

Managing the Device (CPE and WBS)

CHAPTERS

- 1. Manage System Logs
- 2. Specify the Miscellaneous Parameters
- 3. Configure Ping Watch Dog
- 4. Configure Dynamic DNS
- 5. Configure Web Server
- 6. Configure SNMP Agent
- 7. Configure SSH Server
- 8. Configure RSSI LED Thresholds



This guide applies to:

CPE610(UN) 1.0, CPE520(UN) 3.0, CPE510(UN) 3.0, CPE210(UN) 3.0, CPE210(EU) 3.0, CPE220(UN) 3.0, CPE510(UN) 1.0, CPE510(UN) 2.0, CPE210(UN) 1.0, CPE520(UN) 2.0, CPE520(UN) 1.0, CPE520(UN) 2.0, WBS210(UN) 2.0, WBS210(UN) 2.0, WBS510(UN) 2.0, CPE520(UN) 2.0, CPE520(UN) 2.0, WBS210(UN) 2.0, WBS210(UN) 2.0, WBS510(UN) 2.0, CPE520(UN) 2.0, CPE520(UN) 2.0, WBS210(UN) 2.0, WBS210(UN) 2.0, WBS510(UN) 2.0, CPE520(UN) 2.0, CPE520(UN) 2.0, WBS210(UN) 2.0, WBS210(UN) 2.0, WBS510(UN) 2.0, CPE520(UN) 2.0, CPE520(UN) 2.0, WBS210(UN) 2.0, WBS210(UN) 2.0, WBS510(UN) 2.0

This guide introduces how to manage CPE/WBS products:

- 1. Manage System Logs
- 2. Specify the Miscellaneous Parameters
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The following parts detailedly introduces these features.

1 Manage System Logs

System logs record the events and activities while the device is running. If a failure happens on the router, System logs can help to diagnose the issue.

1) Go to the **Management** page. In the **System Log** section, you can perform the following operations.



System Log	
Open System Log:	Open
Download to PC:	Download
Auto Mail Settings:	Setting
Auto Mail Feature:	Disabled

Open System Log

Click the Open button to view the system log.

	Time	Туре	Level	Message
1	2015-01-01 00:00:05	OTHER	INFO	System started
2	2015-01-01 00:00:16	OTHER	WARNING	LAN IP and mask changed to 192.168.0.254 255.255.255.0
his I	page displays	s detaile	ed syste	m logs that can be sorted on colu

Download to PC Click the Download button to download the system logs to your PC.

2) Click the Setting button to specify the Auto Mail Settings.

	0 16 1		
Figure 1-2	Specitvina	Auto	Mail Settings

Auto Mail Settings		
SMTP S User Pas Confirm Pas	From:	
From	Enter the sender's E-mail address.	
То	Enter the receiver's E-mail address.	
SMTP Server	Enter the IP address of the sender's SMTP server.	
Authentication	Enable or disable the authentication function. If the sender's mailbox is configured. You can check the box to enable mail server authentication. Enter the sender's username and password.	
Auto Mail Feature	Enable or disable Auto Mail Feature. With this feature enabled, you can specify the way for the device to send the system log.	

2 Specify the Miscellaneous Parameters

This section is used to specify miscellaneous parameters.

1) Go to the **Management** Page. In the **Miscellaneous** section, configure the following features and click *Apply*.

Figure 2-1 Specifying the Miscellaneous Parameters

liscellaneous		
Discover	y: ✓ Enable 💡	
CDP: 🗹 Enable 🛛 🧑		
	Apply	
Discovery	Enable or disable Discovery. With this feature enabled, TP-Link Pharos Contro software can discover the device. Pharos Control is a network managemer software developed independently by TP-Link and it currently supports Pharo series products. It can centralize monitoring and managing network devices i the network platform	
CDP	Enable or disable CDP. With this function enabled, this device can share it information with the neighboring devices that support CDP (Cisco Discover Protocol, a device discovery protocol developed by Cisco).	

2) Click Save.

3 Configure Ping Watch Dog

Ping Watch Dog sets the device to continuously ping a user-defined IP address (it can be the internet gateway, for example) to check the network connectivity. If there is a connection failure then the device will automatically reboot.

Ping Watch Dog is dedicated to continuously monitoring the connectivity to a specific host using the Ping tool. The Ping tool sends ICMP echo request packets to the target host and listens for ICMP echo response. If the defined number of replies is not received, the tool reboots the device.

1) Go to the **Management** Page. In the **Ping Watch Dog** section, Enable this feature and configure the following features. Click *Apply*.

Ping Watch Dog				
Ping W	/atch Dog:	 Enable 		
IP Address To Ping:		0.0.0.0		
Pin	g Interval:	: 300 r: 300	(10-300) seconds	
Star	tup Delay:		(60-300) seconds	
Fail Count T	To Reboot:	3	(1-65535)	
Ping Watch Dog	Enable	or disable Pin	g Watch Dog.	
IP Address To Ping	Specif packet	Specify the IP address of the target host to which the device will send pin packets.		
Ping Interval	Enter the time interval between two ping packets. The default value is 300 seconds.			
Startup Delay	Enter t sent by	the initial time y Ping Watch D	delay from device start og. The default value is	up to the first ICMP echo requests 300 seconds.
	The S ^r initializ	tartup Delay v ation time in ac	alue should be at leas ccount.	at 60 seconds taking the device's
Fail Count To Reboot	Enter the fail count of ICMP echo request. If the device sends the specified count of ICMP echo requests to the host and none of the corresponding ICMF echo response packets is received. Ping Watch Dog will report the device. The			

default value is 3.

Figure 3-1 Configuring Ping Watch Dog

2) Click Save.

4 Configure Dynamic DNS

Note:

The Dynamic DNS function is only available in AP router and AP Client router (WISP Client) mode.

The main function of Dynamic DNS (DDNS) is mapping the fixed domain name to dynamic IP address.

When a device connects to the internet through PPPoE or Dynamic IP, the WAN IP address it gets is not fixed, which is inconvenient for the internet users to access the servers in the local area network through IP address. With Dynamic DNS function enabled, users can access servers using a fixed domain name.

The DDNS server will establish a mapping table about the dynamic IP address and the fixed domain name. When the WAN IP address of the device changes, it will make an update request to the specified DDNS server, and then the DDNS server will update the mapping relation between the IP address and the domain name. Therefore, whenever the WAN IP address changes, users on the internet can still access the servers in the local area network using a fixed, easy-to-remember domain name.

The DDNS function that serves as the client of DDNS service must work with DDNS server. Please register an account to DDNS service provider (NO-IP, Dyndns or Comexe) first.

1) Go to the **Management** page. In the **Dynamic DNS** section, configure the following parameters and click *Login*.

Duran in DNC	
Dynamic DNS	
Service Provider:	Dyndns (www.dyndns.com)
Dynamic DNS:	Enable
User Name:	
Password:	Show
Domain Name:	
Connection Status:	Not launching.
	Login Logout
Service Provider	Select the service provider.
Dynamic DNS	Enable or disable the Dynamic DNS feature.
User Name	Enter the user name of your DDNS account.
Password	Enter the password of your DDNS account.

Figure 4-1 Configuring Dynamic DNS

Domain Name	Specify the domain name that you registered with your DDNS service provider.
Connection Status	Displays the connection status of the DDNS service.

2) Click Apply, then click Save.

5 Configure Web Server

This function is used to configure the related parameters of Web server. Users can log in to the web management page to manage this device remotely over the internet through Web Server.

1) Go to the **Management** page. In the **Web Server** section, configure the following parameters and click *Apply*.

Web Server		
Secure Connection (HTTPS):	Enable	
Secure Server Port:	443]
Server Port:	80]
Remote Login IP Address:	0.0.00	0
Session Timeout:	15	minutes
MAC Authentication:	 Enable 	-
MAC1:		
MAC2:		
MAC3:		
MAC4:		Add PC's MAC

Figure 5-1 Configuring Web Server

Secure Connection (HTTPS)	Enable or disable the HTTPS feature. HTTPS function is based on the SSL or TLS protocol working in transport layer. It supports a security access via a web browser.
Secure Server Port	Specify the server port number used in HTTPS. The default value is 443.
Server Port	Specify the server port number used in HTTP. The default value is 80.
Remote Login IP Address	Specify the IP address of the remote host. With this configured, the remote device can access the management interface remotely.
Session Timeout	Specify the session timeout time. The system will automatically release the connection when the time is up.

MAC Authentication	Enable or disable MAC Authentication. When it is enabled, you can specify up to four MAC address for authentication.
	With this function enabled, only the device whose MAC address is in the MAC list can access the management interface to configure the device.
	You can click Add PC's MAC to quickly add your PC's MAC address to the MAC list.

2) Click Apply, then click Save.

6 Configure SNMP Agent

You can get the traffic information and transmit condition by using the SNMP Agent function.

Simple Network Management Protocol (SNMP) is an application layer protocol that facilitates the exchange of management information between network devices. Main functions of SNMP include monitoring network performance, detecting and analyzing network error, configuring network devices, and so on. When the network working normally, SNMP can monitor the statistics, configuration. When networks have troubles, SNMP can detect and restore these troubles.

Configure the device as SNMP Agent, and it can receive and process the management message from the network management system.

1) Go to the **Management** page. In the **SNMP Agent** section, configure the following parameters and click *Apply*.

SNMP Agent		
SNMP Agent:	Enable	
SysContact:		
SysName:		
SysLocation:		
Get Community:	public	
Get Source:	0.0.0.0	
Set Community:	private	
Set Source:	0.0.0.0	

Figure 6-1 Configuring SNMP Agent

SNMP Agent	Enable or disable the SNMP Agent function.
SysContaact	Enter the textual identification of the contact person for this the device, for example, contact or e-mail address.
SysName	Enter a name for the device.
Syslocation	Enter the location of the device. For example, the name can be composed of the building, floor number, and room location.
Get Community	Specify the community that has read-only access to the device's SNMP information.
Get Source	Enter the IP address that can serve as Get Community to read the SNMP information of this device.

Set Community	Specify the community who has the read and write right of the device's SNMP information.
Set Source	Enter the IP address that can serve as Set Community to read and write the SNMP information of this device.

_ _ _

2) Click Apply, then click Save.

Note:

Defining community can allow management systems in the same community to communicate with the SNMP Agent. The community name can be seen as the shared password of the network hosts group. Thus, for the safety, we suggest modifying the default community name before enabling the SNMP Agent service. If the field of community is blank, the SNMP Agent will not respond to any community name.

7 Configure SSH Server

The SSH Server function is used for the users to log in and manage the device through SSH connection on the SSH client software.

SSH (Secure Shell) is a security protocol established on application and transport layers. SSH-encrypted-connection is similar to a telnet connection, but essentially the old telnet remote management method is not safe, because the password and data transmitted with plain-text can be easily intercepted. SSH can provide information security and powerful authentication when you log in this device remotely through an insecure network environment. It can encrypt all the transmission data and prevent the information in remote management from being leaked.

1) Go to the **Management** page. In the **SSH Server** section, configure the following parameters and click *Apply*.

Figure 7-1	Configuring SSH Server
0	

SSH Server	
s	erver Port: 22
s	SH Login: Enable
Remote Ma	nagement: 🗹 Enable 🧿
Server Port	Enter the TCP/IP port of the SSH Server. The default port is 22.
SSH Login	Enable or disable SSH function.
Remote Management	Enable or disable Remote Management. With this function enabled, TP-Link Pharos Control software can manage the device remotely.

2) Click Save.

8 Configure RSSI LED Thresholds

You can configure the LEDs on the device to light up when received signal levels reach the values defined in the following fields. This function can help a technician to easily deploy a Pharos series product without logging into the device (for example, for antenna alignment operation).

Go to the Management page. In the RSSI LED Thresholds section, configure				
Figure 8-1 Configuri	ing RSSI LED Thresholds			
RSSI LED Threshol	ds			
Thresholds (dBr	LED1 LED2 LED3 LED4 m): -94 -80 -73 -65			
	Apply			
LED1/LED2/ LED3/LED4	Displays the LED number.			
Thresholds	Specify the threshold for the desired LED. The specified LED will light up the signal strength reaches the values in the field. The default values are s according to the verified optimum values. We recommend you keep it by defau			

2) Click Apply, then click Save.