



What's New in Cisco Smart PHY 21.3



- 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 in Cisco Smart PHY 21.3, on page 1](#)

New Features in Cisco Smart PHY 21.3

New software features for Cisco Smart PHY 21.3 are the following:

Cisco Operations Hub Integration

Cisco Smart PHY application is integrated with the Cisco Operations Hub base platform.

Using the Cisco Operations Hub platform, Cisco Smart PHY provides the following functionalities:

- Common login interface
- RBAC, user management, LDAP support
- Simpler password management
- Integrated Grafana and Swagger
- Log management

Upgrade Core Cloud Native Infrastructure Components

- Kubernetes: Upgraded to v1.21
- Docker: Upgraded to v19
- Helm: Upgraded to v3.

Support for Cisco IOS XE Bengaluru 17.6.1a and 17.6.1w

Cisco IOS XE Bengaluru 17.6.1a introduced new DPIC interface control-mapping restrictions and features applicable to the CBR-CCAP-LC-G2-R line card, including 32 SG/MAC Domains and 32 video service groups.

With this release, Cisco Smart PHY also supports the ability to configure 32 SG/MAC Domains and 32 video service groups on CBR-CCAP-LC-G2-R line cards running Cisco IOS XE Bengaluru 17.6.1a or later.

Through the Cisco Smart PHY application, you can configure up to 20 virtual out-of-band modulators (VOM), as the Cisco IOS XE Bengaluru 17.6.1w increased the scale of virtual out-of-band modulators (VOM) 10–20.

Deployment Enhancements and FQDN Support for Deployer

- Cisco Smart PHY supports FQDN on the Deployer VM.
- With this release, Cisco Smart PHY introduces a parameter called cluster size. The multinode installation supports two different sizes of clusters: Small and Normal.

Dynamic Editing of Service Definition Parameters

You can edit and save service definition parameters even after RPD association. Editable parameters are of two categories:

- Non service-affecting
- Service-affecting

After saving the non service-affecting updates, you can choose the RPD pairs which must be updated. Based on your selection, Cisco Smart PHY applies the updated CLI configurations to the appropriate Cisco cBR-8 routers. These updates are incremental to the existing configurations on Cisco cBR-8 routers. The CLI configuration pushed for new RPD pairings that are created after the updates were saved, reflects the latest values.

Non service-affecting parameters are the following:

- Description
- Event Profile
- R-DTI Profile
- US Controller Profile
- Network Delay
- DS VOM ID & Profile
- US VARPD ID & Profile

- Second US VARP ID
- NDF and NDR

You can save only the service-affecting parameters. The saved parameters cannot be applied to the existing RPD pairings because these updates affect the Cisco cBR-8 router configuration and results in `config push error`. The CLI configuration pushed for new RPD pairings that are created after the updates were saved, reflects the latest values.

Parameters marked in the Cisco Smart PHY UI with the flag icon are service-affecting. The service affecting parameters are the following:

- Pilot Tone Profile
- Cable DSG TGs
- Enable Mac Domain Splitting
- Service Group Profile (First and second DS/US Pairing)
- DS Controller Profile (First and second DS/US Pairing)

Enhancements to APIs

GCP redirect APIs

Cisco Smart PHY introduces three GCP redirect APIs in this release.

- `set-redirect-version`: To add GCP redirect version details.
- `remove-redirect-version`: To remove GCP redirect version details.
- `query-redirect-version`: To query all GCP redirect version details from the Cisco Smart PHY application.

Bulk Inventory APIs

Introducing bulk inventory APIs to add and edit the configuration details for Cisco cBR-8 routers, RPDs, or both using a CSV file.

