# IPower Switch Classic 8
# IPower Switch Classic 16

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|---|---|
| ***User Manual*** | ***English*** |
| ***Benutzerhandbuch*** | ***Deutsch*** |
| ***Manuel Utilisateur*** | ***Français*** |
| ***Manuale*** | ***Italiano*** |

No. 32657
32658

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## Introduction

Thank you for purchasing the IPower Switch Classic. This product has been designed to provide trouble free, reliable operation. It benefits from both a LINDY 2 year warranty and free lifetime technical support. To ensure correct use, please read this manual carefully and retain it for future reference.

This IPower Switch Classic 8/16 is a power management solution which connects to your existing network infrastructure to provide convenient remote control power management. System administrators can control the power to multiple servers, workstations, hubs, switches, router etc. allowing reboot and power-on and off functions, via a simple to use browser interface or via software.

## Package Contents

- IPower Switch Classic 8/16
- Rack mount brackets and screws
- Lindy Quick Installation Guide

## Features

- Remote management switch for up to 8/16 computers or other devices
- Built-in web server, supports real time monitoring for the current consumption of the power strip
- Power consumption charts for daily, monthly or a user-defined period.
- Build-in true RMS current meter
- Easy setup, the display shows the current IP address of the unit directly
- LED status indicator for each outlet
- Provides audio alarm when the power consumption exceeds the value for overload warning
- Monitor several IPower Switches Classic simultaneously via software
- Supports the SNMP protocol and provides an MIB for the unit
- Provides power protection by a circuit breaker
- Power on switching sequence adjustable
- Please note that SSL is not supported

## Specification

- Connectors:
  - Input: IEC C20
  - Output: 8x IEC C13 (32657) / 14x IEC C13 & 2x IEC C19 (32658)
  - Network connection: RJ45 10 Mbps Ethernet Port
- Input voltage: 110-240V
- Switched power (per port): max. 2400W (10@240V)
- Switched power (total): max. 3120W (13@240V) or 3840W (16@240V) using optional “Commando” to IEC 320 C19 power cable
- Nominal Input Frequency: 47-63 Hz Full Range
- LED Indicators: 1 x yellow LED, 1 x red LED
- Current Meter: 3 digits
- Current Range: 0A~20A (True RMS)
- Current Amperage: 0A~20A: +/-2% (+/- 0.1A)
- Operating Temperature: -5–45°C (23°F–113°F)
- Storage Temperature: -25–65°C (-13°F–149°F)
- Relative Humidity: 0–95% (non-condensing)

## Installation

### Hardware Installation

1. Attach the mounting brackets to the unit, using the four retaining screws provided for each of the brackets.
2. Choose a mounting position for the brackets (several options).
3. Align the mounting holes of the brackets with the notched hole on the vertical rail and attach with the retaining screws.
4. Connect the input and output power cables.
5. Connect the Ethernet cable to the unit.
6. Switch on the IPower Switch Classic.

Please note: The IPower Switch will request an IP address if a DHCP server is present in your network. If there is no DHCP server present, the IP address will be set to 192.168.0.216.

### Software Installation

To manage a group of outlets, we recommend downloading the software from the Lindy website. Single outlets might be controlled via the web interface.

1. Go to the included Software folder and open the “setup” file.
2. Follow the install wizard.
3. Once installed, the PDU software can be opened.
4. Default Login name is “admin” and default Login password is “1234”.

Please note: For some systems, especially Windows 10, NET Framework 2.0 is required. This can be enabled within Windows 10 as it comes pre-installed.

1. Go to “Control Panel”.
2. Click “Turn Windows Feature on or off”.
3. Tick the box for .NET Framework (Includes .Net 2.0 and 3.0), click install automatically when prompted.
4. Restart PC when prompted.

## Product Diagram

1. Ethernet: Network connection for the built-in web server

2. Audible Alarm:
   a. Warning: 1 beep in 1 second
   b. Overload: 3 beeps in 1 second
   Note: The overload alarm will not stop until the current falls back to 0.5 Amps below the setting value for the overload warning.

3. Function Button:
   a. Press and release this button to turn off the warning audible alarm. The overload alarm can't be stopped by pressing this button.
   b. Pressing the button and releasing it after to beeps will show up the unit's IP address.
   c. Pressing the button and releasing it after 4 beeps changes the IP address mode from fixed to DHCP and vice versa.
   d. Pressing the button and releasing it after 6 beeps restarts the network interface.

4. Meter: Displays the current or the IP address of the unit.

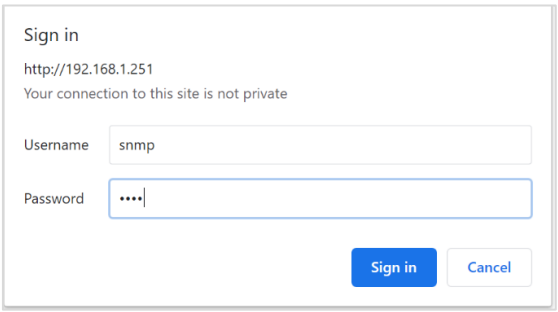
5. LED Indicator:
   a. Current: Lights to indicate that the power consumption is shown in the display.
   b. IP address: Lights to indicate that the IP address is shown in the display.

6. Output LED: Indicates, whether a power output is switched on.

## Operation

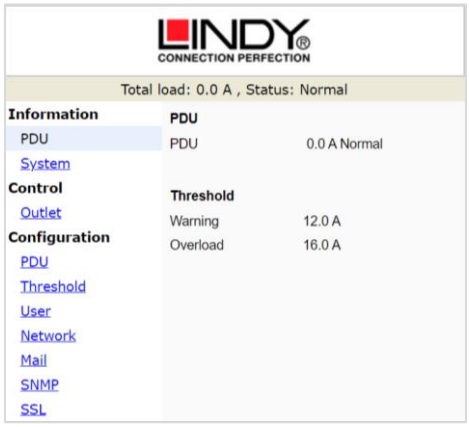
# Web Control

Default login name is "snmp" and default login password is "1234".



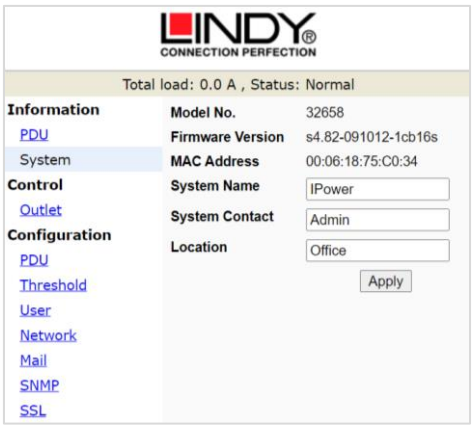
### Information – PDU

Indicates the IPower Switch's total power consumption and shows the warning and overload value setting.



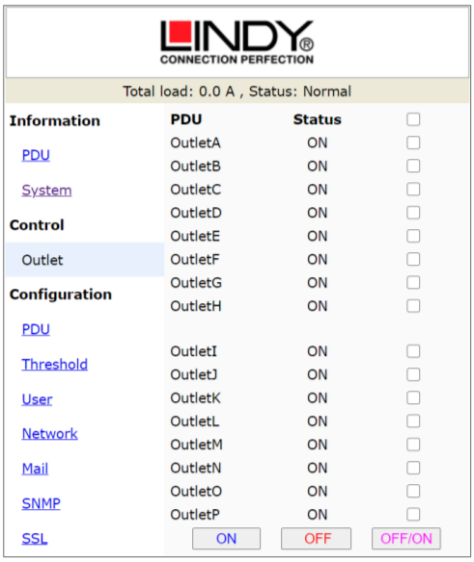

### Information – System

This tab provides all necessary information regarding system and SNMP.



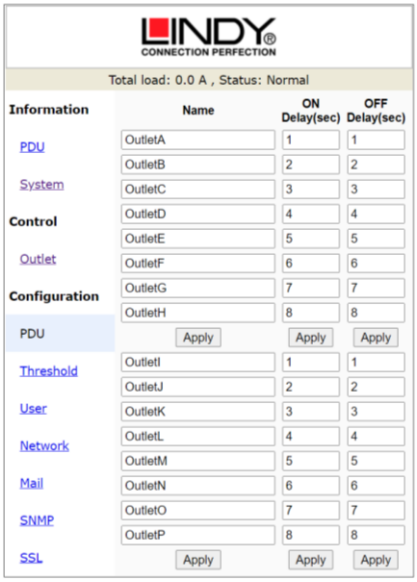

### Control – Outlet

This tab provides an overview of the outlet status. Select the outlet by check box first and click the on or off button to control the IPower Switch power output.



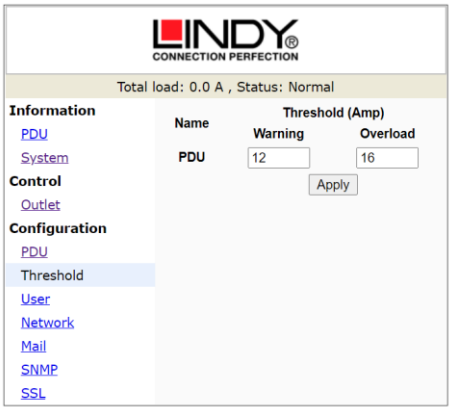
### Configuration – PDU

This tab is for controlling a single outlet or group outlets.



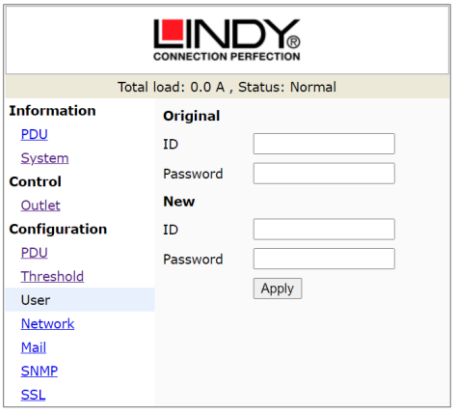

### Configuration – Threshold

This tab is to configurate thresholds.



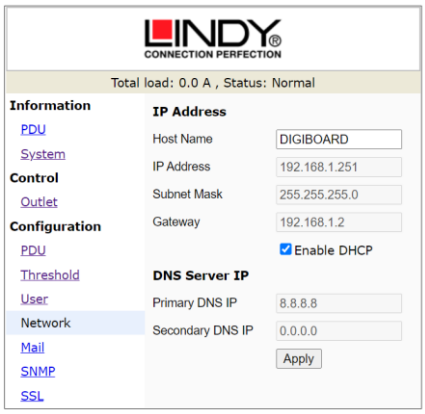

### Configuration – User

Change the ID and password. The default ID is “snmp” and the default password is “1234”. The user name and the password may have a maximum of 8 alphanumeric characters.



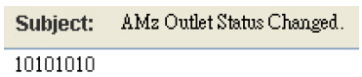
### Configuration – Network

This tab is for IP address configuration. The IPower switch will request an IP address if a DHCP server is present in your network. If there is no DHCP server present, the IP address will be set to 192.168.0.216.



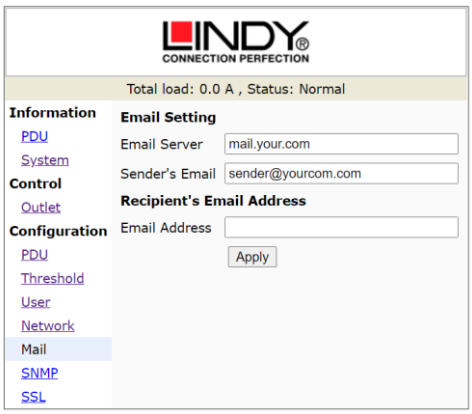

### Configuration – Mail

This tab is to configure messages to pre-defined accounts when different evens are occurring. The message in the email will show as below:



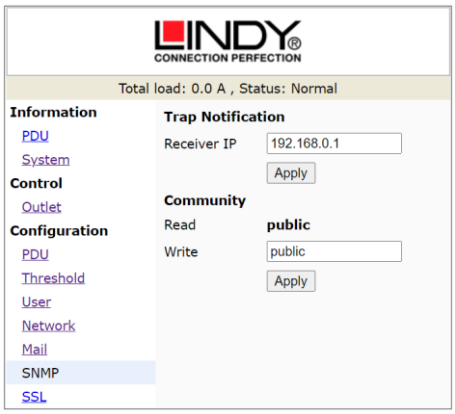

10101010

Indicates OutletA~H status order: 0 (power off) or 1 (power on).



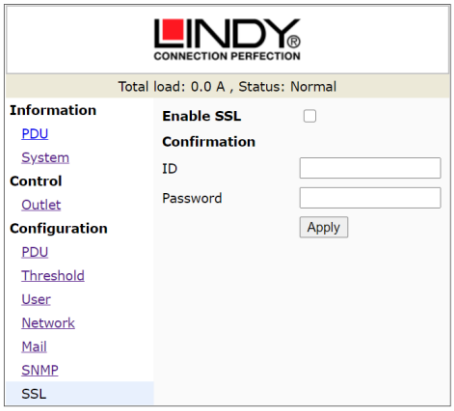

### Configuration – SNMP

This tab is to configure network management protocols.



### Configuration – SSL

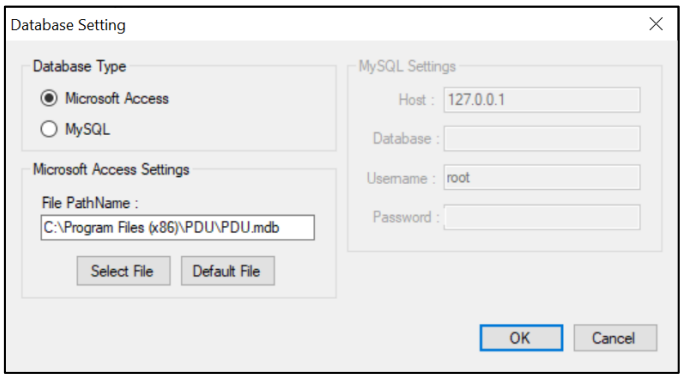
This tab is to configure the setup for SSL. The default user name is “snmp” and the password is “1234”. Please note: SSL is only supported up to Windows XP/Internet Explorer 6. Firefox and Google Chrome are not supported.




## Software

Please start the software always via Right Click → “Run as administrator”.

When using the software for the first time, the database type must be selected. The default database is set to Microsoft Access. If you want to use MySQL database, you may download it from http://www.mysql.org.



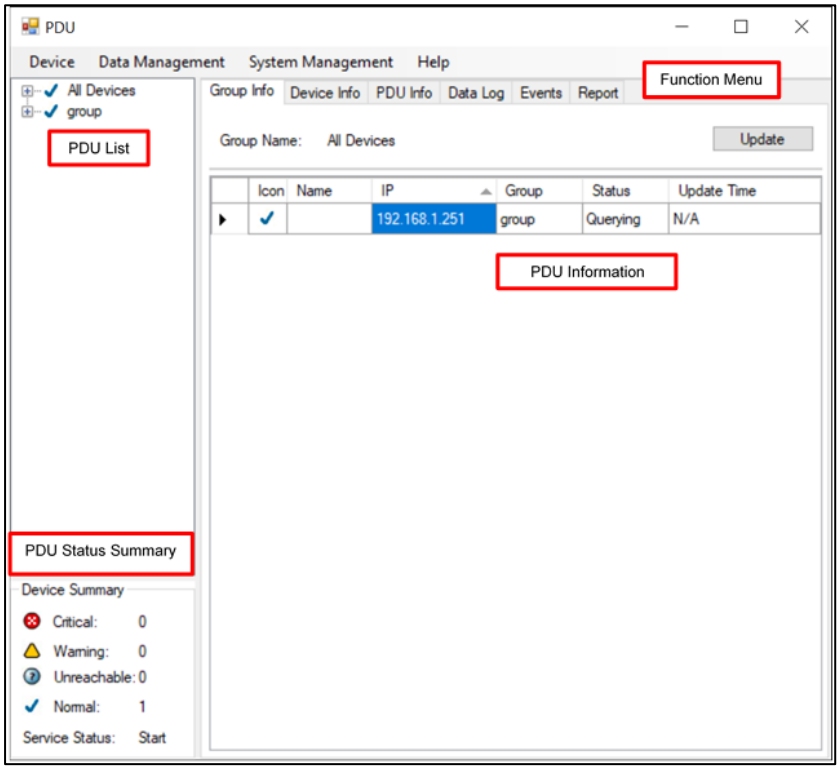

### PDU Login

The default user name is “admin” and the default password is “1234”.

### Software Interface

The software contains four sections:

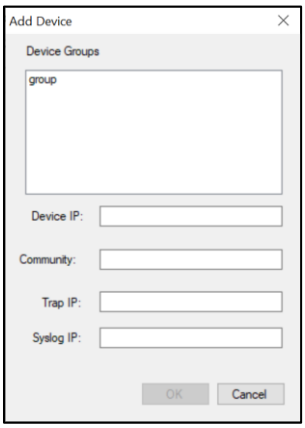
1. **Function Menu:** PDU utility functions bar.
2. **PDU List:** List of all PDUs in the network. It is possible to define groups to manage a large amount of PDUs.
3. **PDU Information:** This area provides detailled information about the PDU.
4. **Device Summary:** Indicates the status of the monitored PDUs.




### Device

### Add device

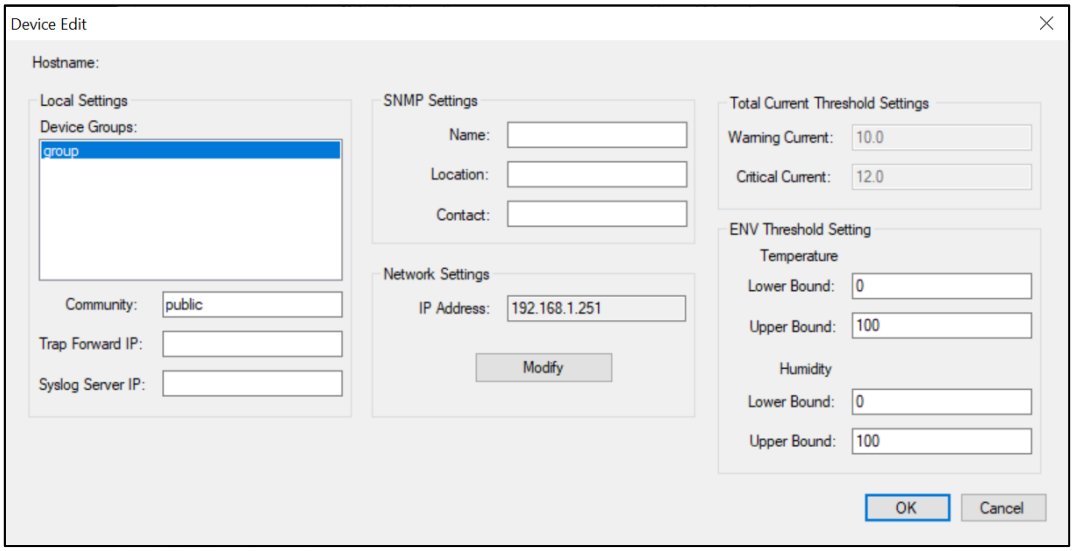
The system administrator can add a PDU manually if the IP address of the PDU has been setup before.




- Device Group: Select the PDUs which belong to a group.
- Community: Set the community, it must be the same as the PDU in order to communicate with it. Default setting is “private”. Please note: This community is set for the authority of “WRITE”. The “READ” community is set to public and cannot be changed.
- Trap IP: When event occurs, it can forward the event trap to certain users.
- Syslog IP: Forward the log to a certain Syslog server.

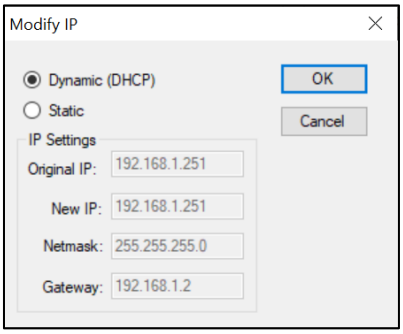
### Edit device

The administrator can redefine the PDU information.




- Device Group: Change the group of a PDU.
- Community: Set the community, it must be the same as the PDU. Please note: This community is set for the authority of “WRITE”.
- Trap Forward IP: Change the trap receiver IP.
- Syslog Server IP: Change the Syslog server IP.
- SNMP Settings: Modify the SNMP information for the PDU.
- Network Settings: Re-define the IP address of the PDU.
- Total Current Threshold Settings: This function is only available when there is more than one PDU available under this IP address. You can input the current threshold to prevent total PDU’s power consumption from exceeding the facility capacity.
- ENV Threshold Setting: Define the temperature and humidity thresholds. When the values are exceeded, a message will be sent to the administrator.

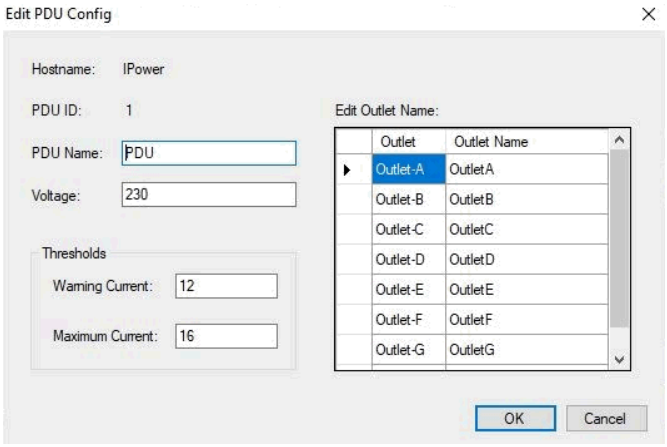
Administrators can change the method of the PDU utility to get the IP.




Delete the selected IP address of the PDU.

### Edit PDU Config

- PDU Name: User defines the PDU name.
- Voltage: User defines the voltage.
- Threshold: PDU Threshold.
- Outlet name: User defines the outlet name.

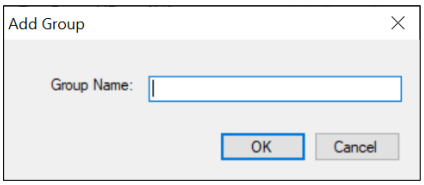



Please note: The community names in the WebGui and the software must be the same.

Remove the selected PDU. Update the PDU information manually.

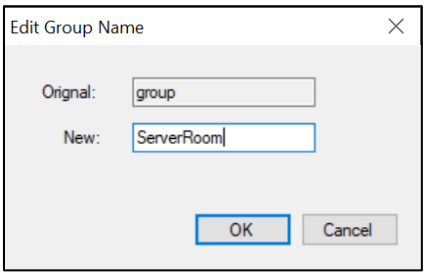
### Add device group

Create a new group.




### Edit Group

Rename the group.




Remove device group: Delete an existing group. All PDUs listed under this group must be removed first.

### Data Management

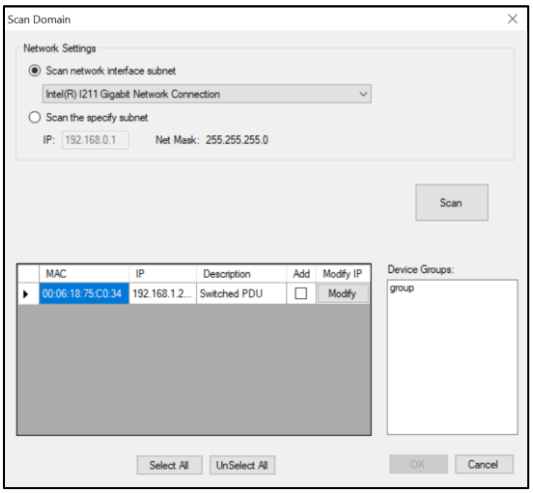
- Export kW*hr Account to CSV: Export power data with CSV format.
- Export Data Log to CSV: Export current data log with CSV format.
- Export Events to CSV: Export events data with CSV format.
- Remove kW*hr Account Records: Delete power consumption data.
- Remove Data Log Records: Delete current data log.
- Remove Event Records: Delete event log.

## System Management

### Scan Subnet

Search all IP addresses of PDUs that are connected under the same subnet.

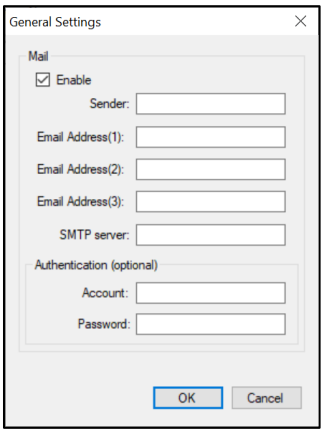
1. Select the way to scan the PDU in the network: Scan network interface subnet or scan the specific subnet.
2. Press the “Scan” button to search for all PDU devices under this subnet.
3. Check the box of “Add” for those you want to add to PDU utility.
4. Select one of the groups in the “Device Group” to assign the category to the PDUs.
5. Select “OK” to finish the procedure.




## General Settings

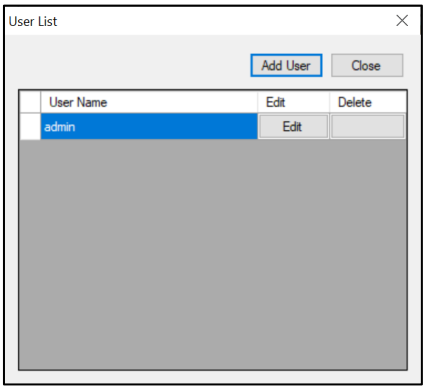
### Mail

When the event occurs, the PDU utility will send an email message to the pre-defined account.

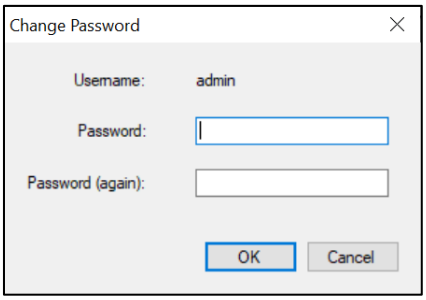


### User List

The administrator can add, delete and manage all user privilege in this tab.

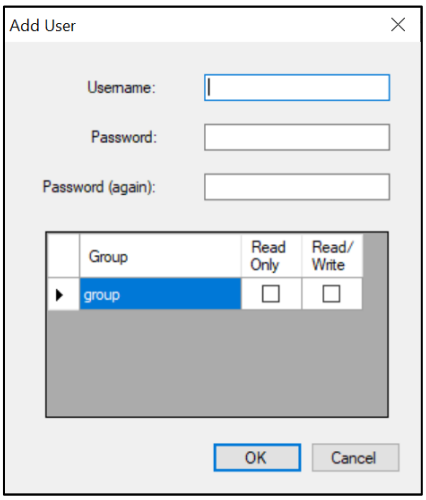



User can only change the password for the “admin” account.



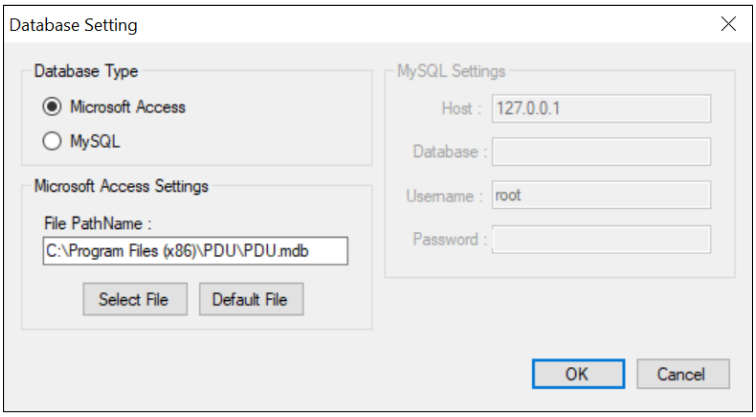

### Add/Edit user

User can be assigned to the authority of “Read” only or “Read/Write”. The password authority for the user can be changed.



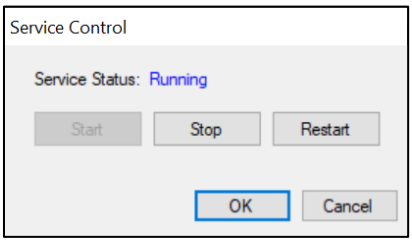
### Database Setting

In this tab the database settings can be modified.



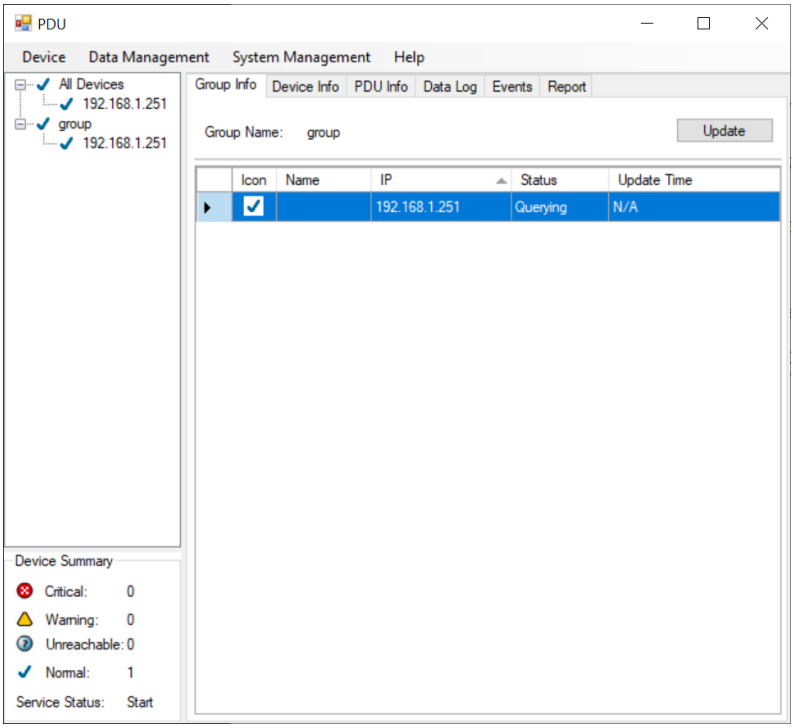

### Service Control

Please note: If the service cannot start, it could be that the SNMP port had been used by another program of Windows OS. Please close the program and then restart the PDU.



### Group Information

- Icon: Indicate the PDU status by different icons.
- Name: Name of the PDU.
- IP: IP address of the PDU.
- Status: Indicates the communication status with PDU utility.
  - Normal: The PDU utility communicates with the PDU normally.
  - Querying: The PDU utility is requesting data from the PDU.
  - Communication Lost: The PDU utility cannot get data from the PDU.
  - Warning: The power consumption of the PDU exceeds the threshold of warning.
  - Overload: The power consumption of the PDU exceeds the threshold of overload.
- Update Time: Indicates when the PDU information has been updated the last time.




### Device Summary

Critical: Indicates that output power of the PDU exceeds the setting of overload.

Warning: Indicates that output power of the PDU exceeds the setting of warning.

Unreachable: Indicates that the PDU utility cannot reach the PDU.

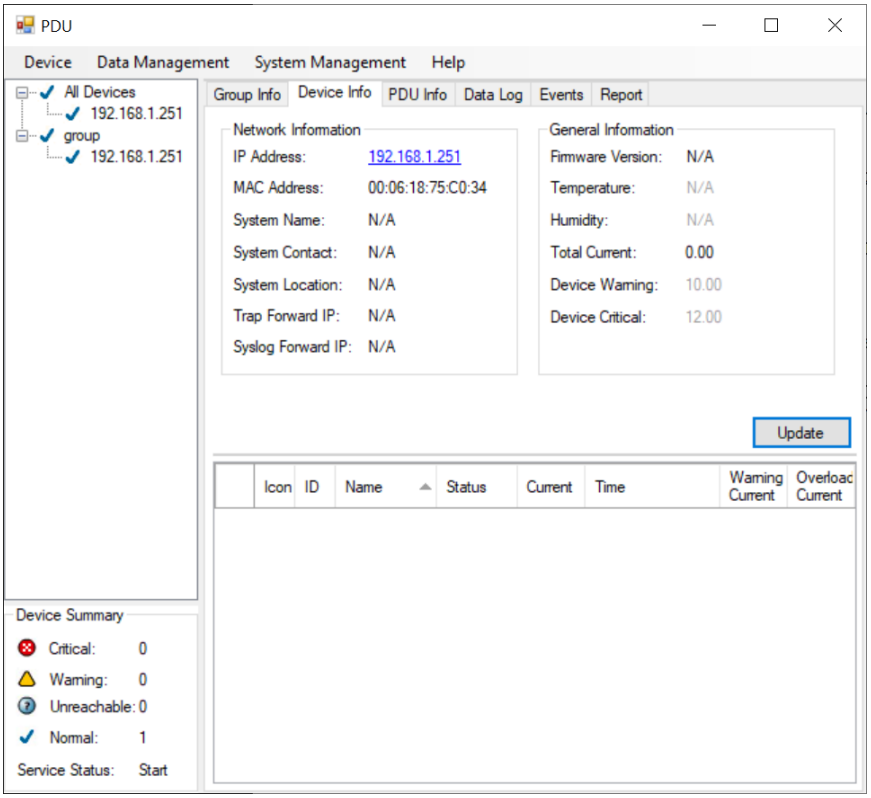
Normal: Indicates that the PDU is working normally.

Service Status: PDU utility status. When indicated “Stopped”, please go to System Management → Service Control to “Start” the service.

## Device Information

### Network and General Information

Indicates the network and system information and the information from the total PDU device and attached devices.




Indicates all relevant information for the connected PDU.

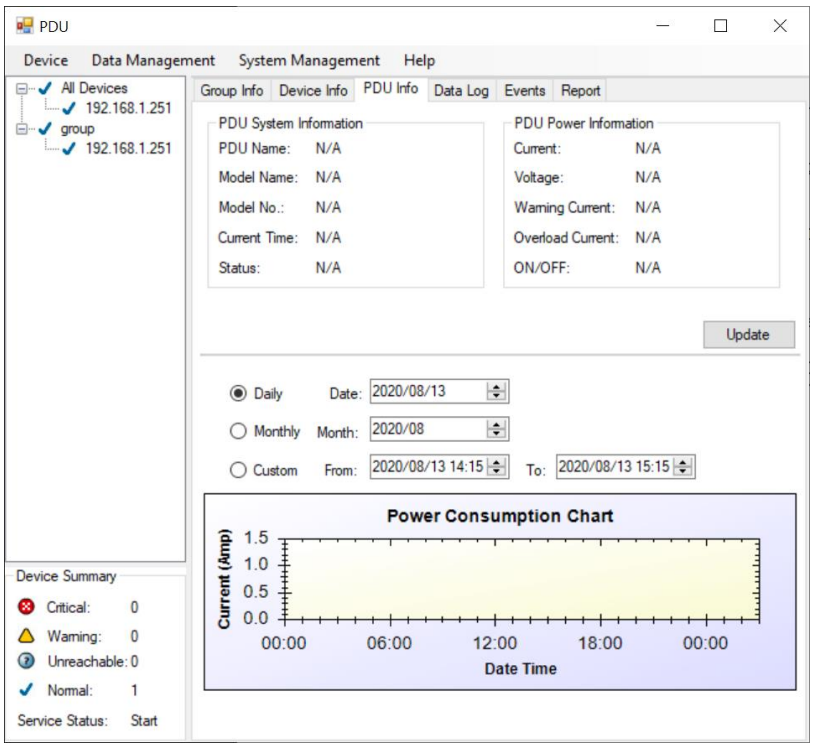
- Icon: Indicates the PDU status by different icons.
- ID: Identification of the PDU.
- Name: Name of the PDU.
- Status: Indicates the communication status with PDU utility:
  - Normal: The PDU utility communicates with the PDU normally.
  - Querying: The PDU utility is requesting data from the PDU.
  - Communication Lost: The PDU utility cannot get data from the PDU.
  - Warning: The power consumption of the PDU exceeds the threshold of warning.
  - Overload: The power consumption of the PDU exceeds the threshold of overload.
- Current: The PDU power consumption.
- Time: The current time:
- Warning current: Display the setting of the PDU for warning threshold.
- Overload current: Display the setting of the PDU for overload threshold.

### PDU Information

PDU System Information provides the PDU information and status.

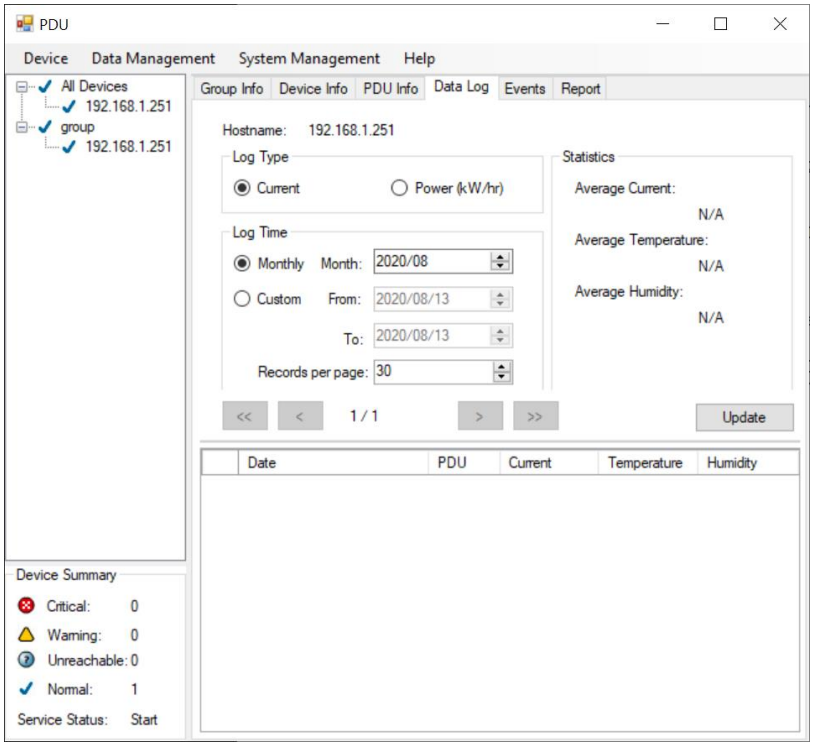
PDU Power Information – if the PDU supports outlet control, you can click on the hyperlink and enter to the PDU web page to control the outlet.

The Power Consumption Chart provides the chart for the PDU power consumption record. The administrator can check the record daily, monthly or after a custom-defined time period.

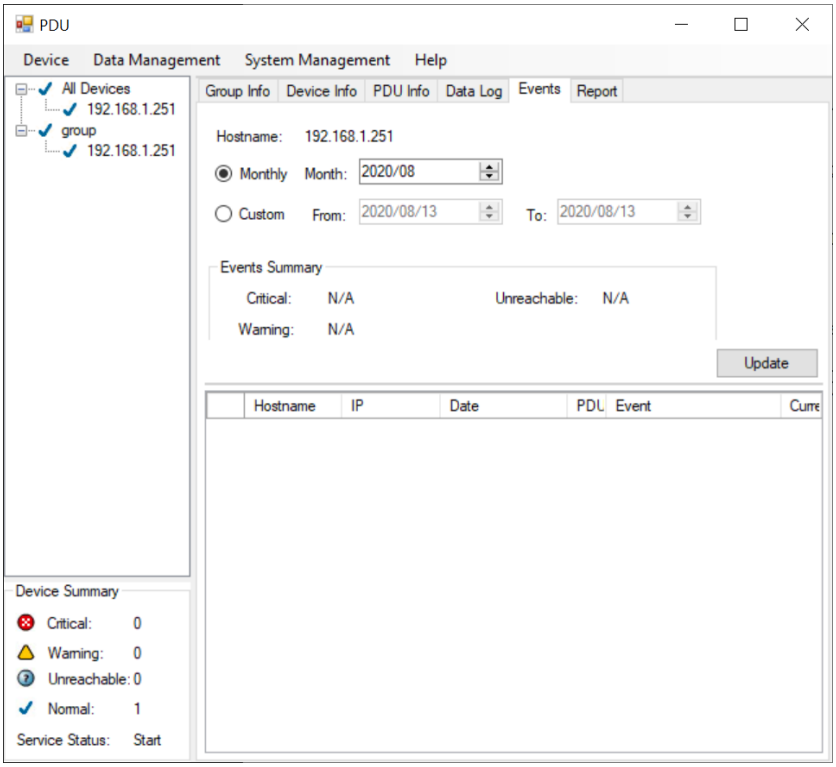



### Data Log

This tab provides PDU current data and power record.

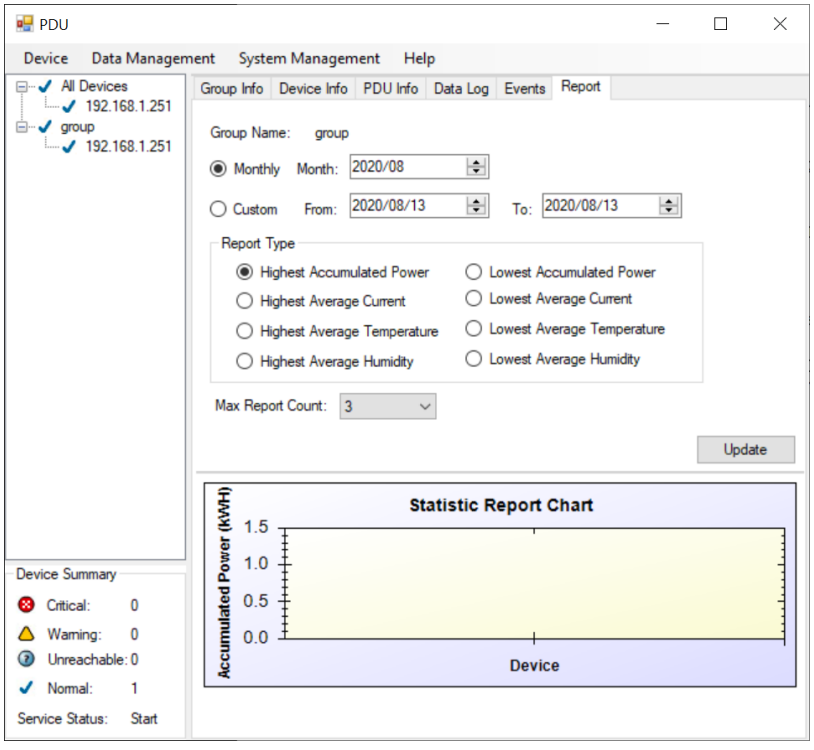


### Events
This tab provides events log.




### Report
This tab provides data analysis.

1. Accumulated Power
2. Average Current
3. Average Temperature
4. Average Humidity



# CE/FCC Statement

***CE Certification***
LINDY declares that this equipment complies with relevant European CE requirements.

***CE Konformitätserklärung***
LINDY erklärt, dass dieses Equipment den europäischen CE-Anforderungen entspricht

***UKCA Certification***
LINDY declares that this equipment complies with relevant UKCA requirements.

***FCC Certification***

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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**LINDY Herstellergarantie – Hinweis für Kunden in Deutschland**

LINDY gewährt für dieses Produkt über die gesetzliche Regelung in Deutschland hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.

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## Recycling Information

**WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products**

### Europe, United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.
Each individual EU member state, as well as the UK, has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

### Germany / Deutschland Rücknahme Elektroschrott und Batterie-Entsorgung

Die Europäische Union hat mit der WEEE Direktive Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Das Entsorgen von Elektro- und Elektronikgeräten über die Hausmülltonne ist verboten! Diese Geräte müssen den Sammel- und Rückgabesystemen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernehmen die Gerätehersteller.
LINDY bietet deutschen Endverbrauchern ein kostenloses Rücknahmesystem an, beachten Sie bitte, dass Batterien und Akkus den Produkten vor der Rückgabe an das Rücknahmesystem entnommen werden müssen und über die Sammel- und Rückgabesysteme für Batterien separat entsorgt werden müssen. Ausführliche Informationen zu diesen Themen finden Sie stets aktuell auf der LINDY Webseite im Fußbereich.

### France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.
Chaque Etat membre de l'Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

### Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.
Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

Tested to comply with
FCC standards.
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