 ABG Series Access Points
- Aruba 121 Series Access Points
- Aruba 121 ABG Series Access Points
- Aruba 124 Series Access Points
- Aruba 124 ABG Series Access Points
- Aruba 125 Series Access Points
- Aruba 125 APG Series Access Points
- Aruba 134 Series Access Points
- Aruba 135 Series Access Points
- Aruba 175P Series Access Points
- Aruba 175AC Series Access Points
- Aruba 175DC Series Access Points
- Aruba WG102 Series Access Points
- Aruba Wall Jack 61 Series Access Points
- Aruba Duo Series Access Points
- Aruba Duo WJ Series Access Points
- Aruba 2E Series Access Points
- Aruba 651 Series Access Points
- Aruba 1200 Series Access Points
- Aruba 1250 Series Access Points
- Aruba MW1700 Series Access Points

- Aruba RAP 2WG Series Access Points
- Aruba reserved4 Series Access Points
- Aruba reserved6 Series Access Points
- Aruba reserved7 Series Access Points
- Aruba reserved8 Series Access Points
- Aruba RAP 5 Series Access Points
- Aruba RAP 5WN Series Access Points
- Aruba Undefined Series Access Points
- Cisco 2000 Series Wireless LAN Controllers
- Cisco 2100 Series Wireless LAN Controllers
- Cisco 4400 Series Wireless LAN Controllers
- Cisco Catalyst 3750 Series Integrated Wireless LAN Controllers
- Cisco 2500 Series Wireless LAN Controllers
- Cisco 5500 Series Wireless LAN Controllers
- Cisco 5760 Series Wireless LAN Controller
- Cisco Flex 7500 Series Wireless LAN Controllers
- Cisco 8500 Series Wireless LAN Controllers
- Cisco VIRTUAL Series Wireless LAN Controllers

Installation Overview

The following table lists the mandatory installation paths for Cisco EPN Manager .

Note that:

- PP = *Point Patch*
- Cisco EPN Manager 2.0.2 = Cisco EPN Manager 2.0 *Maintenance Pack 2*
- Cisco EPN Manager 2.0.3 = Cisco EPN Manager 2.0 *Maintenance Pack 3*

If you have this deployment:	You must perform these steps to install Cisco EPN Manager 2.0.3:
Cisco EPN Manager is not installed (fresh installation)	<ol style="list-style-type: none"> 1. Install Cisco EPN Manager 2.0—See Cisco EPN Manager 2.0 Installation Guide 2. Install Cisco EPN Manager 2.0 PP2—See Cisco EPN Manager 2.0 Release Notes 3. Install Cisco EPN Manager 2.0.3—See Cisco EPN Manager 2.0.3 Installation Guide

If you have this deployment:	You must perform these steps to install Cisco EPN Manager 2.0.3:
Cisco EPN Manager 1.2.x	<ol style="list-style-type: none"> 1. Upgrade to Cisco EPN Manager 2.0—See Cisco EPN Manager 2.0 Installation Guide 2. Install Cisco EPN Manager 2.0 PP2—See Cisco EPN Manager 2.0 Release Notes 3. Install Cisco EPN Manager 2.0.3—See Cisco EPN Manager 2.0.3 Installation Guide
Cisco EPN Manager 2.0.x	<ol style="list-style-type: none"> 1. Make sure Cisco EPN Manager 2.0 PP2 is installed (right-click the gear icon at the top right of the web GUI window, click About Cisco EPN Manager, click the View Installed Updates links in the popup window) and verify that EPN Manager Point Patch 2.0.0 is listed). 2. Install Cisco EPN Manager 2.0.2—See Cisco EPN Manager 2.0.2 Installation Guide 3. Install Cisco EPN Manager 2.0.3—See Cisco EPN Manager 2.0.3 Installation Guide

Important Notes

Required User Role Settings

NBI permissions must be set for Super User, Config Manager, Admin, and System Monitoring users to ensure optimal functioning when performing the following actions:

- Service provisioning
- Config activation
- Performance dashboard viewing

To set NBI permissions for users, go to **Administration > Users > Users, Roles & AAA > Users** and do the following for each user:

1. Click on the user name link.
2. In the User Details page, under **Groups Assigned to this User**, select the **NBI Read** and **NBI Write** check boxes.
3. Click **Save**.

Reconciliation Report Limitations

When provisioning a service, if you have not provided a value for any of the attributes, the provisioned value for those attributes will be displayed as “Missing” in the reconciliation report. The device may have default values for these attributes but Cisco EPN Manager does not have any values configured.

Cisco EPN Manager Bugs

Open Bugs

Table 1 lists the open bugs in Cisco EPN Manager Release 2.0.3 according to the following criteria:

- Severity 1, 2, and high priority severity 3 open bugs
- All open customer-found bugs

Click the identifier to view the impact and workaround for the bug in the [Bug Search Tool](#). Use this tool to track the status of the open bugs.

Table 1 **Open Bugs**

Identifier	Description
CSCux50711	ASR907: device inventory returns FAN details in power modules section
CSCva92785	View360 shows 20CS for module rather than 10CS
CSCvb25082	MPLS_TE: MPLS DB tables are not flushed after deleting the devices
CSCvb27385	EVP-Tree modification with QOS fails
CSCvb59211	Performance data not polled for NCS1K optical Ports
CSCCuy58866	Device Timestamp not displayed for \"Show All\" context
CSCCuy95305	Cisco Evolved Programmable NM Prime Infrastructure Updates
CSCCuz26687	NCS42xx-Inventory: duplicate SONET entries for STS concatenation
CSCCuz84623	CV: Satellite device inventory data missing
CSCva54469	Scheduled 1 Day Optical Performance Reports Run Results have no data
CSCvb21367	MPLS TE tunnel settings total bandwidth and available bandwidth not updated with zero
CSCvb57669	NCS4K discovery- repeated show commands execution
CSCvb80360	EVPL with oam in deletion does not remove the sla negate commands
CSCCuw80244	The \"Filter\" Icon in Alarms and Events does not function as expected.
CSCCux75310	Some event message details are obstructed in EPNM Events detail window.
CSCvb64742	Alarms window (tab) drop-down filter list is blank
CSCvb67689	CPAK Lane missing in the Multi-trace for NCS4K

Resolved Bugs

Table 2 lists the resolved bugs in Cisco EPN Manager Release 2.0.3.

For more information about the resolved bugs, go to the [Bug Search Tool](#).

Table 2 **Resolved Bugs**

Identifier	Description
CSCva79729	NCS4k 6.1.2 historical optical physical PM reports issue

Table 2 **Resolved Bugs**

CSCva92407	Device inventory collection failure
CSCvb11493	NCS1K: Collection failure observed in the device
CSCvb14506	SIT - nodes in permanent synchronization
CSCvb15668	InterfaceProcolEndpoint table records are deleted in granular inventory
CSCvb19569	NCS42xx collection failure -mplsTE.MplsTeTunnelLspDestinationPath
CSCvb28714	Saving advanced user defined filter renders filter inoperable
CSCvb34484	OCH Trail circuits unable to be deleted from EPNM
CSCvb37909	Circuit deploy/preview failure in Cox
CSCvb48353	Cannot edit or delete OCH trail due to 500 errors
CSCvb69450	Collection failure for IOS-XR and IOS devices for specific BVI use-case
CSCvb79853	Brownfield EVPL service having 2 EVCLinks for a single service
CSCvb87770	ASR903 Collection failure due to OspfPepSettings is null
CSCus58635	NCS2K:Service state displayed as IS-NR in EPN instead of OOS-AU,FLT
CSCuy29898	NCS2K: FC/FICON Inventory page throwing exception after payload change
CSCuy31252	NCS4K: Reactive Sync not triggered on Create/Delete of Ethernet-packet
CSCuy71428	NCS4K: Tengige Interface details displayed on termination changed to None
CSCuz64589	Port name not set with reactive
CSCuz67955	NCS4K: On clicking ODU Interfaces breadcrumb NCS1k Menu is displayed
CSCva12089	Restoration status isn't updated after a restore of fiber cut
CSCva17960	MtosiTerminationPoint- Parallel process run during device inv/discovery
CSCva43897	Can see information about\" Inaccessible\" device in Circuit details
CSCva61258	NCS4k Intra Node LMP Patchcord not getting deleted
CSCva63292	ODU Tunnel/UNI 1+1 circuit discovery PARTIAL when both path crossing MID
CSCva63578	QoS job completion takes too much time.
CSCva65556	NCS4k: GCC Interface page displayed with Unknown Exception Error
CSCva66000	Edit OCHTRAIL work property doesn't show correct values
CSCva76355	NCS4K-DC-PEM power entry module power trays not discovered
CSCva76533	OCH-Trail UNI ckt create completion and discovery is extremely long
CSCva77667	After Manual revert circuit in partial or MLT cannot be opened
CSCva77876	Missing constraints in CEPNM for circuits created from CTC
CSCva87820	Serviceability is showing unavailable for CE,L3VPN and CEM services
CSCva92826	SetTP for a few otn/odu settings for NCS4K fails in NBI
CSCva94074	NCS4k: Issue with delete of Breakout lane
CSCva94310	Assurance: Graphical Reports saved with All Interfaces Criteria

Table 2 **Resolved Bugs**

CSCva94662	Device deletion fails for ASR903 in Completed State
CSCva95920	Incomplete real time PM data displayed in lane 0 & 9 for breakout card
CSCva96710	NCS4k: Configuration of Wavelength ending with 0 is failing
CSCva97589	Incorrect mandatory parameters in Profile of OCHTRAIL-UNI
CSCva98146	NCS1K:OS type is not displayed for NCS1k
CSCva99572	Scale:Interface performance dashboard took 6M to load the default view
CSCva99934	OAM actions in Circuit 360 causing navigation issues
CSCvb00247	Circuit history: row in reference to circuit deleted row is missing
CSCvb01202	[scale]-NCS2k Inventory Collections gets hanged after 600 devices
CSCvb01593	Empty Protection field in ODU UNI Circuit-VC Details page
CSCvb05209	Preferred Wavelength not shown in OCHTRAIL-UNI
CSCvb05307	OAM traceroute Visual tab displays an node without any details
CSCvb08949	Alarm counts variation in cache to be documented
CSCvb10844	MP2:validation required for matching the device, vrf and UNI details
CSCvb11380	NCS4k: CEPNM doesn't update after a WL setting
CSCvb11686	NCS4k: Unknown exception error displayed in Ethernet Interfaces page
CSCvb13822	Overlay and MLT does not work on OTUC2/ODUC2 TE link (Sauron)
CSCvb14023	Circuit created from CTC discovered in Serviceability State Down
CSCvb14356	NCS4K:GCC controllers MTU value displayed as 0
CSCvb14397	ETREE brownfield : no merge between EvcLink objects
CSCvb14450	PwProtocolEndpoint is not discovered for "\I2vpn xconnect context\" config
CSCvb14626	Buttons wrongly enabled in the Constraints panel editing OCHCC circuits
CSCvb15990	Mandatory symbol (*) is missing for sync-E config
CSCvb16005	NCS4k: Breakout lane create from EPNM not displayed after reactive sync
CSCvb16400	Wrong constraints management in EPNM
CSCvb19236	Unexpected Serviceability State Down in CEPNM on a discovered circuit
CSCvb19544	NCS2k: Interfaces getting disappears when Squelch mode configured as LF
CSCvb21173	ERROR 500 reported editing a discovered circuit
CSCvb21263	Partial Collection Failure: 10x10G-LC in REGEN mode without pluggables
CSCvb21293	NCS2k Image tab empty
CSCvb21738	Error msg shown wn same Alarm Profile is applied to multiple cards
CSCvb22582	Constraints modifications are ignored, Preview not matching changes made
CSCvb25696	Error message while delete termination point
CSCvb26165	NBI Restconf: Failed to Cease Eline services with partial service

Table 2 **Resolved Bugs**

CSCvb27042	Option to view service failure detail is not available
CSCvb27062	NBIRestconf:Failed to create/amend Elan/Etree with existing unmgnd ele
CSCvb28561	Extend error log of nms-assurance to show stack trace upon exception
CSCvb29094	Missing support for Y1564 Test on NCS4202 Device
CSCvb30424	NCS2K - 200G-CK-LC + MR-MXP + SUBOPMODE=2x40G+2x10G - Collection Failure
CSCvb30486	NCS2K - OCHCC WSON - Splitter protected - Wrong protection OCHTrail name
CSCvb30506	Missing overlay if crossed link is in a bundle together with constraints
CSCvb33048	Techpack deploy fails with error when UI is customized prior to install
CSCvb38204	PROTOCOLENDPOINT_ID association missing
CSCvb38379	OCHTRAIL-UNI incorrect after editing WSON settings from other tool
CSCvb39689	Using the EPNM GUI to delete a 4K optical patch cord fails to complete.
CSCvb39807	Some IPSLA probes statistics are missing
CSCvb42498	Partial Collection Failure creating an OCHCC circuit from TL1
CSCvb44460	Partial Collection Failure on DWDM nodes crossed by more than 80 chan
CSCvb46093	NBI Restconf:Failed to perform Cease having multiple service instances
CSCvb48502	Multilayer trace fails to open on a DWDM circuit created from EPNM that is crossing several spans
CSCvb48951	Circuit in Serviceability State Down after restoration and revert
CSCvb56582	Exported files shall contain the client timezone specified- IST
CSCvb58063	OCH-Trail-UNI circuit wizards fails to open due to duplicate OpticalUniRFS object in the database
CSCvb64170	EVPL Modification failure due to HibernateOptimisticLockingFailureException
CSCvb64275	CEM Service modification - egress QoS field to be hidden, QoS policy to be displayed in modify flow
CSCvb64314	Topology user preferences are missing
CSCvb64597	Provisioning of OCH-Trail UNI fails due to UNAVAILABLE Service State of Optical UNI
CSCvb73245	Invalid command in 1.2 EPNM Admin Guide detected
CSCvb76008	VCID auto generated in unamanged with big number showing 500 error before preview
CSCvb78401	Explicit Path not updated in DB (EPNM 2.0.2 PP3)
CSCvb84393	EPtree delete throws Hibernate exception
CSCux15033	EPNM ODU UNI details displays 1+1 instead of 1+R for restored circuits
CSCva63016	ComboBox/Dropdown already saved value not getting selected on Edit
CSCvb02460	CV:Icon to maximize the alarm window not visible completely.
CSCvb38063	E2E:Proper Error message needed when duplicate vlanid is given for same port

Table 2 **Resolved Bugs**

CSCvb48260	\ "snmp-server host\" command is missing in Configure Devices section in user guide
CSCvb62654	No validation error while naming policymap in digits
CSCvb84942	MTOSI API to create ODU UNI is giving 'Internal error' instead of saying port is in used
CSCvb33364	Confluence Health monitor showing Static version
CSCva95887	Report Scan errors along with reason for failure
CSCvb11612	Port with default encap allowed to provisin CE-dot1q after sync also
CSCvb39839	Increase TL1 timeout on event session
CSCvb63280	Avoid slow method on InventoryService
CSCvb63285	Introduce customizable delay in PrioritizedEventsFlowController
CSCvb64260	Remove event-based inventory link with device-package for NCS4k

Get Information About Cisco EPN Manager Bugs

Use the Bug Search tool (BST) to get the latest information about Cisco EPN Manager bugs. BST allows partners and customers to search for software bugs based on product, release, and keyword, and it aggregates key data such as bug details, product, and version.

Cisco EPN Manager bugs may be caused by defects in a device's platform or operating system. In those cases, the Cisco EPN Manager bug will be resolved when the hardware/operating system bug is resolved.

Step 1 Log into the Bug Search Tool.

- a. Go to <https://tools.cisco.com/bugsearch/>.
- b. At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**.



Note If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.

Step 2 To list all bugs for this version, click the **Select from list** hyperlink that is next to the Product field and select the product.

- a. Choose **Cloud and Systems Management > Routing and Switching Management > Cisco Evolved Programmable Network (EPN) Manager** and then select the required product version.
- b. When the results are displayed, use the filter and sort tools to find bugs according to their status, severity, how recently they were modified, if any support cases are associated with them, and so forth.

You can also search using bug IDs or keywords. For more information, click **Help** at the top right of the Bug Search page.

Related Documentation

For a list of all documentation available for Cisco EPN Manager 2.0.3, see the [Cisco Evolved Programmable Network Manager 2.0.3 Documentation Overview](#). The documentation overview also lists several Cisco Prime Infrastructure documents because the content of those documents is relevant to Cisco EPN Manager 2.0.3.

Accessibility Features in Cisco EPN Manager 2.0.3

For a list of accessibility features in Cisco EPN Manager 2.0.3, please contact accessibility@cisco.com.

All product documents are accessible except for images, graphics and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact accessibility@cisco.com.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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