

# **Information about Cisco Smart PHY**

The Cisco Smart PHY application simplifies the installation, configuration, monitoring, and troubleshooting of Remote PHY Devices (RPD) serviced by Cisco cBR-8 routers. It enables multiple use cases, including:

- Distributed Access Architecture (DAA) deployment simplification
- RPD deployment automation
- RPD software lifecycle management
- CIN Traffic engineering
- Common DHCP policy

These are some general instructions and information for using the Cisco Smart PHY:

lcon	Description
G	<b>Information</b> button. Click this button to display more information.
	<b>Context Menu</b> button. Move the mouse over this button to display a context menu.

- Benefits of Cisco Smart PHY, on page 1
- Dashboard, on page 2
- Inventory, on page 3
- Cable RPD Automation, on page 6
- Admin, on page 16

# **Benefits of Cisco Smart PHY**

Following are some of the benefits of using the Cisco Smart PHY application:

- Initial RPD Zero-Touch Automation: Initial RPD installation and provisioning with Zero-touch of the Cisco CMTS.
- Inventory: Tracks RPD and CCAP resources, allowing operators to perform searches on several provisioning-specific criteria.

- Configuration generation and push: Generates error free Cisco cBR-8 RPD configuration and ensures that the configuration is pushed to the appropriate DOCSIS Principal and Video CCAP Cores.
- RPD SW management: Manages RPD software.
- API centric design: Direct programmatic access for operators to various Cisco Smart PHY services and functions using open interfaces and tools.
- Deployment validation: Monitors Cisco cBR-8 routers for unauthorized out-of-band changes to RPD configurations.

## Dashboard



Following are the field descriptions:

Name	Description
Dashboard	Snapshot view of all devices managed and monitored by the Cisco Smart PHY application.

Name	Description			
Installed Nodes	Shows the number of nodes installed using the Cisco Smart PHY application. This panel also shows the number of Credential Profiles available in the application.			
	The pie chart shows the offline, online, and unknown (unmanaged cores) nodes.			
Launch	Takes you to the specific page view.			
Cable	Shows the following details in this pane: configured and managed using the <b>Cable RPD Automation</b> page.			
	• RPHY Devices			
	Service Definitions			
	Associations			
	CCAP Cores			
	Prinicipal Core Association			
	Auxiliary Core Association			
	Click the number to view more details.			
	Click the Launch link to go to the Cable RPD Automation page.			

# Inventory

Inventory has two tabs; Inventory and Credential Profiles.

Invent	ny C	redential Profiles									
		Status				Туре			Manufactu	rer	
			DFFLINE UNKNOWN DNLINE			NODE-UNKNOWN NODE-VIRTUAL (GR-8-CCAP-CHASS SHELF_600-6X12				Cisco	
Inver	itory	776	Details	• • •					Search	Selected 1 / Tota	al 23 🔿 🌣 Q
	Status	Host Name	Кеу Туре	IP Address	MAC Address	UUID	Product Type	Credential Pr	Latitude	Longitude	Loc
	×	MK_DB_DUMMY_07	MAC ADDRESS		A0F8.496F.6117	_DEVICE_A0F8496F	NODE-UNKNOWN				
	×	HA_SOUMIKC	MAC ADDRESS		4444.5555.3333	_DEVICE_44445555	NODE-UNKNOWN				
	×	MK_898	MAC ADDRESS	10.40.5.221	C000.0000.0001	_DEVICE_C0000000	NODE-VIRTUAL		-9.2322424	-7.7878787	
	×	MK_DB_DUMMY_04	MAC ADDRESS		A0F8.496F.6114	_DEVICE_A0F8496F	NODE-UNKNOWN				
			MAC ADDRESS		A0F8.496F.9999	_DEVICE_A0F8496F	NODE-UNKNOWN				
V	~	sphy-c2.cisco.com	IP ADDRESS	172.22.9.171		_DEVICE_172.22.9	CBR-8-CCAP-CHAS	S gold			

### Inventory

The Inventory tab enables you to onboard and organize your managed and unmanaged CCAP Cores.



## Note

Add the RPDs through the Cable Pairing table in the Cisco Smart PHY application and not through the Inventory tab.

Cisco Smart PHY supports 50000 RPDs on a 3-node cluster. Because the number of RPDs provisioned by the Cisco Smart PHY scales into such huge numbers, we recommend that the Operators work on Cisco Smart PHY programmatically through its REST API.

Following are the field descriptions for Inventory:

Name	Description			
Status	Shows a graphical pie chart of all devices in the network, categorized by status:			
	• ONLINE			
	• OFFLINE			
	• UNKNOWN			
	• SSHKEYFETCH			
	• MAINTENANCE			
	NORMALOPS_PROGRESS			
Host Name	Host name of the device.			
Кеу Туре	Two types:			
	• MAC ADDRESS			
	• IP ADDRESS			
IP Address	IP address of the device.			
MAC Address	MAC address of the device.			
UUID	Universally unique identifier of the device.			
Product Type	Product type of the device.			
Credential Profile	Credential profile name.			
Latitude	Latitude of the device.			
Longitude	Longitude of the device.			
Location	Location of the device.			
Description	Description of the device.			
Software Version	Software version of the device.			
Model Number	Model number of the device.			

I

Name	Description				
<b>•</b>	Adds a device to the existing inventory.				
0	Edits the device information.				
	Deletes a device from the inventory.				
<b>?</b>	Imports devices by using a CSV file.				
Ŧ	Exports device information to a CSV file.				
6	Synchronizes RPD states manually by fetching the latest RPD status.				
*	Enables maintenance mode on one or more Cisco cBR-8 routers. Applicable only to Cisco cBR-8 routers.				
*	Resumes normal operations on one or more Cisco cBR-8 routers. Applicable only to Cisco cBR-8 routers.				
<b>.</b>	Fetches the SSH key on one or more Cisco cBR-8 routers. Applicable only to Cisco cBR-8 routers. Cisco Smart PHY 3.1.4 and later, supports SSH key fetch from offline and online Cisco cBR-8 routers.				
	The SSH key fetch states are the following:				
	SSHKEYFETCH_IN_PROGRESS				
	• SSHKEYFETCH_FAILED				
	For more details, see the section Fetch SSH Keys from Cisco cBR-8.				
-	Status showing SSH key failure.				
()	Status shows one of the following states:				
	• Fetching SSH Keys				
	• Resuming Normal Operations from the maintenance mode				
Details	Shows the details of the devices, such as Device Summary and Device State History				
\$	Sets the columns in the device table.				
Search	Allows you to search for and filter the network devices.				
Devices table	Shows detailed information about each device in the network.				

#### **Credential Profiles**

Credential profiles are collections of device credentials for Telnet or SSH network devices. Using credential profiles lets you apply credential settings consistently across devices. When you add or import devices, you specify the credential profile the devices use. If you need to make a credential change, such as changing a device password, you can edit the profile to update the settings across all devices that use that profile.

#### Figure 1: Credential Profiles

Inventory Credential Profiles	
Credential Profiles	New Profile
+ Create New	Profile Name * Username *
sil	Password * Enable Password Consectivity Type * SSH
	Port Number * 22

Following are the field descriptions for Credential Profiles:

Name	Description			
+ Create New	ws you to add or edit a credential profile.			
	<b>Note</b> Mandatory fields are marked with an asterisk.			
New Profile	You can create a new profile by entering the required details and saving the profile.			

# **Cable RPD Automation**

The Cable RPD Automation page enables you to add, organize, and update information about CMTS and RPD devices in the network. The information available in the view is focused on CCAP Cores and Remote PHY Devices.

The Cable RPD Automation page has four tabs; Overview, RPD Assignment, Service Definitions, and Global Settings.

### **Overview**

Provides a view of the number of RPDs, their status, and the number of Cores. Also, it provides a dashboard view of the Core and the RPDs in different states.

Overview RPD Assignment	Service Definitions Glob	al Settings				
42		<ul> <li>Defined</li> <li>Processing</li> <li>Online</li> <li>Errored</li> </ul>		Provisioned     Unprovisioned		3
RPDs	RPD State	e Summary	RPD Provisio	oned Status	Co	ires
Dashboard						Total 2 💍
▲ Core	RPDs Defined	RPDs Processing	RPD	s Online	RPDs Errorec	
⊞ Unassigned	7	0		0		3
video-LWR-S-D8.cisco.com	0	6		24		2
Search						
RPD MAC	RPD Name	Generic location	Latitude	Longitu RPD	State	Provisioned
badb.ad14.be8e	RPD-RI01			Confi	gPushError	-
badb.ad14.32ea	RPD-R02			NotPr	rovisioned	-
7070.8b43.3fa7	RPDXAOI			Online	eWithException	~
0004.9f32.1343	RPD12			Confi	gured	~
badb.ad13.4326	RPD11			Confi	gured	~
0004.9f32.1573	RPD01			Online	e	~
badb.ad14.32e4	RPD-R01			Confi	gured	~

You can view the following RPD State Summary table by clicking the (i) icon in the RPD State Summary dashlet.

Table 1: RPD States Summary

RPD Summary	RPD State	Description
DEFINED	Defined	RPD pairing is defined. However, MAC address is not yet assigned.
DEFINED	Installed	Installed RPD. RPD name, MAC address, and the GPS location are available.
DEFINED	Inventory	Added RPD MAC address to the inventory without the GPS details.
ERRORED	ConfigNotFound	RPD assignment is incomplete or not specified in the Cisco Smart PHY application.
ERRORED	ConfigPushError	Unable to push the RPD configuration to the CCAP core.
ERRORED	ConfigReadError	Unable to get the existing CCAP core configuration.
ERRORED	ConfigurationError	Assigned incorrect RPD in the Cisco Smart PHY application.

RPD Summary	RPD State	Description
ERRORED	GcpRedirectError	Received an error from the RPD when redirecting to the CCAP core.
ERRORED	NotProvisioned	Cisco cBR-8 router is not provisioned with the RPD configuration.
		RPD configuration is not pushed to the Cisco cBR-8 router.
ERRORED	Offline	RPD is offline. However, RPD configuration is pushed to the CCAP core.
ERRORED	ResourceAllocationError	Unable to allocate resources to an RPD for the assigned CCAP core or interface.
ONLINE	Online	RPD is online on the CCAP core.
ONLINE	OnlineWithException	RPD is online, but NDF or NDR fails.
ONLINE	PartialOnline	Parttial services are available if the RPD is not online on all cores.
PROCESSING	Configured	CCAP core is configured.
		RPD configuration is pushed to the CCAP core.
PROCESSING	DeletePending	RPD pairing deletion is pending.
PROCESSING	GcpRedirected	Received an ACK from the RPD for the CCAP core redirect message.
PROCESSING	GcpRedirectStartedWithException	RPD configuration is pushed to the CCAP core and redirecting the RPD to that core has started. However, one of the following errors occurred:
		RouterVersionIncompatible
		StaticRouteNotConfigured
PROCESSING	GcpRedirectStarted	RPD configuration is pushed to the CCAP core and the RPD is redirected to that core.
PROCESSING	GcpRedirectedWithException	Received an ACK from the RPD for the CCAP core redirect message. However, one of the following errors occurred:
		RouterVersionIncompatible
		StaticRouteNotConfigured
PROCESSING	GcpUp	Received GCP message from the RPD.
WARNING	RouterVersionIncompatible	RPD software version is incompatible with the CCAP core version.

RPD Summary	RPD State	Description
WARNING	StaticRouteNotConfigured	Static route is not configured.

### **RPD Assignment**

Allows you to add, edit, import, or export the details of RPD assignments. Search allows you to search for or filter the RPD information.

Overview	RPD Assignment	Service Definitions	Global S	Settings								
V Assign Service	Definitions											
Select Serv	rice Definition		Asso	ociate RI	PDs						Selected	1 / Total 21 🔿 🔅
SystemTempla Data only	ate (Default)	*	÷	0	7		sign Clea	Def	tails		Search	۹
		0 Assigned										
BidiptaThisIsAl	BigServiceDefina	*				RPD Name	MAC	Se	Service Definition	Principal Core	Principal Cor	DS Port
Data only		0 Assigned		0	~	Test	1111.1111.1134	1×2	CBR_37	sphy-c1.cisco.com	TenGigabitEthernet3/1/6	0
CBR_171		*										
Data only		2 Assigned		×	-		a0f8.496f.4efe					
CBR_37 Data only		*										
Data only		8 Assigned			_		a0f8.496f.6109					
Copy-OOB171	1	*										
000,000		0 Assigned		C	~	MK_DB_DUMMY_07	a0f8.496f.6117	2x2	CBR_37	sphy-c1.cisco.com	TenGigabitEthernet3/1/5	0
Dummy Data only		*		Ŭ								1
		0 Assigned		0	$\checkmark$	MK_DB_DUMMY_06	a0f8.496f.6116	2x2	CBR_37	sphy-c1.cisco.com	TenGigabitEthernet3/1/2	0
MD_CBR_171 Data only	1	C										1
		0 Assigned		0		MK DB DUMMY 04	a0f8 496f 6114	2x2	CRR 37	sphy-c1 cisco com	TenGicabitEthernet3/1/3	0
OOB171 Data , OOB		*		9			8010.4301.0114	2A2 0	000_07	apity of totaco.com	renorgeoncalienteta/1/a	
		0 Assigned										1
Soumik		*		0	~	MK_DB_DUMMY_02	a0f8.496f.6110	2×2	CBR_37	sphy-c1.cisco.com	TenGigabitEthernet3/1/5	0
Data only		1 Arright										1

Following are the menu options available on the RPD Assignment window:

Options	Description
Ð	To assign an RPD for a specific RPD name or to add an RPD MAC address to the RPD Inventory.
	You can assign additional RPD information only after specifying a name for the RPD MAC address.
	To edit an existing RPD assignment.
	You can edit the name, the MAC address information, and so on.
	To delete an RPD name and its RPD assignment information.
	When you delete the RPD Assignment details, the RPD MAC address that is assigned to the RPD name is moved back to the Inventory and is retained in the system.
	To delete the RPD MAC address, delete it from the main Inventory page.
	Similarly, deleting an RPD MAC address from the Inventory does not delete the RPD name and its assignment information in the RPD Assignment table. This deletion removes only the RPD MAC address from the RPD Assignment table.
	Imports the details of RPD assignments using a CSV file.
	Sample of the CSV file is available when you click this icon.

Options	Description
Ŧ	Exports the details of RPD assignments to a CSV file.
0	Synchronizes RPD states manually by fetching the latest RPD status.
Assign	To assign the chosen Service Definition to all the selected RPDs.
Clear	To clear the core and the service template assignment for a specific RPD name. This option does not clear the mapping between an RPD name and the MAC address.
Details	To get the details of the RPD, such as RPD Summary, RPD State History, and RPD CLI.
Search	Use any filtering option.
\$	Sets the required columns in the device table.

Following are the field descriptions in the Associate RPDs table:

Field Name	Description
Status	Shows the status of the RPDs.
Provisioned	Shows whether the RPD is provisioned or not.
RPD Name	Name for the RPD.
	This RPD name is also used in the cable rpd CLI command.
MAC	MAC address of the RPD.
Segmentation	Node segmentation of the RPD: 1x1, 1x2, or 2x2.
Service Definition	Service Definition as created in the <b>Service Definitions</b> tab. If Cisco Smart PHY does not manage the principal CCAP core and if the <b>Principal Core</b> field is empty, then this <b>Service Definition</b> field is optional.
Principal Core	The name of the managed Cisco cBR-8 router or the unmanaged Core, which is the Principal Converged Cable Access Platform (CCAP) Core for the RPD.
SSD Profile	Secure Software Download (SSD) profile details for image storage.
Disable Network Delay	The default is value is <b>No</b> .
	• No: Apply the network-delay from service definition to RPD.
	• Yes: Do not apply the network-delay from service definition to RPD.
	Changing this value to yes is service impacting, if the RPD's assigned Service Definition/Template has network-delay configured.

Field Name	Description				
Principal Core Interface	If the Principal Core is a managed Cisco cBR-8 router, the name of the TenGigabitEthernet DPIC interface is listed in this field.				
	If the Principal Core is an unmanaged Core, the field is empty.				
Video Core	Name of the Cisco cBR-8 router, which is the auxiliary CCAP core for the RPD that provides video services.				
Video Core Interfaces	List of complete names of the TenGigabitEthernet DPIC interfaces to be used for Video Services.				
OOB Core	Name of the Cisco cBR-8 router which is the CCAP core for the RPD that provides out-of-band (OOB) SCTE 55–1 service and NDF/NDR services.				
OOB Core Interface	Complete name of the TenGigabitEthernet DPIC interface to be used for out-of-band 55-1 and NDF/NDR service.				
Downstream VOM ID	OOB 55-1 Downstream Virtual out-of-band Modulator (VOM) Identification (ID). If present, this value overrides the value from the Service Definition.				
Downstream VOM Profile	OOB 55-1 Downstream VOM profile. If present, this value overrides the value from the Service Definition.				
Upstream VARPD ID	OOB 55-1 Upstream Virtual Advanced Return Path Demodulator (VARPD) ID. If present, this value overrides the value from the Service Definition.				
Upstream VARPD Profile	OOB 55-1 Upstream VARPD profile for first logical Downstream/Upstream (DS/US) pairing. If present, this value overrides the value from the Service Definition.				
	The Upstream VARPD Profile (upstreamVarpdProfile) and the Second Upstream VARPD Profile (secondUpstreamVarpdProfile) can have the same value. For more details, see Common OOB 55-1 US Profile for Cisco RPD 1x2/2x2.				
Second Upstream VARPD Profile	OOB 55-1 Upstream VARPD profile for second logical Downstream/Upstream (DS/US) pairing. If present, this value overrides the value from the Service Definition.				
	The upstream VARPD profile (upstreamVarpdProfile) and the second upstream VARPD profile (secondUpstreamVarpdProfile) can have the same value. For more details, see Common OOB 55-1 US Profile for Cisco RPD 1x2/2x2.				
Cable DSG TGs	Semicolon separated list of DOCSIS Set-Top Gateway (DSG) Tunnel Group (TG) identifications. If present, this list overrides the list from the Service Definition.				
Additional Cores	Semicolon separated list of additional cores to which the RPD must connect.				
Latitude	Latitude of the RPD (GPS coordinates)				
Longitude	Longitude of the RPD (GPS coordinates)				
RPD Description	Description for the RPD				

#### **Service Definitions**

Allows you to add, edit, delete, or assign service templates. Fields that are not marked as optional are mandatory.

Overview	RPD Assignment	Service Definitions	Global Settings			
Service D	efinitions		SystemTemplate		Selected 1 /	Total 7 🔿
+	- Create New				Search	c
SystemTe Data only	emplate (Default)	O Assigned	Name * SystemTemplate Description 16x4	Set as Default		
CBR_171 Data only		2 Assigned	Event Profile * 1 R-DTI Profile * 1			
Copy-CB Data , OOB	R_171	1 Assigned	Pilot Tone Profile Range from 0 to 511 Cable DSG TGs Range from 1 to 65535. Separated by '+ semicolon			
Coxtest Data only		0 Assigned	First Logical DS/US Pairing Service Group Profile * ServiceGroup1	Second Logical DS/US Pairing Service Group Profile *	Enable	
MD-CBR_ Data only	_171	0 Assigned	Downstream Controller Profile * 1 Upstream Controller Profile * 1	Downstream Controller Profile * Range from 0 to 255 Upstream Controller Profile * Range from 0 to 511		
MD_OOB Data , OOB	CBR_171	0 Assigned	Enable MAC Domain Splitting     Network Delay (optional)			
OOBCBR Data , OOB	_171	1 Assigned	Network Delay			
			Out Of Band (optional) Downstream VOM ID Range from 1 to 10			
			Opwastraam WOM Parfila, Device from 1 to 4204067205			

Following are the menu options descriptions:

Name	Description
+ Create New	Click this option to create a new service template.
Name of the existing service definition	Click the name of the existing service definition to edit the template.
New Service Definition	Enter the details in each filed and click the <b>Save</b> button to create a new service template.
Search	Use this Search text field in upper right-hand corner to filter service definition names.

### **Global Settings**

You can perform the following configurations from the Global Settings window.

- Database Backup
- Global Configuration
- Software Compatibility

### **Database Backup**

You can back up the database to a local server or a remote server.

Overview	RPD Assignme	nt Service Definitio	ons Global Settings				
✓ Data	abase Backi	qu					
Server * ① hostname.domain.com							
Usernam	Username * admin						
Passwor	d *						
Directory	/ * /users/name	/folder/					
	()						
Filename	e (Import Only *) (	) smartphy_InstanceNa	me_backup_timestamp.tar.gz				
		Export	Import Reset				
Data	abase Backi	up Status					
	Operation	Start Time	End Time	Message			

The database backup file is a TAR.GZ file with the following naming convention:

filename\_YYYYMMDD\_HHMMSS.tar.gz. For example, aio\_backup\_20210318\_121354.tar.gz. Enter the following details in the **Database Backup** window to back up the database.

Field	Description
Server	The location where you want to save the DB.
	• Local backup—Enter localhost. Local backup files are saved to the /var/smartphy/backup directory on the local filesystem.
	• Remote backup—Enter the IP address or the principal coreFQDN of the remote host. For remote backup, the Cisco Smart PHY application uses SFTP to transfer files from Cisco Smart PHY instances.
Username	Local backup—Leave the field empty.
	• Remote backup—Enter the username for the remote server access.

Field	Description
Password	Local backup—Leave the field empty.
	• Remote backup—Enter the password for the remote server access.
Directory	• Local backup—Leave the field empty.
	• Remote backup—Enter the file path of the directory in the remote server.
Filename (Import Only)	Used exclusively for importing a database. Imported file must be in this format the following format: <pre>smartphy_InstanceName_backup_timestamp.tar.gz</pre>
	Leave the field empty for both local and remote backup.
Export	Click the <b>Export</b> button to perform local and remote backup.
Import	Click the <b>Import</b> button to import a DB.

### **Global Configuration**

The **Global Configuration** section under the **Global Settings** menu provides the following options for you to configure on RPDs. Choose the following functions according to your requirement.

- Configure Static Routes—If you enable this option, for interfaces with /31 (IPv4 networks) or /127 (IPv6 networks) configured on the DPIC, the Cisco Smart PHY application adds a static route configuration on the Cisco cBR-8 router per RPD.
- Validate Software Compatibility—If you enable this option, the Cisco Smart PHY application checks the compatibility between the RPD version and the Cisco cBR-8 router version that is specified in the table.
- Persist Running Configuration—If you enable this option, when the Cisco Smart PHY makes a change to the Cisco cBR-8 configuration, the Cisco Smart PHY makes the configuration persistent. This option allows you to make the changes persistent on the Cisco cBR-8 router at a specific interval.

✓ Global Configuration			
Configure Static Routes			
Validate Software Compatibility			
Persist Running Configuration			
Config Save Interval 60	٢		
	Set Reset		
Software Compatibility			Selected 1 / Total 1 🔿 🐇
+ 🖉 🗊			Search Q
RPD Vendor	RPD Software Version	Router Product Type	Router Software Version
☑ Arq	v8.6	CBR-8-CCAP-CHASS	17.2.1

#### **Static Route**

To route traffic and for communication between an RPD and a Cisco cBR-8 router, static routes to the Cisco cBR-8 router are created when you configure the RPDs.

Smart PHY automatically creates a static route for the RPD if the DPIC interface is configured with a /31 (IPv4 networks) or /127 (IPv6 networks) subnet. The static route is determined by calculating the gateway IP address and routing traffic through the gateway for the RPD.



• The DPIC must be a /31 or /127 subnet.

• Wait for the RPD to push the static route configuration.

#### Sample of a Cisco Smart PHY-Generated Configuration

```
cable rpd <the name assigned to the RPD>
identifier a0f8.496f.6506
type shelf
rpd-ds 0 base-power 25
rpd-ds 1 base-power 25
core-interface Te9/1/6
 principal
 rpd-ds 0 downstream-cable 9/0/16 profile 100
 rpd-us 0 upstream-cable 9/0/1 profile 4
r-dti 2
rpd-event profile 0
rpd-55d1-us-event profile 0
cable fiber-node <next available fiber-node>
downstream Downstream-Cable 9/0/16
upstream Upstream-Cable 9/0/1
downstream sg-channel 0 23 downstream-Cable 9/0/16 rf-channel 0 23
upstream sg-channel 0 3 Upstream-Cable 9/0/1 us-channel 0 3
service-group managed md 0 Cable 9/0/1
service-group profile SG1
```

#### Software Compatibility

Allows you to add, edit, or delete the software compatibility matrix. Fields that are not marked as optional are mandatory.

Software Compatibility—This window displays a compatibility matrix for the RPD software versions and the Cisco cBR-8 software versions. The Smart PHY application detects the software incompatibility between an RPD and a Cisco cBR-8 router, and alerts you about the incompatibility. After the alert appears, either manually upgrade the RPD software or associate the RPD with an SSD profile through the Cisco Smart PHY application, which notifies the Cisco cBR-8 for the software upgrade.

Table 2: Field Description for Software Compatibility	y Matrix
---	----------

Name	Description
RPD Vendor	Name of the RPD vendor.
RPD Software Version	Software version running on the RPD.
Router Product Type	Product type of the router from the Inventory. Example: CBR-8-CCAP-CHASS

Name	Description
Router Software Version	Software version of the router.

# Admin

The **Admin** menu option displays the **User List** window which lists all existing users in the Cisco Smart PHY application.

In this window, you can reset the user passwords by clicking the  $\checkmark$ . The admin user can reset the passwords of all users. All other users can reset only their own passwords when logged in.