



# User Guide

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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.

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## More Information

- For technical support, the latest version of the User Guide and other information, please visit <https://service-provider.tp-link.com/>.
- 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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# 1

## 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.

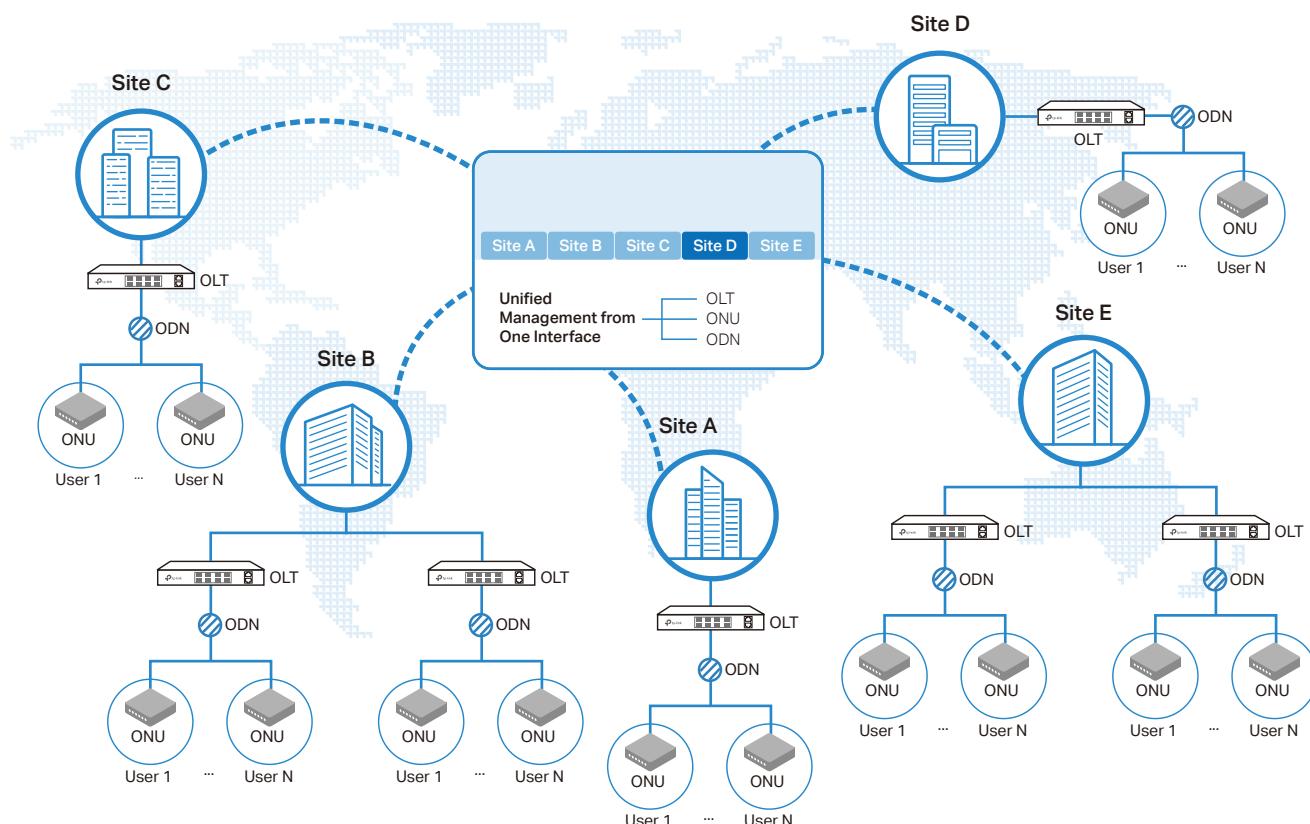
Acronym	Full Name
DPMS	DeltaStream PON Management System
GPON	Gigabit-Capable Passive Optical Network
ISP	Internet Service Provider
OLT	Optical Line Terminal
ONU	Optical Network Unit
ONT	Optical Network Terminal
FTTH	Fiber To The Home
FTTB	Fiber To The Building

## 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.

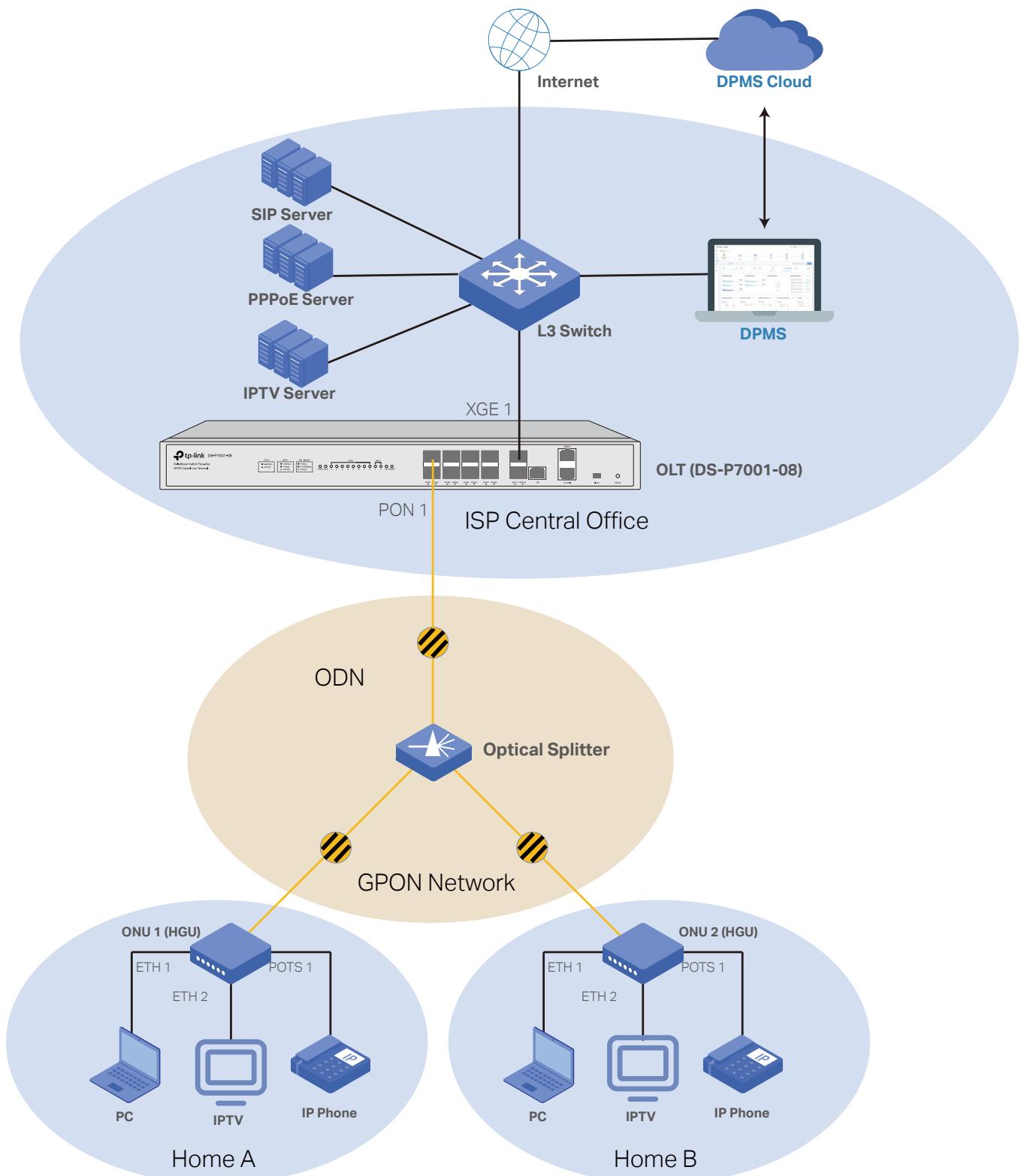
DPMS offers centralized management for configuring GPON of the ISP. DPMS simplifies deploying, configuring and monitoring the GPON networks by managing all the GPON-related devices at multiple sites from one central platform. This unleashes new levels of management to avoid complex and costly overprovisioning. 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 architecture 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 of the following components.

Component	Description
DPMS	DPMS is the centralized 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	ODN is 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

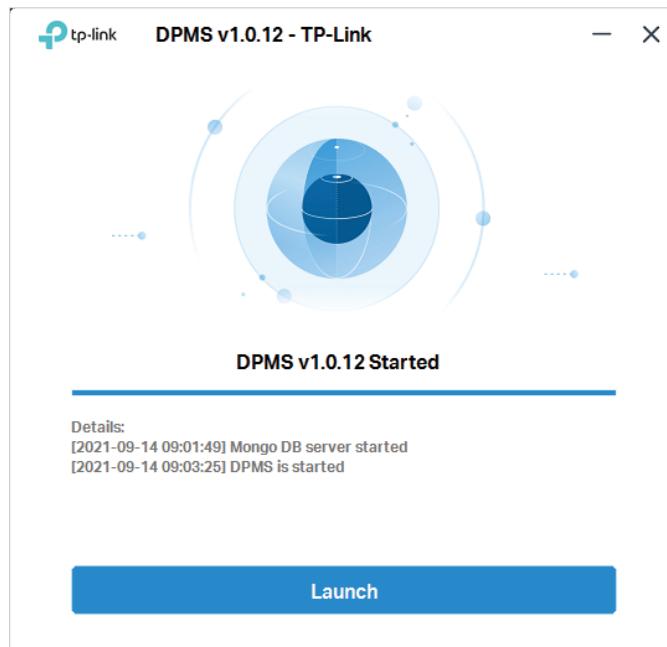
Ensure that the Java Runtime Environment (JRE) have been installed in your system. The DPMS requires that the system have Java 8 installed. Download the installation file of DPMS from the [website](#). Then follow the instructions to properly install DPMS. After a successful installation, a shortcut icon  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.



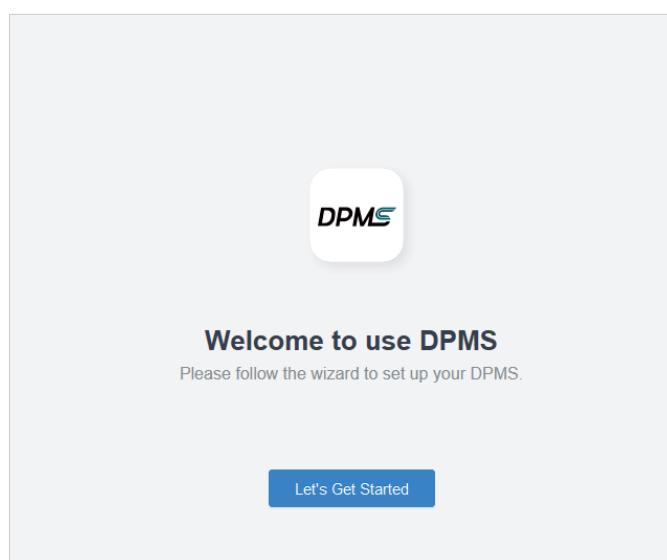
### Note:

- 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](#).



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

DPMS Setup Wizard

DPMS Name:

Country/Region:  (Optional)

Timezone:  (Optional)

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

Create Site

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

Site Name:

Address:  (Optional)

Network Manager:  (Optional)

Phone Number:  (Optional)

E-mail:  (Optional)

Note:  (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](#).

**Adopt Devices**

Please select the devices that you want to add to the site created in the last step.

**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.

**Refresh**

DEVICE NAME	MODEL	IP ADDRESS	MAC ADDRESS	
DS-P7001-08_000000	DS-P7001-08 1.0	192.168.1.1	00-00-00-00-00-00	The username and password have been changed

Showing 1-1 of 1 records < 1 > 10 / page

**! 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](#).

**DPMS Access**

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

Admin Name:

Password:

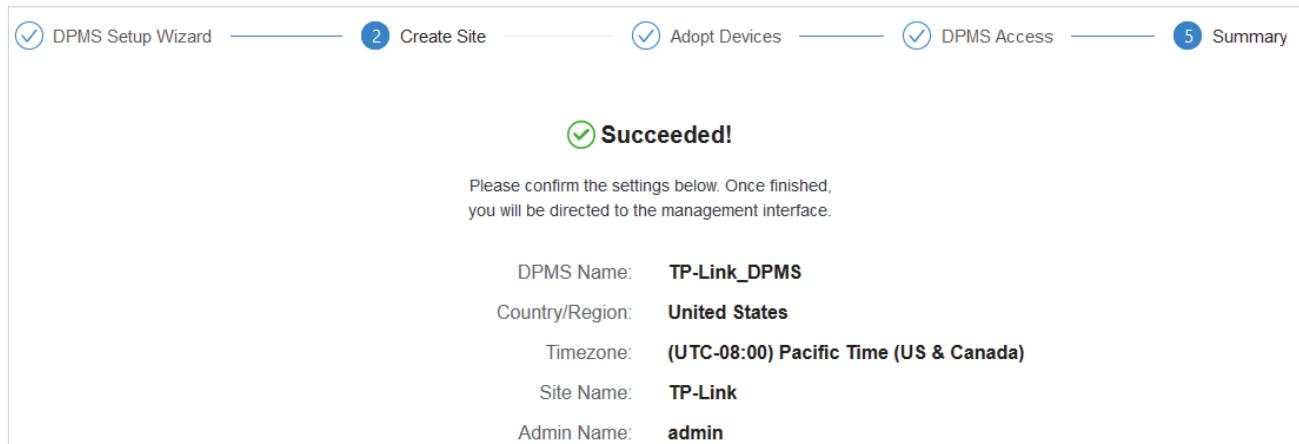
Confirm Password:

E-mail (Optional):

Alerts Emails:

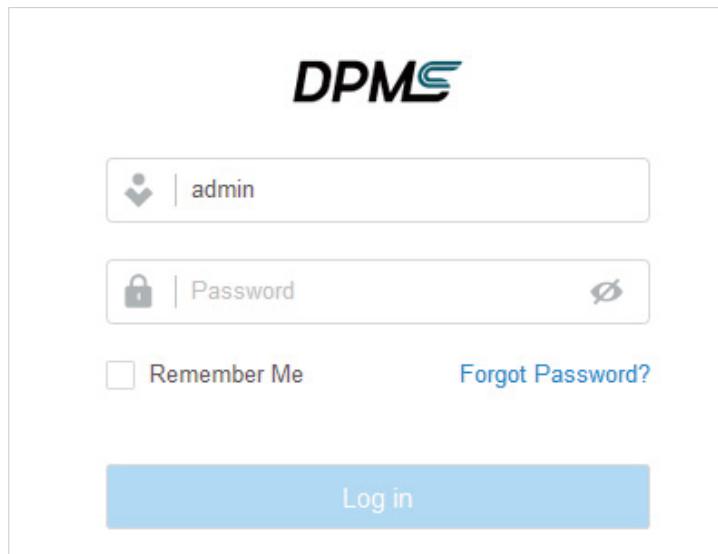
When enabled, alert emails are sent to the mailbox of network manager who manages the site.

6. Review your settings and click **Finish**.



## 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.





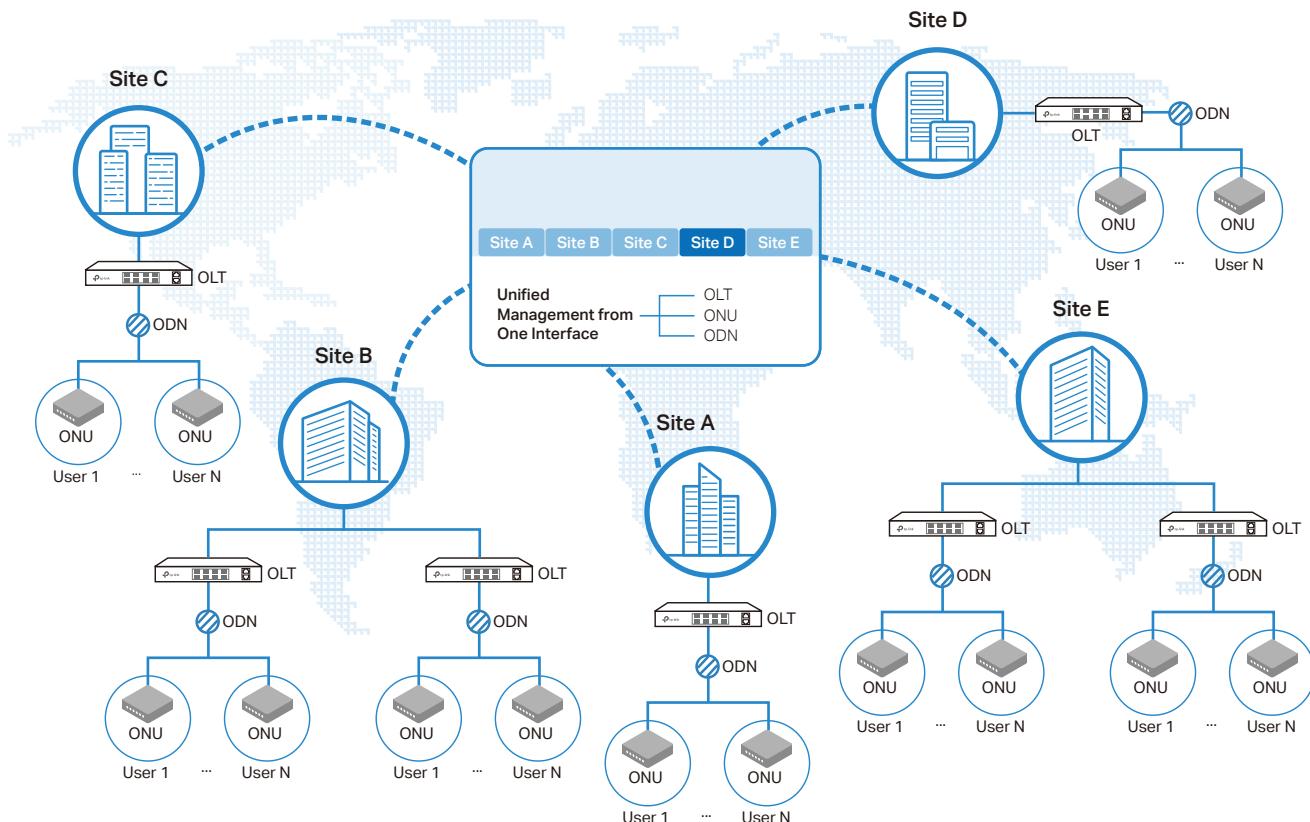
## ***Manage Devices and Sites***

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**

Site Name:	<input type="text"/> (1-32 characters)
Address:	<input type="text"/> (Optional,1-128 characters)
Network Manager:	<input type="text"/> (Optional,1-32 characters)
Phone Number:	<input type="text"/> (Optional,1-32 characters)
E-mail:	<input type="text"/> (Optional,1-128 characters)
Note:	<input type="text"/> (Optional,1-256 characters)

[Apply](#) [Cancel](#)

2. You can click  in the site list to edit the site configuration. You can click  to delete the site.

**tp-link DPM**

**Site List**

	Site Name	Actions
	TP-Link	 

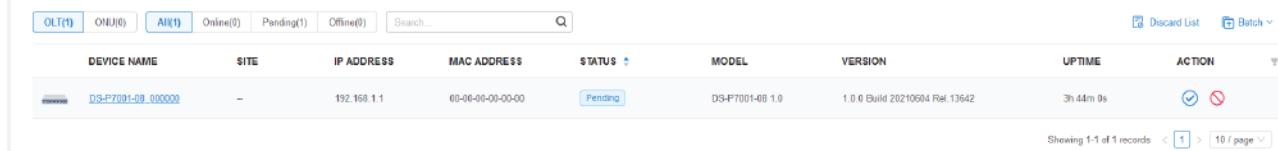
[Add New Site](#)

Site List

- 
- 
- 
- 
- 

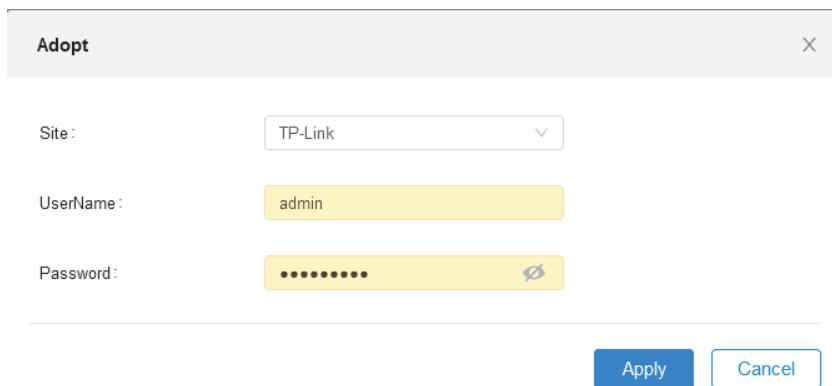
## 3.2 Adopt Devices

- 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](#).



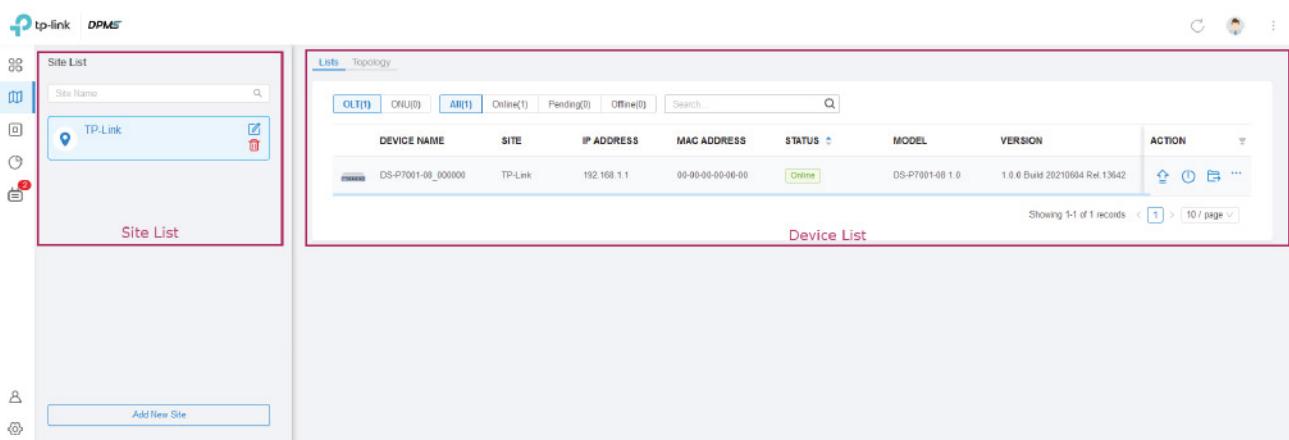
The screenshot shows a table with the following columns: DEVICE NAME, SITE, IP ADDRESS, MAC ADDRESS, STATUS, MODEL, VERSION, UPTIME, and ACTION. There is one row for a device named 'DS-P7001-08\_000000' with the status 'Pending'. The ACTION column shows a checkmark icon and a red cancel icon.

- Select the device and click . Select the desired site and enter the username and password to adopt the device. Then click [Apply](#).



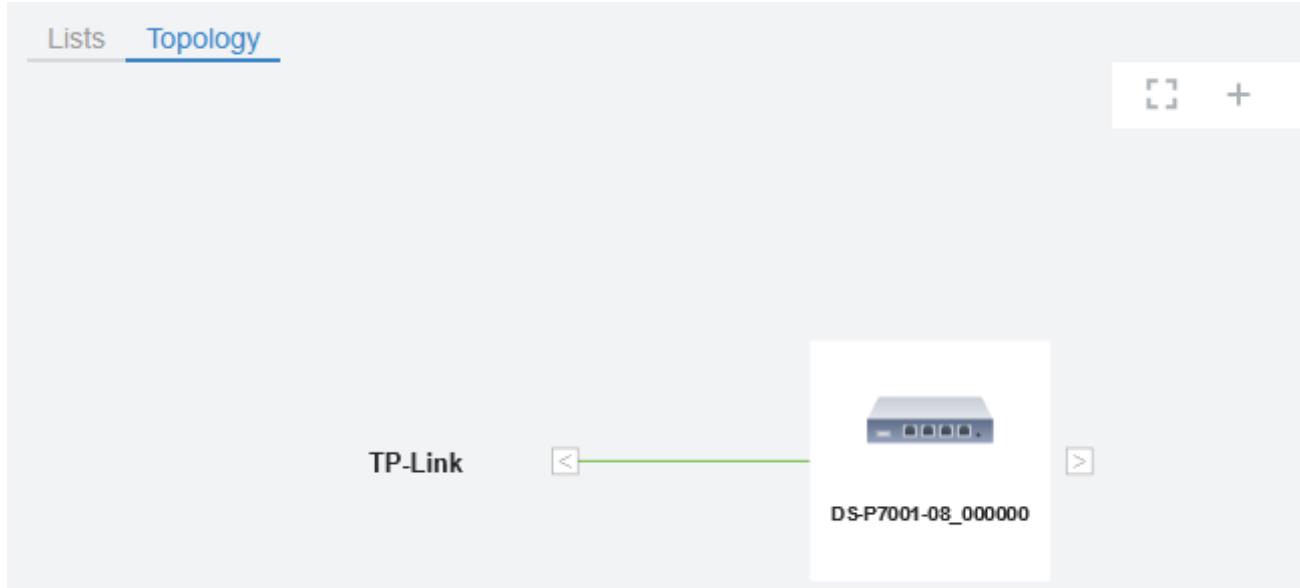
The dialog box has fields for Site (set to TP-Link), UserName (set to admin), and Password (set to a masked password). It includes 'Apply' and 'Cancel' buttons.

- Go to [Site](#). Select the site from the site list and the devices of the site are displayed in the device list.



The screenshot shows two panels. The left panel is the 'Site List' showing a single site named 'TP-Link'. The right panel is the 'Device List' showing a table with the same device information as the previous screenshot, but with the status 'Online'.

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.



## 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)	Online(1)	Pending(0)	Offline(0)	Search	Q	 Discard List	 Batch
DEVICE NAME	SITE	IP ADDRESS	MAC ADDRESS	STATUS	MODEL	VERSION	UPTIME	ACTION	▼
DS-P7001-08_000000	TP-Link	192.168.0.1	00-00-00-00-00-00	Online	DS-P7001-08 1.0	1.0.0 Build 20210604 Rel.13042	49m 51s	   	...

**Online** The device has been adopted by DPMS and it is powered on and connected to the network.

**Pending** The device has been discovered by DPMS and has not been adopted.

**Offline** The device has been adopted by DPMS but it is powered off or disconnected from the network.

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

OLT(1)	ONU(0)	All(1)	Online(1)	Pending(0)	Offline(0)	Search	Q	 Discard List	 Batch
DEVICE NAME	SITE	IP ADDRESS	MAC ADDRESS	STATUS	MODEL	VERSION	UPTIME	ACTION	▼
DS-P7001-08_000000	TP-Link	192.168.0.1	00-00-00-00-00-00	Online	DS-P7001-08 1.0	1.0.0 Build 20210604 Rel.13042	49m 51s	   	...

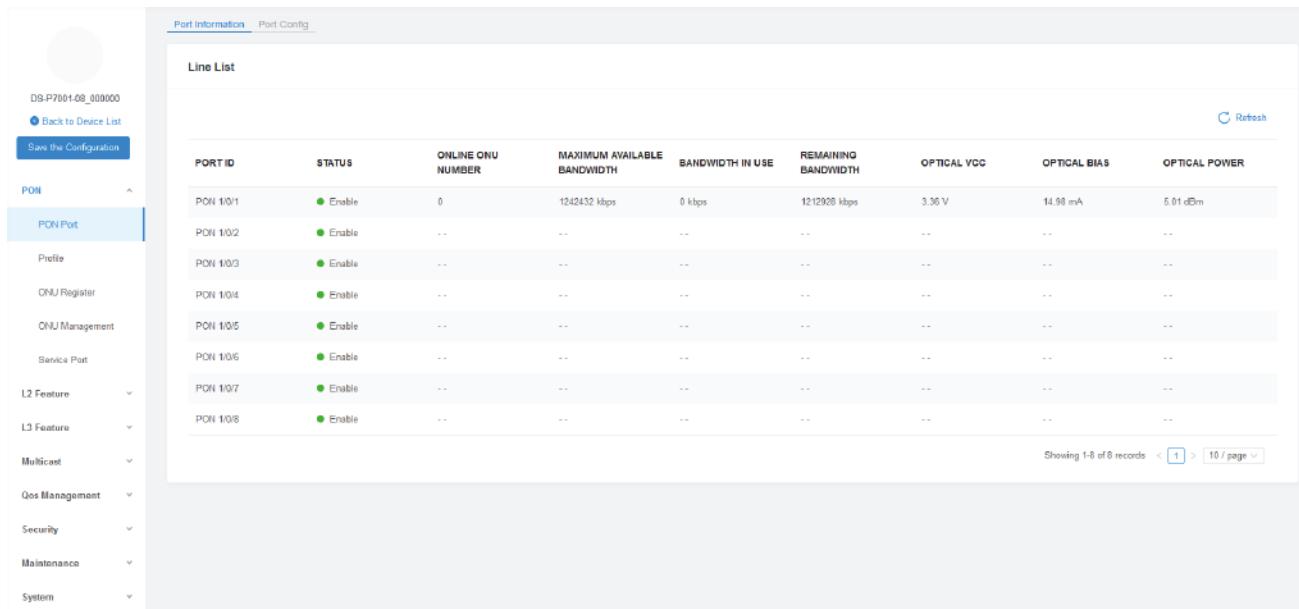
 To manually upgrade the device, click the button and a window pops up. Click [Upload](#) to upload a firmware file and set the other parameters. Then click [Upgrade](#).

 To reboot the device, click the button and a window pops up. Set the parameters and click [Reboot](#). It is recommended that you save the current configuration before reboot.

 To move the device to another site, click the button and a window pops up. Select the desired site where you want to move the device and click [Apply](#).

 To remove, deny or edit the device, click the button and select the option according to your needs. If you remove the device, it is only deleted from the device list. If you deny the device, it is deleted from the device list and added to the deny list.

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.



The screenshot shows a network management interface for an OLT. The left sidebar contains a navigation tree with sections like PON, Profile, ONU Register, ONU Management, Service Port, L2 Feature, L3 Feature, Multicast, Qos Management, Security, Maintenance, and System. The 'PON Port' section is currently selected. The main content area is titled 'Line List' and displays a table with 8 records. The table columns are: PORT ID, STATUS, ONLINE ONU NUMBER, MAXIMUM AVAILABLE BANDWIDTH, BANDWIDTH IN USE, REMAINING BANDWIDTH, OPTICAL VCC, OPTICAL BIAS, and OPTICAL POWER. The first record is PON 1/0/1 with the status 'Enable', online ONU number 0, maximum available bandwidth 1240432 kbps, and remaining bandwidth 1212926 kbps. The table includes a 'Refresh' button in the top right and a page navigation bar at the bottom right showing 'Showing 1-8 of 8 records' and '1 / page'.

PORT ID	STATUS	ONLINE ONU NUMBER	MAXIMUM AVAILABLE BANDWIDTH	BANDWIDTH IN USE	REMAINING BANDWIDTH	OPTICAL VCC	OPTICAL BIAS	OPTICAL POWER
PON 1/0/1	● Enable	0	1240432 kbps	0 kbps	1212926 kbps	3.36 V	14.98 mA	5.01 dBm
PON 1/0/2	● Enable	--	--	--	--	--	--	--
PON 1/0/3	● Enable	--	--	--	--	--	--	--
PON 1/0/4	● Enable	--	--	--	--	--	--	--
PON 1/0/5	● Enable	--	--	--	--	--	--	--
PON 1/0/6	● Enable	--	--	--	--	--	--	--
PON 1/0/7	● Enable	--	--	--	--	--	--	--
PON 1/0/8	● Enable	--	--	--	--	--	--	--

# 4

## ***Configure DPMS***

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

- [4. 1 General Settings](#)
- [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](#)

[Cancel](#)

[DPMS Server 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  seconds in one email.

Remote Logging :

Syslog Server IP / Host Name :

Syslog Server Port :  (1-65535)

[Apply](#) [Cancel](#)

### Alert Emails

[Enable alert emails](#): When enabled, DPMS 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 [5.3.3 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 DPMS Server can send emails for pushing notifications, and delivering the system logs. Configure Mail Server carefully.

SMTP:

Port:  (1-65535)

SSL:

Authentication:

Sender Address:  (Optional)

Test SMTP Server:

**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

DPMS Host Name / IP Address :

192.168.0.66:8443

HTTPS Port :

8443

(443 or 1024-65535)



Once applying the change of HTTPS port, restart the DPMS Server to make the change effective. After restart, visit the URL <https://DPMS Server Host's IP Address or URL:port> number to log in to the DPMS Server.

[Apply](#)

[Cancel](#)

DPMS Host Name / IP Address

Enter the hostname or IP address of DPMS which will be used as the DPMS URL in the notification email for resetting your DPMS password.

HTTPS Port

Specify the HTTPS port used by DPMS for management. After setting the port, you can visit [https://\[DPMS Host's IP address or URL\]:\[Port\]](https://[DPMS Host's IP address or URL]:[Port]) to log in to DPMS. Once applying the change 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 your 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:

Keystore Password:

Private Key Password:   (Optional)

---

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

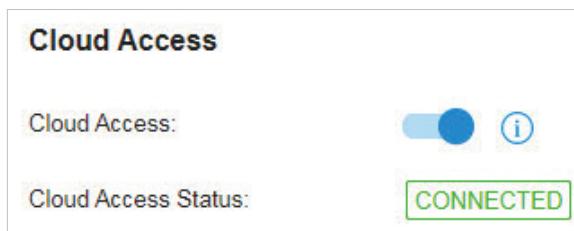
To manage your DPMS from anywhere, follow these steps:

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.



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

Log in and bind your TP-Link ID X

TP-Link ID:  No TP-Link ID? [Register now](#)

Password:  ∅

[Login 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](#)

Show pending devices:

Refresh Button:

Refresh Interval: [2 minutes](#)

[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

[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

[Download Backup Files](#)**Restore**

Restore File:

Please select a file.

[Browse](#)[Restore](#)

## 4.4 Auto Backup

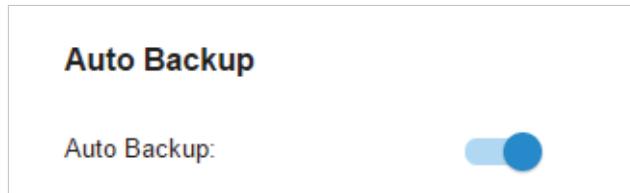
### Overview

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.

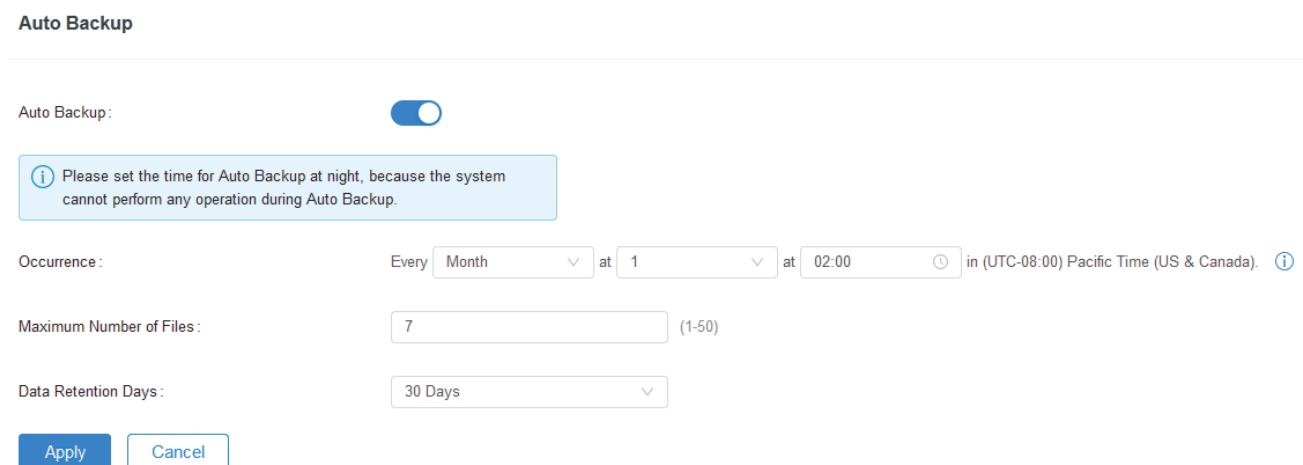
### Configuration

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

Auto Backup: 

(i) Please set the time for Auto Backup at night, because the system cannot perform any operation during Auto Backup.

Occurrence: Every  at  at  in (UTC-08:00) Pacific Time (US & Canada). (i)

Maximum Number of Files:  (1-50)

Data Retention 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](#).

<b>Available Backup Files</b>			
<b>FILE NAME</b>	<b>BACKUP TIME</b>	<b>SIZE</b>	<b>ACTION</b>
autobackup_30days_20200525_1026.cfg	2020-05-25 10:26:00 am	7.37 KB	  

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



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.



Export the backup file. The exported file will be saved in the saving path of your web browser.



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.

**OLT Devices**

DEVICE NAME	SITE	IP ADDRESS	STATUS	MODEL	VERSION	ONU NUMBER	UPTIME
DS-PT001-08_000000	TD-Link	192.168.0.1	Online	DS-PT001-08 1.0	1.0.0 Build 20210604 Rel.13642	0	1h 37m 30s

**ONU Devices**

DEVICE NAME	SITE	OLT DEVICE	ONLINE STATUS	MODEL
			No 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** Displays OLT Devices, ONU Devices, Alerts, Top Device Usage, and Most Active OLTs in 24 hours by default.

In the tab bar, you can 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.



Click the icon and enter the name in the pop-up window to create a new tab.



Click a tab and then click the widget in the pop-up page to add it to this tab or remove it. After you finish, click **DONE**.

## 5.1.2 Explanation of Widgets

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

The screenshot shows two side-by-side widgets. The left widget is titled 'Most Active OLTs in 24 Hours' and lists five entries with status indicators (Pending, Online, Offline, Heartbeat Missed, Rebooting) and storage capacities (11 GB, 0 GB, 1234 GB, 56789 GB, 123412 GB). The right widget is titled 'Top Devices Usage' and shows five devices with CPU and Memory usage percentages (30%, 40%, 50%, 60%, 70%). Both widgets have an 'Add Widget' button with a gear icon.

### ■ 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](#).

The screenshot shows a list of 15 alerts. Each alert entry includes a timestamp, a small icon, the event description, and the time it was last updated. The descriptions include events like 'OLT readopted automatically' and 'admin logged in to the dpm'. The 'See All' link is visible at the top right.

### ■ 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](#).

The screenshot shows a table of OLT devices. The columns are: DEVICE NAME, SITE, IP ADDRESS, STATUS, MODEL, VERSION, ONU NUMBER, and UPTIME. There is one entry: DS-P7001-08\_0094009, located at SITE TP-Link, IP ADDRESS 192.168.0.1, STATUS Online, MODEL DS-P7001-08 1.0, VERSION 1.0.0 Build 20210604 Rel.13642, ONU NUMBER 0, and UPTIME 2h 31m 57s. Filter buttons for Pending (0), Normal (1), Offline (0), and See All > are at the top right.

## ■ 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				
DEVICE NAME	SITE	OLT DEVICE	ONLINE STATUS	MODEL
		 No Data	Active (0) Inactive (0)	<a href="#">See All &gt;</a>

## ■ 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		
 DS-P7001-08_000000	Online	0 GB
	<a href="#">&lt;</a> <a href="#">1</a> <a href="#">&gt;</a>	

## ■ 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.

Top Devices Usage	
 DS-P7001-08_000000	 5%
	<a href="#">&lt;</a> <a href="#">1</a> <a href="#">&gt;</a>

## 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



Click to select a device from the drop-down list to view its statistics.

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.

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

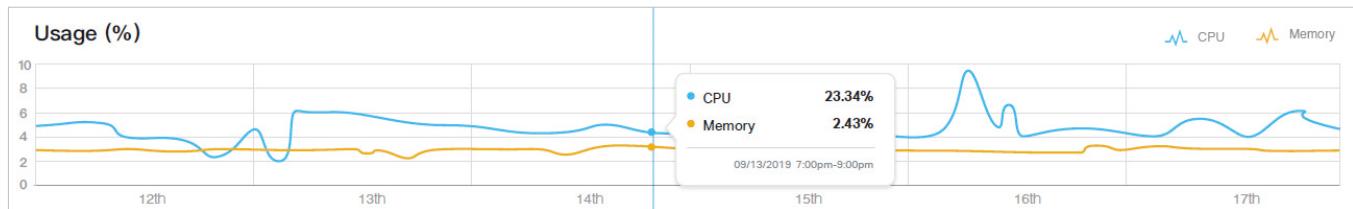
#### ■ ONU Counts

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.



## ■ 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.



## ■ 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

Device selection dropdown: AA:BB:CC:DD:EE:FF

Date range: 2019-03-12 ~ 2019-03-17

Time interval: Hourly

Sort order: Natural

Unit: Mbps, MB, Packets (selected)

Filter: All, Broadcast, Multicast

Text: Click to select a device from the drop-down list to view its statistics.

Text: 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.

Text: The available time range is restricted by the time interval. Before selecting a long time range, select Hourly or Daily as the time interval.

Text: 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

Multicast

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°C	6.5535 V	131 mA	6.5535 mW	6.5535 mW	False	False	False
XGE 1/0/2	100°C	6.5535 V	131 mA	6.5535 mW	6.5535 mW	True	True	True
XGE 1/0/3	100°C	6.5535 V	131 mA	6.5535 mW	6.5535 mW	True	True	True
XGE 1/0/4	100°C	6.5535 V	131 mA	6.5535 mW	6.5535 mW	False	False	False
XGE 1/0/5	128°C	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

**Temperature**

Displays the temperature of the port.

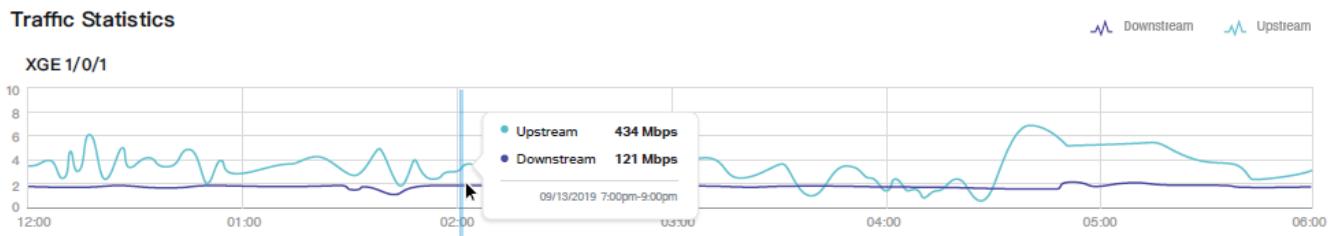
**Voltage**

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 [5.3.1 Alerts](#) and [5.3.2 Events](#), and configure their notification levels in [5.3.3 Notifications](#).

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.

CONTENT	SITE	TIME	ACTION
[olt:00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-26 06:42:16 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:42:24 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:41:22 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:40:21 pm	
[olt:00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-26 10:46:03 pm	
[olt:00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-26 06:24:27 pm	
admin logged in to the dpm from 127.0.0.1.	--	2021-09-26 06:24:26 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-24 01:17:41 am	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-24 01:16:39 am	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-24 01:15:38 am	

Showing 1-10 of 19 records < 1 2 > 10 / page



Click to change the view mode for a better overview.

Displays the logs in a table.

Displays the logs in a day/week/month. To change the time, click or . To jump back to the current one, click [Today](#)/[This Week](#)/[This Month](#).

Click the tabs to filter the logs listed in the table. The two tabs can take effect simultaneously.

**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/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.

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.



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.

CONTENT	SITE	TIME	ACTION
OLT [olt:00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-27 12:30:20 am	
OLT [olt:00-00-00-00-00-00] was connected.	TP-Link	2021-09-27 12:30:20 am	
OLT [olt:00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-26 05:42:16 pm	
OLT [olt:00-00-00-00-00-00] was connected.	TP-Link	2021-09-26 05:42:16 pm	
Pending [olt:00-00-00-00-00-00] was discovered.	--	2021-09-26 05:42:02 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:42:24 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:41:22 pm	
Failed to readopt [olt:00-00-00-00-00-00] automatically.	TP-Link	2021-09-26 04:40:21 pm	
OLT [olt:00-00-00-00-00-00] was connected.	TP-Link	2021-09-25 10:45:03 pm	
OLT [olt:00-00-00-00-00-00] was readopted automatically.	TP-Link	2021-09-25 10:45:03 pm	

Showing 1-10 of 41 records < 1 2 3 4 5 > 19 / page



Click to change the view mode.

Displays the logs in a table.

Displays the logs in a day/week/month. To change the time, click or . To jump back to the current one, click [Today](#)/[This Week](#)/[This Month](#).



Click the tabs to filter the logs listed in the table. The two tabs can take effect simultaneously.

[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.



Enter the content types, severity levels, or key words to search the logs.

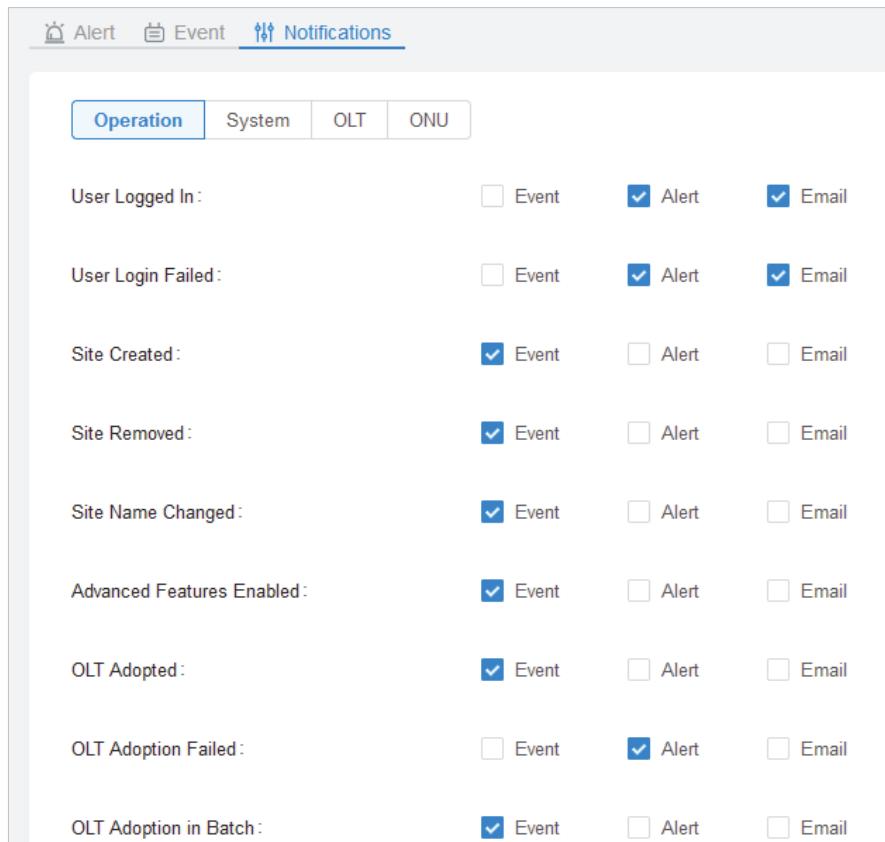
#### Content

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 <b>Batch Delete</b> to delete them in batches.
	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.



Log Type	Event	Alert	Email
User Logged In	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User Login Failed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Site Created	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site Removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site Name Changed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Features Enabled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OLT Adopted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OLT Adoption Failed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
OLT Adoption in Batch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.

<b>Reset to Default</b>	Click to reset all notification configurations to the default.
<b>Operation</b> <b>System</b> <b>OLT</b> <b>ONU</b>	Click the tabs to display the configurations of corresponding log types.
<input type="checkbox"/> Event <input type="checkbox"/> 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.



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.



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



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 DPMS Server can send emails for pushing notifications, and delivering the system logs. Configure Mail Server carefully.

SMTP:

Port: 25 (1-65535)

SSL:

Authentication:

Sender Address:  (Optional)

Test SMTP Server:

**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.

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

Go to [Settings](#) > [General Settings](#) and enable [Alert Emails](#) in the [Services](#) section. Then click [Apply](#).

## Services

Alert Emails :



Remote Logging :



Syslog Server IP / Host Name :

Syslog Server Port :

 (1-65535)**Apply****Cancel**

Alert Emails

[Enable alert emails](#): When enabled, DMPS can send emails to notify the administrators and viewers of the site's 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 and viewers in one email.

To configure alert-level logs and enable email notifications on the controller, refer to [5.3.3 Notifications](#).

**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 [Edit](#) to edit an account. Enter the email address in [Email](#) and enable [Alert Emails](#). Click [Create](#) or [Apply](#).

**Edit**

Username :	admin
Change Password :	<input type="checkbox"/> Enable
Email :	example@tp-link.com (Optional)
Alert Emails :	<input checked="" type="checkbox"/> Enable <a href="#">(i)</a>

**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](#).

Event Type	Event	Alert	Email
User Logged In	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
User Login Failed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Site Created	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site Removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site Name Changed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Features Enabled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OLT Adopted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OLT Adoption Failed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
OLT Adoption in Batch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# 6

## ***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.

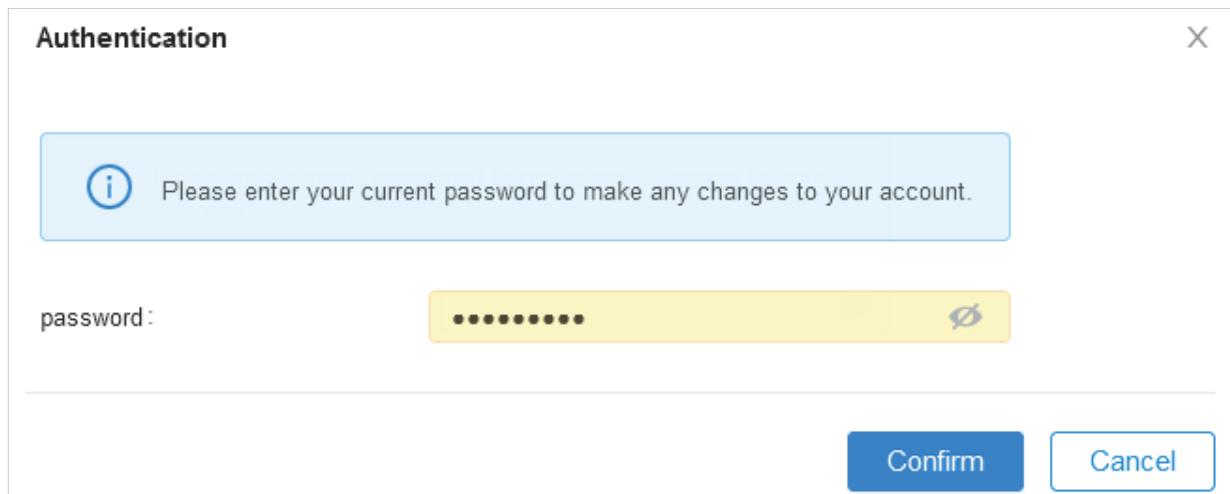
## 6.2 Manage and Create Local User Accounts

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).



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 :	<input type="checkbox"/> Enable
Email :	(Optional)
Alert Emails :	<input type="checkbox"/> Enable <a href="#">(i)</a>

[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					
USERNAME	EMAIL	ROLE	VERIFIED	SITE PRIVILEGES	ACTION
admin	--	Local Admin	✓	All	<a href="#">Edit</a>

Showing 1-1 of 1 records < [1](#) > 10 / page [▼](#)

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

**Create Account**

---

User Type :	<input checked="" type="radio"/> Local User <input type="radio"/> Cloud User	<b>Cloud Access Required</b>
Username :	admin	
Password :	***** 	
Role :	Please Select... 	
Site Privileges :	<input checked="" type="radio"/> All (Including all new-created sites) <input type="radio"/> Sites	
Email :	<input type="text"/> (Optional)	
Alerts Emails :	<input type="checkbox"/> Enable 	
<input type="button" value="Apply"/> <input type="button" value="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 the 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.



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.

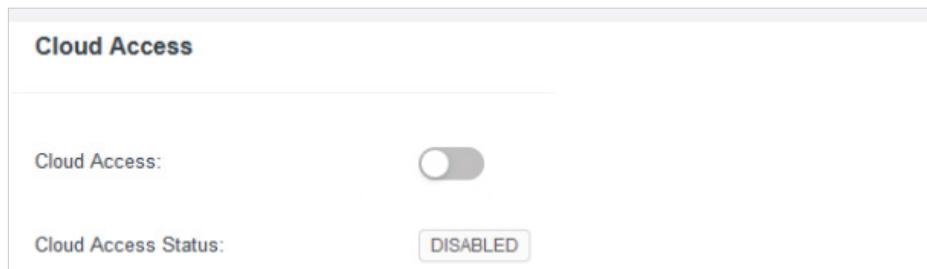
## 6.3 Manage and Create Cloud User Accounts

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.



**Log in and bind your TP-Link ID** X

TP-Link ID:  No TP-Link ID? [Register now](#)

Password:  ?

Login and Bind Cancel

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					
USERNAME	EMAIL	ROLE	VERIFIED	SITE PRIVILEGES	ACTION
admin	--	Local Admin	✓	All	<input checked="" type="checkbox"/>

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:

Site Privileges:  All (Including all new-created sites)  Sites

Role:

Site Privileges:  All (Including all new-created sites)  Sites

Alerts Emails:  Enable [i](#)

#### 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.

**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.

**System 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 permission to the created cloud user.  <b>All:</b> The created user has permission in all sites, including all new-created sites.  <b>Sites:</b> 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 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.