PDU Utility

User Manual

General

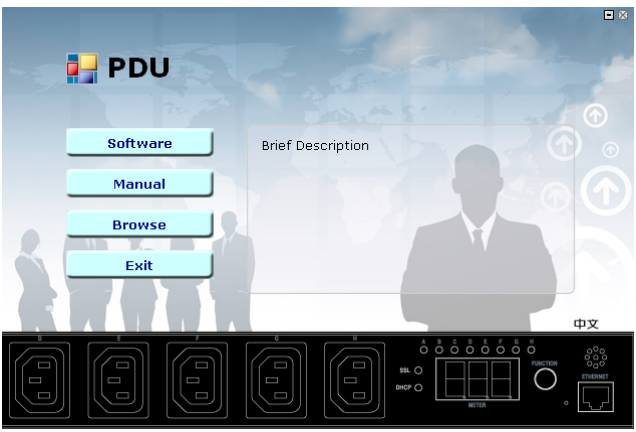
PDU Utility is PDU monitoring, management software. It has been designed to provide information about power conditions and status of PDU and power environment.

Its functions have

1. Monitor a large amount of PDU power consumption simultaneously.
2. Group Management of a large amount of the PDU.
3. Provide power consumption chart for daily monthly or the user-defined period report.
4. Send the email and trap to the specific account when the power event occurs.
5. Forward the trap to the user-defined account.
6. Events can be logged and exported to the Syslog server.

Install Sofware

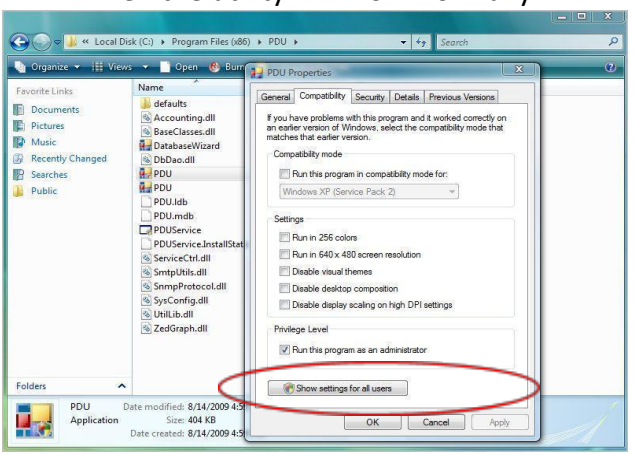
CD Auto play screen.
Please install the software step by step.



Note:

1. It will take several minutes if your operation system had not been installed Microsoft .NET Framework yet.
2. Recommend that install the PDU Utility to the server level of Windows operation system.

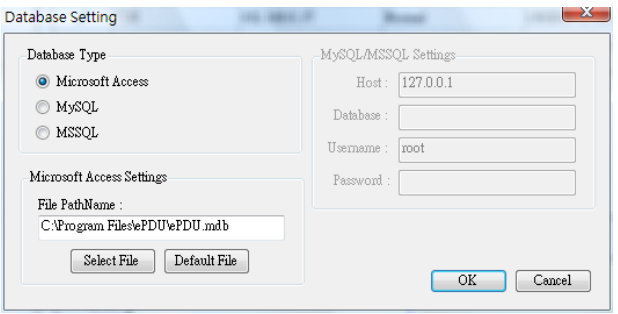
3. If install utility under Windows Vista and Win 7, you must first go to the folder of PDU and select the Properties of "PDU.exe", shown as below to check the "Run this program as an administrator". Then the utility will work normally.



First time to use PDU software, you must select what kind of database that you want to record the PDU information.

- The default database is set to Microsoft Access.
- If you want to use MySQL database, you may download it from http://www.mysql.org

- Please note that MS-SQL are verified for MS SQL 2005.

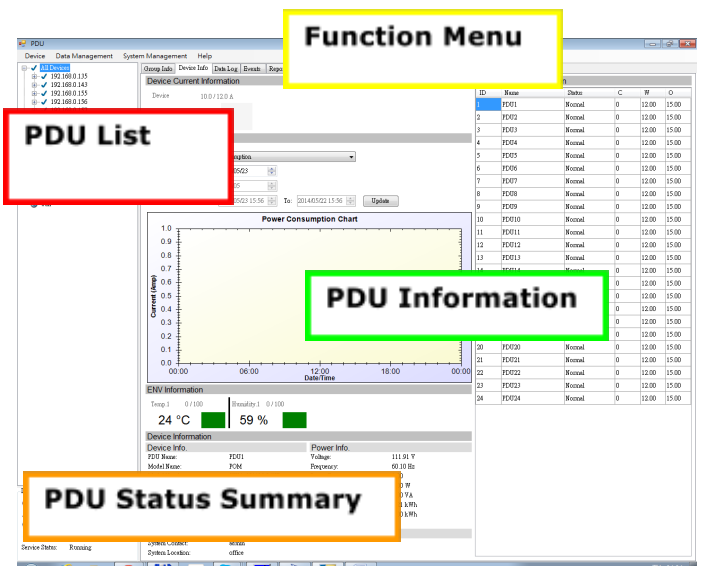


Login

The default User Name is **admin**,
Password is **1234** .

Interface:

Display all power information by table and txt interface. Provide more detail information.



Function Menu:

PDU Utility functions bar.

PDU List:

List all the PDU in the network; user can define the group to easily manage a large amount of the PDU.

PDU Information:

This area provides all detail information about the PDU. Including all outlet current consumption

Device Summary:

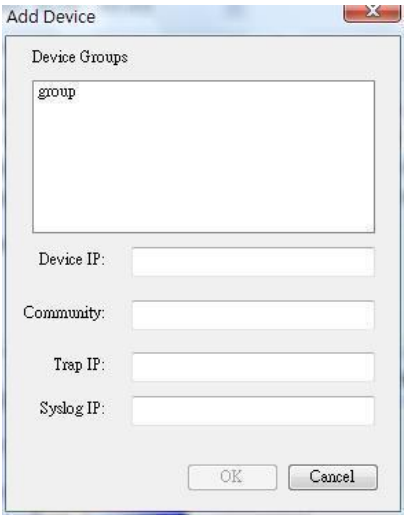
Indicate the status of the monitored PDU in the network.

Function Menu

Device

Add Device

Administrator can add the PDU by manually if the IP address of PDU had been setup before.



Device Group:

Select the PDU belongs to which group

SNMP Community:

Set the community, it must the same with the PDU in order to communicate with it. Default setting is **“private”**

> **Note1:** This community is set for the authority of “WRITE”.
> **Note2:** The “READ” community is set to “public”, and user can not change.

Trap forward IP:

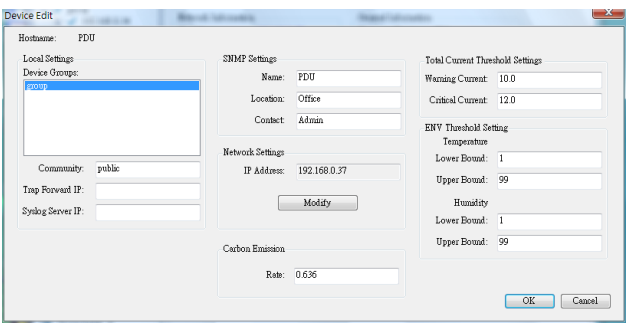
When event occurs, it can forward the event trap to the certain NMS.

Syslog server IP:

Forward the log to the certain Syslog server.

Edit Device

Administrator can redefine the PDU information here, including



Device Group:

Change the PDU belongs to which group

SNMP Community:

Set the community, it must the same with the PDU.

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.

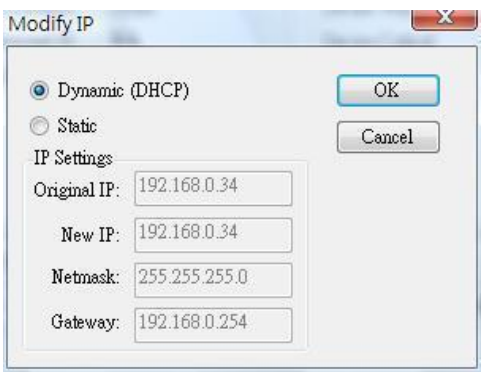
SNMP Settings:

Modify the SNMP information for the PDU.

Network Settings:

Redefine the IP address of PDU.

Manager can change the method that PDU Utility to get the IP.



Total Current Threshold Setting

It is only available when there is not only one PDU under this IP address.

User can input the current threshold to prevent total PDUs' power consumption exceed the facility capacity.

ENV Threshold Setting

When the temperature or humidity exceeds the pre-setting, utility will send mail to notify manager.

Remove Selected Device

Delete the selected the IP address of PDU

Edit PDU Config

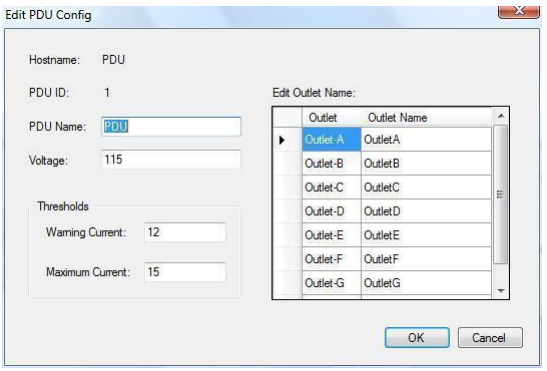
Modify PDU configuration.

PDU Name: User defines the PDU name.

Voltage: User defines the voltage..

Threshold: PDU Threshold.

Outlet Name: (Option) User defines the outlet name.



Remove Selected PDU

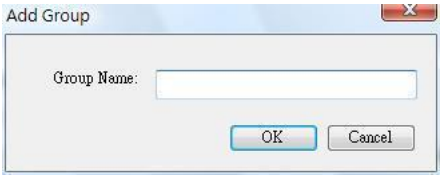
Delete the selected PDU

Update Device Information

Update the PDU information manually.

Add Device Group

Create a new group.



The default group is named “Group”.

Edit Group

Rename the group

Remove Device Group

Delete an existing group. All PDU listed under this group must be removed first.

Data Management

Provide data management. Logs can be export and remove from database.

Export kW*hr Account to CSV
Export Data Log to CSV
Export Events to CSV
Remove kW*hr Account Records
Remove Data Log Records
Remove Event Records

System Management

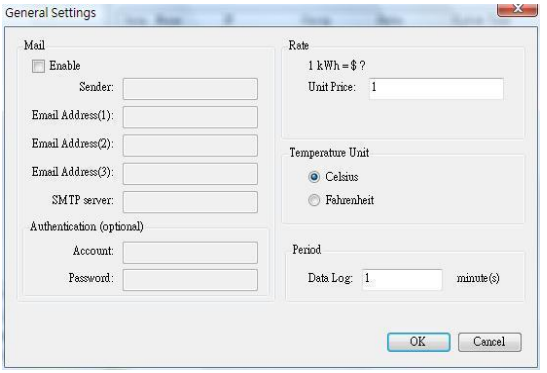
Scan Subnet

Search all IP addresses of PDU that had being connected under the same subnet.

1. Select the way to scan the PDU in the network.
   - Scan network interface subnet
   - Scan the specify subnet
2. Press the “Scan” Button to search all PDU devices under this subnet.
3. Checked the box of “ADD” that you want to add to PDU Utility.
4. Select one of the groups in the “Device Group” to category the PDU.
5. Select “OK” to finish the procedure.

General Setting

This setting contains two functions.



Mail:

When the event occurs, PDU Utility can send out the email message to the pre-defined account.

Rate:

User can input the electricity rate to calculate the bill for reference.

Temperature Unit:

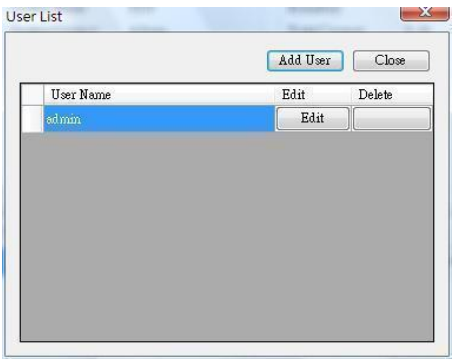
Switch the temperature unit between Celsius and Fahrenheit.

Period:

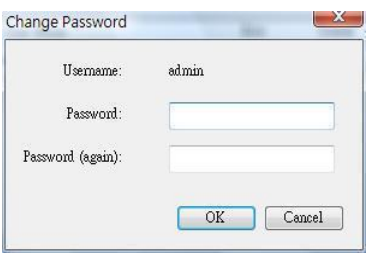
Change the interval of log.

User List

Administrator can add, delete and manager all the user privilege here.



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



Add user

User can be assigned to the authority of Read

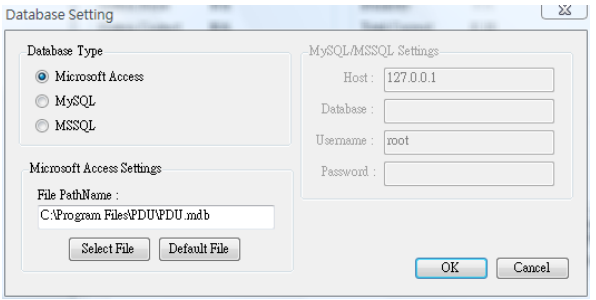
only or Read/Write.

Edit User:

Change the password, authority for the user.

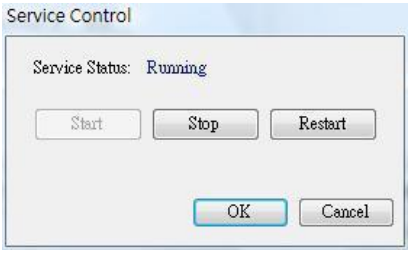
Database Setting

Modify the database setting.



Service Control

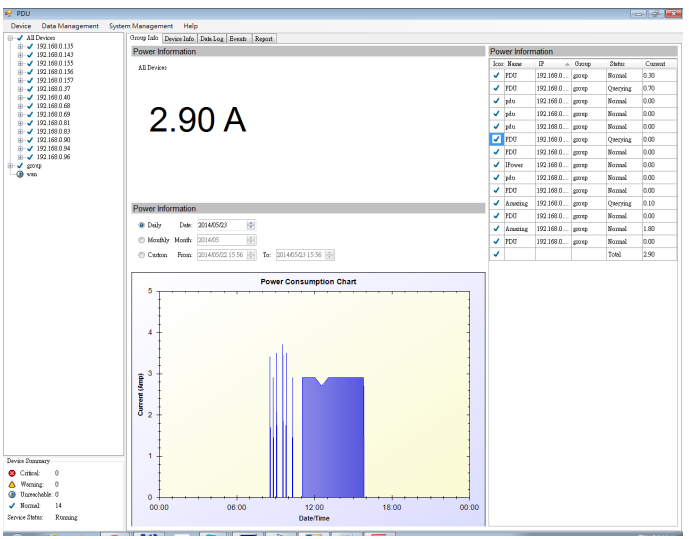
Display the operation status of PDU utility



Note:

If the service does not start, it could be the SNMP port had been used by the other program in the Windows OS. Please terminate this SNMP program first and then restart PDU.

Group Info.



All Devices:

Display total current consumption in this group.

Power Consumption Chart

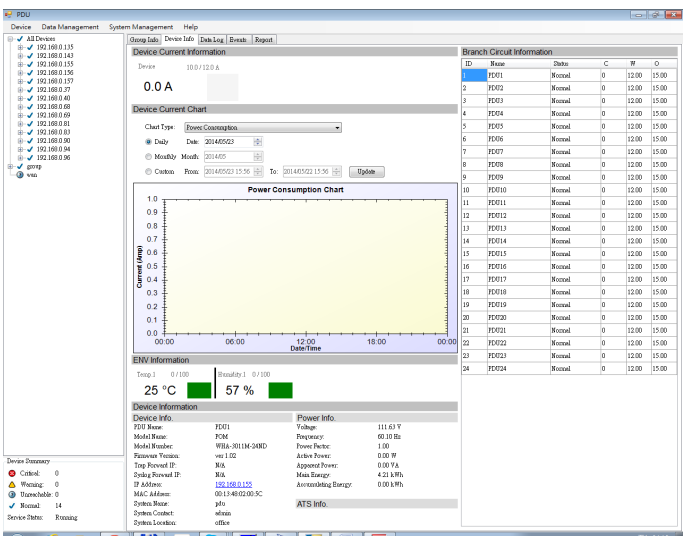
Summarize and display all PDU current consumption in this group.

Power information

Display each PDU current consumption in this group.

Device Info.

Provide PDU information.



Device Current Information:

Display PDU current consumption information.

Device Current Chart:

Display individual PDU current chart.

ENV information

Display temperature and humidity information when ENV probe was plugged to PDU

Device information

Indicate the device information, Including

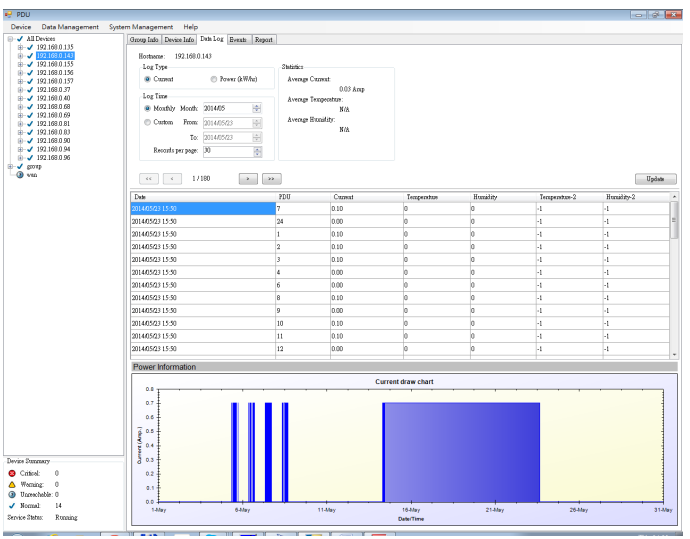
- PDU name
- Model Name
- Model Number
- Firmware Version
- Trap Forward IP
- Syslog Forward IP
- SNMP
- MAC address
- other power information, including kWh, Voltage, VA, W, Hz

Branch Circuit information

Display each PDU current consumption in this group.

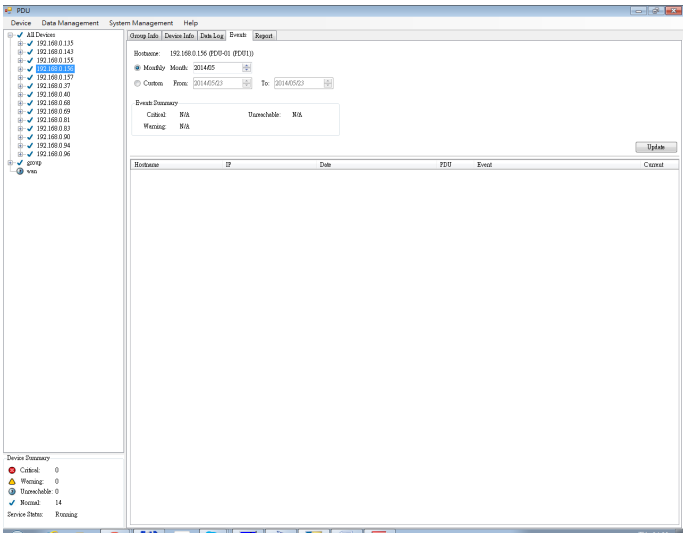
Data Log

Provide PDU current data and power record.



Event Log:

Provide events log.



Report:

Provide data analysis.

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