

User Guide

DeltaStream PON Management System

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About this Guide

This User Guide provides information for centrally managing TP-Link DeltaStream GPON OLT (Optical Line Terminal) devices via DPMS (DeltaStream PON Management System). Please read this guide carefully before operation.

Intended Readers

This User Guide is intended for network managers familiar with IT concepts and network terminologies.

Conventions

When using this guide, notice that:

- Features available in DPMS and GPON OLT devices may vary due to your region, software version, and device model. All images, steps, and descriptions in this guide are only examples and may not reflect your actual experience.
- The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute the warranty of any kind, express or implied. Users must take full responsibility for their application of any products.
- This guide uses the specific formats to highlight special messages. The following table lists the notice icons that are used throughout this guide.

() Note	Remind to take notice. The note contains the helpful information for a better use of the product.
Configuration Guidelines	Provide tips for you to learn about the feature and its configurations.

More Information

For technical support, the latest version of the User Guide and other information, please visit <u>https://service-provider.tp-link.com/.</u>

To ask questions, find answers, and communicate with TP-Link users or engineers, please visit https://community.tp-link.com to join TP-Link Community.

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Overview

The chapter includes the following sections:

- 1.1 Overview of DeltaStream GPON Solution
- 1.2 GPON Network Component

The following table shows the technical terminologies used in this chapter.

Acronym	Full Name
DPMS	DeltaStream PON Management System
GPON	Gigabit-Capable Passive Optical Network
ISP	Internet Service Provider
OLT	Optical Line Terminal
ONU	Optical Network Unit
ONT	Optical Network Terminal
FTTH	Fiber To The Home
FTTB	Fiber To The Building

♥ 1.1 Overview of DeltaStream GPON Solution

DeltaStream GPON Solution is designed for the ISP to provide business-class networking services for its customers via GPON, which comprises OLTs in the ISP's side, ONUs in the users' side, and the ODN between them.

DPMS offers centralized management for configuring GPON of the ISP. DPMS simplifies deploying, configuring and monitoring the GPON networks by managing all the GPON-related devices at multiple sites from one central platform. This unleashes new levels of management to avoid complex and costly overprovisioning. With the help of DPMS, you can develop reliable to meet diverse demands of the customers in each scenario.

The following figure shows a simple architeture of GPON and DPMS.



1.2 GPON Network Component

The following figure shows a typical network topology of FTTH (Fiber to the Home) service.



The GPON Network consists o	of the following components.
-----------------------------	------------------------------

Component	Description
DPMS	DPMS is the cetralized management platform of all the GPON-related devices. To make sure that the DPMS can detect and adopt the OLTs, DPMS should have network access to those devices.
OLT	OLT, such as DS-P7001-08, is the core GPON network device, located at the ISP's central office. GPON networks are extended from the PON ports of OLT, and oriented to the locations of ISP's end users. OLT is uplinked, via the SFP+/SFP/GE ports, to the ISP's L3 Switch, connected to the ISP central network and internet.
ONU	ONU is deployed at the end user's location, and used to access the GPON network of ISP. ONU is uplinked to the GPON network and have downlink ports connected to the user's local network. The user's devices, such as PC, IPTV, and IP Phone, enjoy multiple ISP's services via the connection between ONU and OLT. ONUs are managed and controlled by the OLT via OMCI (ONT Management and Control Interface). There are different types of ONUs, such as HGU (Home Gateway Unit) and SFU (Single Family Unit).
ODN	ODNis a network that consists of optical fibers and passive optical components, such as one or more optical splitters. The ODN network provides highly reliable optical paths to connect ONUs to an OLT.
L3 Switch of ISP	The layer 3 switch is the core component of the ISP's central network, which is used to distribute traffic various services.
Servers of ISP	The servers of ISP provide multiple services for the users' client via the GPON network. The servers include the PPPoE server (for internet access service), the IPTV server, the SIP server (for VOIP service), and so on.
Clients of Users	Clients of users include PC, IPTV, IP Phone, and so on.



Get Started with DPMS

This chapter guides you on how to get started with DPMS to configure the GPON. including the initial setup steps, building your network topology, deploying your DPMS, and logging in to the DPMS.

✤ 2.1 Install DPMS

DPMS can be hosted on any computers with Windows systems on your network. Make sure your PC's hardware and system meet the following requirements, then properly install the DPMS.

Hardware Requirements

DPMS can manage up to 500 OLTs if the DPMS Host has enough hardware resources. To guarantee operational stability for managing 500 OLTs, we recommend that you use the hardware which meets or exceeds the following specifications:

CPU: Intel Core i3-8100, i5-6500, or i7-4700 with 2 or more cores and 4 or more threads.

Memory: 6 GB RAM or more.

System Requirements

Operating System: Microsoft Windows 7/8/10/Server. (We recommend that you deploy DPMS on a 64-bit operating system to guarantee the software stability.)

Web Browser: Mozilla Firefox 83 (or above), Google Chrome 89 (or above), Safari, or Microsoft Internet Explorer 11 (or above).

Install DPMS

Ensure that the Java Runtime Environment (JRE) have been installed in your system. The DPMS requires that the system have Java 8 installed. Download the installation file of DPMS from the <u>website</u>. Then follow the instructions to properly install DPMS. After a successful installation, a shortcut icon \mathbb{P}^{ME} of the DPMS will be created on your desktop.

2. 1. 1 Start and Log In to the DPMS

Launch DPMS and follow the instructions to complete the basic configurations, and then you can log in to the management interface.

Launch DPMS

Double click the icon and the following window will pop up. After the initialization process, click Launch to open the webpage of DPMS in your web browser.

Ptp-link DPMS v1.0.12 - TP-Link	_	×
	•	
DPMS v1.0.12 Started		
Details: [2021-09-14 09:01:49] Mongo DB server started [2021-09-14 09:03:25] DPMS is started		
Launch		

① Note:

- To open the webpage of DPMS, you can also launch a web browser and enter https://127.0.0.1:8443 in the address bar.
- If your web browser opens but prompts a problem with the website's security certificate, click Continue.

Do the Basic Configurations

Follow the setup wizard to complete the basic settings for DPMS.

1. Click Let's Get Started.

DPMS
Welcome to use DPMS Please follow the wizard to set up your DPMS.
Let's Get Started

2. Specify a name for your DPMS, and set your region and timezone. Then click Next.

1 DPMS Setup Wizard	2 Create Site	3 Adopt Devices	(4) DPMS Access	5 Summary
	D	PMS Setup Wizard		
	DPMS Na	ame:		
	Country/F	Region : Select V	(Optional)	
	Timezone Please S	e: Select V	(Optional)	

3. You need to create sites to manage the devices. You can manage each area independently by assigning different administrators to each site.

1 DPMS Setup Wizard	2 Create Site	3 Adopt Devices	(4) DPMS Access	5 Summary
		Create Site		
	You need to You can ma assigning d	o create sites to manage the device inage each area independently by ifferent administrators to each site.	PS.	
	Site Nam	e:		
	Address		(Optional)	
	Network	Manager :	(Optional)	
	Phone N	umber:	(Optional)	
	E-mail:		(Optional)	
	Note :		(Opuonar)	
			(Optional)	

4. The setup page displays all the discovered devices in the network. Select one or more devices to adopt and add to the site. Click Next.

OPMS Setup Wizard		2 Create Site	3 Adopt Device	es (4)	DPMS Access 5 Summary
			Adopt Devices		
		Please select the devices	s that you want to add to the site	e created in the last step.	
		 DPMS will use the adopt devices. If devices, you need 	e default Username and Passwo you have changed the Usernan d to re-adopt them later in the I	ord (admin/admin) to ne and Password of the Device List.	
					C Refresh
DEVICE NAME	MODEL		IP ADDRESS	MAC ADDRESS	5
DS-P7001-08_000000	DS-P7001	-08 1.0	192.168.1.1	00-00-00-00-00-0	0 The username and password have been changed
					Showing 1-1 of 1 records \langle < 1 \rangle 10 / page \vee

() Note:

- DPMS will use the default Username and Password (admin/admin) to adopt devices. If you have changed the Username and Password of the devices, you need to re-adopt them later in the Device List.
- You can click Skip to skip this step, and then adopt the devices in the Device List.

5. Create an administrator username and password for local login to DPMS. Click Next.

OPMS Setup Wizard	Create Site	Adopt Devices	4 DPMS Access	5 Summary
		DPMS Access		
	Create	an administrator username and word for local login to DPMS.		
	Admin Na	ne:		
	Password	:		
	Passwor	d 💋		
	Confirm P	assword:		
	Passwor	d 💋		
	E-mail (O	otional):		
	Alerts Em	ails:		
	When enab mailbox of i site.	led, alert emails are sent to the network manager who manages the		

6. Review your settings and click Finish.

OPMS Setup Wizard	Create Site		Adopt Devices	DPMS Access	— 5 Summary
		Succ	eeded!		
	Please confi you will be d	rm the setting irected to the	gs below. Once finished, e management interface.		
	DPM	S Name:	TP-Link_DPMS		
	Country	/Region:	United States		
	Ті	mezone:	(UTC-08:00) Pacific	Time (US & Canada)	
	Sit	te Name:	TP-Link		
	Admi	in Name:	admin		

Log In to the Management Interface

Once the basic configurations are finished, the browser will be redirected to the following page. Log in to the management interface using the username and password you have set in the basic configurations.

If you forgot your password, click Forgot Password? and enter your TP-Link ID (email address). Then an email will be sent to you for password reset.

DPI	
🔹 🛛 admin	
Password	ø
Remember Me	Forgot Password?
Log	



Manage Devices and Sites

Start managing your network by creating sites and adopting devices so that you can configure and monitor your devices centrally while keeping things organized.

✤ 3.1 Create Sites

Overview

Different sites are logically separated network locations, like different subsidiaries or offices of the ISP. It's best practice to create one site for each location and add all the devices within the network to the site, including the OLTs and ONUs.



Configuration

To create sites, follow these steps:

1. Go to Site. Click Add New Site. Configure the parameters and click Apply.

Add Site		Х
Site Name:	(1-32 characters)	
Address:	(Optional, 1-128 characters)	
Network Manager:	(Optional, 1-32 characters)	
Phone Number:	(Optional, 1-32 characters)	
E-mail :	(Optional, 1-128 characters)	
Note :	(Optional, 1-256 characters)	
	Apply Cance	el

2. You can click $\boxed{2}$ in the site list to edit the site configuration. You can click $\boxed{1}$ to delete the site.

P	tp-link DPMS
90	Site List
	Site Name Q
	▼ TP-Link
C	
. <mark>(2</mark>	
ප	Add New Site
6	Aud New Site

✤ 3.2 Adopt Devices

1. To add a device to the site, go to Devices. The devices which has been discovered by DPMS appear in the list and the status is Pending.

OLT(1)	ONU(0) All(1) (Dnine(0) Pending(1) Offline(0) Search		Q			2	Discard List 🕀	Batch ~
	DEVICE NAME	SITE	IP ADDRESS	MAC ADDRESS	STATUS 🍦	MODEL	VERSION	UPTIME	ACTION	Ψ
	DS-P7001-08_000000	-	192.168.1.1	00-00-00-00-00-00	Pending	DS-P7001-08 1.0	1.0.0 Build 20210604 Rel.13642	3h 44m 0s	⊘ ⊗	
								Showing 1-1 of 1 records	s < 1 > 10/p	page \vee

2. Select the device and click O. Select the desired site and enter the username and password to adopt the device. Then click Apply.

Adopt			
Site :	TP-Link	~	
UserName :	admin		
Password :	•••••	ø	

3. Go to Site. Select the site from the site list and the devices of the site are displayed in the device list.

ዯ	ep-link DPMS		C 💿 :
88	Site List	Liste Topology	
0	Site Name Q,	OLT(1) ONU(0) All(1) Online(1) Pending(0) Offine(0) Search Q	
٥	♥ TP-Link 🗹	DEVICE NAME SITE IP ADDRESS MAC ADDRESS STATUS :	MODEL VERSION ACTION T
0 @		DS-P7001-08_000000 TP-Link 192.168.1.1 00-00-00-00-00 Online	DS-P7001-08 1.0 1.0.0 Build 20210604 Rel.13642 🔮 🕕 🛱 ***
E			Showing 1-1 of 1 records $-<$ (1) $>$ (10 / page \lor
	Site List	Device Li	ist
8			
0	Add New Site		

4. In the Topology tab, you can view the connections between all the OLTs and ONUs and get an intuitive overview of the whole network of the site.

Lists	Topology						
						13	+
				- 0000			
		TP-Link	<	- 0000	>		
				DS-P7001-08_000000			

Chapter 3 **3.3 Manage Devices**

Overview

After you adopt the devices, you can view the basic information of the devices and perform basic operations on the devices according to your needs. You can go to the individual page of an OLT to configure its network.

Configuration

1. Go to Devices, you can view the basic information of the devices in a list. You can select which kinds of devices to display in the list, whether OLTs or ONUs. Also, you can choose to display the devices of a certain status by selecting a tab. If you have many devices, you can search the information of certain devices using the search bar.

OLT(1)	ONU(0) All(1) O	Inline(1) Pending(0)	Offine(0) Search.		Q			52	Discard List 🕀	Batch V
	DEVICE NAME	SITE	IP ADDRESS	MAC ADDRESS	STATUS ≑	MODEL	VERSION	UPTIME	ACTION	Ψ
	DS-P7001-08_000000	TP-Link	192.168.0.1	00-00-00-00-00-00	Online	DS-P7001-08 1.0	1.0.0 Build 20210604 Rel. 13642	49m 51s	\$ U	B
Onli	Online The device has been adopted by DPMS and it is powered on and connected to the network.									
Pen	Pending The device has been discovered by DPMS and has not been adopted.									
Offli	ne		The dev network	ice has bee	n adopted b	by DPMS but	it is powered off o	r disconnec	ted from	n the

In the ACTION column, you can perform basic operations on the device, including upgrading, rebooting, moving to another site, removing, denying, and editing the deivce. Alternatively, you can click Batch v and select the operations to perform on devices in batches.

DEVICE NAME	SITE	IP ADDRESS	MAC ADDRESS	STATUS ≑	MODEL	VERSION	UPTIME	ACTION	
DS-P7001-08_000000	TP-Link	192.168.0.1	00-00-00-00-00	Onine	DS-P7001-08 1.0	1.0.0 Build 20210604 Rel. 13642	49m 51s	습 ()) 🖪
슢	To r to u	manaully up Ipload a firm	ograde the o nware file ar	device, clic nd set the c	k the button other parame	and a window pop ters. Then click Upo	s up. Click grade.	Upload	
U	To r clic	reboot the k <mark>Reboot</mark> . It	device, clici is recommo	k the butto ended that	n and a wind you save the	ow pops up. Set th current configurat	e paramete ion before	ers and reboot.	
₽	To r des	move the d ired site wh	evice to and here you wa	other site, o nt to move	click the butto the device ar	on and a window pond click Apply.	ops up. Sel	ect the	
	_	amaya da	ny or odit th	e device c	lick the butto	on and select the or	ntion accor	dina to	

 Chapter 3
 Manage Devices and Sites

 3. You can click the device name to go to the individual page of the OLT and configure its network. For
 detailed configurations on this page, refer to the User Guide of OLTs.

	_	Port Information Port (Config							
		Line List								
DS-P7001-08_000000										
Back to Device List										C Refres
Save the Configuration		PORTID	STATUS	ONLINE ONU NUMBER	MAXIMUM AVAILABLE BANDWIDTH	BANDWIDTH IN USE	REMAINING BANDWIDTH	OPTICAL VCC	OPTICAL BIAS	OPTICAL POWER
ON	^	PON 1/0/1	Enable	0	1242432 kbps	0 kbps	1212928 kbps	3.36 V	14.98 mA	5.01 dBm
PON Port		PON 1/0/2	Enable							
Profile		PON 1/0/3	Enable							
ONU Register		PON 1/0/4	Enable							
ONU Management		PON 1/0/5	Enable							
Service Port		PON 1/0/6	Enable							
Feature	~	PON 1/0/7	Enable							
Feature	~	PON 1/0/8	Enable							
lticast	~								Showing 1-8 of 8 records	$<$ 1 $>$ 10 / page \lor
s Management	~									
curity	~									
intenance	~									
stern	v									



Configure DPMS

DPMS Settings control the appearance and behavior of DPMS and provide methods of data backup, restore:

- <u>4. 1 General SettingsGeneral Settings</u>
- 4. 2 Manage DPMS Remotely via Cloud Access
- 4.3 Maintenance
- 4.4 Auto Backup

✤ 4.1 General Settings

4.1.1 Basic Settings

Go to Settings > General Settings. In Basic Settings, configure the parameters and click Apply.

Basic Settings

DPMS Server Name :	TP-Link_DPMS			
Time Zone :	(UTC-08:00) Pacific Time (US & Canada)			
History Data Retention:	7 Days 🗸			
Apply Canc	el			
DPMS Serever Name	Specify the DPMS Server Name to identify your DPMS.			
Time Zone	Select the Time Zone of DPMS according to your region. For DPMS settings, time is displayed based on the Time Zone.			
History Data Retention	Select how long DPMS retains its data. Any history data beyond the time range is dropped.			

4.1.2 Services

Go to Settings > General Settings. In Services, configure the parameters and click Apply.

Services

Alert Emails :	
	Send similar alerts within 60 seconds in one email.
Remote Logging :	
Syslog Server IP / Host I	lame :
Syslog Server Port :	(1-65535)
Apply Can	cel
Alert Emails	Enable alert emails: When enabled, DMPS can send emails to notify the administrators operators and viewers of the alert logs once generated.
	Send similar alerts within seconds in one email: When enabled, the similar alerts generated in each time period are collected and sent to administrators, operators and viewers in one email.
	To configure alert-level logs and enable email notifications on DPMS, refer to <u>5. 3. 3</u> Notifications
Remote Logging	With this feature configured, DPMS will send generated logs to the log server. When enabled, the following items are required:
	Syslog Server IP/Hostname: Enter the IP address or hostname of the log server.
	Syslog Server Port: Enter the port of the server.

4.1.3 Mail Server

Overview

With the Mail Server, DPMS can send emails for resetting your password, pushing notifications, and delivering the system logs. The Mail Server feature works with the SMTP (Simple Mail Transfer Protocol) service provided by an email service provider.

Configuration

- 1. Log in to your email account and enable the SMTP (Simple Mail Transfer Protocol) Service. For details, refer to the instructions of your email service provider.
- 2. Go to Settings > General Settings. In Mail Server, enable SMTP Server and configure the parameters. Then click Apply.

Mail Server	
SMTP Server:	
With the Mail Server, the system logs. Configure	e DPMS Server can send emails for pushing notifications, and delivering the Mail Server carefully.
SMTP:	
Port :	25 (1-65535)
SSL:	
Authentication :	
Sender Address :	(Optional)
Test SMTP Server:	Test
Apply Car	ncel
SMTP	Enter the URL or IP address of the SMTP server according to the instructions of the email service provider.
Port	Configure the port used by the SMTP server according to the instructions of the email service provider.
SSL	Enable or disable SSL according to the instructions of the email service provider. SSL (Secure Sockets Layer) is used to create an encrypted link between DPMS and the SMTP server.

Authentication	Enable or disable Authentication according to the instructions of the email service provider. If Authentication is enabled, the SMTP server requires the username and password for authentication.
Username	When Authentication is enabled, enter your email address as the username.
Password	When Authentication is enabled, enter the authentication code as the password, which is provided by the email service provider when you enable the SMTP service.
Sender Address	(Optional) Specify the sender address of the email. If you leave it blank, DPMS uses your email address as the Sender Address.
Test SMTP Server	Test the Mail Server configuration by sending a test email to an email address that you specify.

4.1.4 Access Configuration

Go to Settings > General Settings. In Access Configuration, configure the parameters and click Apply.

Access Configuration

68.0.66:8443				
8443 (443 or 1024-65535)				
PS port, restart the DPMS Server L https://DPMS Server Host's IP / rver.	to make the change Address or URL:port			
ostname or IP address of DPMS v email for resetting your DPMS pa	which will be used as the Df ssword.	PMS URL in the		
HTTPS port used by DPMS for ma /[DPMS Host's IP address or URL of HTTPS port, restart DPMS to m	anagement. After setting th .]:[Port] to log in to DPMS. nake the change effective.	ne port, you can Once applying		
	28.0.66:8443 PS port, restart the DPMS Server L https://DPMS Server Host's IP / ver. Destname or IP address of DPMS v email for resetting your DPMS pa HTTPS port used by DPMS for ma /(DPMS Host's IP address or URL of HTTPS port, restart DPMS to mage	88.0.66:8443 (443 or 1024-65535) PS port, restart the DPMS Server to make the change L https://DPMS Server Host's IP Address or URL:port ver. Destname or IP address of DPMS which will be used as the DI email for resetting your DPMS password. HTTPS port used by DPMS for management. After setting the (DPMS Host's IP address or URL]:[Port] to log in to DPMS. of HTTPS port, restart DPMS to make the change effective.		

4.1.5 HTTPS Certificate

Overview

If you have assigned a domain name to the controller for login, to eliminate the "untrusted certificate" error message that will appear in the login process, you can import the corresponding SSL certificate and private key here. The certificate and private key are issued by the certificate authority.

() Note:

• You need to restart you controller for the imported SSL certificate to take effect.

Configuration

Go to Settings > General Settings. In HTTPS Certificate, import your SSL certificate and configure the parameters. Then click Save.

HTTPS Certificate						
SSL Certificate:	1 Import					
Keystore Password :	•••••• Ø					
Private Key Password:	Password Ø (Optional)					
Appiy						
Keystore Password	Enter the keystore password if your SSL certificate has the keystore password.					
Private Key Password	Enter the private key password if your SSL certificate has the private key password. Otherwise, leave it blank.					

✓ 4.2 Manage DPMS Remotely via Cloud Access

Overview

With Cloud Access, it's convenient for you to manage your DPMS from anywhere, as long as you have access to the internet.

Configuration

To manage your DPMS from anywhere, follow these steps:

- 1. Prepare your DPMS for Cloud Access
- () Note:
 - Before you start, make sure your DPMS Host has access to the internet.
 - If you have enabled cloud access and bound your TP-Link ID in the quick setup wizard, skip this step.
- 1) Go to Settings > Cloud Access. Enable Cloud Access.

Cloud Access	
Cloud Access:	()
Cloud Access Status:	CONNECTED

2) Enter your TP-Link ID and password. Then click Log In and Bind.

Log in and bind your TP-Link ID					
Enter the email used to log in to	address and password of your TP-Lir DPMS Server.	k ID, which is no	It the account that	you have	
TP-Link ID:	admin	No TP-L	ink ID? <u>Register no</u>	w	
Password :	•••••	3			
		L	ogin and Bind	Cancel	

3) After you have successfully bound the DPMS with your TP-Link ID, you can access the DPMS remotely and enjoy the cloud service on https://dpms.tplinkcloud.com.

✤ 4.3 Maintenance

4.3.1 User Interface

Overview

You can customize the User Interface settings of DPMS according to your preferences.

Configuration

Go to Settings > Maintenance. In User Interface, configure the parameters and click Apply.

User Interface

Use 24-hour time :	
Log/ Statistic/ Dashboard Timezone :	DPMS Server's V
Show pending devices:	
Refresh Button :	
Refresh Interval:	2 minutes V
Apply Cancel	
Use 24-Hour Time	With Use 24-Hour Time enabled, time is displayed in a 24-hour format. With Use 24-Hour Time disabled, time is displayed in a 12-hour format.
Log/Statistic/Dashboard Timezone	Select which Timezone the time of statistics and the dashboard is based on.
	Browser's (PC): Browser's Timezone is synchronized with the browser configuration.
	DPMS Server's: DPMS Server's Timezone is set in General Settings of DPMS.
	UTC: UTC (Coordinated Universal Time) is the common time standard across the world.
Show Pending Devices	With this option enabled, the devices in Pending status will be shown, and you can determine whether to adopt them. With this option disabled, they will not be shown, thus you cannot adopt any new devices.

Refresh Button	Enable or disable Refresh Button in the upper right corner of the configuration page.
Refresh Interval	Select how often the controller automatically refreshes the data displayed on the page.

4. 3. 2 Backup & Restore

Overview

You can backup the configuration and data of your DPMS to prevent any loss of important information. If necessary, restore DPMS to a previous status using the backup file.

Configuration

Backup

Go to Settings > Maintenance. In Backup & Restore, select the time range in the drop-down menu of Data Backup Retention. Only configuration and data within the time range is backed up. If you select Settings Only, only configuration (no data) is backed up. Click Download Backup Files to download the backup file to your computer.

Backup & Restore

Backup				
Backup Data Retention:	Settings Only	\sim	Download Backup Files	
Restore				
Restore File:	Please select a file.		Browse Restore	

Restore

Go to Settings > Maintenance. In Backup & Restore section, Click Browse and select a backup file from your computer. Click Restore.

Backup & Restore

Backup			
Backup Data Retention :	Settings Only	\vee	Download Backup Files
Restore			
Restore File :	Please select a file.		Browse

✤ 4.4 Auto Backup

Overview

With Auto Backup enabled, DPMS will be scheduled to back up the configurations and data automatically at the specified time. You can easily restore the configurations and data when needed.

Configuration

Auto Backup

To configure Auto Backup, follow these steps:

1. Go to Settings > Auto Backup. Click 🗩 to enable Auto Backup.



2. Configure the following parameters to specify the rules of Auto Backup. Click Apply.

Auto Backup:	
i Please set the time for Auto Backup at r cannot perform any operation during Auto	night, because the system o Backup.
Occurrence :	Every Month v at 1 v at 02:00 in (UTC-08:00) Pacific Time (US & Canada).
Maximum Number of Files :	7 (1-50)
Data Retention Days :	30 Days 🗸
Apply Cancel	
Occurrence	Specify when to perform Auto Backup regularly. Select Every Day, Week, Month, or Year first and then set a time to back up files.
	Note the time availability when you choose Every Month. For example, if you choose to automatically backup the data on the 31st of every month, Auto Backup will take effect on the last day of the month when it comes to the month with no 31st, such as February, April, and June.
Maximum Number of Files	Specify the maximum number of backup files to save.

Data Retention Days	Select the length of time in days that data will be backed up.
	Settings Only: Back up DPMS settings only.
	7 Days/30 Days/60 Days/90 Days/180 Days/365 Days: Back up the data in the recent 7 Days/30 Days/60 Days/90 Days/180 Days/365 Days.

All Time: Back up all data in DPMS.

You can view the name, backup time and size of backup files in Available Backup Files.

Available Backup Files			
FILE NAME	BACKUP TIME	SIZE	ACTION
autobackup_30days_20200525 _1026.cfg	2020-05-25 10:26:00 am	7.37 KB	000

To restore, export or delete the backup file, click the icon in the Action column.

5	Restore the configurations and data in the backup file. All current configurations will be replaced after the restoration.
	To keep the backup data safe, please wait until the operation is finished. This will take several minutes.
Z	Export the backup file. The exported file will be saved in the saving path of your web browser.
Ū	Delete the backup file.

(5)

Monitor the Network

This chapter guides you on how to monitor the network devices and their statistics. Through visual and real-time presentations, DPMS keeps you informed about the accurate status of the managed network. This chapter includes the following sections:

- 5.1 View the Status of Network with Dashboard
- 5. 2 View the Statistics of the Network
- 5. 3 View and Manage Logs

◆ 5.1 View the Status of Network with Dashboard

5. 1. 1 Page Layout of Dashboard

Dashboard is designed for a quick real-time monitor of the network. An overview of network is at the top of Dashboard, and the below is a tab bar followed with customized widgets.

0	1 Sites See More >		1 Online OLTs	<u>a</u>	0 Active ONUs	Disabled Claud Access Manage Cloud Access >	<u>ت</u>	15 All Alerts See More >
Overali 🗹 +								۲
OLT Devices						Pendin	g (0) Normal (1) Offine (0)	See All >
DEVICE NAME	SITE	IP ADDRESS	STATUS	MODEL	VERSION	ONU NUMBER	UPTIME	
DS-P7001-08_000000	TP-Link	192.168.0.1	Online	DS-P7001-08 1.0	1.0.0 Build 20210504 Rel.13	3642 0	1h 37m 30s	
ONU Devices							Active (0) Inactive (0)	See All >
DEVICE NAME		SITE		OLT DEVIC	CE	ONLINE STATUS MC	DDEL	
				Ho Data				

Network Overview

Network Overview on the top shows the numbers of sites, devices, and alerts, and the status of Cloud Access.



Tab Bar

You can customize the widgets displayed on the tab for Dashboard page. The Overall tab is created by default and cannot be deleted.

Overall 🚺 🕂	<u>ଚ</u>
Overall	Displays OLT Devices, ONU Devices, Alerts, Top Device Usage, and Most Active OLTs in 24 hours by default.
In the tab bar, you ca	n take the following action to edit the tabs and customize the widget to be displayed.
	Click the icon to edit the tabs. For the default tabs, you can reset them to the default settings. For a created tab, you can edit its name or delete it.



5. 1. 2 Explanation of Widgets

You can click the 🙆 icon to add or remove the widgets.

Most Active OLTs In 24 Hours		See All > 1	Top Devices Usage	CPU Momory
DS-P7001-08 DD:EE:FF	Pending	11 GB	DS-P7001-88 DD-EE-FF	30%
	Online	0 GB	DS-P7001-08 DD EE FF	40%
DS-P7001-08-7894 AA-EE-FF	Add Widget	1234 GB	DS-P7601-88 DD EE FF Add Widget	50%
DS-P7001-08-4564 BB.EE.FF		56789 GB	DS-P7001-08 DD.EE.FF	
DS-P7001-08-12-1244 CC:EE:FF	Rebooting	123412 GB	DS-P7001-08 DD-EE FF	70%

Alerts

The Alerts widget displays the total number of unarchived alerts happened in the network and details of the latest ten. To view all the alerts and archive them, click See All to jump to Log > Alert. To specify events appeared in Alerts, go to Log > Notifications and configure the events as the Alert level. For details, refer to 5. 3 View and Manage Logs.

Alerts			See All >
15 Alerts			
2021-09-26	6	[oit:00-00-00-00] was readopted automatically.	10:45:03 pm
2021-09-26	1 3	[olt.00-00-00-00] was readopted automatically.	06:24:27 pm
2021-09-26	0	admin logged in to the dpms from 127.0.0.1.	06:24:26 pm
2021-09-24	6	Failed to readopt [olt:00-00-00-00-00] automatically.	01:17:41 am
2021-09-24	G	Failed to readopt [olt:00-00-00-00-00] automatically.	01:16:39 am

OLT Devices

The OLT Devices widget displays the number of OLT devices in different status. To view all the device, click See All to jump to Devices.

DEVICE NAME SITE IP ADDRESS STATUS MODEL VERSION ONU NUMBER	UPTIME	
DS-P7001-08_004000 TP-Ltrk 192.158.0.1 Online DS-P7001-08.1.0 1.0.0 Build 20210594 Rel. 13542 0	2h 31m 57s	

ONU Devices

The ONU Devices widget displays the number of ONU devices in different status. To view all the device, click See All to jump to Devices.

ONU Devices			Active (0) Inactive (0) See All >
DEVICE NAME	SITE	OLT DEVICE	ONLINE STATUS MODEL
		Ne Data	

Most Active OLTs In 24 Hours

The widget displays the most active OLTs in the network based on the total number of traffic within the time range. Only the devices that has been adopted by DPMS will be displayed. To view all the devices discovered by DPMS, click See All to jump to Devices.

Most Active OLTs In 24 Hours		See All >
DS-P7001-08_000000	Online	0 GB
	< 1 >	

Top Devices Usage

The widget displays the CPU utilization and memory utilization of devices at present. Click the tab to select the CPU or memory for display.



✤ 5. 2 View the Statistics of the Network

Statistics provides a visual representation of device data in DPMS. You can easily monitor the network traffic and performance under the following tabs, Performance and Traffic/DDM Statistics.

5. 2. 1 Performance

In Performance, you can view the device performance in a specified period by graphs, such as ONU counts, CPU and memory usage, and upstream and downstream traffic.

Tab Bar

AA:BB:CC:DD:EE:FF	✓ 2019-03-12 ~ 2019-03-17 Hourly ✓
• AA:BB:CC:DD:EE:FF v	Click to select a device from the drop-down list to view its statistics.
2019-03-12 ~ 2019-03-17 📋	Click the date to display a calendar. Click a specific date twice in the calendar for the widgets to display its statistics. To display the statistic of a time range, click the start date and end date in the calendar, or directly select the time range on the right.
	The available time range is restricted by the time interval. Before selecting a long time range, select Hourly or Daily as the time interval.
Hourly ~	Select 5 minutes, Hourly, or Daily to specify the time interval of the data. When selecting a long time range, a longer time interval is recommended for a better view.

Statistical Tables/Graphs

ONU Counts

The ONU Counts graph displays the number of ONUs connected to the OLT during the selected time range. Hover the cursor over the line to display the specific values.

(ONU Counts						ONU Counts
10 8 6 4 2				{	ONU Counts 20 09/13/2019 7:00pm-9:00pm		·····
0 -	12th	13th	14th		15th	16th	17th

Usage

The Usage graph uses lines of different colors to display the percentage of CPU usage and used memory during the selected time range, respectively. Hover the cursor over the lines to display the specific values.

Usage (%)						🙏 CPU 🕂 Memory
			CPU Memory 09/13/201	23.34% 2.43% 9 7:00pm-9:00pm	M	
12	13th	14th		15th	16th	17th

Traffic

The Traffic graph uses lines of different colors to display the traffic rate of upstream and downstream traffic during the selected time range, respectively. Hover the cursor over the lines to display the specific values.



5. 2. 2 Traffic/DDM Statistics

In Traffic/DDM Statistics, you can view the current status of ports and their traffic/DDM statistics of the selected OLT in the specified time range via a monitor panel and graphs.

Tab Bar

• AA:BB:CC:DD:EE:FF V	2019-03-12 ~ 2019-03-17 🗎 Houriy ~ Sort:Natural ~ Mbps MB Packets All Broadcast Muliticast
• AA:BB:CC:DD:EE:FF V	Click to select a device from the drop-down list to view its statistics.
2019-03-12 ~ 2019-03-17 📋	Click the date to display a calendar. Click a specific date twice in the calendar for the widgets to display its statistics. To display the statistic of a time range, click the start date and end date in the calendar, or directly select the time range on the right.
	The available time range is restricted by the time interval. Before selecting a long time range, select Hourly or Daily as the time interval.
Hourly Y	Select 5 minutes, Hourly, or Daily to specify the time interval of the data. When selecting a long time range, a longer time interval is recommended for a better view.

Sort:Natural 🗸	Select Natural, Transmitted, Received, or Total to specify the graph order of ports.
	Natural: Displays the line graphs in ascending order of the port number.
	Transmitted: Displays the line graphs in descending order based on the traffic volume of transmitted packets.
	Received: Displays the line graphs in descending order based on the traffic volume of received packets.
	Total: Displays the line graphs in descending order based on the total traffic volume of transmitted and received packets.
Mbps MB Packets	Select bps, Bytes or Packets to specify the data type and measuring unit.
	Mbps: Displays the traffic rate in Mbps.
	MB: Displays the traffic statistics in MB.
	Packets: Displays the total number of packets.
All Broadcast Muliticast	If you select Packet, click the tab to specify which type of packet statistics to be displayed.
	All: Displays statistics of all packets, including broadcast and multicast packets.
	Broadcast: Displays statistics of broadcast packets only.
	Multicast: Displays statistics of multicast packets only.

Statistical Tables/Graphs

Select ports to display the DDM/traffic statistics of the ports.

DDM Statistics (GE Port Excluded)

DDM Statistics

PORT ID	TEMPERATURE	VOLTAGE	BIAS CURRENT	TX POWER	RX POWER	TRANSMISSION FAULT	LOSS OF SIGNAL	DATA READY
XGE 1/0/1	128℃	6.5535 V	131 mA	6.5535 mW	6.5535 mW	False	False	False
XGE 1/0/2	100℃	6.5535 V	131 mA	6.5535 mW	6.5535 mW	True	True	True
XGE 1/0/3	100℃	6.5535 V	131 mA	6.5535 mW	6.5535 mW	True	True	True
XGE 1/0/4	100℃	6.5535 V	131 mA	6.5535 mW	6.5535 mW	False	False	False
XGE 1/0/5	128℃	6.5535 V	131 mA	6.5535 mW	6.5535 mW	No Signal	False	False
XGE 1/0/6	128°C	6.5535 V	131 mA	6.5535 mW	6.5535 mW	False	False	False

-	
lem	perature

Displays the temperature of the port.

```
Voltage
```

Displays the voltage of the port.

Bias Current	Displays the bias current of the port.
TX Power (dBm)	Displays the TX power of the port.
RX Power (dBm)	Displays the RX power of the port.
Transmit Fault	Displays whether the remote optical module works abnormally.
Loss of Signal	Displays whether the local optical module works abnormally.
Data Ready	Displays whether the optical module of the port is ready to transmit data.

Traffic

The Traffic graph uses lines of different colors to display the traffic rate of upstream and downstream traffic during the selected time range, respectively. Hover the cursor over the lines to display the specific values.



✤ 5.3 View and Manage Logs

DPMS uses logs to record the activities of the system, devices, users and administrators, which provides powerful supports to monitor operations and diagnose anomalies. In the Logs page, you can conveniently monitor the logs in <u>5. 3. 1 Alerts</u> and <u>5. 3. 2 Events</u>, and configure their notification levels in <u>5. 3. 3 Notifications</u>.

All logs can be classified from the following four aspects.

Occurred Hierarchies

Two categories in occurred hierarchies are DPMS level and device level (including OLTs and ONUs). Only Administrators can view the logs happened at the DPMS level.

Notifications

Two categories in notifications are Event and Alert, and you can classify the logs into them by yourself.

Severities

Three levels in severities are Error, Warning, and Info, whose influences are ranked from high to low.

Contents

Four types in contents are Operation, System, OLT, and ONU, which indicate the log contents relating to.

5. 3. 1 Alerts

Alerts are the logs that need to be noticed and archived specially. You can configure the logs as Alerts in Notifications, and all the logs configured as Alerts are listed under the Alerts tab for you to search, filter, and archive.

t 🚊 Event 🕅 Notifications	archived Alerts		≡ ⊞
Search			
CONTENT	SITE T	TIME	ACTION
La [olt: 00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-26 05:42:16 pm	ē
Failed to readopt [ot: 00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:42:24 pm	ā
Failed to readopt [cit:00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:41:22 pm	ē
Failed to readopt [oit:09-09-00-00-00] automatically.	TP-Link	2021-09-26 04:40:21 pm	ē
at [dt: 00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-25 10:45:03 pm	ā
at or 00-00-00-00-00-00 was readopted automatically.	TP-Link	2021-09-25 06:24:27 pm	ē
admin legged in to the dpms from 127 0.0.1.		2021-09-25 05:24:26 pm	ē
Failed to readopt [ot:09-00-00-00-00] automatically	TP-Link	2021-09-24 01:17-41 am	ē
Failed to readopt [oit:00:00:00:00:00:00] automatically.	TP-Link	2021-09-24 01:16:39 am	ā
Failed to readopt [off:00-00-00-00-00] automatically.	TP-Link	2021-09-24 01:15:38 am	ā

	Click to change the view mode for a better overview.
	E: Displays the logs in a table.
	$1/7/31$: Displays the logs in a day/week/month. To change the time, click or λ . To jump back to the current one, click Today/This Week/This Month.
Unarchived Archived	Click the tabs to filter the logs listed in the table. The two tabs can take effect simultaneously.
All Errors Warnings Info	Unarchived/Archived: Click the tab to filter the unarchived and archived logs. You can click and Archive All to archive a single log and all, respectively.
All 🛞 Operation 🕀 System 🗐 OLT 🖧 ONU	All/Errors/Warnings/Info: Click All to display all the logs in Error, Warning, and Info levels. Click Errors, Warnings or Info to display logs in the corresponding level only.
	All/Operation/System/OLT/ONU: Click All to display all types of logs. Click Operation or System or OLT or ONU to display the corresponding type of logs only.
Q Search	Enter the content types, severity levels, or key words to search the logs.
Content	Displays the log types and detailed message.
Site	Displays the site where the activity happened.
Time	Displays when the activity happened.

Batch Archive	Select the log entries and click Batch Archive to archive them in batches.
ē	Click to archive the log entry.

5. 3. 2 Events

Events are the logs that can be viewed but have no notifications. You can configure the logs as Events in Notifications, and all the logs configured as Events are listed under the Events tab for you to search and filter.

	Errors ● Warnings ● Into All ② Dperation 俄 System 頃 OLT 名、ONU				
), Se	wch				🚺 Batch D
	CONTENT	SITE T	пие		ACTION
	[at: 00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-27	12:30:20 am	1
	[6] [ot:00-00-00-00-00] was connected.	TP-Link	2021-09-27	12:30:20 am	1
	at [ai: 00-00-00-00] was readopted automatically	TP-Link	2021-09-26	05:42:16 pm	Ū
	[ok:00-00-00-00-00] was connected.	TP-Link	2021-09-26	05:42:16 pm	D
	Pending [at::00-00-00-00-00] was discovered.		2021-09-26	05:42:02 pm	۵
	Failed to readopt (oit:00-00-00-00-00] automatically	TP-Link	2021-09-26	04:42:24 pm	Û
	Failed to readopt [olt:00-00-00-00-00] automatically.	TP-Link	2021-09-26	04:41:22 pm	0
	Failed to readopt [ol: 00-00-00-00-00] automatically	TP-Link	2021-09-26	04:40:21 pm	<u></u>
	[6] [0f: 00-00-00-00] was connected.	TP-Link	2021-09-25	10:45:03 pm	Û
	at [at: 00-00-00-00-00] was reaclopted automatically.	TP-Link	2021-09-25	10:45:03 pm	Ū

	Click to change the view mode.
	E Displays the logs in a table.
	$1/7/31$: Displays the logs in a day/week/month. To change the time, click \langle or \rangle . To jump back to the current one, click Today/This Week/This Month.
All Errors Warnings Info	Click the tabs to filter the logs listed in the table. The two tabs can take effect simultaneously.
All Operation System OLT System	All/Errors/Warnings/Info: Click All to display all the logs in Error, Warning, and Info levels. Click Errors, Warnings or Info to display logs in the corresponding level only.
	All/Operation/System/OLT/ONU: Click All to display all types of logs. Click Operation or System or OLT or ONU to display the corresponding type of logs only.
Q Search	Enter the content types, severity levels, or key words to search the logs.
Content	Displays the log types and detailed message.

Site	Displays the site where the activity happened.
Time	Displays when the activity happened.
Batch Delete	Select the log entries and click Batch Delete to delete them in batches.
Ū	Click to delete the log entry.

5.3.3 Notifications

In Notifications, you can find all kinds of activity logs classified by the content and specify their notification categories as Event and Alert. Also, you can enable Email for the logs. With proper configurations, DPMS will send emails to the administrators when it records the logs.

☆ Alert			
Operation System OLT ON	U		
User Logged In :	Event	✓ Alert	Email
User Login Failed :	Event	✓ Alert	Email
Site Created:	 Event 	Alert	Email
Site Removed :	 Event 	Alert	Email
Site Name Changed :	 Event 	Alert	Email
Advanced Features Enabled :	 Event 	Alert	Email
OLT Adopted :	 Event 	Alert	Email
OLT Adoption Failed :	Event	 Alert 	Email
OLT Adoption in Batch :	 Event 	Alert	Email

To specify the logs as Alert/Event, click the corresponding checkboxes of logs and click Apply. The following icons and tab are provided as auxiliaries.

Reset to Default	Click to reset all notification configurations to the default.
Operation System OLT ONU	Click the tabs to display the configurations of corresponding log types.
Event Alert	Enable the checkboxes to specify the activity logs as Events/Alerts, and then the recorded logs will be displayed under the Events/Alerts tab. If both of them are disabled, DPMS will not record the activity logs.

Email	Enable the checkboxes to specify the activity logs as alert logs. With proper configurations, DPMS will send emails to the administrators when it records the logs.
C	This icon appears when the configuration of a log is changed but has not been applied. Click it to reset the configuration of the log to the previous state.

The Email checkboxes are used to enable Alert Emails for the logs. To make sure the administrators and viewers can receive alert emails, follow the following steps:

- 1) Enable Mail Server
- 2) Enable Alert Emails in General Settings
- 3) Enable Alert Emails in Account Settings
- 4) Enable Alert Emails in Logs

Enable Mail Server Enable Alert Emails in General Settings Enable Alert Emails in Account Settings

Go to Settings > General Settings. In the Mail Server section, enable SMTP Server and configure the parameters. Then click Apply.

Mail Server			
SMTP Server:			
With the Mail Server, the system logs. Configure	DPMS Server can send emails for pushing notifications, and delivering the Aail Server carefully.		
SMTP :			
Port :	25 (1-65535)		
SSL:			
Authentication :			
Sender Address :	(Optional)		
Test SMTP Server:	Test		
Apply Car	cel		
SMTP	Enter the URL or IP address of the SMTP server according to the instructions of the email service provider.		
Port	Configure the port used by the SMTP server according to the instructions of the email service provider.		
SSL	Enable or disable SSL according to the instructions of the email service provider. SSL (Secure Sockets Layer) is used to create an encrypted link between DPMS and the SMTP server.		
Authentication	Enable or disable Authentication according to the instructions of the email service provider. If Authentication is enabled, the SMTP server requires the username and password for authentication.		

Username	When Authentication is enabled, enter your email address as the username.
Password	When Authentication is enabled, enter the authentication code as the password, which is provided by the email service provider when you enable the SMTP service.
Sender Address	(Optional) Specify the sender address of the email. If you leave it blank, DPMS uses your email address as the Sender Address.
Test SMTP Server	Test the Mail Server configuration by sending a test email to an email address that you specify.

Go to Settings > General Settings and enable Alert Emails in the Services section. Then click Apply.

Services							
Alert Emails :							
			Send simil	ar alerts within	60		seconds in one email.
Remote Logging :							
Syslog Server IP / Host N	Name :						
Syslog Server Port :						(1-6553	5)
Apply Cano	cel						
Alert Emails	Enable ale viewers of	ert emails: f the site's	: When enable s alert logs on	ed, DMPS can so ce generated.	end er	nails to no	tify the administrators and
	Send simi in each tir	llar alerts ne period	within second are collected	ds in one email: and sent to adr	When ministr	enabled, t ators and	he similar alerts generated viewers in one email.
	To config Notificatio	ure alert-l ons.	evel logs and	enable email no	otificat	ions on th	the controller, refer to $5.3.3$

 Remote Logging
 With this feature configured, DPMS will send generated site logs to the log server. When enabled, the following items are required:

 Syslog Server IP/Hostname: Enter the IP address or hostname of the log server.

 Syslog Server Port: Enter the port of the server.

Enable Alert Emails in General Settings	Enable Alert Emails in Account Settings	Enable Alert Emails in Logs
---	---	-----------------------------

Go to Admin and configure Alert Emails for the administrators and viewers to receive the emails. Click + Add to create an account or click ^I to edit an account. Enter the email address in Email and enable Alert Emails. Click Create or Apply.

Edit		
Username :	admin	
Change Password:	Enable	
Email :	example@tp-link.com	(Optional)
Alert Emails :	Enable (i)	
Apply Cancel		

Enable Alert Emails in General Settings

Enable Alert Emails in Account Settings

Enable Alert Emails in Logs

Go to Logs and click Notifications. Click a tab of content types and enable Email for the activity logs that DPMS emails administrators. Click Save.

🚊 Alert 📋 Event 👫 Notifications			
Operation System OLT ONU	I		
User Logged In :	Event	 Alert 	🔽 Email
User Login Failed :	Event	Alert	🗸 Email
Site Created:	 Event 	Alert	Email
Site Removed :	 Event 	Alert	Email
Site Name Changed :	 Event 	Alert	Email
Advanced Features Enabled :	 Event 	Alert	Email
OLT Adopted :	 Event 	Alert	Email
OLT Adoption Failed :	Event	 Alert 	Email
OLT Adoption in Batch :	 Event 	Alert	Email



Manage Administrator Accounts of DPMS

This chapter gives an introduction to different user levels of administrator accounts and guides you on how to create and manage them in the Admin page. The chapter includes the following sections:

- 6.1 Introduction to User Accounts
- 6. 2 Manage and Create Local User Accounts
- 6.3 Manage and Create Cloud User Accounts

✤ 6.1 Introduction to User Accounts

DPMS offers three levels of access available for users: administrator, system operator, and viewer. Because DPMS can be accessed both locally and via cloud access, users can be further grouped into local users and cloud users. Multi-level administrative account presents a hierarchy of permissions for different levels of access to DPMS as required. This approach ensures security and gives convenience for management.

Administrator

There is only one administrator who has access to all features. The account who first launches DPMS will be the administrator and cannot be changed and deleted.

System Operator

System Operators can create and delete viewers in the Admin page, but they can be created and deleted only by administrator. In the Settings page, administrators have no permission to some modules, including cloud access, and auto-backup, etc.

Viewer

Viewers can only view the status and settings of the network, and they cannot change the settings. The entrance to Admin page is hidden for viewers, and they can be created or deleted by the administrator and system operator.

✤ 6. 2 Manage and Create Local User Accounts

By default, DPMS automatically sets up a local user as the administrator. The username and password of the administrator are the same as that of DPMS account by default. The administrator cannot be deleted, and it can create, edit, and delete other levels of user accounts.

6. 2. 1 Edit the Administrator Account

To view basic information and edit the administrator account, follow these steps:

1. Go to Account, click in the Action column. Enter the password and click Confirm (by default, the password of the administrator is the same as the DPMS account).

Authentication			Х
Please enter your currer	nt password to make any cha	anges to your account.	
password:	•••••	Ø	
		Confirm	Cancel

2. Basic information including role and device permissions is shown. You can change the password and enable alert emails by checking the box. Click Apply.

General Config		
Role :	Local Admin	
Site Privileges :	All	
Edit		
Username :	admin	
Change Password:	Enable	
Email :		(Optional)
Alert Emails :	Enable (j)	
Apply Cancel		

6. 2. 2 Create and Manage Local User

To create and manage local user account, follow these steps:

1. Go to Account. In the account list, Click + Add.

Account List					
All	Search Q				+ Add
USERNAME 💠	EMAIL	ROLE	VERIFIED	SITE PRIVILEGES	ACTION
🔵 admin		Local Admin	\checkmark	All	Z
					Showing 1-1 of 1 records \langle \langle 1 \rangle $10 / page \lor$

2. Select Local User for the user type and specify other parameters. Then click Apply.

Create Account		
User Type :	 Local User Cloud User Cloud Access Res 	equired
Username :	admin	
Password:	•••••• Ø	
Role :	Please Select V	
Site Privileges :	 All (Including all new-created sites) Sites 	
Email :		(Optional)
Alerts Emails:	Enable (i)	
Apply Cancel		

Username	Specify the username. The username should be different from the existing ones.
Password	Specify the password.
Role	Select a role for the created user account.
	Local System Operator: This role has permissions to adopt and/or manage devices of the sites chosen in the site privileges, edit itself, create/edit/delete viewer accounts in its privileged sites. However, it cannot delete itself or edit/delete the administrator account.
	Local Viewer: This role can view the information of the sites chosen in the site privileges. It can only edit itself.
Site Privileges	Assign the site permissions to the created local user.
	All: The created user has device permissions in all sites, including all new-created sites.
	Sites: The created user has device permission in the sites that are selected. Select the sites from the drop-down list.

Email (optional)	Enter an email address for receiving alert emails.
Alert Emails	Check the box if you want the created user to receive emails about alerts of the privileged sites.
To edit and delete th	ne accounts, click icons in the Action Column.
	To edit the parameters for the user.
	Administrator can edit all user accounts, System Operators can edit itself and viewer accounts of its privileged sites, and viewer can only edit itself.

Administrator can delete all user accounts apart from itself, System Operators can delete viewer accounts of its privileged sites, and viewer cannot delete any accounts.

✤ 6.3 Manage and Create Cloud User Accounts

DPMS automatically sets up the cloud administrator if you have enabled cloud access and bound the DPMS account with a TP-Link ID in the quick setup. The username and password is the same as that of the TP-Link ID. The cloud administrator cannot be deleted, and it can create, edit, and delete other levels of user accounts.

6. 3. 1 Set Up the Cloud Administrator

If you have not enabled the cloud access and bound DPMS with a TP-Link ID in quick setup, to set up the cloud administrator, follow these steps:

1. Go to Settings > Cloud Access to enable Cloud Access and bind your TP-Link ID.

Cloud Access				
Cloud Access:				
Cloud Access Status:	DISABLED			
Log in and bind y	our TP-Link ID			>
 Enter the ema used to log in 	ail address and password of your to DPMS Server.	r TP-Link ID, v	which is not the accoun	t that you have
TP-Link ID:	example@tp-link.com		No TP-Link ID? <u>Regis</u>	ter now
TP-Link ID : Password :	example@tp-link.com	ø	No TP-Link ID? <u>Regis</u>	ter now

- 2. Enable Mail Server and set up the parameters. For details, refer to 4. 1. 3 Mail Server.
- 3. In Admin, a Cloud Administrator with the same username as the TP-Link ID will be automatically created. The Cloud Administrator cannot be deleted. You can log in with the cloud administrator when the cloud access is enabled.

6. 3. 2 Create and Manage Cloud Administrator and Cloud Viewer

To create and manage cloud user account, follow these steps:

1. Go to Admin. In the account list, Click + Add.

Account List						
All	V Search	Q				+ Add
USERNAME ÷		EMAIL	ROLE	VERIFIED	SITE PRIVILEGES	ACTION
admin			Local Admin	~	Al	Ø
						Showing 1-1 of 1 records \langle < 1 \rangle 10 / page \vee

2. Select Cloud User for the administrator type in the pop-out window. Specify the parameters and click Apply.

Create Account	
User Type :	 Local User Cloud User
TP-Link ID:	
Role :	Please Select V
Site Privileges:	 All (Including all new-created sites) Sites
Role :	Please Select V
Site Privileges :	 All (Including all new-created sites) Sites
Alerts Emails:	Enable (i)
Apply Cancel	

TP-Link ID	Enter an email address of the created cloud user, and then an invitation email will be sent to the email address.
	If the email address has already been registered as a TP-Link ID, it will become a valid cloud user after accepting the invitation.
	If the email address has not been registered, it will receive an invitation email for registration. After finishing registration, it will automatically becomes a valid cloud user.
Role	Select a role for the created cloud user.
Role	Select a role for the created cloud user. System Operator: This role has permissions to adopt and/or manage devices of the sites chosen in the site privileges, edit itself, create/edit/delete viewer accounts in its privileged sites. However, it cannot delete itself or edit/delete the administrator account.

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Site Privileges	Assign the site permission to the created cloud user.
	All: The created user has permission in all sites, including all new-created sites.
	Sites: The created user has permission in the sites that are selected. Select the sites from the drop-down list.
Alert Emails	Check the box if you want the created user to receive emails about alerts of the privileged sites.
To edit and delete the	e accounts, click icons in the Action Column.
	To edit the parameters for the user.
_	Cloud Administrator can edit all user accounts, System Operator can edit itself and viewer accounts of its privileged sites, viewer can only edit itself.

To delete the account.

Administrator can delete all user accounts apart from itself, System Operators can delete viewer accounts of its privileged sites, and viewer cannot delete any accounts.