Release Notes for Cisco Smart PHY and Cisco Operations Hub 22.3.1

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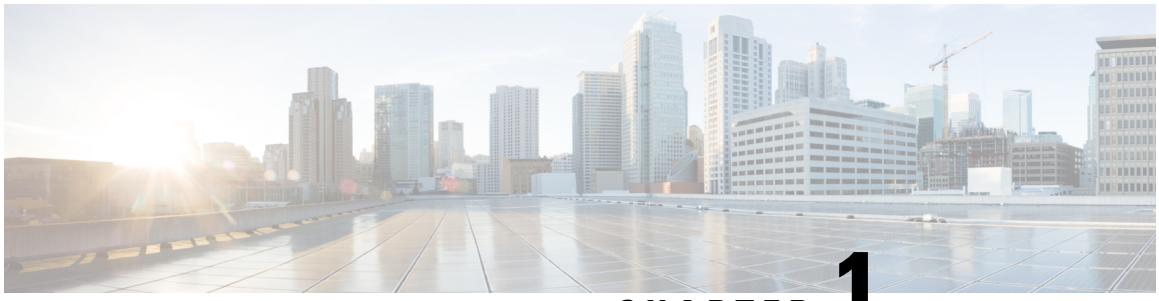


CHAPTER 1

What's New

Note Explore the Content Hub, the all new portal that offers an enhanced product documentation experience.

- Use faceted search to locate content that is most relevant to you.
- Create customized PDFs for ready reference.
- Benefit from context-based recommendations.

Get started with the Content Hub at content.cisco.com to craft a personalized documentation experience.

Do provide feedback about your experience with the Content Hub.

Cisco is continuously enhancing the product with every release and this section covers a brief description of key features and enhancements that were added. It also includes links to detailed documentation, where available.

- New Features for Cisco Smart PHY and Cisco Operations Hub 22.3.1, on page 1
- New Features for Cisco Smart PHY and Cisco Operations Hub 22.3, on page 1

New Features for Cisco Smart PHY and Cisco Operations Hub 22.3.1

Cisco Smart PHY and Cisco Operations Hub 22.3.1 is a maintenance release and contains no new features.

New Features for Cisco Smart PHY and Cisco Operations Hub 22.3

Feature	Description
Infrastructure Improvements	

Feature	Description
Path Based URL Enhancements	Deployer VM supports path-based URL. Smart PHY only needs two DNS entries as a prerequisite for installation. • `cluster.example.com` (DNS entry for Cluster) • `deployer.example.com` (DNS entry for Deployer)
LDAP Connectivity checks	When adding an LDAP configuration, you can perform a connectivity check and verify end-to-end LDAP connectivity. You need valid user credentials along with LDAP configuration, to perform the connectivity check. If you trigger **Validate LDAP Configuration** and if there is LDAP connectivity failure, then an error message with the reason of failure is displayed.
K8 Version	K8 version is upgraded to 1.22.
Auto-deploy change	• Auto-deploy has **ansible playbook** capabilities for better control and flexibility during installation and upgrading processes. To run this **ansible playbook**, you must copy the cluster VMs SSH private key to the upgrade location in the staging server. • A Cluster recovery mechanism is added which recovers the cluster if the first sync attempt fails during the cluster upgrade. As part of the recovery process all cluster VMs are recreated without data loss. • Secure boot can be enabled through autodeployer day0 configuration during fresh installation.

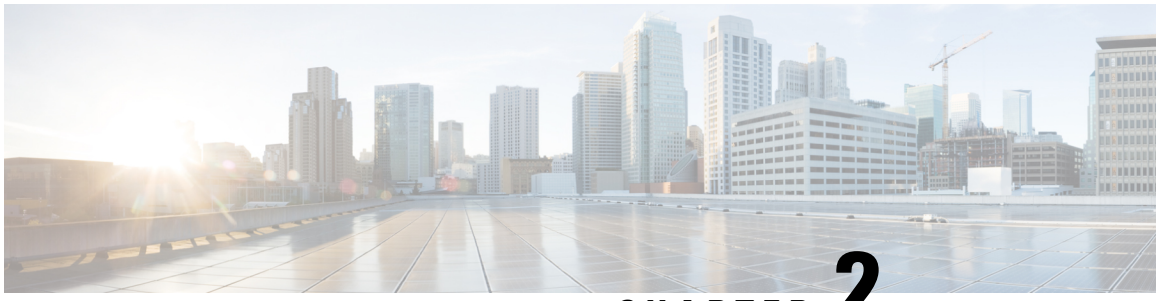
Feature	Description
Debuggability Enhancements	
TAC Debug Package	TAC Debug Packages are collections of logs and other operational data that can be easily shared with Cisco TAC Engineers. You can collect the information from Operations Hub GUI. The latest TAC Debug package is visible on top. You can delete or download the package on demand.
Dashboard Updates	Miscellaneous changes in Kibana dashboard are performed to make the log information more comprehensive. There is also a dedicated Smart PHY debug log dashboard.

Feature	Description
RPD Provisioning Enhancements	
US port description	• Smart PHY can be used to set a description for the Upstream Port level. Description can be set while creating and editing RPD operations. RPD-US Port Description can be set at Port 0, Port 1 or both Port 0 and Port 1 based on RPD segmentation (1x1, 1x2 and 2x2). • RPD US Port Description can be Imported & Exported • US Port Description is not a service impacting change.

Feature	Description
Shelf and Base Power Enhancements	When RPD is provisioned as a "SHELF", the `typeshelf` CLI is pushed to both Principal and Aux Core(s). Along with Base-power, if Tilt Pivot Freq and Tilt Slope are configured, then they are also be pushed to all the cores.
DB Backup	DB backup also includes Tag information.

Feature	Description
Smart PHY Upgrade	
Smart PHY Upgrade	Smart PHY 22.3 is upgrade ready. Upgrade path must be Cisco Smart PHY 22.2 > Cisco Smart PHY 22.2.1 > Cisco Smart PHY 22.3.

Feature	Description
Service Definition Enhancements	
Latest Service Definition	You can assign the latest service definition to one or more RPDs in RPD Association page. Smart PHY handles service affecting changes smartly and reprovisions the RPDs in case service affecting changes are applicable in the latest version of the Service Definition.
RPD Fetch	[API Only] You can fetch RPDs that are not running on the latest service definition.



CHAPTER 2

Caveats

This chapter describes open severity 1 and 2 caveats and select severity 3 caveats.

The *Open Caveats* section lists open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.

The bug IDs are sorted alphanumerically.

The *Caveats* section includes the bug ID and a short description of the bug. For details on the symptoms, conditions, and workaround for a specific caveat you must use the Bug Search Tool.

- Open Caveats in Cisco Smart PHY 22.3.1, on page 5
- Resolved Caveats in Cisco Smart PHY 22.3.1, on page 5
- Open Caveats in Cisco Smart PHY 22.3, on page 6
- Resolved Caveats in Cisco Smart PHY 22.3, on page 6
- Cisco Bug Search, on page 6

Open Caveats in Cisco Smart PHY 22.3.1

There are no new open caveats in the Cisco Smart PHY 22.3.1 release. See Open Caveats in Cisco Smart PHY 22.3.

Resolved Caveats in Cisco Smart PHY 22.3.1

Identifier	Headline
CSCwd63129	Periodic Check Sync operation stops abruptly for cBR8 devices, when moved to Resume Normal Operation.
CSCwd60180	CBR8 struct at SSH key Fetch, CBR8 is not coming online.
CSCwd60181	Optimize NSO query for Service Definition parameters
CSCwd43462	RPD provisioning in cBR-8 can be slow if only robot-cfgsvc (NSO) pod is restarted

Open Caveats in Cisco Smart PHY 22.3

Identifier	Headline
CSCwd03475	Kafka cluster not in working state after an abrupt cluster restart
CSCwd22136	2x2 RPD all 4 fiber-nodes are using same mac domain
CSCwd31930	cluster sync failed during fresh installation.
CSCwd31934	Autodeployer post check is having false positive errors for stale pods.
CSCwd43462	RPD provisioning in cBR8 can be slow if only robot-cfgsvc (NSO) pod is restarted
CSCwf18638	RPD page When configure secondUpstreamVarpdProfile as empty seeing Null pointer exception.

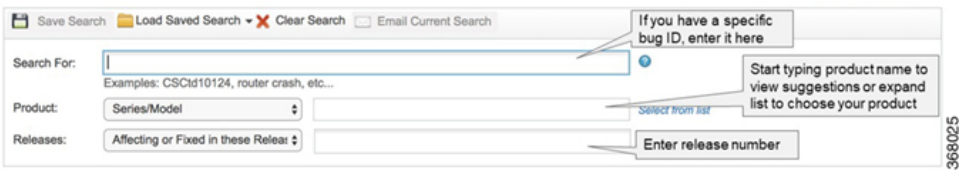
Resolved Caveats in Cisco Smart PHY 22.3

Identifier	Headline
CSCwb06506	No error message shown when 2x2 specific service definition changes are pushed to 1x1 RPDs
CSCwc23765	In-place upgrade to 22.2 will fail when vCenter password is changed sometime after the 22.1 install.
CSCwc27833	In MN cluster deployments, Kibana may go into crash-loop after a SW upgrade from 22.1 to 22.2.1
CSCwc31701	RPD Associations UI: tag details are not updated on the table when RPD is edited
CSCwd00479	Unable to export db on smartphy cluster

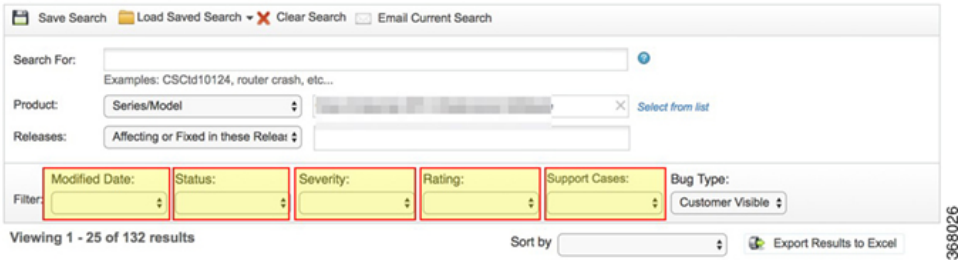
Cisco Bug Search

Use the Cisco Bug Search Tool to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.



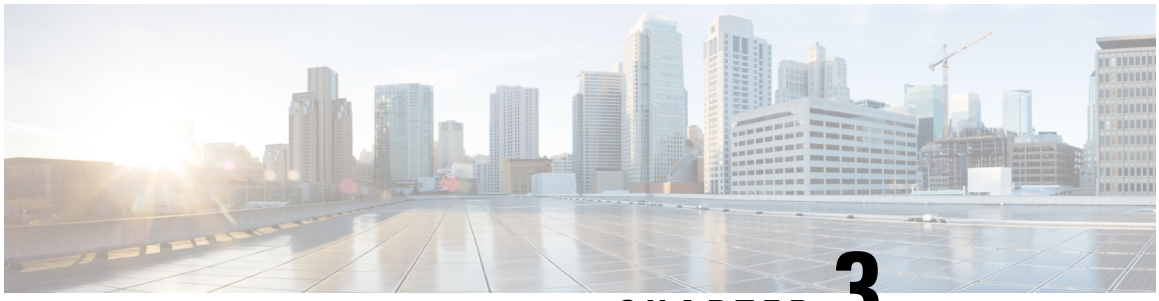
You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.



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.

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the What's New in Cisco Product Documentation RSS feed. The RSS feeds are a free service.



CHAPTER 3

Other Important Information

- Software Version Compatibility For Cisco Smart PHY 22.3.1, on page 9
- Software Version Compatibility For Cisco Smart PHY 22.3, on page 9
- Cisco Smart PHY Documentation References, on page 10

Software Version Compatibility For Cisco Smart PHY 22.3.1

The following table shows the supported web browsers and the versions of Cisco cBR-8 router and RPD that are compatible to Cisco Smart PHY application 22.3.1

Browser Version	Cisco cBR-8 Router Version	Cisco RPD Version
• Mozilla Firefox Version 101 and later • Google Chrome Version 102 and later • Microsoft Edge Version 102 and later	• Cisco IOS XE Cupertino 17.9.1x • Cisco IOS XE Cupertino 17.9.1w • Cisco IOS XE Bengaluru 17.6.1z1 and Cisco IOS XE Bengaluru 17.6.1z • Cisco IOS XE Gibraltar 16.12.1z2 and Cisco IOS XE Gibraltar 16.12.1z2 ES	• Cisco RPD 10.5 (Compatible with Cisco IOS XE Cupertino 17.9.1x) • Cisco RPD 10.4 (Compatible with Cisco IOS XE Cupertino 17.9.1x, Cisco IOS XE Cupertino 17.9.1w, Cisco IOS XE Bengaluru 17.6.1z1 and Cisco IOS XE Bengaluru 17.6.1z) **Note** RPD version should be compatible with cBR-8 versions.

Software Version Compatibility For Cisco Smart PHY 22.3

The following table shows the supported web browsers and the versions of Cisco cBR-8 router and RPD that are compatible to Cisco Smart PHY application 22.3.

Browser Version	Cisco cBR-8 Router Version	Cisco RPD Version
• Mozilla Firefox Version 101 and later • Google Chrome Version 102 and later • Microsoft Edge Version 102 and later	• Cisco IOS XE Cupertino 17.9.1x • Cisco IOS XE Cupertino 17.9.1w • Cisco IOS XE Bengaluru 17.6.1z1 and Cisco IOS XE Bengaluru 17.6.1z • Cisco IOS XE Gibraltar 16.12.1z2 and Cisco IOS XE Gibraltar 16.12.1z2 ES	• Cisco RPD 10.5 (Compatible with Cisco IOS XE Cupertino 17.9.1x) • Cisco RPD 10.4 (Compatible with Cisco IOS XE Cupertino 17.9.1x, Cisco IOS XE Cupertino 17.9.1w, Cisco IOS XE Bengaluru 17.6.1z1 and Cisco IOS XE Bengaluru 17.6.1z) **Note** RPD version should be compatible with cBR-8 versions.

Cisco Smart PHY Documentation References

We recommend that you view the field notices for this release to see if your software or hardware platforms are affected. If you have an account at Cisco.com, you can find the field notices at http://www.cisco.com/en/US/customer/support/tsd_products_field_notice_summary.html.

If you do not have an account at Cisco.com, you can find the field notices at http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html.

Note Cisco Smart PHY is generally available for field deployment. However, we recommend that you validate and qualify Cisco Smart PHY in a limited field trial with your specific network configuration requirements in order to ensure a smoother, faster, and successful field deployment.

For information on Cisco Smart PHY, go through the following links:

- Cisco Smart PHY Install and Upgrade Guides
- Cisco Smart PHY User Guide
- Cisco Operations Hub and Smart PHY REST API Guide
- Cisco Smart PHY Other Product Documentation