RPD Commands: b through t

Note The **test** and **set** commands on the RPD are for lab and Cisco internal use only.

backhaul daisy-chain

To configure the RPD to work in daisy chain mode (the default mode), use the **backhaul daisy-chain** command.

backhaul daisy-chain

Command Default

None.

Command Modes

Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 8.2	This command was introduced.

Usage Guidelines

None.

This example shows how to configure the RPD to work in daisy chain mode.

```
R-PHY>enable
R-PHY#configure terminal
R-PHY(config)#backhaul daisy-chain
Enable daisy chain mode
Please Reload to Take effect.
R-PHY(config)#end
```

backhaul link-redundancy

To configure the RPD to work in link redundancy mode, use the **backhaul link-redundancy** command. To restore the RPD to daisy-chain mode, use **no** form of this command.

backhaul link-redundancy

no backhaul link-redundancy

Command Default

None.

Command Modes

Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 8.2	This command was introduced.

Usage Guidelines None.

This example shows how to configure the RPD to work in link redundancy mode.

```
R-PHY>enable
R-PHY#configure terminal
R-PHY(config)#backhaul link-redundancy
Enable link redundancy mode
Please Reload to Take effect.
R-PHY(config)#end
```

This example shows how to restore the RPD to daisy-chain mode.

```
R-PHY>enable
R-PHY#configure terminal
R-PHY(config)#no backhaul link-redundancy
Restore daisy chain mode
Please Reload to Take effect.
R-PHY(config)#end
```

clear core-files

To clear all core files or a specific core file, use the **show core-files** command.

show core-files *core-file-name*

Syntax Description

core-file-name	Core filename that you want to clear.

Command Default None.

Command Modes Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines None.

Clear Core Files

This example shows how to clear the core files.

```
R-PHY#show core-files info
 -rw-r--r--    1 root     root             0 May  7 23:52 2.core.gz
 -rw-r--r--    1 root     root             0 May  7 23:52 1.core.gz


R-PHY#clear core-files 1.core.gz
 Delete core file [1.core.gz]?
 Are you sure to clear core file:1.core.gz? [Confirm]
 Done.
```

```
R-PHY#show core-files info
 -rw-r--r--    1 root     root             0 May  7 23:52 2.core.gz

R-PHY#clear core-files
 Are you sure to clear all core files? [Confirm]
 Done.

R-PHY#show core-files info
 No core files found.
```

clear fault-management

To clear an RPD event in the local queue or the pending queue, use the **clear fault-management** command.

clear fault-management {**local-queue** | **pending-queue**}

Syntax Description

local-queue	Clears RPD events in the local-queue.
pending-queue	Clears RPD events in the pending-queue.

Command Default

None.

Command Modes

Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

None.

Clear RPD Events in the Local-queue

This example shows how to clear RPD events in the local-queue:

```
R-PHY#clear fault-management local-queue
```

Clear RPD Events in the Pending-queue

This example shows how to clear RPD events in the pending-queue:

```
R-PHY#clear fault-management pending-queue
```

clear logging

To clear the RPD onboard related logs, use the **clear logging** command.

Note The show commands now displays information logged since the last corresponding clear command. Hence **clear logging** can be used to hide previous log contents.

clear logging { **openrpd** | **seres** | **traceback** | **ikev2** | **onboard** { **current** | **message** | **startup_time** | **temperature** | **voltage** } }

Syntax Description

openrpd	Hides the current contents of the openrpd log.
seres	Hides the current contents of the seres log.
traceback	Hides the current contents of the traceback log.
ikev2	Hides the current contents of the ikev2 log.

The following syntax options apply for the **clear logging onboard** command option.

current	Clears current data.
message	Clears OBFL error messages.
startup_time	Clears the startup time data.
temperature	Clears temperature data.
voltage	Clears voltage data.

Command Default

None.

Command Modes

Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	Cisco 1x2 RPD Software 1.1

Usage Guidelines

None.

Clear RPD Onboard Related Logs

These examples show how to clear RPD onboard related logs.

```
R-PHY#clear logging onboard current
R-PHY#clear logging onboard message
R-PHY#clear logging onboard startup_time
R-PHY#clear logging onboard temperature
R-PHY#clear logging onboard voltage
```

Note All commands will support automore when required.

clear oob statistics

To reset the OOB 55d1 upstream counter to zero, use the **clear oob statistics** command. The counter output of the **show oob 55d1 statistics** command is reset to zero.

clear oob statistics

Syntax Description

This command has no arguments or keywords.

Command Default

None.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

Use this command to clear the upstream OOB 55d1 packet statistics.

Example

This example shows how to reset the OOB 55d1 upstream counter to zero.

```
R-PHY#clear oob statistics

R-PHY#show oob 55d1 statistics

OOB 55-1 Upstream Packet statistics
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Current Log level: LOG_WARNING
Run Time: 0 Mins 0 Secs

Packets Received from Demods:
----- ---- --------------- ------------- ------------- --------------- ------- ------- -
Port  Chan Total Packets   Uncorrectable Corrected     Good            UPM ID  Rep Pwr S
----- ---- --------------- ------------- ------------- --------------- ------- ------- -
0     0                 0             0             0               0 0       0       -
0     1                 0             0             0               0 0       0       -
0     2                 0             0             0               0 0       0       -
----- ---- --------------- ------------- ------------- --------------- ------- ------- -
Total                   0             0             0               0 |Last Pkt Status|

1     0                 0             0             0               0 0       0       -
1     1                 0             0             0               0 0       0       -
1     2                 0             0             0               0 0       0       -
----- ---- --------------- ------------- ------------- --------------- ------- ------- -
Total                   0             0             0               0 |Last Pkt Status|
```

```
Error packets not included in the stats above: 0
```

clear provision history

To clear the RPD provision history, use the **clear provision history** command.

clear provision history

Syntax Description

This command has no arguments or keywords.

Command Default None.

Command Modes Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines None.

Clears RPD Provision History

This example shows how to clear the RPD provision history.

```
R-PHY#clear provision history
success
```

```
R-PHY#show provision history
Core-Index  Interface  IP  Mac  From-State  To-State  event  Added-By  Time
```

clear reboot hold

To clear the RPD reboot hold information, use the **clear reboot hold** command.

clear reboot hold

Syntax Description

This command has no arguments or keywords.

Command Default None.

Command Modes Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

None.

Clears Reboot Hold Information

This example shows how to clear the RPD reboot hold information:

```
R-PHY#clear reboot hold
success
```

clear startup_capture-file

To clear all startup-capture files or specific startup-capture file, use the **clear startup_capture-file** *startup-capture file name* command.

clear startup_capture-file *startup-capture file name*

Syntax Description

startup-capture file name	The startup-capture filename.

Command Default

None.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

None.

Clear All Startup-capture Files

This example shows how to clear all startup-capture files

```
R-PHY#clear startup_capture-file
Are you sure to clear all startup_capture files? [Confirm]
Done.


R-PHY#show startup-capture-files
No startup capture file found
```

console enable

To enable or disable the input access to the RPD console. Make sure that SSH is enabled on the RPD

enable console

disable console

Syntax Description

input	Input access to the console.

Command Default

Access to the RPD console is disabled

Command Modes

Global configuration mode

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

After you disable the console access, you cannot enter any commands in the console. You can enable the access using SSH to the RPD.

This example shows how to enable access to the console:

```
R-PHY(config)#console enable
enable console input success
R-PHY(config)#console disable
Warning: You cannot input anything on console after this, the only way to enable is via SSH
 to RPD.
Please make sure RPD is able to ssh.  Are you sure to disable console input? [No/Yes]yes
disable console input success
```

enable password

To set a password to control access to various privilege levels, use the **enable password** command in global configuration mode.

enable password *password*

Syntax Description

password	Assign the privileged level password.

Command Default

No password is defined.

Command Modes

Global configuration.

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

The password must contain uppercase and lowercase alphanumeric characters.

The following is an example for enabling a password:

```
R-PHY(config)#enable password lab
R-PHY(config)#end
R-PHY#exit
R-PHY>enable
Password: lab
R-PHY#
```

ikev2 authentication enable

To enable or disable the Internet Key Exchange version 2 (IKEv2) authentication on the RPD.

ikev2 authentication enable

ikev2 authentication disable

Syntax Description

This command has no arguments or keywords.

Command Default

The IKEv2 authentication is disabled.

Command Modes

Global configuration.

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

None.

The following example shows how to enable/disable IKEv2 authentication:

```
R-PHY(config)#ikev2 authentication enable
New configuration only takes effect after reboot!
```

```
R-PHY(config)#ikev2 authentication disable
New configuration only takes effect after reboot!
```

logging monitor

To limit the logs displayed on the terminal, use the **logging monitor** command. You can turn off the monitor using the **off** command.

logging monitor

logging monitor off

Syntax Description

This command has no arguments or keywords.

Command Default

By default, the logging monitor is turned on.

Command Modes

Privileged EXEC mode (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

None.

This example shows how to turn on the logging monitor:

```
R-PHY#logging monitor
```

This example shows how to turn off the logging monitor:

```
R-PHY#logging monitor off
```

logging provision-archive

To archive the provision logs to a specific TFTP server or a specific server by SCP, use the **logging provision-archive** command.

logging provision-archive <*from_date*> <*to_date*> { **tftp** *server_ip* *dir* | **local** }

logging provision-archive <*from_date*> <*to_date*> { **scp** *server_ip* *user* *dir* | **local** }

Syntax Description

<*from_date*> <*to_date*>	Date-range for archiving logs.
server_ip	IP address of the TFTP or the SSH server.
dir	TFTP directory or the SSH user directory.
user	SSH username.

local	Creates the archive file and saves it in RPD.

Command Default

None.

Command Modes

EXEC

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

Specify the date-range for archiving logs using the `logging provision-archive <from_date> <to_date> [scp|tftp|local]` command. This command helps in controlling the size of the log archive.

This example shows how to archive logs within the specified date-range:

```
R-PHY#logging provision-archive 2020-07-10 2020-07-20 local
```

This example shows how to archive entire log files stored inside the RPD through TFTP:

```
R-PHY#logging provision-archive tftp 11.1.1.10 .
```

This example shows how to archive entire log files stored inside the RPD through SCP:

```
R-PHY#logging provision-archive scp 11.1.1.10 root /tftpboot/

                                        100%   29     0.0KB/s   00:00
```

This example shows how to create the archive file and store in RPD:

```
R-PHY#logging provision-archive local
Collect tech-support info...
Please wait, archiving...
Created archive: /rpd/archive/RPD_PROV_badbad13ac3e_LOG_2019-08-28_11_59_01_898484.tar.gz
Created archive: /rpd/archive/RPD_running_log.tar.gz
Created archive: /rpd/archive/RPD_config_log.tar.gz
[Done]
```

logging 1588-archive

To archive 1588 logs to a specific TFTP server or a specific server by SCP, use the **logging 1588-archive** command.

logging 1588-archive *<from_date>* *<to_date>* { **tftp** *server_ip* *dir* | **local** }

logging 1588-archive *<from_date>* *<to_date>* { **scp** *server_ip* *user* *dir* | **local** }

Syntax Description

<from_date> *<to_date>*	Date-range for archiving logs.
server_ip	IP address of the TFTP or the SSH server.
dir	TFTP directory or the SSH user directory.

user	SSH username.
local	Creates the archive file and saves it in RPD.

Command Default

None.

Command Modes

EXEC

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

Specify the date-range for archiving logs using the `logging 1588-archive <from_date> <to_date> [scp|tftp|local]` command. This command helps in controlling the size of the log archive.

This example shows how to archive logs within the specified date-range:

```
R-PHY#logging 1588-archive 2020-07-10 2020-07-20 local
```

This example shows how to configure archiving 1588 logs through TFTP:

```
R-PHY#logging 1588-archive tftp 11.1.1.10 .
Wait for archiving 1588 logs
Wait for upload archive to server. It would take 3 minutes or more.
RPD logs will be saved in
11.1.1.10:$TFTP_DIR/./RPD_1588_badbad135dcc_LOG_2019-05-08_07_03_17_579229.tar.gz
[Done]
```

This example shows how to configure archiving 1588 logs through SCP:

```
R-PHY#logging 1588-archive scp 11.1.1.10 root /tftpboot/
Wait for archiving 1588 logs
Wait for upload archive to server. It would take 3 minutes or more.
RPD logs will be saved in
root@11.1.1.10:/tftpboot/RPD_1588_badbad135dcc_LOG_2019-05-08_07_04_11_472901.tar.gz

Host '11.1.1.10' is not in the trusted hosts file.
(ssh-rsa fingerprint sha1!! 93:c8:69:a1:3b:c5:bb:eb:7a:e9:03:f7:37:a5:95:66:25:c5:c1:0f)
Do you want to continue connecting? (y/n) y
root@11.1.1.10's password:
RPD_1588_badbad135dcc_LOG_2019-05-08_07_04_11_472901.tar.gz

                                      100%   29     0.0KB/s   00:00
```

This example shows how to create the archive file and store in RPD:

```
R-PHY#logging 1588-archive local
Please wait, archiving...
Created archive: /rpd/archive/RPD_1588_badbad13ac3e_LOG_2019-08-28_12_00_01_381305.tar.gz
Created archive: /rpd/archive/1588_running_log.tar.gz
[Done]
```

logging corefile-archive

To archive the corefiles to a specific TFTP server or a specific server by SCP, use the **logging corefile-archive** command.

logging corefile-archive <*from_date*> <*to_date*> { **tftp** *server_ip* *dir* | **local** }

logging corefile-archive <*from_date*> <*to_date*> { **scp** *server_ip* *user* *dir* | **local** }

Syntax Description

<*from_date*> <*to_date*>	Date-range for archiving logs.
server_ip	IP address of the TFTP or the SSH server.
dir	TFTP directory or the SSH user directory.
user	SSH username.
local	Creates the archive file and saves it in RPD.

Command Default

None.

Command Modes

EXEC

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

Specify the date-range for archiving logs using the `logging core-file archive <from_date> <to_date> [scp|tftp|local]` command. This command helps in controlling the size of the log archive.

This example shows how to archive logs within the specified date-range:

```
R-PHY#logging corefile-archive 2020-07-10 2020-07-20 local
```

This example shows how to archive corefile through TFTP:

```
R-PHY#logging corefile-archive tftp 11.1.1.10 .
```

This example shows how to archive corefile through SCP:

```
R-PHY#logging corefile-archive scp 11.1.1.10 root /tftpboot/

                                        100%   29     0.0KB/s   00:00
```

This example shows how to create the archive file and store in RPD:

```
R-PHY#logging corefile-archive local
Please wait, archiving...
Created archive: /rpd/archive/RPD_COREFILE_badbad13ac3e_LOG_2019-08-28_12_01_06_904616.tar.gz
[Done]
```

reboot

To reboot RPD, use the **reboot** command in EXEC mode.

reboot {**factory-reset** | **force** | **nv-reset** | **soft-reset**}

Syntax Description

factory-reset	The device restores the factory configuration and performs a cold reboot.
force	Cold reboots the RPD without saving the provision log or checking the reboot hold.
nv-reset	The device clears the non volatile configuration and performs a cold reboot.
soft-reset	The device performs a soft reset.

Command Default

None.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

None.

This example shows how to reboot the RPD by using the factory-reset option.

```
R-PHY#reboot factory-reset
Warning: This action will restore the factory configuration. Are you sure you want to do
the factory reset (yes/no)?yes
```

This example shows how to reboot the RPD by using the force option.

```
R-PHY#reboot force
```

This example shows how to reboot the RPD by using the nv-reset option.

```
R-PHY#reboot nv-reset
Warning: This action will clear the non-volatile configuration. Are you sure you want to
do the nvreset (yes/no)?yes
```

This example shows how to reboot the RPD by using the soft-reset option.

```
R-PHY#reboot soft-reset
Warning: This action will perform a soft reset. Are you sure you want to do the soft reset
 (yes/no)?yes
SoftReset in 10 seconds
```

sfp itu

To change the wavelength of the DWDM-SFP10G-C, use the **sfp itu** command.

sfp itu *port_id channel_no*

Syntax Description

port_id	Port ID.
channel_no	Channel number should in the 1 to 96. range.

Command Default

None.

Command Modes

Global configuration.

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines

None.

This example shows how to change the wavelength of the DWDM-SFP10G-C:

```
R-PHY(config)#sfp itu 1 1
```

ssd control

To control the SSD process, use the **ssd control** command in privileged EXEC mode.

ssd control {abort | show | start}

Syntax Description

abort	Aborts SSD process.
show	Displays SSD configuration.
start	Starts SSD process.

Command Default

None.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced on the Cisco Remote PHY Device.

The following is a sample output of the **ssd control abort** command:

```
R-PHY# ssd control abort
Abort SSD running successfully
```

The following is a sample output of the **ssd control show** command:

```
R-PHY# ssd control show
file path: xxx.itb.SSA
server: 11.1.1.10
transport: TFTP
```

The following is a sample output of the **ssd control start** command:

```
R-PHY# ssd control start
[179595.278505] sh (11653): drop_caches: 3
SSD process start
```

ssd set cvc

To set the value for SSD CVC (Manufacturer's and Co-signer Code Validation Certificates) parameter, use the **ssd set cvc** command in privileged EXEC mode.

ssd set cvc {co-signer | manufacturer} *cvc*

Syntax Description

co-signer	Specifies the Co-signer Code Validation Certificates.
manufacturer	Specifies the Manufacturer's Code Validation Certificates.

Command Default

None.

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced on the Cisco Remote PHY Device.

The following is a sample output of the **ssd set cvc** command:

```
R-PHY# ssd set cvc manufacturer bootflash:xxx.cer
```

ssd set server

To set SSD server parameters, use the **ssd set server** command in privileged EXEC mode.

ssd set server *ip_address* **filename** *file_name* **transport {tftp | http}**

Syntax Description

tftp	Specifies the TFTP protocol.
http	Specifies the HTTP protocol.

Command Default None.

Command Modes Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced on the Cisco Remote PHY Device.

The following is a sample output of the **ssd set server** command:

```
R-PHY# ssd set server 11.1.1.10 filename xxx.itb.SSA transport tftp
```

ssh adduser

To add a new SSH account, use the **ssh adduser** command in the global configuration mode.

ssh adduser *new user*

Command Default None

Command Modes Global configuration (config).

ssh adduser *new user*	Specifies the user name.

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 6.1	This command was introduced on the Cisco Remote PHY Device.

This is an example of how to add a new SSH account.

```
R-PHY>enable
R-PHY#configure terminal
R-PHY(config)#ssh adduser <newuser>
Changing password for <newuser>
New password:
Retype password:
Password for <newuser> changed by root
R-PHY(config)#end
```

Related Commands

Command	Description
ssh delete	Delete an SSH account.
ssh chpasswd	Change an SSH account password.
show ssh account	View SSH account details

ssh chpasswd

To change the password of an SSH account, use the **ssh chpasswd** command in the global configuration mode.

ssh chpasswd *user*

Command Default

None

Command Modes

Global configuration (config).

ssh chpasswd *user*	Specifies the user name.

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 6.1	This command was introduced on the Cisco Remote PHY Device.

This is an example of how to change the password of an SSH account.

```
R-PHY>enable
R-PHY#configure terminal
R-PHY(config)#ssh adduser <newuser>
Changing password for <newuser>
New password:
Retype password:
Password for <newuser> changed by root
R-PHY(config)#end
```

Related Commands

Command	Description
ssh adduser	Add an SSH account
ssh delete	Delete an SSH account.
show ssh account	View SSH account details

ssh delete

To delete an SSH account, use the **ssh delete** command in the global configuration mode.

ssh adduser *user*

Command Default

None

Command Modes

Global configuration (config).

ssh delete *user*	Specifies the user name.

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 6.1	This command was introduced on the Cisco Remote PHY Device.

This is an example of how to delete an SSH account.

```
R-PHY>enable
R-PHY#configure terminal
R-PHY(config)#ssh delete <newuser>
Warning: Are you sure to delete this account? [No/Yes]
Yes
delete account '<newuser>' successfully
R-PHY(config)#end
```

Related Commands

Command	Description
ssh adduser	Add an SSH account.
ssh chpasswd	Change an SSH account password.
show ssh account	View SSH account details

ssh exec-timeout

To change the EXEC timeout value of the SSH session, use the **ssh exec-timeout** command.

ssh exec-timeout *timeout*

Syntax Description

timeout	Time in minutes.

Command Default

The default value is 180 sec.

Command Modes

Global configuration.

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines None.

Example

This example shows how to change the SSH EXEC timeout value:

```
R-PHY(config)#ssh exec-timeout 3
Please exit session & login again to make ssh EXEC timeout valid
```

ssh password on

To enable or disable logging in to an SSH session using an account with password. If logging in using a password is disabled, the user can only use the SSH key authentication method to log in to an RPD.

ssh password *on*

ssh password *off*

Syntax Description

on	To enable logging in using a password.
off	To disable logging in using a password.

Command Default The default value is on.

Command Modes Global configuration.

Command History

Release	Modification
Cisco 1x2 RPD Software 1.1	This command was introduced.

Usage Guidelines If you disable the password logging, the user has to use the SSH key authentication method.

The following example shows how to enable logging in using a password:

```
R-PHY(config)#ssh password on
```

The following example shows how to disable logging in using a password:

```
R-PHY(config)#ssh password off
```

ssh pubkey

To add or delete Secure Shell public keys for SSH login authentication on the SSH server, use the following commands in global configuration mode.

ssh pubkey add *key_string*

ssh pubkey delete *key_string*

Syntax Description

add	To add SSH public keys for the SSH server.
delete	To delete SSH public keys for the SSH server.
key_string	The pubkey that you want to add or delete.

Command Default

None.

Command Modes

Global configuration.

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

When you use the SSH pubkeys, enable the SSH password by using the command **ssh password on**. The SSH pubkeys cannot access the RPD, if the SSH password is turned off.

This example shows how to add an SSH pubkey:

```
R-PHY(config)#ssh pubkey add ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAQEA5tw982v/qsAm/sap4+BrMTi4ENFf4/
Z9PbDFc5cLxCdfrLTYpylSnFKoGzZekaiDAr0xejHsxMtPtx/sNKF/
e839ahVyo9bZEQHd2gothG3uGB9gMpX7v/jQp0EBg83LwFEQcidmIYaaSRS8g6+jzThhKkGllBfv/
xafcA0DFY0eoVWBEuvVLgPR3Ywy8sCXns4aAAApuWEu3Zuo5r6F0bDxW1ztHfgFXi6raJXw98AHVPXB6XZsiN7sUXA6dr/
dtNJUUeojRVLmF+ini2NTizQ== user@SSH_server
Pubkey added. Certificate fingerprint (MD5): 4c:a8:48:1a:cd:ce:fc:b1:a0:3c:e9:80:5e:11:5f:0f
```

This example shows how to delete an SSH pubkey:

```
R-PHY(config)#ssh pubkey del ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAQEA5tw982v/qsAm/sap4+BrMTi4ENFf4/
Z9PbDFc5cLxCdfrLTYpylSnFKoGzZekaiDAr0xejHsxMtPtx/sNKF/
e839ahVyo9bZEQHd2gothG3uGB9gMpX7v/jQp0EBg83LwFEQcidmIYaaSRS8g6+jzThhKkGllBfv/
xafcA0DFY0eoVWBEuvVLgPR3Ywy8sCXns4aAAApuWEu3Zuo5r6F0bDxW1ztHfgFXi6raJXw98AHVPXB6XZsiN7sUXA6dr/
dtNJUUeojRVLmF+ini2NTizQ== user@SSH_server
find key and delete one pubkey
WARNING! No Pubkeys In System,If set 'ssh password off',will not be able to access the RPD
```

startup-capture enable

To enable or disable capturing the start-up configuration details and configure the start-up parameters, use the follwoig commands:

startup-capture enable *duration file_num delay tcpdump_para*

```
startup-capture disable
```

Syntax Description

duration	Capture duration in minutes.

file_num	Maximum number of capture files.
delay	Delay, in seconds, for starting the TCP dump.
tcpdump_para	`tcpdump` parameter string.

Command Default

None.

Command Modes

Global configuration.

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

None.

This example shows how to configure the RPD for capturing the startup configuration:

```
R-PHY(config)#startup-capture enable 10 5 60 -p -i any
duration 10 minutes, max_files 5, tcpdump para:-p -i any, startup_delay 60
enabled startup tcpdump, for next RPD reload
```

This example shows how to disable the capturing of the startup configuration:

```
R-PHY(config)#startup-capture disable
```

tacacs add-key

To add the encryption key of TACACS servers, use the **tacacs add-key** command.

tacacs add-key

Syntax Description

This command has no arguments or keywords.

Command Default

None.

Command Modes

Global configuration

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

None.

This example shows how to add an encryption key of the TACACS server.

```
R-PHY(config)#tacacs add-key
Please add a secret key:lab
Please re-enter your secret key:lab
Add secret key successfully.
```

tacacs add-server

To add a TACACS+ server, use the **tacacs add-server** command.

tacacs add-server *ip*

Syntax Description

ip	IP address of the TACACS server.

Command Default

None.

Command Modes

Global configuration

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines

None.

This example shows how to add a TACACS+ server:

```
R-PHY(config)#tacacs add-server 10.1.1.1
    Server '10.1.1.1' is configured on RPD successfully.
```

tacacs change-key

To change the encryption key of TACACS servers, use the **tacacs change-key** command.

tacacs change-key

Syntax Description

This command has no arguments or keywords.

Command Default

None.

Command Modes

Global configuration

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines None.

This example shows how to change the encryption key of TACACS servers:

```
R-PHY(config)#tacacs change-key
Please change secret key:123
Please re-enter your secret key:123
Change secret key successfully.
```

tacacs delete-server

To delete a TACACS server, use the **tacacs delete-server** command.

tacacs delete-server *ip*

Syntax Description

ip	IP address of the TACACS server.

Command Default None.

Command Modes Global configuration.

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced.

Usage Guidelines None.

This example shows how to delete a TACACS server:

```
R-PHY(config)#tacacs delete-server 10.1.1.1
Warning: This is the last TACACS server configured on RPD,
are you sure to delete this? [No/Yes]
yes
Delete server '10.1.1.1' successfully.
```

terminal length

To set the number of lines of output to display on the terminal screen for the current session, use the **terminal length** command in privileged EXEC mode.

terminal length *length*

Command Default None.

Command Modes Privileged EXEC (#)

Command History

Release	Modification
Cisco 1x2 / Compact Shelf RPD Software 2.1	This command was introduced on the Cisco Remote PHY Device.

The following is a sample output of the **terminal length** command:

```
R-PHY# terminal length 50
```